

F. D'AURIA - PUBLICATIONS - (Status Nov. 20, 2022)
(78 pages including present one, 1242 publications = 1164+94 ARPI)

- [1] **1978 – Cozzani M., D'Auria F., Turroni P., Zucchini M.**, "Thermo-mechanical design of the core of PEC Fast Reactor" (in Italian), CNEN-DRV Report VT.CC.00065, Bologna (I), Apr. 1978
- [2] **1978 – Vigni P., D'Auria F., Rosa U.**, "Blowdown experiments from a pressure vessel with internal structures" (in Italian), University of Pisa Report, IIN - RL 317(78), Pisa (I), Dec. 1978
- [3] **1979 – Bitetti G., Cerullo N., D'Auria F., Galassi G.M., Oriolo F., Rosa U., Vigni P.**, "Loss of Coolant Accident: parametric analysis of the initial period of the depressurization of a BWR vessel with the use of the RELAP4/MOD5 code" (in Italian), University of Pisa Report, IIN - RL 355(79), Pisa (I), March 1979
- [4] **1979 – Vigni P., D'Auria F.**, "Problems in the evaluation of thrusts during a Loss of Coolant Accident in a Light Water Reactor" (in Italian), University of Pisa Report, IIN - RL 359(79), Pisa (I), Nov. 1979
- [5] **1979 – Vigni P., D'Auria F.**, "Unsteady Two-Phase Jet Forces" (in Italian), *J. Ingegneria Nucleare*, Vol. 10, Nov. 1979, pages 23-32
- [6] **1980 – D'Auria F., Vigni P.**, "Blowdown two-phase flowrate evaluation from pressure and thrust measurements", University of Pisa Report, IIN - RP 437(80), Pisa (I), Apr. 1980
- [7] **1980 – Carbone C., D'Auria F., Mazzini M., Oriolo F.**, "Determination of electrical power to be supplied to LOBI heaters", University of Pisa Report, DCMN - NT 011(80), Pisa (I), June 1980
- [8] **1980 – D'Auria F., Lazzeri S., Mazzini M., Rugai G., Vigni P.**, "Feasibility analysis of PIPER-ONE loop: a system to simulate SBLOCA in BWRs" (in Italian), University of Pisa Report, IIN - RP 416(80), Pisa (I), Sept. 1980
- [9] **1980 – D'Auria F., Vigni P.**, "Two-Phase Critical Flow Models", *CSNI Report No 49, Paris (F)*, May 1980
- [10] **1981 – D'Auria F., Vigni P.**, "Fluid-dynamic Analysis of Steam-Water Flows from a Pressure Vessel", Workshop on Jet Impingement and Pipe Whip, Genova (I), June 29 - July 1, 1981
- [11] **1981 – Mazzini M., D'Auria F., Vigni P.**, "PIPER-ONE, an Experimental Apparatus to Evaluate Thermal-hydraulic Transients in BWRs after Small Breaks", ANS Spec. Meet. on Small Break LOCA Analyses in LWR's, Monterey (Ca, US), Aug. 25-27, 1981
- [12] **1981 – Carbone C., D'Auria F., Lazzeri S., Mazzini M., Rugai G., Vigni P.**, "Analysis by RELAP4/MOD6 code of the reference transient in the design of PIPER-ONE loop" (in Italian), University of Pisa Report, IIN - RP 492(81), Pisa (I), Sept. 1981
- [13] **1981 – Brotini P., Carbone C., D'Auria F., DeSanti G., Mazzini M., Oriolo F.**, "LOBI test A2-55: electric power evaluation and preliminary analysis of results obtained by RELAP4/MOD6 code", University of Pisa Report, IIN - RP 472(81), Pisa (I), March 1981, 19th Meet. of the LOBI-B Working Group, Ispra (I), March 1981
- [14] **1982 – Annunziato A., D'Auria F., Mazzini M., Oriolo F.**, "LOBI test B-302: electric power evaluation and pre-test analysis performed by RELAP4/MOD6 computer code", University of Pisa Report, DCMN - RP 002(82), Pisa (I), Sept. 1982, 20th Meet. of the LOBI-B Working Group, Ispra (I), Sept. 29-30, 1982
- [15] **1982 – D'Auria F., Moschetti L.**, "Thermal-hydraulic design of PIPER-ONE loop", University of Pisa Report, DCMN - RL 003(82), Pisa (I), Nov. 1982
- [16] **1982 – D'Auria F., Fineschi F.**, "Proposal of planning hydrogen related experiences in PIPER-ONE facility", University of Pisa Report, DCMN - NT 001(82), Pisa (I), June 1982
- [17] **1982 – D'Auria F., Mazzini M., Vigni P.**, "Basic Scaling Principles Adopted for the Simulation of BWR Behaviour during Small LOCAs", Joint NRC/ANS Meet. on Basic Thermal-hydraulic Mechanisms in LWR Analysis, Bethesda (Md, US), Sept. 14-15, 1982
- [18] **1982 – D'Auria F., Galassi G.M., Oriolo F., Vigni P.**, "Survey of Thermal-hydraulic Computer Codes and Experiences in Applications to Nuclear Reactor Safety", Working Seminar on Mathematical Models and Applied Numerical Software in Nuclear Energy, Varna (Bg), Oct. 6-8, 1982

- [19] **1982 – Brittain I., Karwat H., D'Auria F., Vigni P., Hall D.G., Reocreux M.**, "Critical Flow Modelling in Nuclear Safety", **NEA/OECD Report, ISBN 92-64-12366-0, Paris (F), Nov. 1982**
- [20] **1983 – D'Auria F., Vigni P.**, "BLOWAES: a Method to Evaluate Blowdown Two-Phase Flowrate from Pressure and Thrust Measurements", 2nd Int. Top. Meet. on Nuclear Reactor Thermal-hydraulics (NURETH-2), Santa Barbara (Ca, US), Jan. 11-14, 1983
- [21] **1983 – D'Auria F., Galassi G.M.**, "OECD CSNI ISP 15: pre-test analysis of a split break transient in FIX-II loop performed at Pisa University by RELAP4/MOD6 code", University of Pisa Report, DCMN - RL 040(83), Pisa (I), May 1983, submitted to Studsvik for comparison report
- [22] **1983 – D'Auria F., Mazzini M., Oriolo F., Vigni P.**, "Review of the Activities in the Thermal-hydraulic Field carried out at Dipartimento di Costruzioni Meccaniche e Nucleari of the University of Pisa", 1983 European Two-Phase Flow Group Meet., Zurich (CH), June 14-17, 1983
- [23] **1983 – D'Auria F., Pieve L.**, "Density Measurements for Two-Phase Critical Flows" (in Italian), 38th Conf. Italian Thermo-technic Association (ATI), Bari (I), Sept. 28-30, 1983^(o)
- [24] **1983 – Boccaccini L., D'Auria F., Galassi G.M., Oriolo F., Paci S.**, "OECD NEA Sample Problem Analysis with RELAP5/MOD1-019 Computer Code", Workshop on Computer Aspects of the RELAP5 Program, Paris (F), Nov. 28-29, 1983
- [25] **1983 – D'Auria F.**, "Loops available in Italy for performing Computer Codes Assessment", **CSNI Report SINDOC(83)260, Paris (F), 1983**
- [26] **1983 – Brotini P., D'Auria F., DeSanti G., Galassi G.M., Mazzini M., Oriolo F.**, "Post-test analysis of LOBI test SD-SL-03 performed by RELAP4/MOD6 code", University of Pisa Report, DCMN - RL 032(83), Pisa (I), March 1983, 1st Meet. of LOBI SBATF, Ispra (I), March 21, 1983
- [27] **1983 – Bovalini R., D'Auria F., Giannecchini S., Mariotti F., Mazzini M., Piccinini L., Pintore S., Romano G.**, "Design of PIPER-ONE loop -Final Version- " (in Italian), University of Pisa Report, DCMN - RL 036(83), Pisa (I), June 1983
- [28] **1983 – D'Auria F., Di Marco P., Nava M.**, "PIPER-ONE loop: simulation of heat transfer between fluid and structures during a SBLOCA in a BWR" (in Italian), University of Pisa Report, DCMN - RL 049(83), Pisa (I), July 1983
- [29] **1983 – D'Auria F., De Santi G., Galassi G.M., Mazzini M., Oriolo F.**, "Analysis of the influence of the upper downcomer nodalization on the LOBI test SD-SL-03 using RELAP4/MOD6", University of Pisa Report, DCMN - RL 051(83), Pisa (I), Nov. 1983, 2nd Meet. of LOBI SBATF, Ispra (I), Nov. 9, 1983
- [30] **1983 – D'Auria F., Galassi G.M.**, "OECD CSNI ISP 15: post-test analysis of a split break transient in FIX-II loop performed at Pisa University by RELAP4/MOD6 and RELAP5/MOD1 codes", University of Pisa Report, DCMN - RL 067(83), Pisa (I), Dec. 1983, OECD CSNI Workshop on ISP 15, Nykoping (S), Dec. 15-16, 1983
- [31] **1983 – D'Auria F.**, "Italian point of view in assessment and validation of large thermal-hydraulic computer codes", University of Pisa Report, DCMN - RL 070(83), Pisa (I), Dec. 1983, 3rd Meet. of the CSNI SACTE Task Group, Paris (F), Nov. 30-Dec. 3, 1983
- [32] **1984 – D'Auria F., Vigni P.**, "Non-Stationary Steam Water Jets", **J. Heat and Technology, Vol. 2, n. 1, March 1984**
- [33] **1984 – D'Auria F., Moschetti L., Oriolo F.**, "OECD CSNI ISP 12: analysis of a SBLOCA in the ROSA-III facility", University of Pisa Report, DCMN - RL 123(84), Pisa (I), Feb. 1984
- [34] **1984 – D'Auria F., Di Marco P., Nava M.**, "Simulation of nuclear fuel rod behavior in experimental facilities", University of Pisa Report, DCMN - RL 126(84), Pisa (I), June 1984
- [35] **1984 – Bessette D., Brittain I., D'Auria F., Naff S., Pochard R., Wolfert K., Zuber N.**, "CSNI validation matrix for the assessment of thermal-hydraulic codes for PWR LOCA and Transients", CSNI PWG-2 Meet., Paris (F), Oct. 10-11, 1984
- [36] **1984 – Boccaccini L., D'Auria F., Galassi G.M., Oriolo F., Paci S.**, "Improvement of RELAP5/MOD1 and Application of the New Code Version to ISP 15 Post-Test Analysis", NEA Workshop on User Experience with

RELAP5, TRAC/PD2 and TRAC/PF1, Vienna (A), May 16-18, 1984

- [37] **1984 – D'Auria F., Vigni P.**, "The Evaluation of Friction Pressure Losses in Two-Phase High Velocity Flows using Non-Homogeneous Models", European Two-Phase Flow Group Meet., Roma (I), June 19-21, 1984
- [38] **1984 – Cerullo N., D'Auria F., Galassi G.M., Mazzini M., Oriolo F., Vigni P.**, "Experience in the Use of Relap4 Code for the Analysis of Transients in Pressurized Water Reactors" (in Italian), Book: papers in Honor of Prof. L. Lazzarino (Scritti per LUCIO LAZZARINO), Pacini Editore, Pisa (I), Nov. 1984 (Chapter of a Book), @Copyright by Università degli Studi di Pisa, 1986, pp 450-473
- [39] **1984 – D'Auria F., Mazzini M., Vigni P.**, "PIPER-ONE: a Loop to study Small Break LOAs in Boiling Water Reactors" (in Italian), Book: papers in Honor of Prof. L. Lazzarino (Scritti per LUCIO LAZZARINO), Pacini Editore, Pisa (I), Nov. 1984 (Chapter of a Book), @Copyright by Università degli Studi di Pisa, 1986, pp 508-535
- [40] **1984 – D'Auria F., Vigni P.**, "Pressure Drops of Two-Phases Critical Flows" (in Italian), 2nd Conf. of Italian Society of Heat Transport, Bologna (I), June 22-23, 1984
- [41] **1984 – Breghi M.P., D'Auria F., Piccinini L.**, "Measurement of Two-Phase Critical Flow from a Small Break" (in Italian), 39th Conf. Italian Thermo-technic Association (ATI), L'Aquila (I), Sept. 12-14, 1984
- [42] **1985 – D'Auria F.**, "Role of Large Thermal-hydraulic Codes in Nuclear Reactor Safety", Invited at ASTIC Advanced Course on Heat and Mass Transfer, Varna (Bg), Oct. 1-7 1985
- [43] **1985 – D'Auria F., Galassi G.M., Moschetti L.**, "Assessment of Scaling Criteria adopted in Designing Nuclear Power Plants Experimental Simulators", Symp. on Thermodynamics of Nuclear Materials, Hamilton (Canada), Aug. 13-17, 1984, J. of Nuclear Materials, Vol. 130, 1985
- [44] **1985 – D'Auria F., Vigni P.**, "Proposed Set of Criteria in Designing Nuclear Power Plants Experimental Simulators", 3rd Int. Top. Meet. on Reactor Thermal-hydraulics, (NURETH-3) Newport (Ri, US), Oct. 15-18, 1985
- [45] **1985 – Cerullo N., D'Auria F., Galassi G.M., Mazzini M., Oriolo F., Vigni P.**, "Experience in the Use of Relap4 Code for the Analysis of Transients in Pressurized Water Reactors" (in Italian), J. Energia Nucleare Vol. 2 n. 2, Sept. 1985 (**)
- [46] **1985 – D'Auria F., Mazzini M., Vigni P.**, "PIPER-ONE: a Loop to study Small Break LOAs in Boiling Water Reactors" (in Italian), J. Energia Nucleare Vol. 2 n. 2, Sept. 1985 (**)
- [47] **1985 – D'Auria F., Galassi G.M., Mazzini M.**, "Planning of the BL-21 Steam Generator Tube Rupture Test in LOBI facility", University of Pisa Report, DCMN - RL 171(85), Pisa (I), Aug. 1985, 2nd Meet. of LOBI LPTF, Munich (FRG), Sept. 19-21, 1985
- [48] **1985 – Cioni L., D'Auria F., Di Marco P., Leone A.**, "Thermo-hydraulic design of PIPER-ONE loop - reflood period-" (in Italian), University of Pisa Report, DCMN - RL 184(85), Pisa (I), Oct. 1985
- [49] **1985 – Boccaccini L., D'Auria F., Galassi G.M.**, "Post-test analysis performed at DCMN of Pisa University by RELAP4/MOD6 and RELAP5/MOD1 codes of the LOBI A2-81 test (ISP 18)", University of Pisa Report, DCMN - RL 198(85), Pisa (I), Dec. 1985, OECD CSNI Workshop on ISP 18, Varese (I), Dec. 9-11, 1985
- [50] **1985 – D'Auria F., Mazzini M.**, "Proposal of an International Standard Problem to be carried out in PIPER-ONE facility", University of Pisa Report, DCMN - NT 027(85), Pisa (I), Dec. 1985, 7th Meet. of CSNI SACTE Task Group, Paris (F), Dec. 16-18, 1985
- [51] **1985 – Di Marco P., D'Auria F., Vigni P., Mazzini M.**, "CCFL phenomena in BWR reactors and their influence on the scaling of PIPER-ONE loop" (in Italian), University of Pisa Report, DCMN - NT 028(85), Pisa (I), Dec. 1985
- [52] **1985 – Bovalini R., D'Auria F., Di Marco P., Galassi G.M., Giannecchini S., Mazzini M., Mariotti F., Piccinini L., Vigni P.**, "PIPER-ONE, a facility for the simulation of SBLOCA in BWR", Spec. Meet. on Small Break LOCA Analyses in LWR, Pisa (I), June 23-27, 1985, Giardini Editori e Stampatori in Pisa, Copyright © 1985 by University of Pisa, vol I, pp 489-506
- [53] **1985 – D'Auria F., Galassi G.M., Oriolo F., Vigni P.**, "Assessment of Scaling Principles for the Simulation of Small Break LOCA Experiments in PWRs", Spec. Meet. on Small Break LOCA Analyses in LWR, Pisa (I),

June 23-27, 1985, Giardini Editori e Stampatori in Pisa, Copyright © 1985 by University of Pisa, Vol II, pp 61-79, [J. Nuclear Engineering and Design, Vol 102, 1987](#)

- [54] **1985 – D'Auria F., Mazzini M., Vigni P. (Editors)**, "Proceedings of the International Conference – 3 Volumes", Giardini Editori e Stampatori in Pisa, Copyright © 1985 by University of Pisa, [Spec. Meet. on Small Break LOCA Analyses in LWR, Pisa \(I\), June 23-27, 1985](#)
- [55] **1985 – D'Auria F., Galassi G.M.**, "OECD CSNI ISP 18: pre-test analysis of a small break LOCA in LOBI-MOD2 facility performed at University of Pisa by RELAP4/MOD6 code", University of Pisa Report, DCMN - RL 161(85), Pisa (I), June 1985, submitted to JRC Ispra for comparison report
- [56] **1985 – Boccaccini L., D'Auria F., Galassi G.M.**, "OECD CSNI ISP 18: pre-test analysis of a small break LOCA in LOBI-MOD2 facility performed at University of Pisa by RELAP5/MOD1 code", University of Pisa Report, DCMN - RL 162(85), Pisa (I), June 1985, submitted to JRC Ispra for comparison report
- [57] **1985 – Ambrosini W., D'Auria F., Oriolo F.**, "Simulation of Conduction Heat Transfer in the Structures of a Nuclear Plant" (in Italian), 40th Conf. Italian Thermo-technic Association, Trieste (I), Sept. 11-13, 1985
- [58] **1985 – Aksan S.N., D'Auria F., Gruber P., Landry R., Naff S., Preusche G., Sandervag O., Wolfert K.**, "CSNI validation matrix for the assessment of thermal-hydraulic codes for BWR LOCA and Transients", 7th Meet. of CSNI SACTE Task Group, Paris (F), Dec. 16-18, 1985
- [59] **1985 – D'Auria F., Di Marco P., Mazzini M., Vigni P.**, "Thermal-hydraulic Design of PIPER-ONE Loop", ANS Winter Meet., San Francisco (Ca, US), Nov. 14-18 1985, [ANS Trans., Vol. 50, TANSAO 50, 1985](#)
- [60] **1986 – D'Auria F., Moschetti L., Oriolo F.**, "Thermal-hydraulics inside Core of BWRs after the Actuation of ADS", Int. Top. Meet. on Thermal Reactor Safety, San Diego (CA), Feb. 2-6, 1986
- [61] **1986 – D'Auria F., Di Marco P., Vigni P.**, "Evaluation of the Two-Phase Mixture Entropy during Blowdown", 4th Conf. of Italian Society of Heat Transport, Genova (I), June 5-7, 1986
- [62] **1986 – Cioni L., D'Auria F., Grassi W.** "Critical Analysis of Reflood Models", 4th Conf. of Italian Society of Heat Transport, Genova (I), June 5-7, 1986
- [63] **1986 – D'Auria F., Mazzini M.**, "Review of LOBI Research carried out at Ispra JRC", Meet. of the LOBI Evaluation Task Force, Ispra (I), July 4 1986, [J. Energia Nucleare, Vol. 5 N. 1, Jan. 1988, pp 82-88](#)
- [64] **1986 – D'Auria F., Di Marco P.** "Mutual Influence of Conduction and Convection Heat Transfer in Nuclear Rod Simulators", 8th Int. Heat Transfer Conference and Exhibition, San Francisco (CA), Aug. 17-22, 1986(°)
- [65] **1986 – D'Auria F., Di Marco P., Fantappiè G., Vigni P.**, "Analysis of Counter-current Flow Limitation Models" (in Italian), 41st Conf. Italian Thermo-technic Association (ATI), Napoli (I), Sept. 23-27, 1986
- [66] **1986 – D'Auria F.**, "Conceptual Design of a PWR Experimental Simulator", Invited at Int. Conf. on Safety and Advancements of Nuclear Power Plants, Varna (BG), Oct. 6-10, 1986
- [67] **1986 – D'Auria F., Galassi G. M., Oriolo F.**, "Capabilities of System Codes in Simulating Small Break LOCAs in PWRs", 2nd Int. Conf. on Simulation Methods in Nuclear Engineering, Montreal (C), Oct. 14-16, 1986
- [68] **1986 – D'Auria F., Petrini P.**, "Quantification of Uncertainties in Thermal-hydraulic Codes Calculations", 8th Meet. of CSNI Task Group on the Status and Assessment of Codes for Transients and ECCS, Paris (F), Dec. 15-17, 1986
- [69] **1986 – D'Auria F., Benigni E., Giannecchini S., Piccinini L., Vigni P., Di Marco P., Billa C., Bovalini R., Mazzini M.**, "Main characteristics of PIPER-ONE facility" (in Italian), University of Pisa Report, DCMN - RL 251(86), Pisa (I), Aug. 1986
- [70] **1986 – Billa C., D'Auria F., Di Marco P., Mazzini M., Vigni P.**, "PIPER-ONE research: facility description for OECD-CSNI International Standard Problem N. 21 (ISP 21)", University of Pisa Report, DCMN - RL 246(86), Pisa (I), Sept. 1986, OECD CSNI 1st Workshop on ISP 21, Marina di Grosseto (I), Sept. 22-23, 1986
- [71] **1986 – Cioni L., D'Auria F., Di Marco P., Galassi G.M., Mazzini M.**, "PIPER-ONE research: boundary and initial conditions for OECD-CSNI International Standard Problem 21 (ISP 21)", University of Pisa Report, DCMN - RL 247(86), Pisa (I), Sept. 1986, OECD CSNI 1st Workshop on ISP 21, Marina di Grosseto (I), Sept.

22-23, 1986

- [72] **1986 – Billa C., Bovalini R., D'Auria F., Mazzini M., Oriolo F., Piccinini L.**, "PIPER-ONE research: available instrumentation and specifications for OECD-CSNI International Standard Problem 21 (ISP 21)", University of Pisa Report, DCMN - RL 255(86), Pisa (I), Sept. 1986, OECD CSNI 1st Workshop on ISP 21, Marina di Grosseto (I), Sept. 22-23, 1986
- [73] **1986 – D'Auria F., De Toma G., Galassi G.M.**, "IAEA SPE-1: pre-test calculation of a SBLOCA in the Hungarian PMK-NVH experimental facility performed at Pisa University by RELAP4/MOD6 and RELAP5/MOD1-EUR computer codes", University of Pisa Report, DCMN - RL 245(86), Pisa (I), Oct. 1986, IAEA Workshop on SPE 1, Vienna (A), Dec. 1-3, 1986
- [74] **1986 – D'Auria F., Di Marco P., Vigni P.**, "Blowdown from a Pressure Vessel Containing Steam Water Mixtures", 3rd Conf. of Italian Society of Heat Transport, Palermo (I), June 6-8, 1985, *J. Heat and Technology*, Vol. 4, n. 1, 1986
- [75] **1987 – D'Auria F.**, "Introduction to Nuclear Reactor Thermalhydraulics", Lecture L2 at Course on Thermal-hydraulic Phenomena in Nuclear Reactor Technology - Sofia (BG), June 29 - July 3, 1987
- [76] **1987 – D'Auria F.**, "Capabilities and limits of system codes", Lecture L4 at Course on Thermal-hydraulic Phenomena in Nuclear Reactor Technology - Sofia (BG), June 29 - July 3, 1987
- [77] **1987 – Cioni L., D'Auria F., Galassi G.M.**, "Results of RELAP4/MOD6 code applications", Lectures L8, L9, L10, L13, L16 at Course on Thermal-hydraulic Phenomena in Nuclear Reactor Technology - Sofia (BG), June 29 - July 3, 1987
- [78] **1987 – D'Auria F., Galassi G.M.**, "Analysis of natural circulation test A2-77 performed in LOBI facility, by RELAP5/MOD2 code", University of Pisa Report, DCMN - RL 298(87), Pisa (I), Sept. 1987, 7th Meet. of LOBI LPTF, Ispra (I), Sept. 21-22, 1987
- [79] **1987 – D'Auria F., Galassi G.M.**, "IAEA SPE-2: RELAP5/MOD2 pre-test calculations and comparison with data measured in the Hungarian PMK-NVH experimental facility", University of Pisa Report, DCMN - RL 323(87), Pisa (I), Dec. 1987, IAEA Workshop on SPE-2, Vienna (A), Dec. 7-9, 1987
- [80] **1987 – Camiciola P., D'Auria F., Marsili P., Petrini P.**, "OECD/CSNI ISP 20: post-test calculations and sensitivity analyses by RELAP5/MOD2 performed with reference to the SGTR accident occurred at DOEL-2 NPP", University of Pisa Report, DCMN - RL 290(87), Pisa (I), Dec. 1987, OECD CSNI Workshop on ISP 20, Brussels (B), Dec. 8-10, 1987
- [81] **1987 – Aksan N., Bessette D., Brittain I., D'Auria F., Gruber P., Holmstrom H.L.O., Landry R., Naff S., Pochard R., Preusche G., Reocreux M., Sandervag O., Staedtke H., Wolfert K., Zuber N.**, "CSNI Code Validation Matrix of Thermo-Hydraulic Codes for LWR LOCA and Transients", *CSNI Report N. 132, Paris (F)*, March 1987
- [82] **1987 – D'Auria F., Galassi G.M., Oriolo F.**, "Advancements in the Assessment of System Codes used for Safety Analyses of Nuclear Power Plants", Workshop on the IAEA Programme on Computer Aided Safety Analyses, Warsaw (Pl), May 25-29 1987
- [83] **1987 – Ambrosini W., Bovalini R., D'Auria F., Petrini P.**, "Advancements in Evaluating Accuracy of Thermal-hydraulic Codes Calculations", 9th Meet. of CSNI Task Group on the Status and Assessment of Codes for Transients and ECCS, Paris (F), June 1-3 1987
- [84] **1987 – Ambrosini W., D'Auria F., Vigni P.**, "Blowdown Phenomenon: Critical Analysis of some Calculation Models for the Safety Analysis of Nuclear Power Plants", 5th Conf. of Italian Society of Heat Transport, Torino (I), June 25-27, 1987
- [85] **1987 – D'Auria F., De Sanctis N., Di Marco P., Lahey R.T., Podowski M.Z.**, "A Linear Model to Study Fluid-dynamic Instabilities in Boiling Channels due to Density Oscillations", 5th Conf. of Italian Society of Heat Transport, Torino (I), June 25-27 1987, *J. Heat and Technology*, Vol. 5 N. 3-4, 1987
- [86] **1987 – D'Auria F.**, "Experimental Facilities and System Codes in Nuclear Reactor Safety", Int. Seminar State of the Art on Safety Analyses and Licensing of Nuclear Power Plants, Varna (Bg), Nov. 2-6, 1987
- [87] **1987 – D'Auria F., Mazzini M. (Editors)**, "Proceedings", Int. Seminar State of the Art on Safety Analyses and Licensing of Nuclear Power Plants, Varna (Bg), Nov 2-6, 1987

- [88] **1988 – D'Auria F., Galassi G.M., Oriolo F.**, "Analysis of ISP 18 by Relap4/mod6, Relap5/mod1, Relap5/mod1-EUR, Relap5/Mod2 and Cathare 1 v1.3 Codes", CATHARE Int. Seminar, Grenoble (F), May 25-27, 1988
- [89] **1988 – D'Auria F., Fantappiè G., Giot M.**, "Present Capabilities of CCFL Models", 6th Conf. of Italian Society of Heat Transport, Bari (I), June 9-10, 1988
- [90] **1988 – Ambrosini W., D'Auria F., Vigni P.**, "Comparison between some Constitutive Models Adopted in CATHARE 1 v1.3 and RELAP5/MOD2 System Codes", 6th Conf. of Italian Society of Heat Transport, Bari (I), June 9-10, 1988
- [91] **1988 – Ambrosini W., D'Auria F., Grassi W., Vigni P.**, "Accuracy in the Prediction of Two-Phase Flow Regimes", Eurotherm Sem. No. 3: Modeling of Nuclear and Advanced Heat Transfer Components, Bologna (I), June 14-15, 1988
- [92] **1988 – D'Auria F., Karwat H., Mazzini M.**, "Planning of Counterpart Tests in LWR Experimental Simulators", 25th National Heat Transfer Conf., Houston (TX), July 24-27, 1988
- [93] **1988 – D'Auria F., Galassi G.M.**, "Application of RELAP5/MOD2 to Tests Performed in LOBI Facility", Int. Conf. on Thermal Reactor Safety, Avignon (F), Oct. 3-7, 1988
- [94] **1988 – D'Auria F., Maugeri P.**, "Analysis by RELAP5/MOD2 of a Loss of Feed-water Transient in the Leibstadt BWR-6 Plant", Int. Conf. on Thermal Reactor Safety, Avignon (F), Oct. 3-7, 1988
- [95] **1988 – D'Auria F., Galassi G.M.**, "Experience in the assessment of RELAP5/MOD2 code at Pisa University", University of Pisa Report, DCMN - NT 096(88), Pisa (I), Feb. 1988, ICAP Meet., Grenoble (F), March 1-4, 1988
- [96] **1988 – Fantappiè G., Ambrosini W., D'Auria F.**, "Analysis of CCFL phenomena by CATHARE 1 v1.3 and comparison with results of RELAP5/MOD2 code", University of Pisa Report, DCMN - NT 098(88), Pisa (I), March 1988, 8th CATHARE CUC Meet., Grenoble (F), March 23-25, 1988
- [97] **1988 – Bovalini R., Breghi M.P., D'Auria F., Giannini L., Mazzini M., Pintore S.**, "PIPER-ONE research: measured initial and boundary conditions for OECD CSNI International Standard Problem 21 (ISP 21)", University of Pisa Report, DCMN - RL 340(88), Pisa (I), June 1988
- [98] **1988 – D'Auria F., Galassi G.M.**, "Post-test analysis of LOBI experiment BL-21 by RELAP5/MOD2 code", University of Pisa Report, DCMN - RL 334(88), Pisa (I), Sept. 1988, 9th Meet. of LOBI LPTF, Ispra (I), Sept. 26-28, 1988
- [99] **1989 – D'Auria F., Galassi G.M.**, "Application of RELAP5/MOD2 to Tests Performed in LOBI Facility", RELAP5 User Seminar, Texas A&M University, College Station (Tx, US), Jan. 31 - Feb. 2, 1989
- [100] **1989 – Ambrosini W., Bestion D., D'Auria F., De Pasquale F., Micaelli J.-C., Tempini M.**, "Application of the CATHARE Advanced Code to Numerical Benchmark Exercises", Eurotherm Seminar No 7: Thermal Non-Equilibrium in Two-Phase Flow, Rome (I), March 23-24, 1989
- [101] **1989 – D'Auria F., Di Marco P., Soldati A.**, "A Distributed Model to Perform a Linear Analysis of Density-Wave Instabilities in a Natural Circulation Loop", 7th Conf. of Italian Society of Heat Transport, Firenze (I), June 15-17, 1989
- [102] **1989 – D'Auria F., De Pasquale F., Micaelli J.C.**, "Advancements in the Study of Reflood Phenomenology in Typical Situations of PWR Plants", 7th Conf. of Italian Society of Heat Transport, Firenze (I), June 15-17, 1989
- [103] **1989 – Ambrosini W., D'Auria F., Montagnini B., Oriolo F.**, "Analysis of Well-Posed Thermal-Hydraulic Models through Numerical Methods Based on the Characteristic Form of the Balance Equations", 7th Conf. of Italian Society of Heat Transport, Firenze (I), June 15-17, 1989
- [104] **1989 – D'Auria F., Vigni P.**, "Evaluation of Fluid-dynamic Loads on RPV Internals during Blowdown", 10th SMIRT Int. Conf., Anaheim (CA), Aug. 14-18, 1989
- [105] **1989 – D'Auria F., Fantappiè G.**, "State of the Art in CCFL Modelling", 2nd Symp. on Multiphase Flow and Heat Transfer, Xi'an (PRC), Sept. 18-21, 1989 (+)

- [106] **1989 – Bovalini R., D'Auria F., Mazzini M.**, "Similarity Study of BWR SB-LOCA Counterpart Test", 4th Int. Top. Meet. on Nuclear Reactor Thermal-hydraulics, Karlsruhe (FRG), Oct. 10-13, 1989
- [107] **1989 – D'Auria F., Galassi G.M.**, "Characterization of Instabilities during Two-Phase Natural Circulation in PWR Typical Conditions", 4th Int. Top. Meet. on Nuclear Reactor Thermal-hydraulics, Karlsruhe (FRG), Oct. 10-13 1989, **J. Experimental Thermal and Fluid Science, Vol 3, Nr 90, 1990**
- [108] **1989 – Lewis M.J. (Editor), Pochard R., D'Auria F., Karwat H., Wolfert K., Yadigaroglu G., Holmstrom H.L.O. (Lead Authors)**, "Thermo-hydraulics of Emergency Core Cooling in Light Water Reactors - A State-of-the-Art Report", **CSNI Report n. 161, Paris (F), Oct. 1989**
- [109] **1989 – Giot M., Emmerechts D., Seynhaeve J.M., Zhang J., D'Auria F., Fantappiè G., Di Marco P., Ambrosini W.**, "Analysis of Hannover Experiments on Counter-current Flow in the Fuel Element Top Nozzle Area", Seminar on the Commission Contribution to Reactor Safety Research, Varese (I), Nov. 20-24, 1989
- [110] **1989 – D'Auria F., Galassi G.M., Schindler M.**, "Assessment of RELAP5/MOD2 Code on the Basis of Experiments performed in LOBI Facility", Seminar on the Commission Contribution to Reactor Safety Research, Varese (I), Nov. 20-24, 1989
- [111] **1989 – Bernard M., D'Auria F.**, "Validation of CATHARE on the Basis of LOBI Experiments", Seminar on the Commission Contribution to Reactor Safety Research, Varese (I), Nov. 20-24, 1989
- [112] **1989 – D'Auria F., Mazzini M., Oriolo F., Paci S.**, "Comparison Report of the OECD/CSNI International Standard Problem 21 (PIPER-ONE Experiment PO-SB-7)", **CSNI Report Nr. 162, Paris (F), Nov. 1989**
- [113] **1989 – Bovalini R., D'Auria F., Giannini L., Mazzini M., Vigni P.**, "PIPER-ONE research: experimental data report of PIPER-ONE test PO-SB-7", University of Pisa Report, DCMN - RL 381(89), Pisa (I), March 1989, OECD CSNI 2nd Workshop on ISP 21, Calci (I), Apr. 13-14, 1989
- [114] **1989 – D'Auria F., Fruttuoso G.**, "OECD CSNI ISP 21, PIPER-ONE test PO-SB-7: post test analysis performed at Pisa University by RELAP5/MOD2 code", University of Pisa Report, DCMN - RL 386(89), Pisa (I), March 1989, OECD CSNI 2nd Workshop on ISP 21, Calci (I), Apr. 13-14, 1989
- [115] **1989 – Bovalini R., D'Auria F., De Varti A., Maugeri P., Mazzini M.**, "Analysis of counterpart tests performed in BWR experimental simulators", University of Pisa Report, DCMN - RL 387(89), Pisa (I), March 1989, OECD CSNI 2nd Workshop on ISP 21, Calci (I), Apr. 13-14, 1989
- [116] **1989 – Ambrosini W., Bovalini R., D'Auria F.**, "Evaluation of code accuracy in the prediction of OECD CSNI ISP 21 performed in PIPER-ONE apparatus", University of Pisa Report, DCMN - RL 389(89), Pisa (I), March 1989, OECD CSNI 2nd Workshop on ISP 21, Calci (I), Apr. 13-14, 1989
- [117] **1989 – D'Auria F., De Pasquale F., De Varti A., Fruttuoso G.**, "OECD CSNI ISP 25, Achilles test A1B105: pre-test analysis performed at Pisa University by Relap5/mod2 code and comparison with experimental data", University of Pisa Report, DCMN - NT 136(89), Pisa (I), July 1989, OECD CSNI Workshop on ISP 25, Winfrith (UK), Nov. 27-29, 1989
- [118] **1989 – D'Auria F., Karwat H.**, "OECD CSNI State-Of-the-Art-Report on thermalhydraulics of Emergency Core Cooling Systems: Review of the Operation of Experimental Facilities", **OECD-CSNI Report SINDOC (89)101, Paris (F), 1989**
- [119] **1989 – D'Auria F., Galassi G.M., Mazzini M.**, "PIPER-ONE test PO-SB-7c: post-test analysis performed by RELAP5/MOD2 code", University of Pisa Report, DCMN - RL 410(89), Pisa (I), Dec. 1989
- [120] **1989 – D'Auria F., Dini R., Maugeri P., Oriolo F.**, "Application of RELAP5/MOD2 to Design Calculations of More Passive Safety Reactors", ANS Winter Meet., Session on Thermal-Hydraulic Aspects of Passive Safety and New Generation Reactors, San Francisco (CA), Nov. 26-Dec. 1, 1989, **ANS Trans., Vol 60, TANSAO 60 1-792 (1989)**
- [121] **1989 – D'Auria F., Galassi G.M.**, "The Application of CATHARE 1 v1.3 to LOBI Small Break LOCA Experiments and a Comparison with RELAP5/MOD2 - Final Report", **CEC Report EUR 12404 EN, Luxembourg (L), 1989**
- [122] **1989 – D'Auria F., Mazzini M., Oriolo F., Galassi G.M.**, "Assessment of RELAP5/MOD2 and RELAP5/MOD1-EUR Codes on the Basis of LOBI-MOD2 Test Results", **CEC Report EUR 12403 EN,**

Luxembourg (L), 1989

- [123] **1989 – Giot M., Emmerechts D., Seynhaeve J., Zhang J., Ambrosini W., D'Auria F., Di Marco P., Fantappiè G.**, "Analysis of Experiments performed at the University of Hannover with RELAP5/MOD2 and CATHARE Codes on Fluid-dynamic Effects in the Fuel Element Top Nozzle Area during Refilling and Reflooding - Final report-", **CEC Report EUR 12407 EN, Luxembourg (L), 1989**
- [124] **1990 – D'Auria F., Galassi G. M.**, "Assessment of RELAP5/MOD2 Code on the Basis of Experiments performed in LOBI Facility", **J. Nuclear Technology, Vol 90, No 3, 1990**
- [125] **1990 – D'Auria F., Galassi G.M., Lombardi P.**, "User and Models Interactions in System Codes Predictions", 3rd Int. Conf. on Simulation Methods in Nuclear Engineering, Montreal (Canada), Apr. 18-20, 1990
- [126] **1990 – Ambrosini W., D'Auria F., Soldati A.**, "A Mechanistic Model for Counter-current Flow at the Upper Tie Plate", 8th Conf. of Italian Society of Heat Transport, Ancona (I), June 28-30, 1990
- [127] **1990 – Ambrosini W., Bovalini R., D'Auria F.**, "Evaluation of Accuracy of Thermal-hydraulic Codes Calculations", **J. Energia Nucleare, Vol. 7, No 2, May 1990**
- [128] **1990 – D'Auria F., Galassi G.M.**, "Code Assessment Methodology and Results", IAEA Technical Workshop/Committee on Computer Aided Safety Analyses – Moscow (USSR), May 14-17, 1990
- [129] **1990 – Billa C., D'Auria F., Galassi G.M.**, "Effect of Steam Generator Heat Transfer upon Core Reflood in a PWR" (in Italian), 45th Conf. Italian Thermo-technic Association (ATI), Santa Margherita di Pula (I), Sept. 18-21, 1990
- [130] **1990 – Bovalini R., D'Auria F., Di Marco P., Mazzini M., Pintore S., Vigni P.**, "Experience gained in the Operation of PIPER-ONE Apparatus", ENC '90 Joint Congress of ENS/ANS + Foratom, Lyon (F), Sept. 23-28, 1990
- [131] **1990 – D'Auria F., Vigni P. (Editors)**, "Proceedings of Conference, Eurotherm Seminar No. 16 Natural Circulation in Industrial Applications", Pisa (I), Oct. 11-12, 1990 © Copyright of University of Pisa – ETS printing Co., Pisa (I)
- [132] **1990 – Ambrosini W., D'Auria F., Galassi G.M.**, "Experience in the Assessment of Cathare Advanced Code", 1990 ASME Winter Annual Meet., Dallas (US), Nov. 25-30, 1990 - HTD Vol. 150
- [133] **1990 – D'Auria F., Galassi G.M.**, "Flowrate and Density Oscillations During Two-Phase Natural Circulation in PWR Typical Conditions", 3rd Int. Top. Meet. on Nuclear Power Plant Thermal-hydraulics and Operation, Seoul (Kr), Nov. 14-17 1988, **J. Nuclear Engineering and Design, Vol. 122, 1990**
- [134] **1990 – D'Auria F., Galassi G.M., Billa C., Debrecin N.**, "OECD CSNI ISP 26: post-test analysis of a Small Break LOCA in the LSTF Facility performed by RELAP5/MOD2 code in the frame of a cooperation with University of Zagreb and ENEA", University of Pisa Report, DCMN - NT 151(90), Pisa (I), Jan. 1990, OECD CSNI Workshop on ISP 26, Grenoble (F), June 6-8, 1990 - Int. Cooperation between Universities of Pisa and Zagreb
- [135] **1990 – Billa C., D'Auria F., Galassi G.M.**, "OECD CSNI ISP 22: post-test analysis of the Loss of Feedwater SPES experiment SP-FW-02 performed by RELAP5/MOD2 code at DCMN of University of Pisa", University of Pisa Report, DCMN - NT 156(90), Pisa (I), March 1990, OECD CSNI Workshop on ISP 22, Rome (I), March 22-23, 1990
- [136] **1990 – D'Auria F., Galassi G.M.**, "Outline of User effect on Codes Predictions", University of Pisa Report, DCMN - NT 158(90), Pisa (I), June 1990, 7th Meet. of CSNI THSB Task Group, Paris (F), June 26-28, 1990
- [137] **1990 – D'Auria F., Galassi G.M., Sorrente C.**, "IAEA SPE-3: RELAP5/MOD2 pre-test calculation and comparison with data measured in the PMK-NVH facility", University of Pisa Report, DCMN - NT 162(90), Pisa (I), Aug. 1990, IAEA Workshop on SPE-3, Vienna (A), Aug. 6-8, 1990
- [138] **1990 – D'Auria F., Oriolo F.**, "Thermal-hydraulic Analysis of intrinsically safe reactors - Final Report" (in Italian), University of Pisa Report, DCMN - RL 460(90), Pisa (I), Aug. 1990
- [139] **1990 – D'Auria F., Fruttuoso G., Lombardi P., Oriolo F.**, "Post-test analysis of International Standard Problem 25 by Relap5/mod3 code" (in Italian), University of Pisa Report, DCMN - RL 480(90), Pisa (I), Dec. 1990

- [140] **1990 – Giot M., Emmerechts D., Seynhaeve J-M., Zhang J. D'Auria F., Fantappie' G., Di Marco P., Ambrosini W.**, "Analysis of Hannover experiments on counter-current flow in the fuel element top nozzle area", in Reactor Safety Research: the CEC contribution - ISBN:1851665153, pp.207-221
- [141] **1991 – D'Auria F., Galassi G.M., Vigni P., Calastri A.**, "Scaling of Natural Circulation in PWR Systems", Eurotherm Sem. No. 16: Natural Circulation in Industrial Applications, Pisa (I), Oct. 11-12 1990, [J. Nuclear Engineering and Design, vol 132 No. 2, 1991, pages 187-206](#)
- [142] **1991 – D'Auria F., Debrecin N., Galassi G.M., Lombardi P.**, "Qualification process of Bethsy nodalization for Relap5/mod2 Code (Steady-State Level)", University of Pisa Report, DCMN - NT 169(91), Pisa (I), March 1991
- [143] **1991 – Bonuccelli M., D'Auria F., Galassi G.M.**, "Qualification process of Lobi/mod2 nodalization for Relap5/mod2 code (Steady State Level)", University of Pisa Report, DCMN - NT 170(91), Pisa (I), March 1991
- [144] **1991 – Bovalini R., D'Auria F., Mazzini M., Pintore S., Vigni P.**, "Piper-one Research: overview of the experiments carried out and lesson learned", European Two-Phase Flow Group Meeting - Roma (I), May 27-29, 1991
- [145] **1991 – D'Auria F.**, "Station Blackout Scenarios at Krsko nuclear power plant" (End-of-Mission Report), University of Pisa Report, DCMN - NT 174(91), Pisa (I), June 1991
- [146] **1991 – Ambrosini W., Breghi M.P., D'Auria F.**, "Evaluation of Code accuracy in the prediction of OECD/CSNI ISP 22", University of Pisa Report, DCMN - NT 176(91), Pisa (I), July 1991, OECD CSNI Final Workshop on ISP 22 - Pisa (I) July 2-4 1991
- [147] **1991 – Bonuccelli M., D'Auria F., Galassi G.M., Lombardi P.**, "Post-test Analysis of Spes test SP-FW-02 (ISP 22) with Relap5/mod2 Code", University of Pisa Report, DCMN - NT 175(91), Pisa (I), July 1991, OECD CSNI Final Workshop on ISP 22 - Pisa (I) July 2-4 1991
- [148] **1991 – Bonuccelli M., D'Auria F., Galassi G.M.**, "On Transient qualification of LOBI/MOD2, SPES, LSTF and BETHSY nodalizations for RELAP5/MOD2 code", University of Pisa Report, DCMN - NT 178(91), Pisa (I), Sept. 1991
- [149] **1991 – D'Auria F., Galassi G.M.**, "Planning of the SPES experiment SP-SB-04 high power counterpart to SP-SB-03", University of Pisa Report, DCMN - NT 182(91), Pisa (I), Oct. 1991
- [150] **1991 – Bajs T., Bonuccelli M., D'Auria F., Debrecin N., Galassi G.M.**, "On Transient qualification of Lobi/mod2, Spes, Lstf, Bethsy and Krsko Plant nodalizations for Relap5/Mod2 code", University of Pisa Report, DCMN - NT 185(91), Pisa (I), Dec. 1991
- [151] **1991 – Lorenzini E., Spiga M., Iadarola G., D'Auria F.**, "Density Wave Instabilities in Steam Generators", [J. Annals of Nuclear Energy, vol 18, Nr. 1, 1991](#)
- [152] **1991 – D'Auria F., Calastri A., Galassi G.M.**, "Scaling Capabilities of Thermal-hydraulic System Codes", ASME/JSM Int. Conf. on Nuclear Engineering (ICON-E-1) - Tokyo (J), Nov. 4-7 1991
- [153] **1991 – Debrecin N., Grgic D., Bajs T., Spalj S., Cavlina N., D'Auria F.**, "A verification or Relap5/mod2 Code using OECD CSNI ISP 26 Standard Problem Calculation (in Croatian)", XXXV ETAN Yugoslavian Konferencija - Ohrid (Yu), June 3-7, 1991
- [154] **1991 – Ambrosini W., D'Auria F., Galassi G.M.**, "Application of the Cathare-2 Code to Integral and Separate Effect Tests", Cathare and Bethsy 4th International Seminar, Grenoble (F), March 18-20, 1991
- [155] **1991 – Bovalini R., D'Auria F.**, "Scaling of accuracy of Relap5 Code (initial results)", 6th ICAP Spec. Meeting - Stockholm (S), May 14-16 1991, [J. Ingegneria Nucleare, Anno 33, Nr. 2, March-April 1991 \[ANCE E198152\]](#)
- [156] **1991 – Bovalini R., D'Auria F., Mazzini M., Pintore S., Vigni P.**, "PIPER-ONE Research: Overview of the Experiments carried out", 9th Conf. of Italian Society of Heat Transport, Pisa (I), June 13-14, 1991
- [157] **1991 – Bovalini R., D'Auria F., Mazzini M., Pintore S., Vigni P.**, "PIPER-ONE Research: Lesson learned", 9th Conf. of Italian Society of Heat Transport, Pisa (I), June 13-14, 1991

- [158] **1991 – Billa C., D'Auria F., Debrecin N., Galassi G.M.**, "Application of Relap5/mod2 to PWR International Standard Problems", ANS Winter Meeting, San Francisco (Ca), Nov. 10-15, 1991
- [159] **1991 – Bovalini R., D'Auria F., Mazzini M.**, "Experiments of Core Coolability by a Gravity Driven System performed in PIPER-ONE Apparatus", ANS Winter Meeting, San Francisco (Ca), Nov. 10-15, 1991
- [160] **1991 – Billa C., D'Auria F., Gesi E.**, "Survey of activities for assessing thermal-hydraulic aspects of new reactors", IAEA Technical Committee Meet. (TCM) on Progress in Development and Design Aspects of Advanced Water Cooled Reactors, Rome (I), Sept. 9-12, 1991
- [161] **1991 – Andreuccetti P., Barbucci P., Donatini F., D'Auria F., Galassi G.M., Oriolo F.**, "Capabilities of the RELAP5 in simulating SBWR and AP-600 Thermal-hydraulic Behaviour", IAEA Technical Committee Meet. (TCM) on Progress in Development and Design Aspects of Advanced Water Cooled Reactors, Rome (I), Sept. 9-12, 1991
- [162] **1992 – D'Auria F., Galassi G. M.**, "OECD-CSNI ISP 27: outline of the comparison between blind prediction and experimental data", University of Pisa Report, DCMN - NT 188(92), Pisa (I), Jan. 1992, OECD-CSNI Final Meeting on ISP 27 - Grenoble (F), Jan. 14-15, 1992
- [163] **1992 – D'Auria F., Galassi G.M.**, "Relevant results obtained from the analysis of LOBI/MOD2 natural circulation experiment A2-77A", [USNRC NUREG/IA-0084, Washington \(US\), April 1992](#)
- [164] **1992 – Ambrosini W., Breghi M. P., D'Auria F. Galassi G.M.**, "Evaluation of post-test Analyses of OECD-CSNI Standard Problem 22", University of Pisa Report, DCMN - NT 184(91), Pisa (I), Oct. 1991, [OECD-CSNI Report NEA/CSNI R\(92\) 7, Paris \(F\), July 1992](#)
- [165] **1992 – Bovalini R., D'Auria F., De Varti A., Maugeri P., Mazzini M.**, "Analysis of Counterpart Tests performed in BWR Experimental Simulators", XV Annual Meet. of Spanish Nuclear Society, Alicante (E), Oct. 23-25 1989, [J. Nuclear Technology, Vol 97 Nr. 1, 1992](#)
- [166] **1992 – D'Auria F., Ferri R., Galassi G.M., Sugaroni F.**, "Evaluation of the data base from the small break LOCA Counterpart tests performed in LOBI, SPES, BETHSY and LSTF Facilities", University of Pisa Report, DCMN - NT 193(92), Pisa (I), June 1992
- [167] **1992 – D'Auria F., Galassi G.M.**, "Post-test analysis performed by RELAP5/MOD2 code of the SPES small break test SP-SB-03 counterpart to LSTF, BETHSY and LOBI-MOD2 Experiments", University of Pisa Report, DCMN - NT 195(92), Pisa (I), July 1992
- [168] **1992 – Bajs T., D'Auria F., Debrecin N.**, "Post test analysis performed by RELAP5/MOD2 code of the BETHSY small break test 6.2.TC counterpart to LSTF, SPES and LOBI-MOD2 Experiments", University of Pisa Report, DCMN - NT 196(92), Pisa (I), July 1992 – Int. Cooperation between Universities of Pisa and Zagreb
- [169] **1992 – Ambrosini W., Belsito S., D'Auria F.**, "Present capabilities of advanced thermal-hydraulic codes in the prediction of reflood phenomena", University of Pisa Report, Pisa (I) Feb. 1992
- [170] **1992 – Bovalini R., D'Auria F., Leonardi M.**, "Qualification of the Fast Fourier Transform based methodology for the quantification of thermal-hydraulic system codes accuracy", University of Pisa Report, DCMN - NT 194(92), Pisa (I), July 1992
- [171] **1992 – D'Auria F., Galassi G. M., Pellicoro V.**, "Post-test analysis performed by RELAP5/MOD2 code of the LOBI/MOD2 small break test BL-34 counterpart to LSTF, SPES and BETHSY Experiments", University of Pisa Report, DCMN - NT 198(92), Pisa (I), Oct. 1992
- [172] **1992 – Bovalini R., D'Auria F., Galassi G.M., Mazzini M.**, "PIPER-ONE Research: the experiment PO-SD-8 related to the evaluation of the Isolation Condenser performance. Post-test analysis carried out by RELAP5/MOD3-/7j Code", University of Pisa Report, DCMN - NT 200(92), Pisa (I), Nov. 1992
- [173] **1992 – D'Auria F., Ferri R., Galassi G.M.**, "Post-test analysis with RELAP5/MOD2 code of the LSTF small break test SB-CL-21 counterpart to BETHSY, SPES and LOBI-MOD2 Experiments", University of Pisa Report, DCMN - NT 199(92), Pisa (I), Nov. 1992
- [174] **1992 – Billa C., D'Auria F., Galassi G.M.**, "Accident Management in Case of Loss of Feedwater in PWRs", 1991 ANS Annual Meeting - Orlando (Fl), June 2-6 1991, [J. Nuclear Technology, vol 98, June 1992](#)

- [175] **1992 – D'Auria F., Galassi G.M., Pellicoro V.**, "Blind post-test analysis performed by RELAP5/MOD2 code of the LOBI-MOD2 small break test BL-44 high power counterpart to LOBI BL-34 experiment", University of Pisa Report, DCMN - NT 201(92), Pisa (I), Dec. 1992
- [176] **1992 – D'Auria F., Marsili P., Mazzini M., Petrangeli G.**, "Benefits of LOBI Research in Italy", EC-Euratom LOBI Int. Seminar - Arona (I), March 31 - Apr. 2, 1992
- [177] **1992 – Ambrosini W. D'Auria F., Galassi G.M.**, "Lesson Learned from the Application to LOBI tests of CATHARE and RELAP5 Codes", EC-Euratom LOBI Int. Seminar - Arona (I), March 31 - Apr. 2 1992, 1st Meet. of Nuclear Society of Slovenia, Bovec (Slo), June 11-12 1992
- [178] **1992 – D'Auria F., Galassi G.M.**, "Use of LOBI data for scaling of thermal-hydraulic phenomena", EC-Euratom LOBI Int. Seminar - Arona (I), March 31 - Apr. 2, 1992
- [179] **1992 – D'Auria F., Galassi G. M., Annunziato A., Addabbo C.**, "Comparative Analysis of Accident Management Procedures in LOBI and SPES Facilities", 5th Int. Top. Meet. on Nuclear Reactor Thermal-hydraulics, Salt Lake City (USA), Sept. 20-24 1992
- [180] **1992 – Petrangeli G. (Lead Author), D'Auria F., Mazzini M., Proto G. (Contributors)**, "Comments on 'Quantifying Reactor Safety Margins'", [J. Nuclear Engineering & Design, Vol 132, No 3, 1992](#)
- [181] **1992 – Aksan S.N., D'Auria F.**, "Investigation of the User effects for the Thermal-hydraulic Transient System Codes: case studies", 5th Int. Top. Meet. on Nuclear Reactor Thermal-hydraulics, Salt Lake City (USA), Sept. 20-24 1992
- [182] **1992 – D'Auria F., Galassi G. M., Bajs T., Cavlina N., Debrecin N.**, "Scaling of the Accident Management Procedures during a Loss of Feedwater", 3rd Int. Symp. on Power Plant Transients - ASME Winter Annual Meet. Anaheim (CA), Nov. 8-13, 1992
- [183] **1992 – Billa C., D'Auria F., Dominici G., Galassi G. M.**, "Accident Management in Case of SBLOCA in PWR based upon primary and secondary sides depressurization", 3rd Int. Symp. on Power Plant Transients - ASME Winter Annual Meet. Anaheim (CA), Nov. 8-13, 1992
- [184] **1992 – Bovalini R., Breghi M. P., D'Auria F., Ianiri R., Mazzini M.**, "Thermal-hydraulics of BWRs in case of Large Break LOCAs with multiple failures", 10th Conf. of Italian Society of Heat Transport, Genova (I), June 25-27, 1992
- [185] **1992 – Bovalini R., D'Auria F., Mazzini M., Vigni P.**, "Isolation Condenser performances in PIPER-ONE Apparatus", European Two-Phase Flow Group Meet., Stockholm (S), June 1-3, 1992
- [186] **1992 – D'Auria F., Galassi G.M., Oriolo F.**, "Thermal-hydraulic phenomena and code requirements for future reactors safety analysis", Int. Conf. on Design and Safety of Advanced Nuclear Power Plants (ANP) - Tokyo (J), Oct. 25-29, 1992
- [187] **1992 – Hicken E. F., Brand B., Deruaz R., D'Auria F., Piplies L., Kervinen T., Holmstrom H.L.O.**, "The Thermal-hydraulic test Facilities in Elektrogorsk/Russia and Zugres/Ukraine - An assessment by a NEA/CSNI Experts Group", [OECD-CSNI Report, Paris \(F\), Nov. 1992](#)
- [188] **1992 – Bonuccelli M., D'Auria F., Debrecin N., Galassi G.M.**, "A methodology for the qualification of thermal-hydraulic codes Nodalizations", 8th Meet. of OECD/NEA/CSNI Task Group on Thermal-hydraulic System Behaviour - Paris (F), June 30 - July 2, 1992
- [189] **1993 – D'Auria F.**, "Scaling and counterpart tests", (extended abstract), [Proc. of CSNI Spec. Meet. On Transient Two-Phase Flow - System Thermal-hydraulics, \[Eds. M.C. Rubistein, M. Reocreux\], Aix-En-Provence \(F\), Apr. 6-8, 1992, NEA/CSNI, R\(92\) 12, ISBN-2-7272-0157-5, \(invited\)](#)
- [190] **1993 – Bovalini R., D'Auria F., Galassi G.M.**, "Scaling of complex phenomena in System Thermal-hydraulics", Int. Workshop on Boiling Heat Transfer and Two-Phase Flow - Bariloche (Ar), Oct. 5-9 1992, [J. Nuclear Science and Engineering, Vol 115, Oct. 1993, pages 89-111](#)
- [191] **1993 – Aksan S. N., D'Auria F., Staedtke H.**, "User Effects on the Thermal-hydraulic Transient System Codes Calculations" (invited paper), CSNI Spec. Meet. on Transient Two-Phase Flow - System Thermal-hydraulics, Aix-En-Provence (F), Apr. 6-8, 1992, [J. Nuclear Engineering and Design, Vol 145, Nos. 1&2, 1993, pages 159-174](#)

- [192] **1993 – D'Auria F., Debrecin N., Galassi G.M., Galeazzi S.**, "Application of RELAP5/MOD3 to the Evaluation of Loss of Feed-water in test Facilities and in Nuclear Plants", 1st Code Assessment and Maintenance Program (CAMP) Meet., Villingen (CH), June 24-26, 1992, **J. Nuclear Engineering & Design**, Vol 141, Nr 3, 1993, pages 409-428
- [193] **1993 – Bonuccelli M., D'Auria F., Debrecin N., Galassi G.M.**, "Methodology for the qualification of thermal-hydraulic codes Nodalizations", 6th Int.Top. Meet. on Nuclear Reactor Thermal-hydraulics (NURETH-6), Grenoble (F), Oct. 5-8, 1993
- [194] **1993 – Petrangeli G., Tononi R., D'Auria F., Mazzini M.**, "The SSN: An Emergency System Based on Intentional Depressurization for PWRs", CSNI Spec. Meet. on Intentional Coolant System Depressurization, Garching (FRG), June 12-14 1989, **J. Nuclear Engineering and Design**, Vol 143 No. 1, 1993
- [195] **1993 - Belsito S., D'Auria F., Galassi G.M.**, "Evaluation of the data base from computer codes calculations of small break LOCA counterpart tests performed in LOBI, SPES, BETHSY and LSTF facilities", University of Pisa Report, DCMN - NT 205(93), Pisa (I), May 1993
- [196] **1993 – Aksan S.N., D'Auria, F., Glaeser H., Pochard R., Richards C., Sjoberg A.**, "Separate Effects Test Matrix for Thermal-hydraulic Code Validation: Facility and Experiment Characteristics, Vol II", **OECD-CSNI Report OCDE/GD(94)83**, Paris (F), Sept. 1993
- [197] **1993 – Bovalini R., D'Auria F.**, "Scaling of the accuracy of Relap5/mod2 Code", 6th ICAP Spec. Meeting - Stockholm (S), May 14-16 1991, **J. Nuclear Engineering & Design**, vol 139 Nr. 2 1993, pages 187-204 (**)
- [198] **1993 – Bajs T., D'Auria F., Debrecin N., Ferri R., Galassi G.M.**, "Analysis of the RELAP5/MOD2 code calculations of KRSKO "LSTF Kv-scaled" and "Nominal" conditions small break LOCA in cold leg", University of Pisa Report, DCMN - NT 206(93), Pisa (I), Feb. 1993 – Int. Coop. Between Universities of Pisa and Zagreb
- [199] **1993 – D'Auria F., Modro M., Oriolo F., Tasaka K.**, "Relevant Thermalhydraulic Aspects of New Generation LWR's", CSNI Spec. Meet. On Transient Two-Phase Flow - System Thermal-hydraulics, Aix-En-Provence (F), Apr. 6-8, 1992 (invited paper), **J. Nuclear Engineering & Design**, Vol 145, Nos 1&2, 1993
- [200] **1993 – Ambrosini W., Belsito S., D'Auria F., Frogheri M.**, "OECD/CSNI ISP 33: Post-test analysis of the PACTEL natural circulation experiment performed by CATHARE 2 v1.3E Code", University of Pisa Report, DCMN - NT 208(93), Pisa (I), May 1993, OECD CSNI Final Workshop on ISP 33 - Lappeenranta (SF), May 17-20, 1993
- [201] **1993 – Bajs T., Debrecin N., D'Auria F., Galassi G. M.**, "Uncertainty evaluation for RELAP5/MOD2 code calculations of the NPP KRSKO small break LOCA scenario", University of Pisa Report, DCMN - NT 209(93), Pisa (I), June 1993 - Int. Coop. Between Universities of Pisa and Zagreb
- [202] **1993 – Ambrosini W., D'Auria F., Galassi G.M., Mazzini M., Virdis M.**, "Preliminary planning of BIP tests to be performed in PIPER-ONE apparatus", University of Pisa Report, DCMN - NT 207(93), Pisa (I), May 1993
- [203] **1993 – D'Auria F., Leonardi M.**, "Quantitative accuracy evaluation of small break LOCA Counterpart Tests performed in LOBI, SPES, BETHSY and LSTF Facilities", University of Pisa Report, DCMN - NT 213(93), Pisa (I), Sept. 1993
- [204] **1993 – Faluomi V., D'Auria F., Leonardi M., Aksan S.N.**, "Extrapolation of experimental and calculated CHF data", University of Pisa Report, DCMN - NT 218(93), Pisa (I), Oct. 1993 - Int. Coop. Between University of Pisa and PSI (Paul Scherrer Institute) in Switzerland
- [205] **1993 – Ambrosini W., Belsito S., D'Auria F., Galassi G.M., Bajs T., Debrecin N.**, "IAEA SPE-4: Pre-test calculations jointly performed by the University of Pisa and the University of Zagreb", University of Pisa Report, DCMN - NT 219(93), Pisa (I), Oct. 1993 – Int. Coop. Between Universities of Pisa and Zagreb
- [206] **1993 – D'Auria F., Galassi G.M., Sugaroni F.**, "Post-test analysis performed by Relap5/mod2 code of the SPES small Break LOCA test SP-SB-04 high power counterpart to SPES SP-SB-03 experiment", University of Pisa Report, DCMN - NT 221(93), Pisa (I), Dec. 1993
- [207] **1993 – D'Auria F., Vigni P., Marsili P.**, "Application of Relap5/mod3 to the evaluation of Isolation Condenser performance", ASME-JSME Int. Conf. on Nuclear Engineering (ICON-2) - San Francisco (US),

March 21-24, 1993

- [208] **1993 – D'Auria F., Debrecin N., Galassi G.M.**, "Application of RELAP5/MOD2 system code to small break LOCA counterpart experiments in PWR simulators", IX Brazilian Meet. on Reactor Physics and Thermal-hydraulics, Caxambu, Minas Gerais (BRA), Oct. 25-29 1993, 1st Symposium of Croatian Nuclear Society, Zagreb (HR), Nov. 22-23 1993
- [209] **1993 – Bovalini R., D'Auria F., Galassi G.M.**, "Application of RELAP5/MOD2 and RELAP5/MOD3 codes to Isolation Condenser related experiments", Regional Meet. Nuclear Energy in Central Europe: Present and Perspectives, Portoroz (SLO), June 13-16 1993, RELAP5 International Users Seminar - Boston (US), July 6-9, 1993
- [210] **1993 – Bovalini R., D'Auria F., Mazzini M., Virdis M.**, "Experimental Analysis of density waves instability in PIPER-ONE apparatus", 11th Conf. of Italian Society of Heat Transport, Milan (I), June 24-26 1993
- [211] **1993 – D'Auria F., Ferri R., Vigni P.**, "Evaluation of the database from the Small Break LOCA counterpart tests performed in PWR experimental simulators", 11th Conf. of Italian Society of Heat Transport, Milan (I), June 24-26 1993
- [212] **1993 – Leonardi M., D'Auria F., Pochard R.**, "Quantitative code accuracy evaluation of ISP 27 based on a BETHSY Experiment", 2nd Code Assessment and Maintenance Program (CAMP) Meet., Brussels (B), May 10-13 1993, *J. Ingegneria Nucleare, Anno 35, No 6, Nov-Dec. 1993*
- [213] **1993 – Ambrosini W., D'Auria F., Galassi G.M., Mazzini M.**, "The research program on the Instability of Boiling Channels to be carried out by the PIPER-ONE apparatus", 1993 European Two-Phase Flow Group Meet., Hannover (G), June 7-10 1993, *J. Energia Nucleare, Anno 10, No 3, 1993*
- [214] **1993 – Aksan S.N., D'Auria F., Glaeser H., Pochard R., Richards C., Sjoberg A.**, "Separate Effects Test Matrix for Thermal-hydraulic Code Validation: Phenomena Characterisation and Selection of Facilities and Tests - Vol. I", *OECD-CSNI Report OCDE/GD(94)82, Paris (F), Sept. 1993*
- [215] **1993 – D'Auria F., Debrecin N., Galassi G. M., Belsito S.**, "Methodology to evaluate Uncertainty in Thermal-hydraulic Code Calculations", Int. Symp. on Nuclear Energy (SIEN '93) - Bucharest (Ro) Dec. 3-4 1993, PSAM-II Conf. - San Diego (Ca, US), March 20-25 1994
- [216] **1993 – D'Auria F., Reocreux M.**, "Foreword to the NED Journal Special Issue devoted to the 4th Specialists Meeting on Transient Two-Phase Flows", *J. Nuclear Engineering & Design, Vol 145, Nrs 1&2, 1993*
- [217] **1994 – D'Auria F., Leonardi M., Pochard R.**, "Methodology for the Evaluation of Thermal-hydraulic Codes Accuracy", Int. Conf. on New Trends in Nuclear System Thermo-hydraulics - Pisa (I), May 30 - June 2, 1994
- [218] **1994 – D'Auria F., Aksan S.N., Glaeser H., Lillington J., Pochard R., Richards C., Sjoberg A.**, "Thermal-hydraulic Phenomena in the CSNI Separate Effect Validation Matrix", Int. Conf. on New Trends in Nuclear System Thermo-hydraulics - Pisa (I), May 30 - June 2, 1994
- [219] **1994 – D'Auria F., Oriolo F., Bella L., Cavicchia V.**, "AP-600 Thermal-hydraulic Phenomenology: A Relap5/mod2 Model Simulation – preliminary application", Int. Conf. on New Trends in Nuclear System Thermo-hydraulics - Pisa (I), May 30 - June 2, 1994
- [220] **1994 – D'Auria F., Fruttuoso G., Oriolo F., Bella L., Cavicchia V., Di Gasbarro F.** "AP-600 Thermal-hydraulic Performance: A Relap5/mod2 Model Simulation", Int. Top. Meeting on Advanced Reactor Safety (ARS) - Pittsburgh (PA) April 17-21, 1994, ISBN 978-0-89448-193-2, pp. 498-505
- [221] **1994 – Pochard R., Richards C., Aksan S.N., D'Auria F., Glaeser H., Sjoberg A.**, "Evaluation of the Separate Effect Tests (SET) Matrix Data Base for Validation of Thermal-hydraulics Codes", Int. Conf. on New Trends in Nuclear System Thermo-hydraulics - Pisa (I), May 30 - June 2, 1994
- [222] **1994 – Billa C., Bovalini R., D'Auria F., Mazzini M.**, "Evaluation of a Thermal-hydraulic Instability Experiment performed in Piper-One Apparatus", Int. Conf. on New Trends in Nuclear System Thermo-hydraulics - Pisa (I), May 30 - June 2, 1994
- [223] **1994 – Belsito S., D'Auria F.**, "CATHARE code capabilities in predicting condensation processes relevant to new generation reactors" (restricted), University of Pisa Report, DCMN - NT 231(94), Pisa (I), May 1994
- [224] **1994 – D'Auria F., Frogheri M., Galassi G.M., Zhao H.**, "Post-test analysis of the LOBI-Mod2 small break

test BL-06 by Relap5/Mod2 Code", University of Pisa Report, DCMN - NT 238(94), Pisa (I), Sept. 1994, 3rd Meet. of LOBI Data User's Club - Budapest (H) Oct. 5-6 1994 - Int. Coop. Between University of Pisa and NPIC (China)

- [225] **1994 – D'Auria F., Galassi G.M., Ingegneri M.**, "Evaluation of the data base from high power and low power small break LOCA counterpart tests performed in LOBI, SPES, BETHSY and LSTF facilities", University of Pisa Report, DCMN - NT 237(94), Pisa (I), Nov. 1994
- [226] **1994 – D'Auria F., Galassi G.M., Madeira A.**, "Post-test analysis of the LOBI-Mod2 small break test BL-12 by Relap5/mod2 Code", University of Pisa Report, DCMN - NT 244(94), Pisa (I), Nov. 1994 – Int. Cooperation between Univ. of Pisa and CNEN- Rio-de-Janeiro (Brazil)
- [227] **1994 – Congiu C., D'Auria F., Galassi G.M.**, "Post-test analysis of the LOBI-Mod2 small break test A1-82 by Relap5/mod2 Code", University of Pisa Report, DCMN - NT 247(94), Pisa (I), Dec. 1994
- [228] **1994 – Belsito S., D'Auria F., Galassi G. M.**, "Application of a Statistical model to the evaluation of Counterpart Test data base", [J. Kerntechnik, Vol 59 No. 3, 1994, pages 109-118](#)
- [229] **1994 – Aksan S.N., D'Auria F., Glaeser H., Pochard R., Richards C., Sjoberg A.**, "CSNI Separate Effect Tests Validation Matrix: General Description and Methodology", Int. Conf. on New Trends in Nuclear System Thermo-hydraulics - Pisa (I), May 30 - June 2 1994
- [230] **1994 – Belsito S., D'Auria F., Bestion D.**, "Condensation Heat Transfer Modelling", 1st ISHMT-ASME Heat and Mass Transfer Conf., Bombay (In), Jan. 5-7 1994
- [231] **1994 – D'Auria F., Frogheri M., Leonardi M.**, "Natural Circulation Performance in Western Type and Eastern Type PWR", XI Annual Simulator Conference - San Diego (Ca, US), April 10-14, 1994
- [232] **1994 – Barsotti S., Belsito S., D'Auria F., Frogheri M.**, "Capabilities of System Codes in simulating Condensation", 10th Int. Heat Transfer Conference - Brighton (UK), Aug. 14-18, 1994
- [233] **1994 - Leonardi M., D'Auria F., Pochard R.**, "The FFT based Method Utilization in the frame of the UMAE", OECD-CSNI Special Workshop on Uncertainty Analysis Methods, London (UK), March 1-3, 1994
- [234] **1994 – D'Auria F., Galassi G. M., Sugaroni F.**, "Statistical Evaluation of a Thermal-hydraulic Data Base", 12th Conf. of Italian Society of Heat Transport, L'Aquila (I), June 23-24, 1994
- [235] **1994 – Ambrosini W., D'Auria F., Galassi G. M.**, "Boundary Conditions and Uncertainty Evaluations in System Thermal-hydraulics", 12th Conf. of Italian Society of Heat Transport, L'Aquila (I), June 23-24, 1994
- [236] **1994 – Bajs T., D'Auria F., Debrecin N.**, "Relap5/mod2 Analysis of LSTF SB-CL-21 Counterpart Experiment Scenario applied to NPP Krsko", Int. Conf. on Thermal Reactor Safety Assessment - Manchester (UK), May 23-26, 1994
- [237] **1994 - Barsotti S., Belsito S., Bestion D., D'Auria F.**, "Qualification of a Condensation Model in Presence of Incondensable Gas in CATHARE Code", ICHMT 1994, Int. Symp. on Heat and Mass Transfer in Chemical Process Industry Accidents - Roma (I) Sept. 15-16, 1994
- [238] **1994 – Ambrosini W., Belsito S., D'Auria F., Galassi G.M., Bajs T., Bencik V., Debrecin N.**, "IAEA SPE-4: Post-test calculations jointly performed by the University of Pisa and the University of Zagreb", University of Pisa Report, DCMN - NT 230(94), Pisa (I), May 1994, IAEA Workshop on SPE-4 - Budapest (H) May 18-19, 1994 - Int. Coop. Between Universities of Pisa and Zagreb
- [239] **1994 – Faluomi V., D'Auria F., Aksan S.N.**, "A Comparison and Assessment of some Critical Heat Flux Prediction Models used in Thermal-hydraulic System Codes", 49th Conf. Italian Thermo-technic Association (ATI), Perugia (I), Sept. 26-30, 1994
- [240] **1995 – Aksan S. N., D'Auria F., Staedtke H.**, "User Effects on the Thermalhydraulic Transient System Codes Calculations", [OECD 'Status' Report NEA/CSNI R\(94\)35, Paris \(F\) Jan. 1995 \(**\)](#)
- [241] **1995 – D'Auria F., Galassi G.M.**, "Uncertainties and Safety Margins in Nuclear Power Plants", ASME-JSME Int. Conf. on Nuclear Engineering (ICON-3) - Kyoto (J) Apr. 23-27, 1995
- [242] **1995 – Frogheri M., D'Auria F., Leonardi M., Prosek A., Mavko B., Parzer I.**, "Application of the FFT Method to an IAEA SPE-4 Experiment Simulation", Jahrestagung Kerntechnik Annual Meet., Nurnberg (G),

May 16-18, 1995

- [243] **1995 – D'Auria F., Galassi G. M., Giannotti W.**, "Bypass of a System Code Limitation", ASME-JSME Fluid Engineering and Laser Anemometry Conf., Hilton Head (SC, USA), Aug. 13-18, 1995
- [244] **1995 – D'Auria F., Galassi G. M., Galeazzi S., Giannotti W.**, "Study of Top-Down Reflood with different Relap5 Code Versions", 4th Code Assessment and Maintenance Programme (CAMP), Ljubljana (Slo), May 16-19, 1994, *J. Ingegneria Nucleare, Anno 37, Nos. 1-4, June-Aug. 1995 (ANCE E198152)*
- [245] **1995 – Frogheri M., Prosek A., D'Auria F., Leonardi M., Mavko B., Parzer I.**, "Application of the FFT Method to the IAEA SPE-2 and SPE-4", *Int. Coop. between University of Pisa and IJS, Institut Josef Stefan Report, IJS-DP-7101 rev. 1, Jan. 1995, Ljubljana (Slo)*
- [246] **1995 – Svanholm K., Breghi M.P., D'Auria F., Ianiri R.**, "Halden Reactor IFA-511.2 and IFA-54X: Experimental Series under Adverse Core Cooling Conditions", Int. Conf. on New Trends in Nuclear System Thermo-hydraulics - Pisa (I), May 30 - June 2, 1994, *J. Experimental Thermal and Fluid Science, Vol 11, No. 1 July 1995, pages 80-100*
- [247] **1995 – D'Auria F., Debrecin N., Galassi G. M.**, "Outline of the Uncertainty Methodology based on Accuracy Extrapolation (UMAE)", OECD-CSNI Special Workshop on Uncertainty Analysis Methods, London (UK), March 1-3, 1994, *J. Nuclear Technology - Vol 109, No 1, 1995, pages 21-38*
- [248] **1995 – Ambrosini W., D'Auria F., Galassi G.M.**, "Notes to the results obtained by DCMN of Pisa University in the participation to the NEA-OECD BWR Benchmark", University of Pisa Report, DCMN - NT 246(94), Pisa (I), Dec. 1994, OECD-NEA Workshop on BWR Benchmark, Paris (F) May 10-12, 1995
- [249] **1995 – Barbucci P., Bella L., D'Auria F., Oriolo F.**, "SBWR thermal-hydraulic performance: a RELAP5/MOD2 model simulation", 6th Int. Top. Meet. on Nuclear Reactor Thermal-hydraulics (NURETH-6), Grenoble (F), Oct. 5-8, 1993, *J. Nuclear Technology, Vol 112, Oct. 1995, pages 1-8*
- [250] **1995 – D'Auria F., Faluomi V., Aksan S.N.**, "A proposed Methodology for the Analysis of a Phenomenon in Separate Effects and Integral Test Facilities", Int. Conf. on New Trends in Nuclear System Thermo-hydraulics - Pisa (I), May 30 - June 2, 1994, *J. Kerntechnik, vol 60 nr 4 1995, pages 166-174*
- [251] **1995 – Belsito S., D'Auria F.**, "Development of a common nodalization scheme of PWR nuclear Reactor simulators for Cathare code", University of Pisa Report, DCMN - NT 258(95), Pisa (I), May 1995
- [252] **1995 – D'Auria F., Debrecin N., Galassi G. M., Feretic D.**, "Uncertainty Evaluation during Small Break LOCA in PWRs Simulators", Int. Conf. on New Trends in Nuclear System Thermo-hydraulics - Pisa (I), May 30 - June 2, 1994, *J. Energia Nucleare Vol 12, No 1, Jan-Apr. 1995, pages 7-20, ISBN 0013-7332, ANCE E057834*
- [253] **1995 – D'Auria F., Fruttuoso G., Galassi G.M., Oriolo F.**, "AP-600 transient behavior: results from the evaluation of the Spes-2 data base and of the (Relap5/mod3) code capabilities in reproducing the relevant phenomena", University of Pisa Report, DCMN - NT 262(95), Pisa (I), July 1995
- [254] **1995 – D'Auria F., Fruttuoso G., Oriolo F., Bella L., Cavicchia V., Fiorino E.**, "Spes-2: AP-600 Integral Test Facility results: confirmatory plant behaviour and Relap5/Mod2.5 code assessment", ASME-JSME Int. Conf. on Nuclear Engineering (ICON-E), Kyoto (J) Apr. 23-27, 1995
- [255] **1995 – D'Auria F., Galassi G.M., Ingegnieri M.**, "Evaluation of the data base from the small break LOCA High Power and Low Power Tests performed in PWR Experimental Simulators LOBI and SPES", Int. Symp. on Two Phase Flow Modelling and Experimentation, Rome (I), Oct. 9-11, 1995
- [256] **1995 – D'Auria F., Leonardi M., Glaeser H., Pochard R.**, "Current Status of Methodologies evaluating the Uncertainties in the prediction of thermal-hydraulic phenomena in nuclear reactors", Int. Symp. on Two Phase Flow Modelling and Experimentation, Rome (I), Oct. 9-11, 1995
- [257] **1995 – D'Auria F., Aksan S.N., Glaeser H., Sjoberg A., Pochard R., Lillington J.**, "Further Evaluation of the CSNI Separate Effect Test Activity", 7th Int. Top. Meet. on Nuclear Reactor Thermal-hydraulics (NURETH-7), Saratoga Springs, (NY,US), Sept. 10-15, 1995
- [258] **1995 – Aksan S.N., D'Auria F., Glaeser H., Pochard R., Richards C., Sjoberg A.**, "Overview of the CSNI Separate Effects tests Validation Matrix", 7th Int. Top. Meet. on Nuclear Reactor Thermal-hydraulics (NURETH-7), Saratoga Springs (NY, US), Sept. 10-15, 1995

- [259] **1995 – Kalli H., Miettinen A., Purhonen H., D'Auria F., Frogheri M., Leonardi M.**, "Quantitative Code accuracy evaluation of ISP 33", 7th Int. Top. Meet. on Nuclear Reactor Thermal-hydraulics (NURETH-7), Saratoga Springs (NY, US), Sept. 10-15, 1995
- [260] **1995 – D'Auria F., Frogheri M., Vigni P.**, "Natural Circulation in CANDU, WWER and PWR type Nuclear Plants", 13th Conf. of Italian Society of Heat Transport, Bologna (I), June 22-23, 1995
- [261] **1995 – Ambrosini W., D'Auria F., Giglioli A.**, "Coupled Thermal-Hydraulic and neutronic instabilities in the La-Salle 2 BWR Plant", 13th Conf. of Italian Society of Heat Transport, Bologna (I), June 22-23, 1995
- [262] **1995 – Bovalini R., D'Auria F., Galassi G.M.**, "Open issues in evaluating the uncertainties and the safety margins of LWRs during off normal conditions", Int. Top. Conf. on the Safety of Operating Reactors, Seattle WA, (USA), Sept. 17-20, 1995
- [263] **1995 – D'Auria F., Galassi G.M., Madeira A.**, "Effect of minor boundary conditions on dry-out during small LOCA in PWRs", X Brazilian Meet. on Reactor Physics and Thermal-hydraulics, Aguas de Lindoia, SP, (BRA), Aug. 7-11, 1995
- [264] **1995 – Schultz R.R., D'Auria F., Hughes E.D., Kukita Y. (Editors)**, "Validation of systems transients analysis codes", ASME-JSME Fluid Engineering and Laser Anemometry Conf., Hilton Head (SC, USA), Aug. 13-18, 1995, ISBN 0791814785, Series ASME FED vol 223, Dewey Number 621.48/31, pp 1-189, <https://trove.nla.gov.au/version/26628856>
- [265] **1995 – D'Auria F., Pellicoro V.**, "Scaling and uncertainty in BWR instability problems", 2nd Regional Meet. Nuclear Energy in Central Europe, Portoroz (Slo), Sept. 11-14, 1995
- [266] **1995 – Belsito S., D'Auria F.**, "Development of a general nodalization scheme for PWR simulators", 2nd Regional Meet. Nuclear Energy in Central Europe, Portoroz (Slo), Sept. 11-14, 1995
- [267] **1995 – D'Auria F., Oriolo F., Leonardi M., Paci S.**, "Code accuracy evaluation of ISP-35 calculations based on NUPEC M-7-1 test", 2nd Regional Meet. Nuclear Energy in Central Europe, Portoroz (Slo), Sept. 11-14, 1995
- [268] **1995 – D'Auria F., Guerrini B., Mazzini M., Petrangeli G.**, "The UMAE methodology for evaluating the uncertainty in the prediction of thermal-hydraulic phenomena in nuclear reactors", ENS TOPSAFE 1995, Budapest (Hu), Sept. 24-27 1995
- [269] **1995 – Frogheri M., Prosek A., D'Auria F., Leonardi M., Mavko B., Parzer I.**, "Assessment of IAEA SPE-4 calculations using FFT method", Jozef Stefan Institute Report IJS-DP-7252, Ljubljana Dec. 1995
- [270] **1996 – D'Auria F., Fruttuoso G., Galassi G.M., Galeazzi S., Oriolo F., Bella L., Cavicchia V., Fiorino E.**, "Application of the UMAE uncertainty method in assessing the design and the safety of new generation reactors", IAEA TCM on Progress in Design, Research, Development and Testing of Safety Systems for AWCRs - Piacenza (I), May 16-19 1995 - **IAEA TECDOC 872 (1996)**
- [271] **1996 – Bovalini R., D'Auria F., Galassi G.M., Mazzini M.**, "Post-test analysis of PIPER-ONE PO-IC-2 experiment by Relap5/mod3 codes", 13th Conf. of Italian Society of Heat Transport, Bologna (I), June 22-23 1995, IAEA TCM on Progress in Design, Research, Development and Testing of Safety Systems for AWCRs - Piacenza (I), May 16-19 1995 - **IAEA TECDOC 872 (1996)**
- [272] **1996 – D'Auria F., Eramo A., Frogheri M., Galassi G.M.**, "Accuracy quantification in SPE-1 to SPE-4 organized by IAEA", ASME-JSME Int. Conf. on Nuclear Engineering (ICON-4) - New Orleans (US), March 10-14, 1996
- [273] **1996 – Cerullo N., D'Auria F., Frogheri M., Hinovsky I.**, "Data base for Transient analyses in WWER-1000 nuclear plants", ASME-JSME Int. Conf. on Nuclear Engineering (ICON-4) - New Orleans (US), March 10-14, 1996
- [274] **1996 – D'Auria F., Galassi G.M., Gatta P., Mastrantonio L., Marsili P.**, "Comparison between small LOCA scenarios in Eastern and Western type PWRs", ASME-JSME Int. Conf. on Nuclear Engineering (ICON-4) - New Orleans (US), March 10-14, 1996
- [275] **1996 – D'Auria F., Mazzini M., Kalli H., Sorjonen J.**, "Application of Cathare code to the isolation condenser experiment in Piper-One Loop", ASME-JSME Int. Conf. on Nuclear Engineering (ICON-4) -

New Orleans (US), March 10-14, 1996

- [276] **1996 – D'Auria F., Pellicoro V., Feldmann O.**, "Use of Relap5 Code to evaluate the BoP influence following instability events in BWR", ASME-JSME Int. Conf. on Nuclear Engineering (ICON-E) - New Orleans (US), March 10-14, 1996
- [277] **1996 – D'Auria F., Faluomi V.**, "Qualitative analysis of scaling effects in isolation condenser behaviour with Relap5/mod3 thermal-hydraulic code", ASME-JSME Int. Conf. on Nuclear Engineering (ICON-E) - New Orleans (US), March 10-14, 1996
- [278] **1996 – D'Auria F., Pellicoro V.**, "Local Instability in BWR reactor simulator", ASME-JSME Int. Conf. on Nuclear Engineering (ICON-E) - New Orleans (US), March 10-14, 1996
- [279] **1996 – D'Auria F., Galassi G.M., Galetti R., Leonardi M.**, "Application of the FFT method to evaluate the accuracy of SBLOCA data base", University of Pisa Report, DCMN - NT 284(96), Pisa (I), June 1996 - Int. Cooperation between Univ. of Pisa and CNEN- Rio-de-Janeiro (Brazil)
- [280] **1996 – Ferreri J.C., Ambrosini W., D'Auria F.**, "On the convergence of Relap5 calculations in a single-phase natural circulation test problem", X Brazilian Meet. on Reactor Physics and Thermal-hydraulics, Aguas de Lindoia (Br), Aug. 7-11, 1995, [ENREN Report PI-1/96 - Buenos Aires \(Arg\)](#), 1996
- [281] **1996 – Congiu C., D'Auria F., Frogheri M., Galassi G.M., Madeira A., Zhao H.**, "Relevant thermal-hydraulic Aspects in four 1% Small break LOCA experiments in LOBI facility", Int. Symp. on Two Phase Flow Modelling and Experimentation, Rome (I), Oct. 9-11, 1995, [J. Kerntechnik, Vol. 61, No. 4, 1996](#)
- [282] **1996 – D'Auria F., Galassi G.M., Galetti R.**, "Post-test analysis and accuracy evaluation of the LOBI-Mod2 LOFW test BT-15/16 by Relap5/mod2 code", University of Pisa Report, DCMN - NT 285(96), Pisa (I), June 1996 - Int. Cooperation between Univ. of Pisa and CNEN-Rio-de-Janeiro (Brazil)
- [283] **1996 – Bovalini R., D'Auria F., Galassi G.M., Mazzini M.**, "Post-test analysis of PIPER-ONE PO-IC-02 experiment by Relap5/mod3 Codes", [US NRC Report NUREG/IA 0135 CAMP 006](#), Washington (D.C., US), Nov. 1996
- [284] **1996 – D'Auria F., Faluomi V., Galassi G.M.**, "Post-test analysis performed by Relap5/mod3.2 code of the Bethsy test 6.9c (OECD/CSNI ISP 38)", University of Pisa Report, DCMN - NT 286(96), Pisa (I), June 1996
- [285] **1996 – Congiu C., D'Auria F., Leonardi M.**, "Accuracy quantification by the FFT method in Faro L-20 test - pre-test calculations", University of Pisa Report, DCMN - NT 291(96), Pisa (I), July 1996
- [286] **1996 – D'Auria F., Ingegneri M.**, "Post-test analysis with Cathare2 v1.3u code of the SPES SBLOCA tests SP-SB-03 and SP-SB-04 counterpart to Lstf, Bethsy and Lobi experiments", University of Pisa Report, DCMN - NT 295(96), Pisa (I), Sept. 1996 – Int. Cooperation between Univ. of Pisa and CEA-Cadarache (F)
- [287] **1996 – Aprile G., D'Auria F., Galassi G.M., Marsili P.**, "Application of Relap5/mod3.1and 3.2 codes to experimental study of gas injection in isolation condenser performance", CAMP Meet. Madrid (E), May 6-8, 1996
- [288] **1996 – Aksan S.N., D'Auria F., Glaeser H., Lillington J., Pochard R., Sjoberg A.**, "Evaluation of the Separate effects tests (SET) Validation Matrix", [OECD-CSNI Report OECD/GD \(97\) 9](#), Paris (F), Nov. 1996
- [289] **1996 – Bovalini R., D'Auria F., Guerrini B., Mazzini M.**, "Piper-One Research: experimental study of gas injection on isolation condenser performance", 2nd European Thermal Science and 14th Conf. of Italian Society of Heat Transport, Roma (I), May 28-30, 1996
- [290] **1996 – D'Auria F., Faluomi V., Vigni P.**, "Evaluation of hardware data in thermal-hydraulic facilities relevant to SBWR technology", 2nd European Thermal Science and 14th Conf. of Italian Society of Heat Transport, Roma (I), May 28-30, 1996
- [291] **1996 – D'Auria F., Clement P., Faluomi V., Staedtke H., Vanhoenacker L.**, "Lesson learned from OECD/CSNI ISP on Small Break LOCA", [OECD-CSNI Report OECD/GD \(97\) 10](#), Paris (F), July 1996
- [292] **1996 – Bovalini R., D'Auria F., Mazzini M., Vigni P.**, "Status and perspectives of Piper-One facility", ENS Top. Meet. Research Facilities for the Future of Nuclear Energy - Brussels (B), June 4-6, 1996
- [293] **1996 – Tuunanen J., D'Auria F., Lillington J., Kimber G., Kalli H.**, "Review of experimental work and code

application on the simulation of passive safety injection system", VTT-Energia Report, PAHKO 3/96, Helsinki (SF), 1996

- [294] **1996 – Aksan S.N., D'Auria F.**, "Status report on relevant thermal-hydraulic aspects of advanced reactor designs", OECD-CSNI Report OECD/GD (97)8, NEA/CSNI R(96)22, Paris (F), Nov. 1996
- [295] **1996 – Frogheri M., Misale M., D'Auria F.**, "Design of a single phase natural circulation loop", 51st Conf. Italian Thermo-technic Association (ATI), Udine (I), Sept. 16-20, 1996
- [296] **1996 – D'Auria F., Galassi G.M., Galetti R.**, "The need of qualifying a best-estimate code against a complex transient: methodology and results", 3rd Regional Meet. Nuclear Energy in Central Europe, Portoroz (Slo), Sept. 16-19, 1996
- [297] **1996 – Faluomi V., D'Auria F., Aksan S.N.**, "Qualification of the UMAE-SETF uncertainty Methodology", 3rd Regional Meet. Nuclear Energy in Central Europe, Portoroz (Slo), Sept. 16-19, 1996
- [298] **1996 – Belsito S., D'Auria F., Ingegneri M., Chojnacki E., Gonzales R.**, "Post-test analysis of counterpart tests in Lobi, Spes, Bethsy and Lstf facilities performed with Cathare2 code", 3rd Regional Meet. Nuclear Energy in Central Europe, Portoroz (Slo), Sept. 16-19, 1996
- [299] **1996 – Aprile G., D'Auria F., Frogheri M., Galassi G.M.**, "Application of a qualified WWER-1000 plant nodalization for Relap5/mod3.2 computer code", Int. Conf. Nuclear Option in Countries with Small and Medium Electricity Grid, Opatjia (Hr), Oct. 7-9, 1996
- [300] **1996 – Belsito S., D'Auria F.**, "Relevant assumptions at the basis of the UMAE uncertainty Methodology", Int. Conf. Nuclear Option in Countries with Small and Medium Electricity Grid, Opatjia (Hr), Oct. 7-9, 1996
- [301] **1996 – D'Auria F., Frogheri M., Galassi G.M.**, "Participation to OECD/NEA BWR Benchmark with Relap5/mod2 code", Int. Conf. Nuclear Option in Countries with Small and Medium Electricity Grid, Opatjia (HR), Oct. 7-9, 1996
- [302] **1996 – Alemberti A., Caruso G., D'Auria F., Fiorino E., Galassi G., Marella G., Marsili P., Meloni P., Naviglio A.**, "The Italian experience on T/H best estimate codes: achievements and perspectives", OECD/CSNI Workshop on Transient Thermal-hydraulic & Neutronic Codes Requirements, Annapolis (Md, USA), Nov. 5-8, 1996
- [303] **1996 – D'Auria F., Eramo A., Galassi G.M., Meloni P.**, "Post-test analysis performed by Cathare 2 v1.3u code of the Bethsy test 6.9c (OECD/CSNI ISP 38)", University of Pisa Report, DCMN - NT 276(96), Pisa (I), April 1996
- [304] **1997 – D'Auria F., Frogheri M., Galassi G.M.**, "Modelling of WWER-1000 Steam Generators by Relap5/mod3.2 code", 4th Int. Sem. on Horizontal Steam Generators - Lappeenranta (SF), March 11-13, 1997
- [305] **1997 – Beghini M., D'Auria F., Galassi G.M., Vitale E.**, "Evaluation of the PTS potential in a WWER-1000 following a steam line break", IAEA Spec. Meet. on Methodology for PTS Evaluation - Esztergom (H), May 5-8, 1997
- [306] **1997 – Ingegneri M., D'Auria F., Chojnacki E., Camous F.**, "Similarity evaluation of PWR NPP SBLOCA scenarios", Jahrestagung Kerntechnik, Annual Meeting on Nuclear Technology - Aachen (G), May 13-15, 1997
- [307] **1997 – D'Auria F., Faluomi V.**, "Relap5/mod3 code capabilities in predicting scaling effects related to SBWR", ASME-JSME Int. Conf. on Nuclear Engineering (ICON-5), Nice (F), May 26-30, 1997 (ICON-5-2451)
- [308] **1997 – Belsito S., D'Auria F., Gatta P.**, "The use of UMAE in the OECD/CSNI Uncertainty Method Study", ASME-JSME Int. Conf. on Nuclear Engineering (ICON-5), Nice (F), May 26-30, 1997 (ICON-5-2459)
- [309] **1997 – D'Auria F., Eramo A., Galassi G.M., Meloni P.**, "Comparison of Relap5/mod3 mod3.2 and Cathare 2 v1.3U post-test calculations of Bethsy test 6.9c", ASME-JSME Int. Conf. on Nuclear Engineering (ICON-5), Nice (F), May 26-30, 1997 (ICON-5-2443)
- [310] **1997 – D'Auria F., Galassi G.M., Mastrandionio L.**, "Accident Management studies in the WWER-1000 Plant", ASME-JSME Int. Conf. on Nuclear Engineering (ICON-5), Nice (F), May 26-30, 1997 (ICON-5-2458)

- [311] **1997 – Frogheri M., Misale M., Bertucci M., D'Auria F., Cicchini G.**, "Preliminary stability results obtained from the operation of a simple natural circulation loop", ASME-JSME Int. Conf. on Nuclear Engineering (ICONE-5), Nice (F), May 26-30, 1997 (ICONE5-2432)
- [312] **1997 – D'Auria F., Frogheri M., Monasterolo U.**, "Removable power by natural circulation in PWR systems", ASME-JSME Int. Conf. on Nuclear Engineering (ICONE-5), Nice (F), May 26-30, 1997 (ICONE5-2431)
- [313] **1997 – Aksan N., D'Auria F., Glaeser H., Lillington J., Pochard R., Sjoberg A.**, "Systematic evaluation of the CSNI SET Validation Matrix data base and resulting needs", ASME-JSME Int. Conf. on Nuclear Engineering (ICONE-5), Nice (F), May 26-30, 1997 (ICONE5-2147)
- [314] **1997 – Sorjonen J., Sarrette C., Kalli H., Bestion D., D'Auria F.**, "Comparison of condensation correlations in Cathare code for modelling isolation condenser experiment", ASME-JSME Int. Conf. on Nuclear Engineering (ICONE-5) - Nice (F) May 26-30, 1997 (ICONE5-2128), **CENG Report SMTH/LMDS/EM97-024**, Grenoble (F), Nov. 1997
- [315] **1997 – D'Auria F. (Editor), Ambrosini W., Anegawa T., Blomstrand J., In De Betou J., Langenbuch S., Lefvert T., Valtonen K.**, "State of the Art Report on Boiling Water Reactor Stability (SOAR ON BWRS)", **OECD-CSNI Report OECD/GD (97) 13**, Paris (F), Jan. 1997, pp 1-458
- [316] **1997 – D'Auria F., Frogheri M., Galassi G.M.**, "Application of the Cathare 2 v1.3U code to the analysis of the Pactel GDE-24 experiment relevant to the innovative reactors", University of Pisa Report, DCMN - NT 301(96), Pisa (I), Dec. 1996, EU Meeting, Lappeenranta (SF), March 14, 1997
- [317] **1997 – D'Auria F., Galassi G.M., Belsito S., Ingegneri M., Gatta P.**, "UMAE Application: Contribution to the OECD/CSNI UMS vol. 2", University of Pisa Report, DCMN - NT 307(97)-rev.1, Pisa (I), May 1997, OECD/CSNI UMS Meeting, Cadarache (F), April 24-25, 1997
- [318] **1997 – D'Auria F., Galassi G.M., Ingegneri M.**, "Application of the Cathare 2 v1.3U code to the analysis of the Pactel GDE-34 experiment relevant to the innovative reactors", University of Pisa Report, DCMN - NT 311(97), Pisa (I), June 1997, EU Meeting, London (UK), June 2-3, 1997
- [319] **1997 – D'Auria F., Galassi G.M.**, "Accuracy quantification by the FFT method in FARO L-14 (ISP 39) open calculations", University of Pisa Report, DCMN - NT 309(97), Pisa (I), Apr. 1997, OECD/CSNI ISP 39 Workshop, Ispra (I), April 22-23, 1997
- [320] **1997 – Verlaeken J., Kalugin S., Bava G., D'Auria F.**, "Study Project of Safety Issues for future cooperation in the frame of EU-RF Co-operation - Item 1: Analyses of transient and accident conditions, Part 2: the ATWS issue", RISKAUDIT Contract n. SC 96/44 - B7 - 6340/95/938/JR/A3, June 1997
- [321] **1997 – Friedmann P., Kalugin S. (Coordinators), Bava G., Verlaeken J., Bruna G.B., D'Auria F.**, "Study Project of Safety Issues for future cooperation in the frame of EU-RF Co-operation - Item 2: Analyses of transient and accident conditions: Boron dilution, SGTR, LOCA", RISKAUDIT Contract n. SC 96/44 - B7 - 6340/95/938/JR/A3, June 1997
- [322] **1997 – Strupczewsky A. (Editor), Lhoest V., Sykora M., D'Auria F. (IAEA Experts)**, "Expert Mission on Validation and Verification of EOP and Development of AM guidelines for NPP Kozloduy", IAEA Report - TC Project RER/9/046 - IAEA RU 7088, Vienna (A), Sept. 1997
- [323] **1997 – Frogheri M., Misale M., D'Auria F.**, "Transposition of basic phenomenology in single phase natural circulation", 4th World Conf. Experimental Heat Transfer, Fluid Mechanics and Thermodynamics - Brussels (B), June 2-6 1997
- [324] **1997 – Belsito S., D'Auria F.**, "Comparison of advanced computer codes in the simulation of CHF occurrence in PMK facility", 4th World Conf. Experimental Heat Transfer, Fluid Mechanics and Thermodynamics - Brussels (B), June 2-6 1997
- [325] **1997 – Bovalini R., D'Auria F., Galassi G.M., Mazzini M.**, "Experience in isolation condenser performance gained by Piper-One operation", Int. Meet. on Advanced Reactor Safety (ARS '97) - Orlando (US), June 1-5 1997
- [326] **1997 – D'Auria F., Galassi G.M., Oriolo F., Fiorino E., Fruttuoso G.**, "Evaluation of Relap5/mod3.1 application to Spes-2 experiments", Int. Meet. on Advanced Reactor Safety (ARS '97) - Orlando (US), June

1-5 1997

- [327] **1997 – D'Auria F., Eramo A., Gatta P.**, "Status approach in the analysis of complex transients in PWR systems", 15th Conf. of Italian Society of Heat Transport, Torino (I), June 19-20 1997
- [328] **1997 – Frogheri M., Misale M., D'Auria F.**, "Experiments in single phase natural circulation", 15th Conf. of Italian Society of Heat Transport, Torino (I), June 19-20 1997
- [329] **1997 – D'Auria F., Frogheri M., Galassi G.M.**, "Use of Cathare code for the simulation of CMT passive systems related scenarios", 15th Conf. of Italian Society of Heat Transport, Torino (I), June 19-20 1997
- [330] **1997 – Bovalini R., D'Auria F., Galassi G.M., Mazzini M.**, "Piper-one research: Experimental study of isolation condenser performance at low pressure", 15th Conf. of Italian Society of Heat Transport, Torino (I), June 19-20 1997
- [331] **1997 – Blagovetchensky A., D'Auria F.**, "On the possibility to use submarine nuclear power units to generate peaceful energy", Forum on Nuclear and Biological Decommissioning: Management of Global Security Threats - Landau Network - Centro A. Volta, Villa Olmo (I), June 27-28, 1997
- [332] **1997 – D'Auria F., Galassi G.M., Gatta P.**, "Scaling in nuclear system thermal-hydraulics: a way to utilise the available data base", ANS National Heat Transfer Conf., Baltimore (Md), Aug. 10-12 1997
- [333] **1997 – D'Auria F., Galassi G.M.**, "Experience gained in the application of Relap5 and Cathare codes to situations relevant to the new generation reactors", Post-Smirt14, Int. Sem. 18, Passive Safety Features in Nuclear Installations - Pisa (I), Aug. 25-27, 1997
- [334] **1997 – D'Auria F., Galassi G.M., Leonardi M., Galetti R.**, "Application of the Fast Fourier Transform Method to evaluate the accuracy of SBLOCA Data Base", 8th Int. Top. Meet. on Nuclear Reactor Thermal-hydraulics (NURETH-8), Kyoto (J), Sept. 30 - Oct. 4, 1997
- [335] **1997 – D'Auria F., Ingegneri M.**, "Qualitative and quantitative analysis of Cathare 2 code results of counterpart test calculations in LOBI, SPES, BETHSY and LSTF facilities", 8th Int. Top. Meet. on Nuclear Reactor Thermal-hydraulics (NURETH-8), Kyoto (J), Sept. 30 - Oct. 4, 1997
- [336] **1997 – Tuunanan J.P., Lillington J.N., D'Auria F., Vihavainen J.**, "Assessment of passive safety injection systems of advanced light water reactors (APSI)", FISA-97 Symp. on EU Research on Severe Accidents - Luxembourg (L), Nov. 17-19, 1997
- [337] **1997 – Mavko B., Prosek A., D'Auria F.**, "Determination of code accuracy in predicting small break LOCA experiment", *J. Nuclear Technology*, Vol 120, Oct. 1997, pp 1-18
- [338] **1997 – D'Auria F., Frogheri M., Misale M.**, "System codes capabilities in predicting instabilities in single phase natural circulation", 4th Regional Meet. Nuclear Energy in Central Europe, Bled (Slo), Sept. 7-10, 1997
- [339] **1997 – D'Auria F., Eramo A., Giannotti W.**, "Advancements in planning an IAU code", 4th Regional Meet. Nuclear Energy in Central Europe, Bled (Slo), Sept. 7-10, 1997
- [340] **1997 – D'Auria F., Ingegneri M.**, "UMS application of UMAE having as basis the Cathare 2 code", 5th Int. CATHARE Seminar - Grenoble (F) Dec. 3-5, 1997
- [341] **1998 – D'Auria F., Galassi G.M.**, "Code Validation and Uncertainties in System Thermal-hydraulics", *J. Progress in Nuclear Energy*, Vol 33 No 1/2, pp 175-216, 1998
- [342] **1998 – D'Auria F., Wahba A.B.**, "More than 30 years of Reactor Thermal-hydraulics", *J. Kerntechnik*, Vol 63 1-2, pp 8-16, 1998
- [343] **1998 – D'Auria F., Ingegneri M.**, "Uncertainty Evaluation of thermal-hydraulic code results utilising UMAE", 2nd SAMO, Int. Symp. on Sensitivity Analysis of Model Output, Venice (I), April 19-22, 1998
- [344] **1998 – D'Auria F., Galassi G.M., Addabbo C., Annunziato A.**, "Application of the FFT uncertainty quantification methodology to the OECD/CSNI ISP 39", 2nd SAMO, Int. Symp. on Sensitivity Analysis of Model Output, Venice (I), April 19-22, 1998
- [345] **1998 – Faluomi V., D'Auria F., Aksan S.N.**, "Scaling distortions characterising experimental data used in uncertainty evaluation", ASME-JSME Int. Conf. on Nuclear Engineering (ICON-E-6) - San Diego (Ca), May 10-15

- 1998 (ICONE6-6244)
- [346] **1998 – D'Auria F.**, "The state of the Art Report on Boiling Water Reactor Stability: A Synopsis", ASME-JSME Int. Conf. on Nuclear Engineering (ICONE-6) - San Diego (Ca), May 10-15 1998
- [347] **1998 – D'Auria F., Eramo A., Giannotti W.**, "Code with Internal Assessment of Uncertainty (CIAU): the next advancement of Thermal-Hydraulic Computer Codes", ASME-JSME Int. Conf. on Nuclear Engineering (ICONE-6) - San Diego (Ca) May 10-15 1998 (**)
- [348] **1998 – Cappariello A., D'Auria F., Vigni P.**, "On the use of thermal-hydraulic codes to evaluate PTS situations", 16th Conf. of Italian Society of Heat Transport, Siena (I), June 18-19 1998
- [349] **1998 – Bedrossian G., D'Auria F., Galassi G.M.**, "Revisiting of large break LOCA with an advanced code", 16th Conf. of Italian Society of Heat Transport, Siena (I), June 18-19 1998
- [350] **1998 – D'Auria F., Mazzini M.** "The research carried out at University of Pisa for UMAE development", 16th Conf. of Italian Society of Heat Transport, Siena (I), June 18-19 1998
- [351] **1998 – Frogheri M., Misale M., Oliveri A., D'Auria F.**, "Multidimensional aspects in single phase natural circulation", 16th Conf. of Italian Society of Heat Transport, Siena (I), June 18-19, 1998
- [352] **1998 – D'Auria F., Galassi G.M., Frogheri M.**, "Natural circulation performance in nuclear power plants", Int. Conf. Nuclear Option in Countries with small and medium Electricity Grids - Dubrovnik (Hr), June 15-18 1998, IAEA TCM on Experimental Tests and Qualification of Analytical Methods to Address Thermo-hydraulic Phenomena in Advanced Water Cooled Reactors - Villingen (CH), Sept. 14-17, 1998
- [353] **1998 – D'Auria F., Eramo A., Giannotti W.** "Analytical tools for the routine use of the UMAE", Int. Conf. Nuclear Option in Countries with small and medium Electricity Grids - Dubrovnik (Hr), June 15-18, 1998
- [354] **1998 – D'Auria F., Frogheri M., Marsili P., Giannotti W.** "Standardised Procedure for thermal-hydraulic system code assessment", Spring 1998 CAMP Meeting, Ankara (Tr) June 24-26, 1998, IAEA Spec. Meet. on User Qualification and User Effects on Accident Analysis for Nuclear Power Plants - Vienna (A), Aug. 31-Sept. 4, 1998, 2nd Int. Yugoslav Nuclear Society Conf. (YUNSC '98) – Belgrad (YU) Sept. 28, Oct. 1, 1998
- [355] **1998 – D'Auria F., Chojnacki E., Glaeser H., Lage C., Wickett T.**, "Overview of Uncertainty Issues and Methodologies", Invited at OECD/CSNI Seminar on Best Estimate Methods in Thermal-Hydraulic Analyses - Ankara (Tr) June 29 - July 1, 1998, NEA/CSNI/R(99)10, Paris (F), pp 437-458. IAEA Spec. Meet. on User Qualification and User Effects on Accident Analysis for Nuclear Power Plants - Vienna (A), Aug. 31-Sept. 4, 1998
- [356] **1998 – Glaeser H., Wickett T., Chojnacki E., D'Auria F., Lage C.**, "Application of uncertainty Methods in the OECD/CSNI Uncertainty Methods Study", Invited at OECD/CSNI Seminar on Best Estimate Methods in Thermal-Hydraulic Analyses - Ankara (Tr) June 29 -July 1, 1998, NEA/CSNI/R(99)10, Paris (F), pp 459-479
- [357] **1998 – Garcia A., Gago J.L., D'Auria F.** "Study supporting the uncertainty evaluation in WWER-1000", 5th Regional Meet. Nuclear Energy in Central Europe, Catez (Slo), Sept. 8-10 1998
- [358] **1998 – D'Auria F.**, "Proposal for training of thermal-hydraulic system code users", IAEA Spec. Meet. on User Qualification and User Effects on Accident Analysis for Nuclear Power Plants - Vienna (A), Aug. 31-Sept. 4, 1998
- [359] **1998 – Misale M., Frogheri M., Ruffino P., D'Auria F.** "Steady state and stability behaviour of a single phase natural circulation loop", 11th International Heat Transfer Conference - Kyongju (Kr), Aug. 23-28, 1998
- [360] **1998 – D'Auria F., Fruttuoso G., Galassi G.M., Oriolo F., Bassanelli I.**, "Analysis of SGTR in AP-600 by Relap5/mod3.2 code", IAEA TCM on Experimental Tests and Qualification of Analytical Methods to Address Thermo-hydraulic Phenomena in Advanced Water Cooled Reactors - Villingen (CH), Sept. 14-17 1998
- [361] **1998 – Cappariello A., D'Auria F., Galassi G.M., Bajs T.**, "Participation in the OECD/NEA/NSC TMI-1 PWR MSLB Benchmark - Phase 1: 0-D neutronics, Final Results", University of Pisa Report, DCMN - NT 335(98), Pisa (I), March 1998 - Int. Cooperation between Universities of Pisa and Zagreb, Submitted at Penn State University for issuing the Benchmark Comparison Report on March 1998
- [362] **1998 – Fontani E., D'Auria F., Frogheri M., Garcia A., Misale M.**, "Analysis of single phase natural circulation experiments with Cathare v1.3u and Relap5/mod3.2 codes", University of Pisa Report, DCMN -

NT 336(98), Pisa (I), March 1998 – Int. Cooperation between University of Pisa and CNEA Buenos Aires (Arg)

- [363] **1998 – Bedrossian G., D'Auria F., Galassi G. M.**, "Relap5/mod3.2 post-test analysis and accuracy quantification of LOFT experiment L2-5", University of Pisa Report, DCMN - NT 339(98), Pisa (I), April 1998 – Int. Cooperation between University of Pisa and CNEA Buenos Aires (Arg)
- [364] **1998 – D'Auria F., Galassi G.M., Segon V.**, "Relap5/mod3.2 post-test analysis and accuracy quantification of LSTF test SB-CL-21", University of Pisa Report, DCMN - NT 349(98) rev.1, Pisa (I), July 1998 – Int. Cooperation between Universities of Pisa and Zagreb
- [365] **1998 – D'Auria F., Ingegneri M.**, "Use and qualification of the UMAE uncertainty Methodology having as basis the Cathare2 code", *J. Nuklearna Tehnologija – Biblid 0351-689X, 13, 2, 1998 pages 3-16* (^)
- [366] **1998 – Wickett T. (Editor), D'Auria F., Glaeser H., Chojnacki E., Lage C. (Lead Authors), Sweet D., Neil A., Galassi G. M., Belsito S., Ingegneri M., Gatta P., Skorek T., Hofer E., Kloos M., Ounsy M., Sanchez J.I.**, "Report of the Uncertainty Methods Study for advanced best estimate thermal-hydraulic code applications" - Vols I & II, *OECD/CSNI Report NEA/CSNI/R(97)35, Paris (F), June, 1998*
- [367] **1998 – Ashley R., El-Shanawany M., Eltawila F., D'Auria F.**, "Good Practices for User Effect Reduction", *OECD/CSNI Report NEA/CSNI/R(98)22, Paris (F), November, 1998*
- [368] **1999 – Madeira A., Giannotti W., D'Auria F.**, "Bases for the use of CIAU for a Nuclear Power Plant (NPP) Transient simulation", University of Pisa Report, DCMN - NT 373(99)-rev.1, Pisa (I), January 1999, Submitted to IAEA (Vienna) - Int. Cooperation between Univ. of Pisa and CNEN- Rio-de-Janeiro (Brazil)
- [369] **1999 – D'Auria F., Frogheri M., Giannotti W.**, "Relap5/mod3.2 post-test analysis and accuracy quantification of LOBI test BL-44", *USNRC NUREG/IA-0153, Washington (US), February 1999*
- [370] **1999 – D'Auria F., Frogheri M., Giannotti W.**, "Relap5/mod3.2 post test analysis and accuracy quantification of LOBI test BL-34", *USNRC NUREG/IA-0152, Washington (US), February 1999*
- [371] **1999 – D'Auria F., Frogheri M., Giannotti W.**, "Relap5/mod3.2 post-test analysis and accuracy quantification of SPES test SP-SB-03", *USNRC NUREG/IA-0154, Washington (US), February 1999*
- [372] **1999 – D'Auria F., Frogheri M., Giannotti W.**, "Relap5/mod3.2 post-test analysis and accuracy quantification of SPES test SP-SB-04", *USNRC NUREG/IA-0155, Washington (US), February 1999*
- [373] **1999 – D'Auria F., Galassi G.M.**, "Relap5/m3.2 post test analysis and accuracy quantification of LSTF test SB-CL-18 (ISP 26)"- Summary Report, University of Pisa Report, DIMNP - NT 372(99), Pisa (I), Feb. 1999
- [374] **1999 – D'Auria F., Fontani E., Frogheri M., Misale M., Garcia A.**, "Analysis of single phase natural circulation experiment with Cathare V1.3U and Relap5/Mod3.2 codes", 5th Regional Meet. Nuclear Energy in Central Europe, Catez (Slo), Sept. 8-10, 1998 (^), *Int. J. of Thermal Science, Vol 38, 1999, pages 977-983*
- [375] **1999 – Morasso R., Beghini M., Bertini L., D'Auria F., Magliolo P.**, "Stress-Strain State evaluation for the WWER-1000 RPV in case of Pressurized Thermal Shock", University of Pisa Report, DCMN - NT 378(99), Pisa (I), April 1999
- [376] **1999 – Galetti M.R. (author), D'Auria F., Alvarenga M.A. (revision / approval)**, "Review of LBLOCA Analysis presented in section 15.6.4.2 of Angra 2 Nuclear Power Plant FSAR" *CNEN PT-Codre N°58/99, Rio de Janeiro (Br), October 1999*
- [377] **1999 – Tuunainen J., Vihavainen J., D'Auria F., Kimber G.**, "Assessment of Passive Safety Injection Systems of ALWRs", *VTT Research Notes – ISBN 951-38-5436-1, Espoo (Fin), 1999*
- [378] **1999 – D'Auria F., Galassi G.M.**, "Panda ISP 42: Relap5/m3.2.2 pre-test analysis", University of Pisa Report, DCMN - NT 387(99), Pisa (I), Sept. 1999, Submitted to PSI (Switzerland) for the Comparison Report
- [379] **1999 – D'Auria F., Giannotti W.**, "Preliminary use of Relap5 code with Internal Assessment of Uncertainty", ASME-JSME Int. Conf. on Nuclear Engineering (ICON-7), Tokyo (J), April 19-23, 1999 (ICON-7396)
- [380] **1999 – Piagentini A., D'Auria F., Geffraye G., Chataing T.**, "Cathare Code capabilities in predicting film condensation heat transfer", *2nd Int.Symp. Two-Phase Flow Modelling and Experimentation, Pisa (I), May 23-26, 1999*

- [381] **1999 – Gago J.L., Garcia A., D'Auria F.**, "Study supporting the uncertainty evaluation in Kozloduy-5 (WWER-1000) and Krsko (Westinghouse) Nuclear Power Plants", 3rd ASME-JSME Joint Fluid Engineering Conference - San Francisco (Ca) July 18-23, 1999 (ASME 7001)
- [382] **1999 – D'Auria F., Giannotti W.**, "Development of Matrix and Vector for Internal Assessment of Uncertainty", 3rd ASME-JSME Joint Fluid Engineering Conference - San Francisco (Ca) July-18-23 1999 (ASME 7003)
- [383] **1999 – D'Auria F., Fruttuoso G., Galassi G.M., Oriolo F., Barucca L., Brega E.**, "Steam Generator Tube Rupture analysis in EP-1000 innovative Plant", 3rd ASME-JSME Joint Fluid Engineering Conference - San Francisco (Ca, US), July-18-23, 1999 (ASME 7004)
- [384] **1999 – D'Auria F., Galassi G.M., Cappariello A., Gago J.L., Bajs T.**, "Application of Relap5/mod3.2 to the OECD/CSNI/NEA Main Steam Line Break Benchmark related to TMI-1", 3rd ASME-JSME Joint Fluid Engineering Conference, San Francisco (Ca, US), July-18-23, 1999 (ASME 7005)
- [385] **1999 – Groeneveld D.C., Leung L.K.H., Aksan N., Badulescu A., Cleveland J., Baek W.P., Chung M.K., D'Auria F., Cheng X., Kirillov P., Macek J.**, "A general method of predicting critical heat flux in Advanced Water Cooled Reactors", 9th Int. Top. Meet. on Nuclear Reactor Thermal-hydraulics, San Francisco (Ca), Oct. 3-8, 1999
- [386] **1999 – Madeira A., Giannotti W., D'Auria F.**, "Sample use of CIAU for a Nuclear power plant transient simulation", 9th Int. Top. Meet. on Nuclear Reactor Thermal-hydraulics, San Francisco (Ca), Oct. 3-8, 1999
- [387] **1999 – D'Auria F., Galassi G.M., Frogner M.**, "Application of Cathare code to the analysis of Pactel experiments relevant to innovative reactors", 9th Int. Top. Meet. on Nuclear Reactor Thermal-hydraulics, San Francisco (Ca), Oct. 3-8, 1999
- [388] **1999 – Frogner M., Misale M., D'Auria F.**, "Application of Cathare v1.3u and Relap5/mod3.2 codes to a rectangular natural circulation loop", 17th Conf. of Italian Society of Heat Transport, Ferrara (I), June 30 July 2, 1999
- [389] **1999 – D'Auria F., Magliolo P., Vigni P.**, "Preliminary application and qualification of the N3S CFD code", 54th Conf. Italian Thermo-technic Association (ATI), L'Aquila (I), Sept. 14-17, 1999
- [390] **1999 – D'Auria F., Frogner M.**, "Use of Natural Circulation Flow Map for assessing PWR performance", Eurotherm Sem. No. 63: Single and Two-Phase Natural Circulation, Genova (I), Sept. 6-8, 1999
- [391] **1999 – Misale M., Frogner M., D'Auria F.**, "Experiments in natural circulation: influence of scale factor on the stability behaviour", Eurotherm Sem. No. 63: Single and Two-Phase Natural Circulation, Genova (I), Sept. 6-8, 1999
- [392] **1999 – D'Auria F., Gago J.L., Galassi G.M.**, "Achievements from the analysis of a Main Steam Line Break in a PWR", XXV Annual Meet. of Spanish Nuclear Society, Granada (E), Nov. 17-19 1999
- [393] **1999 – Meloni P., D'Auria F., Dell'Orco G., Oriolo F., Polazzi G.**, "Analytical Study with the Athena code of the HCPB Blanket Design Experimental Activity on the HE-FUS3 Facility", Int. Conf. on Fusion Technology (SOFT) – Marseille (F), April 1999
- [394] **1999 – Tuunanen J., Kimber G., Lillington J., D'Auria F., Frogner M., Viavainen J.**, "Assessment of passive safety injection systems of advanced Light Water Reactors", FISA-99 Symp. on EU Research in reactor safety - Luxembourg (L), Nov. 29 – Dec. 1, 1999
- [395] **2000 – D'Auria F., Giannotti W., Piagentini A.**, "Consideration of Bifurcations within the Internal Assessment of Uncertainty", ASME-JSME Int. Conf. on Nuclear Engineering, Baltimore (Md), Apr. 2-6, 2000 (ICON-E8-8737), Invited
- [396] **2000 – Misale M., Frogner M., D'Auria F.**, "Thermal-hydraulic behaviour in a rectangular loop", ASME-JSME Int. Conf. on Nuclear Engineering, Baltimore (Md), Apr. 2-6, 2000 (ICON-E8-8625)
- [397] **2000 – D'Auria F., Marsili P.**, "The Capability of Internal Assessment of Uncertainty", Invited at OECD/CSNI Workshop on Advanced Thermal-Hydraulic and Neutronic Codes: Current and Future Applications - Barcelona (Sp), Apr. 10-13, 2000

- [398] **2000 – Sievers J., Boyd C., D'Auria F., Filo J., Hafner W., Hertlein R., Scheuerer M.**, "Thermal-hydraulic Aspects of the International Comparative Assessment Study on Reactor Pressure Vessel under PTS loading (RPV PTS ICAS)", Invited at OECD/CSNI Workshop on Advanced Thermal-Hydraulic and Neutronic Codes: Current and Future Applications - Barcelona (Sp), Apr. 10-13, 2000
- [399] **2000 – Jankowski M., Misak J., Allison C., Balabanov E., Snell V., D'Auria F., Salvatores S.**, "IAEA Safety Report on Accident Analysis for Nuclear Power Plants", Invited at OECD/CSNI Workshop on Advanced Thermal-Hydraulic and Neutronic Codes: Current and Future Applications - Barcelona (Sp), Apr. 10-13, 2000
- [400] **2000 – Magliolo P., Beghini M., D'Auria F., Morasso R.**, "Methodology for stress-strain state evaluation in the WWER RPV in case of PTS", Invited at Int. Conf. on the Occasion of the 30th Anniversary of Energoproekt in Nuclear Technology - Varna (Bg), May 31 - June 2, 2000
- [401] **2000 – Ferri R., Cattadori G., D'Auria F., Galassi G.M., Bianchi F., Meloni P.**, "Cold Leg intermediate break experiment in Spes facility and post-test calculations with Relap5/Mod3.2 code", 38th European Two Phase Flow Group Meeting - Karlsruhe (G), May 29-31, 2000
- [402] **2000 – D'Auria F., Gago J.L., Galassi G.M.**, "TMI-1 PWR MSLB Benchmark coupled 3-D neutronics / thermal-hydraulics analysis: planning and results", 18th Conf. of Italian Society of Heat Transport, Cernobbio (I), June 28-30, 2000
- [403] **2000 – Magliolo P., D'Auria F., Vigni P.**, "3-D Noding of reactor pressure vessel down-comer suitable for CFD codes", 18th Conf. of Italian Society of Heat Transport, Cernobbio (I), June 28-30, 2000
- [404] **2000 – Mori M., D'Auria F., de Kruijf W.J.M., van der Hagen T.H.J.J.**, "Determination of BWR stability characteristics from numerically obtained system responses", Int. Conf. Nuclear Option in Countries with Small and Medium Electricity Grids, Dubrovnik (Hr), June 19-22, 2000
- [405] **2000 – Ferri M.G., D'Auria F., Forasassi G., Giot M.**, "A pilot application of Relap code to the steady state and transient analysis of a test section inside the BR2 reactor ", Int. Conf. Nuclear Option in Countries with Small and Medium Electricity Grids, Dubrovnik (Hr), June 19-22, 2000
- [406] **2000 – D'Auria F., Mavko B., Prosek A., Debrecin N., Bajs T.**, "Outcomes from the regional Co-operation in the area of the safety analysis Methodology", Int. Conf. Nuclear Option in Countries with Small and Medium Electricity Grids, Dubrovnik (Hr), June 19-22, 2000
- [407] **2000 – D'Auria F., Galassi G.M.**, "Application of Relap5 to the analysis of Large Scale integral experiments", Int. Conf. Nuclear Option in Countries with Small and Medium Electricity Grids, Dubrovnik (Hr), June 19-22, 2000
- [408] **2000 – D'Auria F., Frogheri M.**, "Natural Circulation Limits achievable in a PWR", IAEA Technical Committee Meet. (TCM) on Natural Circulation Data and Methods for Innovative Nuclear Power Plant Design – Vienna (A) July 18-21, 2000, [J. Nuklearna Tehnologija – Biblid 0351-689X, 15, 1-2, 2000 pages 12-23](#)
- [409] **2000 – Tuunanan J., Vihavainen J., D'Auria F., Frogheri M., Galassi G.M., Kimber G., Lillington J., Allen E., Williams T.G.**, "Analyses of PACTEL passive safety injection experiments with APROS, CATHARE and RELAP5 codes", [J. Nuclear Engineering & Design, Vol 198, pages 261-273, 2000](#)
- [410] **2000 – D'Auria F., Galassi G.M., Bianchi F., Meloni P., Ferri R., Cattadori G.**, "SPES-99 IBLOCA analysis with the RELAP5 Mod3.2 code", 7th Regional Meet. Nuclear Energy in Central Europe, Bled (SLO), Sept. 11-14, 2000
- [411] **2000 – D'Auria F., Gago J.L., Galassi G.M.**, "TMI-1 MSLB coupled 3-D Neutronics/Thermalhydraulics analysis: planning and results", University of Pisa Report, DIMNP - NT 398(00)-rev.1, Pisa (I), Jan. 2000, OECD/CSNI NSC & PWG-2 Fourth Workshop on Pressurized Water Reactor Main Steam Line Benchmark – Paris (F), Jan 24-25, 2000
- [412] **2000 – D'Auria F., Giannotti W.**, "Development of Code with capability of Internal Assessment of Uncertainty", CAMP Meeting, Bariloche (Arg), April 26, 1999 (invited paper), Relap5 Int. Users Seminar, Park City (Utah, USA), July 28-30, 1999, [J. Nuclear Technology, Vol 131, No. 1, pages 159-196, Aug. 2000](#)
- [413] **2000 – D'Auria F., Galassi G.M.**, "SPES-99 IBLOCA: Relap5/mod3.2 pre-test and post test analyses", University of Pisa Report, DIMNP - NT 413(00), Pisa (I), May 2000

- [414] **2000 – D'Auria F., Galassi G.M.**, "Methodology for the evaluation of the reliability of passive systems", University of Pisa Report, DIMNP - NT 420(00)-rev. 1, Pisa (I), Oct. 2000
- [415] **2000 – D'Auria F., Gago J.L., Galassi G.M., Grgic D., Spadoni A.**, "TMI-1 MSLB coupled 3-D Neutronics/Thermalhydraulics analysis: application of Relap-3D and comparison with different codes", University of Pisa Report, DIMNP - NT 423(00)-rev.1, Pisa (I), Nov. 2000, submitted to INEEL (US), Int. Cooperation between Universities of Pisa and Zagreb (Croatia)
- [416] **2000 – Borges R.C., D'Auria F., Alvim A.C.**, "RELAP5/MOD3.2 post-test simulation and accuracy quantification of LOBI test A1-93", RELAP5 International Users Seminar, Jackson Hole (Wy, US), Sept. 12-14, 2000
- [417] **2000 – D'Auria F., Giannotti W.**, "Present Status of the CIAU (Code with capability of Internal Assessment of Uncertainty) and application possibilities in the licensing process", XII Brazilian Meet. on Reactor Physics and Thermal-hydraulics (ENFIR), Rio de Janeiro (Br), Oct. 11-15, 2000
- [418] **2000 – Galetti M. R., D'Auria F.**, "Questions arising from the application of Best-Estimate Methods to the Angra-2 NPP Licensing Process in Brazil", Int. Meet. on Best-Estimate Methods in Nuclear Installation Safety Analysis (BE-2000) IX, Washington D.C. (US), Nov. 10-13, 2000
- [419] **2000 – D'Auria F., Mavko B., Prosek A.**, "Fast Fourier Transform based method for quantitative assessment of code predictions of experimental data", Int. Meet. on Best-Estimate Methods in Nuclear Installation Safety Analysis (BE-2000) IX, Washington D.C. (US), Nov. 10-13, 2000
- [420] **2000 – Glaeser H., Chojnacki E., D'Auria F., Lage C., Wickett T.**, "OECD/CSNI Uncertainty method study for Best-Estimate analysis", Int. Meet. on Best-Estimate Methods in Nuclear Installation Safety Analysis (BE-2000) IX, Washington D.C. (US), Nov. 10-13, 2000
- [421] **2000 – D'Auria F., Giannotti W.**, "Development and use of a Code with capability of Internal Assessment of Uncertainty", Int. Meet. on Best-Estimate Methods in Nuclear Installation Safety Analysis (BE-2000) IX, Washington D.C. (US), Nov. 10-13, 2000
- [422] **2000 – Aksan N., D'Auria F., Debrecin N., Bajs T., Eltawila F., Glaeser H., Mavko B., Pochard R.**, "International Training program for thermal-hydraulic system code users", Int. Meet. on Best-Estimate Methods in Nuclear Installation Safety Analysis (BE-2000) IX, Washington D.C. (US), Nov. 10-13, 2000
- [423] **2000 – D'Auria F.**, Author's Reply to Comments by P. Ingham et al. on "Code Validation and Uncertainties in System Thermal-hydraulics", *J. Progress in Nuclear Energy*, Vol. 36, No. 2, p. 235, 2000
- [424] **2001 – Petrucci A., D'Auria F., Misale M.**, "Sensitivity analysis on the stability of the natural circulation in a thermosiphon loop", ANS/HPS Student Conference – Texas A&M University, March 29-31, 2001
- [425] **2001 – Tarantino M., D'Auria F., Galassi G.M.**, "Simulation of a large break LOCA on VVER-1000 NPP by Relap5/mod3.2 code", ANS/HPS Student Conference – Texas A&M University, College Park (TX, USA), March 29-31, 2001
- [426] **2001 – Pennati A., Ambrosini W., D'Auria F., Ferreri J.C.**, "Sensitivity analysis on the prediction of single phase natural circulation stability", ANS/HPS Student Conference – Texas A&M University, College Park (TX, USA), March 29-31, 2001
- [427] **2001 – Spadoni A., D'Auria F., Galassi G.M., Hassan Y.**, "Application of Relap5-3D© to 3-D neutronics / thermal-hydraulics coupled analysis of TMI-1 MSLB and comparison with Relap5/Parcs", ANS/HPS Student Conference – Texas A&M University, College Park (TX, USA), March 29-31, 2001
- [428] **2001 – Bousbia Salah A., Lo Nigro A., Petrucci A., Piagentini A., Spadoni A., D'Auria F.**, "Nuclear Energy and sustainable Development", Conference 'E. Fermi and Nuclear Energy', Pisa (I), Oct. 15-16, 2001
- [429] **2001 – D'Auria F., Piagentini A.**, "Qualification of the CIAU (Code with Capability of Internal Assessment of Uncertainty) methodology using the set QUM + TUV N° 2", ASME/JSME Int. Conf. on Nuclear Engineering (ICON-9) - Nice (F), April 8-12, 2001(°)
- [430] **2001 – Zanocco P., D'Auria F., Galassi G.M.**, "Post-test sensitivity analysis of OECD/CSNI ISP 42 Panda experiment by Relap 5 code", ASME/JSME Int. Conf. on Nuclear Engineering (ICON-9) - Nice (F), April 8-12, 2001

- [431] **2001 – Aksan N., Bonato S., D’Auria F.**, "Accuracy quantification by the FFT method in the ISP 42 Panda test", ASME/JSME Int. Conf. on Nuclear Engineering (ICON-E-9) - Nice (F), April 8-12, 2001
- [432] **2001 – D’Auria F., Galassi G.M., Spadoni A., Hassan Y.**, "Application of the Relap5-3D© to phase 1 and 3 of the OECD/CSNI/NSC PWR MSLB Benchmark related to TMI-1", ASME/JSME Int. Conf. on Nuclear Engineering (ICON-E-9) - Nice (F), April 8-12, 2001
- [433] **2001 – Lo Nigro A., Frogheri M., Saiu G., D’Auria F.**, "Long Term Core cooling in large PWR passive plants", 19th Conf. of Italian Society of Heat Transport, Modena (I), June 25-27, 2001
- [434] **2001 – D’Auria F., Galassi G.M.**, "Best Estimate Analysis and Uncertainty evaluation of the Angra-2 LBLOCA DBA", University of Pisa Report, DIMNP - NT 433(01), Pisa (I)-rev.1, July 2001, Submitted to CNEN, Rio de Janeiro (Brasil)
- [435] **2001 – D’Auria F., Galassi G.M., Giannotti W.**, "Confirmatory Safety Analyses carried out by Relap5 and Cathare codes related to the Kozloduy VVER 440/230 unit No. 3", University of Pisa Report, DIMNP - NT 440(01), Pisa (I)-rev.1, Nov. 2001, Submitted to NPP Kozloduy, Kozloduy (Bulgaria)
- [436] **2001 – Petrucci A., D’Auria F., Galassi G.M.**, "Analysis of OECD/CSNI ISP-42 Panda Experiment by Relap5/mod3.2 Code", University of Pisa Report, DIMNP - NT 451(01), Pisa (I), Oct. 2001, OECD/CSNI Final Workshop on ISP 42, Villingen (CH) Nov. 19-21, 2001
- [437] **2001 – Galetti M.R., D’Auria F.**, "Angra-2 NPP large break loss of coolant accident sensitivity study", 19th Conf. of Italian Society of Heat Transport, Modena (I), June 25-27, 2001
- [438] **2001 – Petrucci A., D’Auria F., Misale M.**, "Sensitivity analysis on the instability of the natural circulation in a thermosiphon loop", 19th Conf. of Italian Society of Heat Transport, Modena (I), June 25-27, 2001 (^^)
- [439] **2001 – Piagentini A., D’Auria F., Borges R.**, "Basic extrapolation processes in UMAE and CIAU uncertainty methodology", 19th Conf. of Italian Society of Heat Transport, Modena (I), June 25-27, 2001
- [440] **2001 – Ambrosini W., D’Auria F., Pennati A., Ferreri J.C.**, "Numerical effects in the prediction of single phase natural circulation stability", 19th Conf. of Italian Society of Heat Transport, Modena (I), June 25-27, 2001
- [441] **2001 – Magliolo P., D’Auria F., Vigni P.**, "Evaluation of PTS in pressure vessel by thermal-hydraulics, CFD and structural mechanics coupled codes", 19th Conf. of Italian Society of Heat Transport, Modena (I), June 25-27, 2001
- [442] **2001 – Aksan N., D’Auria F., Groeneveld D., Kirillov P., Saha D., Badulescu A., Cleveland J. (Lead Authors)**, "Thermo-hydraulic Relationships for Advanced Water Cooled Reactors", IAEA Tecdoc 1203, Vienna (A), April 2001, ISSN 1011-4289, pages 1-344
- [443] **2001 – D’Auria F. (Contributor)**, "Validation Matrix for the assessment of Thermal-Hydraulic codes for VVER LOCA and Transient", NEA/OECD Report NEA/CSNI/R(2001)4, JT00108841, Paris (F), June 2001
- [444] **2001 – Spadoni A., D’Auria F., Hassan Y.**, "Application of Relap5-3D© and Relap5/mod3.2.2 to Phase I of OECD PWR MSLB Benchmark", 2001 ANS Annual Meet., Milwaukee (Wi, US), June 17-21, 2001, ANS Trans., Vol. 84, TANSAO 84 (2001), pp 21-23 - ISSN 0003-018X
- [445] **2001 – Modro M., Wermill J., Blinkov V., Hassan Y., D’Auria, F.**, "Insights and Highlights from Embedded Topical Meeting International Meeting on Best Estimate Methods in Nuclear Installation Safety Analysis", presented at the panel at 2001 ANS Annual Meeting, Milwaukee (Wi, US), June 17-21, 2001, ANS Trans., Vol. 84, TANSAO 84 (2001), pp 249-251 - ISSN 0003-018X
- [446] **2001 – D’Auria F., Gago J.L., Galassi G.M., Grgic D., Spadoni A.**, "TMI-1 Benchmark performed by different coupled three-dimensional neutronics thermal-hydraulics codes", 2001 ANS Annual Meet., Milwaukee (Wi, US), June 17-21, 2001, ANS Trans., Vol. 84, TANSAO 84 (2001) - ISSN 0003-018X
- [447] **2001 – D’Auria F., Galassi G. M., Giannotti W., Stanev I.**, "Kozloduy 3 NPP large break loss of coolant accident sensitivity study", Int. Meet. Nuclear Power in Eastern Europe: Safety, European Integration, Free Electricity Market, with the Tenth Annual Conf. of The Bulgarian Nuclear Society, Varna (Bg) June 17-20, 2001
- [448] **2001 – Borges R., D’Auria F., Alvim A.C.M.**, "Relap5/Mod3.2 post-test simulation and accuracy

quantification of LOBI test BT-02", Fifth World Conf. Experimental Heat Transfer, Fluid Mechanics and Thermodynamics, Thessaloniki (Gr), Sept. 24-28, 2001 – ISBN 88-467-0459-2

- [449] **2001 – D'Auria F., Fischer K., Mavko B., Sartmandjiev A. (Lead Authors)**, "Validation of Accident and Safety Analysis Methodology", IAEA Report CRP/J.020.03, Vienna (A), June 2001
- [450] **2001 – Lo Nigro A., Spadoni A., D'Auria F., Saiu G.**, "MSLB coupled 3D neutronics-Thermal-hydraulic analysis of a large PWR using Relap5-3D©", Int. Conf. Nuclear Energy in Central Europe, Portoroz (Slo), Sept. 10-13, 2001
- [451] **2001 – Bianchi F., Burgazzi L., D'Auria F., Galassi G.M., Ricotti M.E., Oriani L.**, "Evaluation of the reliability of a passive system", Int. Conf. Nuclear Energy in Central Europe, Portoroz (Slo), Sept. 10-13, 2001
- [452] **2001 – Bovalini R., D'Auria F., Galassi G.M., Spadoni A., Hassan Y.**, "TMI-1 MSLB coupled 3D neutronics-Thermal-hydraulic analysis: application of Relap5-3D© and comparison with different codes", Relap5 International Users Seminar, Sun Valley (ID), Sept. 5-7, 2001
- [453] **2001 – D'Auria F.**, "The role of the experimental database in the validation of thermal-hydraulic system codes", Invited at FLUIDOS 2001 – VII Int. Sem. on Recent Advances in Fluid Mechanics, Physics of Fluid and Associated Complex Systems, Buenos Aires (Arg) Oct. 17-19, 2001
- [454] **2001 – Zanocco P., Gimenez M., Delmastro D., D'Auria F.**, "Self-pressurization behaviour in integrated reactors", FLUIDOS 2001 – VII Int. Sem. on Recent Advances in Fluid Mechanics, Physics of Fluid and Associated Complex Systems, Buenos Aires (Arg) Oct. 17-19, 2001
- [455] **2001 – Addabbo C., Annunziato A., Aksan N., D'Auria F., Galassi G.M., Dumont D., Gaul H.P., Umminger K., Nilsson L., Riikonen V., Rigamonti M., Steinhoff F., Toth I.**, "Maintenance of European LWR Integral system tests Thermal-Hydraulic databases", European Commission Report, CERTA/SC/D6 EUR 19937 EN, October 2001
- [456] **2001 – Addabbo C., Annunziato A., Aksan N., D'Auria F., Galassi G.M., Dumont D., Nilsson L., Rigamonti M., Riikonen V., Steinhoff F., Toth I., Umminger K.**, "European Network for the Consolidation of the Integral System Test Experimental Databases for Reactor Thermal-hydraulic Safety Analysis (CERTA)", Invited at FISA-2001 Conf. on EU Research in Reactor Safety - Luxembourg (L), Nov. 12-14, 2001 – EUR 20281, ISBN 92 894-3455-4
- [457] **2001 – Bestion D., Paillere H., Latrobe A., LaPorta A., Teschendorff V., Staedtke H., Aksan N., D'Auria F., Viavainen J., Meloni P., Hewitt G., Lillington J., Prosek A., Mavko B., Macek J., Malacka M., Camous F., Fichot F., Monhardt D.**, "European Project for Future Advances in Sciences and Technology for Nuclear Engineering Thermal-hydraulics (EUROFASTNET – 2001 activity)", Invited at FISA-2001 Conf. on EU Research in Reactor Safety - Luxembourg (L), Nov. 12-14, 2001 – EUR 20281, ISBN 92 894-3455-4
- [458] **2001 – De Magistris F., Marques M., D'Auria F., Burgazzi L., Muller C., Cojazzi G., Pelletier J-L., La Lumia V.**, "Reliability Methods for Passive Safety functions (RMPS)", Invited at FISA-2001 Conf. on EU Research in Reactor Safety - Luxembourg (L), Nov. 12-14, 2001 – EUR 20281, ISBN 92 894-3455-4
- [459] **2001 – Stanev I., D'Auria F.**, "Analysis of LOCA D=200 mm for Kozloduy – Units 3&4 with Relap5/mod3.2 and Cathare codes. Evaluation of the results uncertainty", IAEA TCM on Safety Margins of Operating Reactors and Implications for Decisions Makers including consideration of Uncertainties of Analysis, Vienna (A), Oct. 15-19 2001 – IAEA TECDOC No 1332, Jan. 2003 – ISBN 92-0-118102-7, ISSN 1011-4289, pages 107-125
- [460] **2001 – Borges R.C., D'Auria F., Alvim A.C.M.**, "Independent qualification of the CIAU tool based on the uncertainty estimate in the prediction of the LOBI test A1-93", J. Kerntechnik, Vol 66 4, pp 161-170, 2001
- [461] **2001 – D'Auria F., Galassi G.M., Giannotti W.**, "Transient analyses carried out by Relap5 code related to the Metzamor VVER 440/270 unit 2", University of Pisa Report, DIMNP - NT 447(01), Pisa (I)-rev.0, Oct. 2001, submitted to SOGIN SPA, Roma (I)
- [462] **2001 – Bestion D., Paillere H., Latrobe A., Laporta A., Teschendorff V., Staedtke H., Aksan N., D'Auria F., Viavainen J., Meloni P., Hewitt G., Lillington J., Prosek A., Mavko B., Macek J., Malacka M., Camous F., Fichot F., Monhardt D.**, "Deliverable 1 of EUROFASTNET Project: Review of Industrial Needs", CEA Report, DTP/SMTH/LMDS/2002-006, December 2001, Grenoble (F)
- [463] **2001 – D'Auria F.**, "Nuclear Energy and sustainable Development" Conferencia pronunciada por el Dr. F.

D'Auria el 22 de octubre en la Academia Nacional de Ciencias de Buenos Aires, acto organizado por el Instituto de Estudios Interdisciplinarios en Ciencia y Tecnología, Anales dela Academia Nacional de Ciencias de Buenos Aires – Tomo XXXV (1) – Año 2001, pages 277-316, ISBN Vol 1 987-537-020-7(§)

- [464] **2001 – Bousbia Salah A., D'Auria F.**, "Sub-channel analysis of a boil-off experiment by a system thermal-hydraulic code", **J. Heat and Technology**, Vol. 19, No 1, 2001, pages 60-69, ISSN 0392-8764
- [465] **2002 – Petruzz A., D'Auria F., Misale M.**, "Single phase natural circulation in a Rectangular Loop in Micro-gravity condition", Space Technology and Application International Forum – STAIF 2002 Albuquerque (NM, USA) Feb. 4-7, 2002 – © American Institute of Physics 0-7354-0052-0/02/
- [466] **2002 – Bianchi F., Burgazzi L., D'Auria F., Ricotti M.E.**, "The REPAS approach to the evaluation of passive safety system reliability", NEA CSNI WGRISK Workshop on 'Passive system Reliability', Cadarache (F), 4-6 March 2002 – NEA/CSNI Report R(2002)10 – JT001128918, pages 133-148
- [467] **2002 – Ricotti M.E., Zio E., D'Auria F., Caruso G.**, "Reliability methods for passive system (RMPS) study – strategy and results", NEA CSNI WGRISK Workshop on 'Passive system Reliability', Cadarache (F), 4-6 March 2002 – NEA/CSNI Report R(2002)10 – JT001128918, pages 149-166
- [468] **2002 – Bousbia Salah A., D'Auria F.**, "Analysis of the Peach Bottom – unit 2 BWR Turbine trip experiment by Relap5/3.2 code", 57th ATI (Associazione Termotecnica Italiana) Conference, Pisa (I) Sept. 17-20, 2002, **J. Nuclear Technology & Radiation Protection**, (formerly **J. Nuklearna Tehnologija**) – Biblid (YU ISSN) 1451-3994 Vol. 17 (Vol. XVII, No. 1-2, pp. 1-82, December 2002, UDC 621.039+614.876:504.06), No 1-2, 2002, pages 44-49
- [469] **2002 – D'Auria F., Galassi G.M., D. Mazzini, A. Spadoni**, "Overview of system transient analyses related to WWER-1000 and WWER-440 performed at University of Pisa", INSC FORUM-6, Kyiv (Ukr), April 8-12, 2002
- [470] **2002 – Marques M., D'Auria F., Cojazzi G., Pignatello J.F., Burgazzi L., Muller C., La Lumia V.**, "Reliability methods for passive safety functions", ASME-JSME Int. Conf. on Nuclear Engineering (ICON-E-10) - Arlington (VA, USA), April 14-18 2002 (ICON-E-10-22274), CD Proceedings Copyright © 2002 by ASME
- [471] **2002 – Ricotti M.E., Bianchi F., Burgazzi L., D'Auria F., Galassi G.M.**, "The REPAS study: Reliability evaluation of passive safety systems", ASME-JSME Int. Conf. on Nuclear Engineering (ICON-E-10) - Arlington (VA, USA), April 14-18 2002 (ICON-E-10-22414), CD Proceedings Copyright © 2002 by ASME
- [472] **2002 – Borges R.C., D'Auria F., Alvim A.C.M.**, "Independent qualification of the CIAU tool based on the uncertainty estimate in the prediction of Angra 1 NPP inadvertent load rejection transient", ASME-JSME Int. Conf. on Nuclear Engineering (ICON-E-10) - Arlington (VA, USA), April 14-18 2002 (ICON-E-10-22135), CD Proceedings Copyright © 2002 by ASME
- [473] **2002 – Fil N., D'Auria F., Hicken E., Vihavainen J., Kendall J., Kim Y.E., Cleveland J. (Lead Authors)**, "Natural circulation data and methods for advanced water cooled nuclear power plants designs", **IAEA Tecdoc 1281, Vienna (A), April 2002, ISSN 1011-4289 © IAEA 2002**
- [474] **2002 – Jafari J., Maggini F., D'Auria F., Kazeminejad H., Davilu H.**, "Conceptual design of a natural circulation loop assisted by a system code", 4th Int. Conf. Nuclear Option in Countries with small and medium Electricity Grids - Dubrovnik (Hr), June 16-20, 2002
- [475] **2002 – Prosek A., Mavko B., D'Auria F.**, "Results of FFTBM applications", 4th Int. Conf. Nuclear Option in Countries with small and medium Electricity Grids - Dubrovnik (Hr), June 16-20, 2002
- [476] **2002 – Madeira A., D'Auria F., Galassi G.M., Alvim A.C.M.**, "Application of Relap5/mod3 to the evaluation of total loss of feed-water in Angra 2 NPP", 4th Int. Conf. Nuclear Option in Countries with small and medium Electricity Grids - Dubrovnik (Hr), June 16-20, 2002
- [477] **2002 – D'Auria F., Frogheri M., Misale M. (Guest Editors)**, "NED Journal Special Issue devoted to the Eurotherm Seminar No 63 <Single and Two-phase Natural Circulation>", **J. Nuclear Engineering and Design**, Vol 215, Nrs 1&2, pages 1-170 (the entire issue), 2002 ISSN 0029-5493
- [478] **2002 – D'Auria F.**, "Introduction", **J. Nuclear Engineering and Design**, Vol 215, Nrs 1&2, pages vii-ix, 2002 ISSN 0029-5493
- [479] **2002 – D'Auria F., Frogheri M.**, "Use of Natural circulation map for assessing PWR performance", **J.**

- [480] **2002 – Vedovi J., Bousbia Salah A., D'Auria F., Galassi G.M.**, "Analysis of the Peach Bottom 2 BWR Turbine Trip experiment by coupled Relap5/mod3.3 Parcs V2.2 Code", University of Pisa Report, DIMNP - NT 478(01), Pisa (I), Oct. 2002, Submitted to Penn State University (USA) for issuing the comparison report of the OECD/NEA BWRtt Benchmark
- [481] **2002 – Mazzini D., D'Auria F., Vigni P.**, "Computational Study on turbulent heat transfer in a rectangular channel", 20th Conf. of Italian Society of Heat Transport, Maratea (I), June 27-29, 2002, pages 463-468
- [482] **2002 – Mazzini D., D'Auria F., Beghini M., Vigni P.**, "Modelling of Thermal-Hydraulic Loads of WWER-1000 RPV and Structural Integrity Assessment", International Nuclear Forum <Nuclear Energy in Eastern Europe: Options, Challenges and Future>, Bulatom and Bulgarian Nuclear Society, Varna (BG) June 28-30, 2002 (CD Proceedings)
- [483] **2002 – Prosek A., D'Auria F., Mavko B.**, "Review of Quantitative accuracy assessment with Fast Fourier Transform Based Method (FFTBM)", *J. Nuclear Engineering & Design*, Vol 217, Nrs 1&2, pages 179-206, 2002 ISSN 0029-5493
- [484] **2002 – Mazzini D., D'Auria F., Beghini M., Vigni P.**, "Procedure for Fracture Mechanics Analysis of WWER-1000 RPV in PTS Events", International Nuclear Atlantic Conference (INAC 2002, also XIII ENFIR), Rio de Janeiro (Br), Aug. 11-16, 2002
- [485] **2002 – Borges R.C., D'Auria F., Alvim A.C.M.**, "Qualification and application of a code with capability of internal assessment of uncertainty" (in Portuguese), International Nuclear Atlantic Conference (INAC 2002, also XIII ENFIR), Rio de Janeiro (Br), Aug. 11-16, 2002
- [486] **2002 – Spadoni A., D'Auria F., Galassi G.M., Hassan Y.**, "Capability of coupled 3-D neutronics/thermal-hydraulic models to simulate spatial-time effects", International Nuclear Atlantic Conference (INAC 2002, also XIII ENFIR), Rio de Janeiro (Br), Aug. 11-16, 2002
- [487] **2002 – Souza Dutre A., Sbragio R., D'Auria F.**, "Analysis of depressurization in an experimental containment installation using Relap5 code", International Nuclear Atlantic Conference (INAC 2002, also XIII ENFIR), Rio de Janeiro (Br), Aug. 11-16, 2002
- [488] **2002 – Jafari J., D'Auria F., Kazeminejad H., Davilu H.**, "Analysis of natural circulation performance of the designed thermo-hydraulic test loop", Int. Conf. Nuclear Energy for New Europe 2002 – Kranjska Gora (Slovenia) Sept. 9-12, 2002, pages 0208.1-8, ISBN 961-6207-20-2
- [489] **2002 – Lo Nigro A., D'Auria F.**, "Participation to the OECD/DOE VVER-1000 coolant transient benchmark (V1000-CT): preliminary results", Int. Conf. Nuclear Energy for New Europe 2002 – Kranjska Gora (Slovenia) Sept. 9-12, 2002, pages 0401.1-8, ISBN 961-6207-20-2
- [490] **2002 – Bousbia Salah A., D'Auria F.**, "Analysis of the Peach Bottom 2 BWR Turbine Trip experiment by Relap5/3.2 code", 57th Conf. Italian Thermo-technic Association (ATI), Pisa (I), Sept. 17-20, 2002
- [491] **2002 – Addabbo C., Annunziato A., Aksan N., D'Auria F., Galassi G.M., Dumont D., Hofman D., Umminger K., Nilsson L., Riikonen V., Rigamonti M., Steinhoff F., Toth I.**, "Requirements for Storage and Retrieval of experimental data for the assessment of LWR Safety Codes", European Commission Report, CERTA/SC/D7 EUR 20413 EN, June 2002
- [492] **2002 – Addabbo C., Annunziato A., Aksan N., D'Auria F., Galassi G.M., Dumont D., Gaul H.P., Umminger K., Nilsson L., Hofmann D., Riikonen V., Rigamonti M., Steinhoff F., Guba A., Toth I.**, "Development and Establishment of the CERTA Network Database", European Commission Report, CERTA/SC/D8 EUR 20421 EN, September 2002
- [493] **2002 – Moretti F., Mazzini D., D'Auria F.**, "Application of TRIO-U Code to the analysis of stationary Flows in a circular pipe", IAEA OECD/NEA TM on Use of Computational Fluid-dynamics (CFD) codes for Safety Analysis of Reactor Systems, including Containment, Pisa (I), Nov. 11-13 2002
- [494] **2002 – Mazzini D., Vigni P., Araneo D., D'Auria F.**, "Study of turbulent heat transfer in a rectangular channel by TRIO-U code", IAEA OECD/NEA TM on Use of Computational Fluid-dynamics (CFD) codes for Safety Analysis of Reactor Systems, including Containment, Pisa (I), Nov. 11-13 2002
- [495] **2002 – Allison C., Balabanov E., D'Auria F., Jankowski M., Misak J., Salvatores S., Snell V.**, "Accident

Analysis for Nuclear Power Plants”, IAEA Safety Reports Series (SRS) No 23, pp 1-121, ISSN 1020-6450; ISBN 92-0-115602-2, Vienna (A), 2002

- [496] **2002 – Petrucci A., D'Auria F., Galassi G.M.**, "Analysis of the OECD/CSNI ISP 42 PANDA integral test facility by the Relap5/mod3.2.2 code", *J. Kerntechnik*, Vol 67, 5-6, pp 242-248, 2002
- [497] **2002 – Jafari J., D'Auria F., Kazeminejad H., Davilu H.**, "Code based design and stability analysis of a low pressure two-phase natural circulation test loop", *J. Heat and Technology*, Vol. 20, No 2, 2002, pp 87-95, ISSN 0392-8764
- [498] **2003 – D'Auria F., Galassi G. M., Giannotti W.**, "Transient analyses of the LOBI BL-44 test carried out by the code Cathare 2 v1.5A mod8.1 rev.6", University of Pisa Report, DIMNP –NT 491(03)-rev.2, Pisa (I), Feb. 2003
- [499] **2003 – D'Auria F., Galassi G. M., Giannotti W.**, "Transient analyses of the LOBI BT-12 test carried out by the code Cathare 2 v1.5A mod8.1 rev.6", *CEA Report, DTP/SMT/LMDS/EM*, Grenoble (F), Sept. 2003
- [500] **2003 – D'Auria F., Galassi G. M., Giannotti W.**, "Post-test analysis by Relap5mod3.3 β of VVER-440 bubble condenser tests 01 to 05 performed in BC V-213 facility", University of Pisa Report, DIMNP – NT 509(03), Pisa (I), July 2003, Submitted to APAT, Roma (I)
- [501] **2003 – Bousbia Salah A., D'Auria F.**, "Analysis of extreme scenarios and sensitive cases of the Peach Bottom 2 BWR Turbine Trip by coupled Relap5/Parcs", University of Pisa Report, DIMNP –NT 500(03), Pisa (I), March 2003
- [502] **2003 – Manfredini A., Giannotti W., Del Nevo A., Santoro R., D'Auria F.**, "Application of the Melcor 1.8.5 code to the analysis of severe accident scenarios for a VVER-1000/320 NPP analogous to Temelin", University of Pisa Report, DIMNP – NT 510(03)-rev.1, Pisa (I), Oct. 2003, Submitted to IRR/ARCS, Vienna (A)
- [503] **2003 – D'Auria F., Gago J.L., Galassi G.M., Grgic D., Spadoni A.**, "Three Mile Island Unit 1 Main Steam Line Break three dimensional neutronics/thermal-hydraulics Analysis: application of different coupled codes", *J. Nuclear Technology*, Vol 142, No. 1, pages 180-204 – May 2003
- [504] **2003 – Mazzini D., Araneo D., Beghini M., D'Auria F.**, "Fracture Mechanics analysis of VVER-1000 RPV in PTS event", Gidropress Int. Conference on VVER technology – Podolsk (Ru) May 26-30, 2003 – Tom 6, pp 12-21, ISBN 5-94883-027-6
- [505] **2003 – Vedovi J., D'Auria F., Parisi C.**, "Analysis of MSLB accident in VVER-1000 with coupling between 3-dimensional neutron kinetics and thermal-hydraulics", Gidropress Int. Conference on VVER technology – Podolsk (Ru), May 26-30, 2003 – Tom 6, pp 22-46, ISBN 5-94883-027-6
- [506] **2003 – Petrucci A., Ivanov K., D'Auria F., Giannotti W.**, "Methodology for internal assessment of uncertainty for safety analysis code", ANS Int. Conference ‘Nuclear Mathematical and Computational Sciences: A century in Review, a Century Anew’ – Gatlinburg (TN, USA), April 6-11, 2003
- [507] **2003 – Di Maro B., Pierro F., Bousbia Salah A., D'Auria F.**, "Analysis of a pump trip in a typical research reactor by Relap5/mod3.3", ICAPP '03, Cordoba (E), May 4-7, 2003, ISBN 0-89448-675-6, ANS © 2003
- [508] **2003 – Bousbia Salah A., Vedovi J., D'Auria F.**, "Analysis of the Peach Bottom turbine trip experiment by coupled Relap5-Parcs 3D codes", ICAPP '03, Cordoba (E), May 4-7, 2003, ISBN 0-89448-675-6, ANS © 2003
- [509] **2003 – Mazzini D., Araneo D., Beghini M., D'Auria F.**, "Fracture mechanics analysis of generic VVER-1000 RPV in PTS event", ICAPP '03, Cordoba (E), May 4-7, 2003, ISBN 0-89448-675-6, ANS © 2003
- [510] **2003 – Mousavian S. K., D'Auria F., Salehi M.**, "Evaluation of natural circulation phenomena in VVER-1000 geometry", ICAPP '03, Cordoba (E), May 4-7, 2003, ISBN 0-89448-675-6, ANS © 2003
- [511] **2003 – Borges R. C., D'Auria F., Alvim A. C. M.**, "Independent qualification of the CIAU based on the uncertainty estimate through the simulation of Lobi test BT-02", *J. Kerntechnik*, Vol 68, 1-2, pp 7-16, 2003
- [512] **2003 – Mousavian S. K., D'Auria F., Salehi M.**, "Investigation of natural circulation phenomena in VVER-1000 reactors", ASME-JSME Int. Conf. on Nuclear Engineering (ICON-E11) - Tokyo (J) April 20-23, 2003 (ICON-E11-36229)

- [513] **2003 – Addabbo C., Annunziato A., Aksan N., D'Auria F., Galassi G.M., Dumont D., Umminger K., Gaul H.P., Nilsson L., Hofman D., Purhonen H., Riikonen V., Rigamonti M., Steinhoff F., Guba A., Toth I.**, "CERTA-TN, Consolidation of integral system experimental databases for reactor thermal-hydraulic safety analyses", European Commission Report, CERTA/SC/D7 EUR 20543 EN, 2003
- [514] **2003 – Mazzini D., Araneo D., D'Auria F., Vigni P.**, "Coupled thermal-hydraulic and fracture mechanics analyses for a WWER-1000 RPV", 21st Conf. of Italian Society of Heat Transport, Udine (I), June 23-25, 2003, pages 529-535
- [515] **2003 – Caruso G., D'Auria F.**, "A sensitivity study on the performance of a passive system", 21st Conf. of Italian Society of Heat Transport, Udine (I), June 23-25, 2003, pages 537-544
- [516] **2003 – Giannotti W., Santoro R., D'Auria F., Rilli A.**, "Confinement nodalisation of WWER 440/270 NPP for the Relap5 Code", 21st Conf. of Italian Society of Heat Transport, Udine (I), June 23-25, 2003, pages 509-515
- [517] **2003 – Mazzini D., D'Auria F., Beghini M., Vigni P.**, "Modelling of Thermal-Hydraulic Induced Loads of WWER-1000 RPV and Structural Integrity Assessment", 21st Conf. of Italian Society of Heat Transport, Udine (I), June 23-25, 2003, pages 536-541
- [518] **2003 – Ferreri J.C., D'Auria F.**, "Foreword to Special Issue devoted to the 'VII International Seminar on Fluid Mechanics, Physics of Fluids and Related Complex Systems'", *J. Heat and Technology*, Vol. 21, n. 1-2003, pp 1-2, ISSN 0392-8764, DOI: 10.18280/ijht210101
- [519] **2003 – D'Auria F.**, "The role of Experimental database in the validation of thermal-hydraulic system codes", *J. Heat and Technology*, Vol. 21, n. 1-2003, pages 21-30, ISSN 0392-8764 (✉)
- [520] **2003 – Zanocco P., Gimenez M., Delmastro D., D'Auria F.**, "Self-pressurization behaviour in integrated reactors", *J. Heat and Technology*, Vol. 21, n. 1-2003, pages 149-155, ISSN 0392-8764 (✉)
- [521] **2003 – D'Auria F., Galassi G. M., Giannotti W.**, "Transient analyses of the Bethsy 9.1b test carried out by the code Cathare 2 v1.5B r4.1", University of Pisa Report, DIMNP – NT 514(03)-rev.0, Pisa (I), Oct. 2003
- [522] **2003 – D'Auria F., Galassi G. M., Giannotti W.**, "Transient analyses of the Bethsy Integral Test Facility (ITF) 4.2b test carried out by the code Cathare 2 v1.5B r4.1", University of Pisa Report, DIMNP – NT 516(03)-rev.0, Pisa (I), Nov. 2003
- [523] **2003 – Spadoni A., D'Auria F., Galassi G. M.**, "Post-test analysis and accuracy quantification of PKL Test E2.2 by Relap5/Mod3.2 gamma and Relap5-3D", University of Pisa Report, DIMNP – NT 504(03)-rev.0, Pisa (I), May 2003, Presented at OECD/CSNI SETH Group
- [524] **2003 – Richards D. J., D'Auria F., Bedrossian G., Cho Y. J., Gupta S. K., Istrate R.**, "Inter-comparison and validation of computer codes for thermal-hydraulic safety analyses of heavy water reactors", 10th Int. Top. Meet. on Nuclear Reactor Thermal-hydraulics (NURETH-10), Seoul (South Korea), Oct. 5-9, 2003
- [525] **2003 – Madeira A., D'Auria F., Alvim A. C. M.**, "A PWR recovery option for a total loss of feed-water beyond design basis scenario", 10th Int. Top. Meet. on Nuclear Reactor Thermal-hydraulics (NURETH-10), Seoul (South Korea), Oct. 5-9, 2003
- [526] **2003 – Ferreri J. C., Mazzantini O., Ventura M. A., Rosso R.D., D'Auria F.**, "Natural circulation in the CAN-I PHWR NPP characterization based on flow maps", 10th Int. Top. Meet. on Nuclear Reactor Thermal-hydraulics (NURETH-10), Seoul (South Korea), Oct. 5-9, 2003
- [527] **2003 – Petrucci A., D'Auria F., Ivanov K.**, "A novel methodology of internal assessment of uncertainty for coupled three-dimensional neutronics thermal-hydraulics system codes", 10th Int. Top. Meet. on Nuclear Reactor Thermal-hydraulics (NURETH-10), Seoul (South Korea), Oct. 5-9, 2003
- [528] **2003 – Bousbia Salah A., D'Auria F.**, "Sensitivity analyses of the Peach Bottom 2 turbine trip experiment", Int. Conf. Nuclear Energy for New Europe (NENE), Portoroz (Slo), Sept. 8-11, 2003
- [529] **2003 – Mousavian S.K., D'Auria F., Galassi G.M., Petrucci A., Salehi M. A.**, "Uncertainty analysis of LBLOCA in VVER-1000 geometry", Int. Conf. Nuclear Energy for New Europe (NENE), Portoroz (Slo), Sept. 8-11, 2003

- [530] **2003 – Maggini F., Mirò R., D'Auria F., Verdù G., Ginestar D.**, "Peach Bottom cycle 2 stability analysis using Relap5/Parcs", Int. Conf. Nuclear Energy for New Europe (NENE), Portoroz (Slo), Sept. 8-11, 2003
- [531] **2003 – Di Maro B., Pierro F., Adorni M., Bousbia Salah A., D'Auria F.**, "Safety analysis of loss of flow transients in a typical research reactor by Relap5/mod3.3", Int. Conf. Nuclear Energy for New Europe (NENE), Portoroz (Slo), Sept. 8-11, 2003
- [532] **2003 – Lo Nigro A., D'Auria F.**, "PWR core response to boron dilution transient", Int. Conf. Nuclear Energy for New Europe (NENE), Portoroz (Slo), Sept. 8-11, 2003
- [533] **2003 – Jafari J., D'Auria F., Kazeminejad H., Davilu H.**, "Reliability evaluation of a natural circulation system", *J. Nuclear Engineering & Design*, Vol 224, pages 79-104, 2003 – ISBN 0029-5493/\$ © Elsevier B.V., doi 10.1016/S0029-5493(03)00105-5
- [534] **2003 – Petrucci A., D'Auria F., Ivanov K.**, "A novel methodology of internal assessment of uncertainty for three-dimensional neutronics thermal-hydraulics system codes", Int. Conf. on Supercomputing in Nuclear Applications, SNA' 2003, Paris (F), Sept. 22-24, 2003 (§§)
- [535] **2003 – Muellner N., Giannotti W., Petrucci A., D'Auria F.**, "Investigation of possible emergency procedure for the VVER-1000 NPP in case of a total loss of feed-water and a main steam line break", IAEA Tech. Meet. 'Monitor Progress in Implementation of Accident Management Programmes at NPPs', Prague (Cz), Oct. 20-22, 2003
- [536] **2003 – Mazzini D., Giannotti W., Weiman G., D'Auria F.**, "PTS analyses for VVER-1000: methods and results", Int. Exchange Forum 'Safety Analysis of Nuclear Power Plants of VVER and RBMK Types', Piestany (SK), Oct. 28-30, 2003
- [537] **2003 – Petrucci A., D'Auria F., Giannotti W., Ivanov K.**, "Capabilities of CIAU method for internal assessment of uncertainty in the system codes calculations", Int. Exchange Forum 'Safety Analysis of Nuclear Power Plants of VVER and RBMK Types', Piestany (SK), Oct. 28-30, 2003
- [538] **2003 – Marques M., Pignatelli J.F., D'Auria F., Burgazzi L., Muller C., Bolado-Lavin R., Kopustinkas V., Kirchsteiger C., La Lumia V., Ivanov I.**, "Reliability Methods for Passive Safety functions (RMPS)", Invited at FISA-2003 Conf. on EU Research in Reactor Safety - Luxembourg (L), Nov. 10-13, 2003 – EUR 20281, ISBN 92 894-3455-4
- [539] **2003 – Bestion D., Pailiere H., Latrobe A., LaPorta A., Teschendorff V., Staedtke H., Aksan N., D'Auria F., Viavainen J., Meloni P., Hewitt G., Lillington J., Prosek A., Mavko B., Macek J., Malacka M., Camous F., Fichot F., Monhardt D.**, "European Project for Future Advances in Sciences and Technology for Nuclear Engineering Thermal-hydraulics (EUROFASTNET)", Invited at FISA-2003 Conf. on EU Research in Reactor Safety - Luxembourg (L), Nov. 10-13, 2003 – EUR 20281, ISBN 92 894-3455-4 (○○○)
- [540] **2003 – Addabbo C., Annunziato A., Aksan N., D'Auria F., Galassi G.M., Dumont D., Nilsson L., Hofman D., Rigamonti M., Purhonen H., Riikonen V., Steinhoff F., Toth I., Guba A., Umminger K., Gaul H.**, "European Thematic Network for the Consolidation of the Integral System Test Experimental Databases for Reactor Thermal-hydraulic Safety Analysis (CERTA-TN)", Invited at FISA-2003 Conf. on EU Research in Reactor Safety - Luxembourg (L), Nov. 10-13, 2003 – EUR 20281, ISBN 92 894-3455-4
- [541] **2003 – D'Auria F., Reventos F., Sjoberg A., Sandervag O., Anhert C., Verdù G., Macek J., Ivanov K., Rizwan-Uddin, Sartori E., Frid V., Panayotov D.**, "Revisiting Critical Issues in Nuclear Reactor Design / Safety by Using 3D Neutronics / Thermal-hydraulics models: State-of-the-art (CR ISSUE-S)", Invited at FISA-2003 Conf. on EU Research in Reactor Safety - Luxembourg (L), Nov. 10-13, 2003 – EUR 20281, ISBN 92 894-3455-4
- [542] **2003 – Misak J., Royen J., D'Auria F., Micaelli J-C, D'Auria F., Durin M., Mahaffy J.H. (contributors to drafting and review)**, "Use of Computational fluid dynamics codes for safety analysis of nuclear reactor systems", Summary report from a technical meeting jointly organized by the IAEA and the NEA of OECD [held in Pisa on 11-14 November 2002] - IAEA TECDOC 1379, Vienna (A), Nov. 2003, ISBN 92-0-111003-0, ISSN 1011-4289
- [543] **2003 – Bousbia-Salah A., Lo Nigro A., D'Auria F., Galassi G. M., Parisi C., Giannotti W.**, "Overview of coupled 3D system thermal-hydraulics neutron kinetics code application", IAEA Tech. Meet. on 'Progress in Development and Use of Coupled Codes for Accident Analysis', Vienna (A), Nov. 26-28, 2003, IAEA TECDOC 1539 (issued 2007), ISBN 92-0-101207-1, 88-131

- [544] **2003 – D'Auria F., Galassi G. M., Giannotti W., Petruzzi A., Moussavian K., Pierro F., Lo Nigro A., Muellner N.**, "Qualification and application of coupled reactor cooling systems and containment nodalisations", IAEA Tech. Meet. on 'Progress in Development and Use of Coupled Codes for Accident Analysis', Vienna (A), Nov. 26-28, 2003, IAEA TECDOC 1539 (issued 2007), ISBN 92-0-101207-1, 293-315
- [545] **2003 – Araneo D., Beghini M., D'Auria F., Di Maro B., Mazzini D., Sollima C.**, "PTS procedure, Analysis and Results by Coupled Thermal-hydraulics, CFD and Structure Mechanics Codes", IAEA Tech. Meet. on 'Progress in Development and Use of Coupled Codes for Accident Analysis', Vienna (A), Nov. 26-28, 2003 IAEA TECDOC 1539 (issued 2007), ISBN 92-0-101207-1, 270-292
- [546] **2003 – Allison C., Balabanov E., D'Auria F., Jankowski M., Misak J., Camargo C., Salvatores S., Snell V.**, "Accident Analysis for Nuclear Power Plants with Pressurized Water Reactors", IAEA Safety Reports Series (SRS) No 30, pp 1-65, ISSN 1020-6450; ISBN 92-0-110603-3, Vienna (A), 2003
- [547] **2003 – Allison C., Balabanov E., D'Auria F., Jankowski M., Misak J., Camargo C., Salvatores S., Snell V.**, "Accident Analysis for Nuclear Power Plants with Pressurized Heavy Water Reactors", IAEA Safety Reports Series (SRS) No 29, pp 1-65, ISSN 1020-6450; ISBN 92-0-110503-7, Vienna (A), 2003
- [548] **2003 –D'Auria F., Ivanov K.**, "Objective and organization of the Workshop" – POST FISA WORKSHOP: Some Selected Topics in US-EU Cooperation in Nuclear Research and Education – Luxembourg (L), Nov. 10-13, 2003 – EUR 20281, ISBN 92 894-3455-4
- [549] **2003 – Cacuci D., D'Auria F., Hassan Y., Ivanov K., Verdù G., Sollima C.**, "Energy and safety culture across the Atlantic" – POST FISA WORKSHOP: Some Selected Topics in US-EU Cooperation in Nuclear Research and Education – Luxembourg (L), Nov. 10-13, 2003 – EUR 20281, ISBN 92 894-3455-4
- [550] **2004 – Marques M. (coordinator), Pignatello J.F., D'Auria F., Burgazzi L., Muller C., Bolado-Lavin R., La Lumia V., Ivanov I.**, "RMPS Project: Reliability Methods for Passive Systems – FINAL REPORT", NT CEA A-MPRIN-07-01-04, Cadarache (F), July 2004
- [551] **2004 – D'Auria F., Cherubini M., Kvidza B., Galassi G. M., Giannotti W., Petruzzi A.**, "Qualification and uncertainty evaluation of a best estimate LOCA study of the (VVER-440) Mochovce NPP by Relap5/3.2-gamma", University of Pisa Report, DIMNP – NT 540(04)-rev.1, Pisa (I), Aug. 2004, Submitted to VUJE, Bratislava (Slovak Republic)
- [552] **2004 – D'Auria F., Galassi G. M.**, "Best-Estimate analysis of the Angra-2 ATWS event category", University of Pisa Report, DIMNP – NT 526(04)-rev.4, Pisa (I), July 2004, Submitted to CNEN, Rio de Janeiro (Brazil)
- [553] **2004 – D'Auria F. (Project Coordinator), Bousbia Salah A., Galassi G.M., Vedovi J., Reventos F., Cuadra A., Gago J.L., Sjoberg A., Yitbarek M., Sandervag O., Garis N., Anhert C., Aragones J.M., Verdù G., Mirò R., Hadek J., Macek J., Ivanov K., Rizwan-Uddin, Sartori E., Rindelhardt U., Rohde U., Frid V., Panayotov D.**, "CRISUE-S: Neutronics Thermal-hydraulics coupling in LWR Technology" – Synthesis Report, University of Pisa Report, DIMNP – NT 525(04), Pisa (I), Jan. 2004, Submitted to EC, Brussels
- [554] **2004 – Prosek A., Mavko B., D'Auria F.**, "Quantitative analysis of RD-14M large LOCA test B9401 calculations", IJS Report IJS-DP-8819, Ljubljana (Slo), Jan. 2004
- [555] **2004 – D'Auria F., Radkevich V., Cherubini M., Giannotti W., Parisi C., Pierro F.**, "Preliminary proposal for individual channel monitoring in RBMK NPP", University of Pisa Report, DIMNP – NT 527(04), Pisa (I), Jan. 2004, Submitted to NIKIET, Moscow (Russia)
- [556] **2004 – D'Auria F. (contributor)**, "Implications of power up-rates on safety margins of nuclear power plants", IAEA report TECDOC 1418, Vienna (A), Sept. 2004, ISBN 92-0-112004-4, pages 1-164
- [557] **2004 – Muellner N., Giannotti W., D'Auria F.**, "Investigation of a possible emergency procedure for the VVER-1000 NPP in case of a total Loss of Feed-water and a Main Steam Line Break", ASME Int. Conf. on Nuclear Engineering (ICON-E12) – Arlington (VA, USA), April 25-29, 2004 (ICON-E12-49036), CD Proceedings Copyright © 2004 by ASME
- [558] **2004 – Pierro F., Di Maro B., Adorni M., Bousbia Salah A., D'Auria F.**, "Analysis of a total flow blockage of a fuel assembly in a typical MTR research reactor by Relap5/mod3.3", ASME Int. Conf. on Nuclear Engineering (ICON-E12) – Arlington (VA, USA), April 25-29, 2004 (ICON-E12-49036), CD Proceedings Copyright © 2004 by ASME

- [559] **2004 – Hamidouche T., Bousbia Salah A., Adorni M., D’Auria F.**, “Dynamic calculations of the IAEA safety MTR research reactor Benchmark problem using Relap5/mod3.2 code”, *J. Annals of Nuclear Energy*, 31 (2004) pp 1385-1402, 0306-4549/\$, © 2004 Elsevier Ltd. (UK)
- [560] **2004 – Bousbia Salah A., D’Auria F., Bambara M.**, “Sensitivity analysis of the Peach Bottom Turbine Trip 2 experiment”, *J. Kerntechnik*, Vol 69 1-2, pp 7-14, 2004 © Carl Hanser Verlag, München (G)
- [561] **2004 – Mousavian S.K., Misale M., D’Auria F., Salehi M.A.**, “Transient and stability analysis in single-phase natural circulation”, *J. Annals of Nuclear Energy*, 31 (2004) pp 1177-1198, 0306-4549/\$, © 2004 Elsevier Ltd.
- [562] **2004 – D’Auria F., Bousbia Salah A.**, “User effect on code application and qualification needs”, Invited at OECD/CSNI & IRS[N] Workshop THICKET-2004 ‘Seminar on Transfer of Competence, Knowledge and Experience gained through CSNI activities in the field of Thermal-hydraulics’ – THICKET 2004 Session III – Paper 09, INSTN, Saclay (F), June 7-11, 2004
- [563] **2004 – D’Auria F.**, “Background and qualification of uncertainty methods”, Invited at OECD/CSNI & IRS[N] Workshop THICKET-2004 ‘Seminar on Transfer of Competence, Knowledge and Experience gained through CSNI activities in the field of Thermal-hydraulics’ – THICKET 2004 Session V – Paper 15, INSTN, Saclay (F), June 7-11, 2004
- [564] **2004 – D’Auria F., Bousbia Salah A.**, “NEA Benchmarks”, Invited at OECD/CSNI & IRS[N] Workshop THICKET-2004 ‘Seminar on Transfer of Competence, Knowledge and Experience gained through CSNI activities in the field of Thermal-hydraulics’ – THICKET 2004 Session X – Paper 23, INSTN, Saclay (F), June 7-11, 2004
- [565] **2004 – D’Auria F., Bousbia Salah A.**, “The BWR stability issue”, Invited at OECD/CSNI & IRS[N] Workshop THICKET-2004 ‘Seminar on Transfer of Competence, Knowledge and Experience gained through CSNI activities in the field of Thermal-hydraulics’ – THICKET 2004 Session X – Paper 26, INSTN, Saclay (F), June 7-11, 2004
- [566] **2004 – Mousavian S.K., D’Auria F., Salehi M.A.**, “Analysis of natural circulation phenomena in VVER-1000”, *J. Nuclear Engineering & Design*, Vol 229, pages 25-46, 2004 – 0029-5493/\$ © 2004 Elsevier B.V.
- [567] **2004 – D’Auria F., Araneo D., Neykov B.**, “Use of the Natural Circulation Flow Map”, Invited at IAEA/ICTP Course ‘Natural Circulation in Water-cooled Nuclear Power Plants’ – International Center for Theoretical Physics (ICTP) – Lecture ID T20, Trieste (I), June 28 – July 2, 2004, **IAEA Tecdoc 1474 <Natural circulation in water-cooled nuclear power plants phenomena, models, and methodology for system reliability assessments>**, Vienna (A), Nov. 2005, ISBN 92-0-110605-X, ISSN 1011-4289, pages 487-496
- [568] **2004 – D’Auria F., Lombardi-Costa A., Bousbia Salah A.**, “The Boiling Water Reactor Stability”, Invited at IAEA/ICTP Course ‘Natural Circulation in Water-cooled Nuclear Power Plants’ – International Center for Theoretical Physics (ICTP) – Lecture ID T12 & T13, Trieste (I), June 28 – July 2, 2004, **IAEA Tecdoc 1474 <Natural circulation in water-cooled nuclear power plants phenomena, models, and methodology for system reliability assessments>**, Vienna (A), Nov. 2005, ISBN 92-0-110605-X, ISSN 1011-4289, pages 281-320
- [569] **2004 – D’Auria F., Del Nevo A., Muellner N.**, “Insights into natural circulation stability”, Invited at IAEA/ICTP Course ‘Natural Circulation in Water-cooled Nuclear Power Plants’ – International Center for Theoretical Physics (ICTP) – Lecture ID T4.1, Trieste (I), June 28 – July 2, 2004, **IAEA Tecdoc 1474 <Natural circulation in water-cooled nuclear power plants phenomena, models, and methodology for system reliability assessments>**, Vienna (A), Nov. 2005, ISBN 92-0-110605-X, ISSN 1011-4289, pages 203-230
- [570] **2004 – D’Auria F., Bousbia Salah A.**, “Coupled 3D neutron kinetics and thermal-hydraulics techniques and relevance for the design of natural circulation systems”, Invited at IAEA/ICTP Course ‘Natural Circulation in Water-cooled Nuclear Power Plants’ – International Center for Theoretical Physics (ICTP) – Lecture ID T11, Trieste (I), June 28 – July 2, 2004, **IAEA Tecdoc 1474 <Natural circulation in water-cooled nuclear power plants phenomena, models, and methodology for system reliability assessments>**, Vienna (A), Nov. 2005, ISBN 92-0-110605-X, ISSN 1011-4289, pages 497-534
- [571] **2004 – Lombardi-Costa A., Maggini F., Bousbia Salah A., D’Auria F.**, “Peach Bottom Cycle 2 Stability Analysis using Relap5/Parcs”, 22nd Conf. of Italian Society of Heat Transport, Genova (I), June 21-23, 2004
- [572] **2004 – Vedovi J., Ivanov K., D’Auria F.**, “V1000CT-1 Benchmark: Exercise 3 Results using coupled Three-Dimensional Kinetics/Thermal Hydraulics”, ANS Annual Meet., Pittsburgh (PA), June 13-17 2004, **ANS Trans.**, Vol. 90, TANSAO 90 1-602 (2004) ISSN 0003-018X pp 527-529

- [573] **2004 – Del Nevo A., Cherubini M., Araneo D., D’Auria F., Galassi G.M.**, “11% upper plenum break (in PSB facility): application of Relap5-3D © and comparison with other codes”, RELAP5/ATHENA Int. Users Seminar – Sun Valley (ID, USA) Aug. 25-27, 2004
- [574] **2004 – Adorni M., Di Maro B., Pierro F., Bousbia Salah A., D’Auria F.**, “Analysis of a total flow blockage of a fuel assembly in a typical MTR research reactor by Relap5/mod3.3”, Int. Conf. Nuclear Energy for New Europe, Portoroz (Slo), Sept. 6-9 2004
- [575] **2004 – Lombardi-Costa A., Bousbia Salah A., D’Auria F.**, “Peach Bottom Cycle 2 low flow stability tests analysis using Relap5/Parcs”, Int. Conf. Nuclear Energy for New Europe, Portoroz (Slo), Sept. 6-9 2004
- [576] **2004 – D’Auria F., Cherubini M., Galassi G.M., Muellner N.**, “Addressing the scaling issue by thermal-hydraulic system codes: recent results”, 5th Int. Yugoslav Nuclear Society Conf. (YUNSC-2004) Belgrade (Serbia & Montenegro), Sept. 27-30, 2004
- [577] **2004 – Adam N., Bedrossian G., Cho Y.J., Cleveland J., D’Auria F., Galassi G.M., Gersberg S., Gupta S.K., Istrate R., Jifcu P., Lee S.H., Lyon R., Richards D.L., Swartz R., Zhou H. (contributors to drafting and review)**, “Intercomparison and validation of computer codes for thermalhydraulic safety analysis of heavy water reactors”, **IAEA TECDOC 1395, Vienna (A), Aug. 2004, ISBN 92-0-106004-1, ISSN 1011-4289**
- [578] **2004 – Bousbia Salah A., Vedovi J., D’Auria F., Ivanov K., Galassi G.M.**, “Analysis of the Peach Bottom Turbine Trip 2 Experiment by coupled Relap5-Parcs three dimensional codes”, **J. Nuclear Science and Engineering, Vol 148, Oct. 2004, pages 337-353**
- [579] **2004 – Petrucci A., Giannotti W., D’Auria F., Ivanov K.**, “Development, qualification and use of a code with the capability of internal assessment of uncertainty”, Canadian Nuclear Society Sixth Int. Conf. on Simulation Methods in Nuclear Engineering, Montreal (Quebec, Canada), Oct. 12-15, 2004, ISBN 0-919781-80-1 © 2004 CNS-SNC
- [580] **2004 – Petrucci A., Bousbia Salah A., D’Auria F.**, “Sub-channel analysis by Relap5 system code of Boil-off experiment (test 5002) with Neptun facility”, Canadian Nuclear Society 6th Int. Conf. on Simulation Methods in Nuclear Engineering, Montreal (Quebec, Canada), Oct. 12-15, 2004, ISBN 0-919781-80-1 © 2004 CNS-SNC
- [581] **2004 – Petrucci A., Giannotti W., D’Auria F.**, “Relap5/mod3.2 re-analysis and accuracy quantification of LOFT experiment L2-5”, Canadian Nuclear Society (CNS) Sixth Int. Conf. on Simulation Methods in Nuclear Engineering, Montreal (Quebec, Canada), Oct. 12-15, 2004, ISBN 0-919781-80-1 © 2004 CNS-SNC
- [582] **2004 – D’Auria F.**, “Approaches and methods to evaluate the uncertainty in system thermal-hydraulic code calculations”, Invited at Canadian Nuclear Society (CNS) Sixth Int. Conf. on Simulation Methods in Nuclear Engineering, Montreal (Quebec, Canada), Oct. 12-15, 2004, ISBN 0-919781-80-1 © 2004 CNS-SNC
- [583] **2004 – Vedovi J., Ivanov K., D’Auria F.**, “Analyses and sensitivity studies on VVER-1000 using the best-estimate model Relap5/Parcs”, Canadian Nuclear Society (CNS) Sixth Int. Conf. on Simulation Methods in Nuclear Engineering, Montreal (Quebec, Canada), Oct. 12-15, 2004, ISBN 0-919781-80-1 © 2004 CNS-SNC
- [584] **2004 – D’Auria F.**, “Approach and methods to evaluate the uncertainty in system thermal-hydraulic calculations”, Invited at ENIEF (organized by Association Argentina de Mecanica Computacional) 2004, San Carlos de Bariloche (Arg), Nov. 9-12, 2004 ISSN 1666-6070 (***)
- [585] **2004 – Galetti-Camargo M.R., D’Auria F.**, “Technical and regulatory concerns in the use of best estimate methodologies in LBLOCA analysis licensing process”, Int. Meet. On Best-Estimate Methods in Nuclear Installation Safety Analysis (BE-2004) IX, Washington D.C. (US), Nov. 14-18, 2004, ANS copyright © 2004 ISBN 089448-681-0
- [586] **2004 – Petrucci A., Giannotti W., D’Auria F., Ivanov K.**, “Enlargement of the uncertainty database of the CIAU methodology”, Int. Meet. On Best-Estimate Methods in Nuclear Installation Safety Analysis (BE-2004) IX, Washington D.C. (US), Nov. 14-18, 2004, ANS copyright © 2004 ISBN 089448-681-0
- [587] **2004 – Petrucci A., D’Auria F., Micaelli J-C., De Crecy A., Royen J.**, “The BEMUSE programme (Best-Estimate Methods – Uncertainty and Sensitivity Evaluation)”, Int. Meet. On Best-Estimate Methods in Nuclear Installation Safety Analysis (BE-2004) IX, Washington D.C. (US), Nov. 14-18, 2004, ANS copyright © 2004 ISBN 089448-681-0
- [588] **2004 – Wilson G.E. (Lead author), Abdul-Razzak A., Blinkov V., Fisher J., Holmstrom H., Makai M.,**

- Uspuras E., Aksan N., D'Auria F., Glaeser H., Luxat J., Sandervag O., Aragones J.M., Hassan Y., Mavko B., Schultz R.R.**, "Summary Report Best-Estimate 2004", Int. Meet. On Best-Estimate Methods in Nuclear Installation Safety Analysis (BE-2004) IX, Washington D.C. (US), Nov. 14-18, 2004, ANS copyright © 2004 ISBN 089448-681-0
- [589] **2004 – Petrucci A., Bousbia Salah A., D'Auria F., Ivanov K.**, "Boil-off sub-channel analysis using Relap5 system code", 6th Int. Conf. on Nuclear Thermal Hydraulics, Operation and Safety (NUTHOS-6), Nara (Japan) Oct. 4-8, 2004, paper ID N6P305 (^^^)
- [590] **2004 – Cherubini M., Cossa G., D'Auria F., Galassi G.M.**, "Comparison between PSB and VVER-1000 steam generator modelling", 6th Int. Seminar on Horizontal Steam Generators, Podolsk (RU), March 22-24, 2004
- [591] **2004 – Bousbia Salah A., D'Auria F.**, "Analysis of the Peach Bottom BWR turbine trip pressure wave propagation and its effect on the kinetic core dynamics", 3rd Int. Symposium on Two-Phase Flow Modeling and Experimentation, Pisa (I), Sept. 22-24, 2004 – © Edizioni ETS Pisa (I), ISBN 88-467-1075-4
- [592] **2004 – Cherubini M., D'Auria F., Galassi G.M.**, "Nodalisation qualification in preparation of counterpart test analysis", 3rd Int. Symposium on Two-Phase Flow Modelling and Experimentation, Pisa (I), Sept. 22-24, 2004 – © Edizioni ETS Pisa, ISBN 88-467-1075-4
- [593] **2004 – Parisi C., D'Auria F., Mazzini M., Jankowski M.**, "An overview of the TACIS project (R2.03/97) dealing with VVER-1000 and RBMK technologies", Int. Conf. on "Fifty Years of Nuclear Power – The next Fifty Years" – Obninsk (RU) June 27 – July 2, 2004 – IAEA-CN-114
- [594] **2004 – Neykov B., Cherubini M., D'Auria F.**, "Relap5 Thermal Hydraulic Analysis 11% upper plenum leakage for PSB VVER test facility and VVER NPP", Int. Information Exchange Forum "Safety Analysis for Nuclear Power Plants of the VVER Type" (FORUM-8) – Piestany (Slovak Republic), Sept. 28-30, 2004
- [595] **2004 – Moretti F., Mazzini D., D'Auria F.**, "Analysis of the hydrodynamic loads on RBMK fuel pins in the event of Pressure Tube Cracking", Int. Information Exchange Forum "Safety Analysis for Nuclear Power Plants of the VVER Type" (FORUM-8) – Piestany (Slovak Republic), Sept. 28-30, 2004
- [596] **2004 – Mazzini D., Beghini M., D'Auria F., Frustaci L., Di Maro B.**, "PTS analysis methodology for VVER-1000 RPV by coupled codes", Int. Information Exchange Forum "Safety Analysis for Nuclear Power Plants of the VVER Type" (FORUM-8) – Piestany (Slovak Republic), Sept. 28-30, 2004
- [597] **2004 – Kvidza B., D'Auria F., Petrucci A., Giannotti W.**, "Qualification and uncertainty evaluation of a best-estimate LOCA study of the Mochovce (VVER-440) NPP by Relap5 and CIAU (Code with capability of Internal Assessment of Uncertainty)", Int. Information Exchange Forum "Safety Analysis for Nuclear Power Plants of the VVER Type" (FORUM-8) – Piestany (Slovak Republic), Sept. 28-30, 2004 (&&&)
- [598] **2004 – Muellner N., Giannotti W., D'Auria F., Kastchiev G., Kromp W.**, "Investigation of H2 generation during a SBO for a VVER 1000-320 using the codes Relap5/SCDAP and MELCOR", 5th Int. Conf. Nuclear Option in Countries with small and medium Electricity Grids – Dubrovnik (Hr), May 16-20, 2004, ISBN-953-96132-8-0
- [599] **2004 – Del Nevo A., Araneo D., D'Auria F., Galassi G.M.**, "Nodalisation qualification process of the PSB-VVER facility for the Cathare2 thermal-hydraulic code", 5th Int. Conf. Nuclear Option in Countries with small and medium Electricity Grids – Dubrovnik (Hr), May 16-20, 2004, ISBN-953-96132-8-0
- [600] **2004 – Bousbia Salah A., Hamidouche T., D'Auria F.**, "Analysis of typical transients in the generic 10 MW IAEA Research Reactor by Relap5/3.2", IAEA RERTR Int. Meet. On Reduced Enrichment for Research and Test Reactors, Vienna (A), Nov. 7-12, 2004
- [601] **2004 – Parisi C., D'Auria F.**, "Expected consequences of industrial relevance from the RBMK/VVER 1000 TACIS program", Symposium on Nuclear Power Systems (SNPS) – Rome (I), Oct.21, 2004
- [602] **2004 – Muellner N., Giannotti W., D'Auria F.**, "Investigation of a possible emergency procedure for the VVER 440/213 NPP in case of a Total Loss of Feedwater", Workshop on SAMG for VVER (in the framework of the PHARE Project BG 01.10.01 Phenomena Investigation and Development of Severe Accident Guideline for Kozloduy NPP), Varna (BG), Sept. 12-17, 2004
- [603] **2004 – D'Auria F. (Project Coordinator), Bousbia Salah A., Galassi G.M., Vedovi J., Reventos F., Cuadra A., Gago J.L., Sjoberg A., Yitbarek M., Sandervag O., Garis N., Anhert C., Aragones J.M., Verdù G., Mirò R., Hadek J., Macek J., Ivanov K., Rizwan-Uddin, Sartori E., Rindelhardt U., Rohde U.,**

- Frid V., Panayotov D.**, "Neutronics/Thermal-hydraulics Coupling in LWR Technology – CRISSUE-S WP1: Data Requirements and Databases Needed for Transient Simulations and Qualification", **OECD/NEA Report No 4452, ISBN 92-64-02083-7, Paris (F), 2004, (Vol. I, 103 pages)**
- [604] **2004 – D'Auria F. (Project Coordinator), Bousbia Salah A., Galassi G.M., Vedovi J., Reventos F., Cuadra A., Gago J.L., Sjoberg A., Yitbarek M., Sandervag O., Garis N., Anhert C., Aragones J.M., Verdù G., Mirò R., Hadek J., Macek J., Ivanov K., Rizwan-Uddin, Sartori E., Rindelhardt U., Rohde U., Frid V., Panayotov D.**, "Neutronics/Thermal-hydraulics Coupling in LWR Technology – CRISSUE-S WP2: State-of-the-Art Report", **OECD/NEA Report No 5436, ISBN 92-64-02084-5, Paris (F), 2004, (Vol. II, 293 pages)**
- [605] **2004 – D'Auria F. (Project Coordinator), Bousbia Salah A., Galassi G.M., Vedovi J., Reventos F., Cuadra A., Gago J.L., Sjoberg A., Yitbarek M., Sandervag O., Garis N., Anhert C., Aragones J.M., Verdù G., Mirò R., Hadek J., Macek J., Ivanov K., Rizwan-Uddin, Sartori E., Rindelhardt U., Rohde U., Frid V., Panayotov D.**, "Neutronics/Thermal-hydraulics Coupling in LWR Technology – CRISSUE-S WP3: Achievements and Recommendations Report", **OECD/NEA Report No 5434, ISBN 92-64-02085-3, Paris (F), 2004, (Vol. III, 65 pages)**
- [606] **2005 – Petrucci A., D'Auria F., Giannotti W.**, "Uncertainty evaluation of RBMK NPP DGH blockage calculation by CIAU Methodology", University of Pisa Report, DIMNP – NT 561(05), Pisa (I), July 2005, submitted to NIKIET, Moscow (Russia)
- [607] **2005 – Petrucci A., D'Auria F.**, "Input and output specifications for the LOFT L2-5 Experiment – Phase 2 of BEMUSE Program", University of Pisa Report, DIMNP – NT 517(05)-rev03, Pisa (I), June 2005, submitted to OECD/CSNI, Paris (France)
- [608] **2005 – D'Auria F. (Petrucci A., Giannotti W., contributors)**, "The internal assessment of uncertainty, CIAU: Features and Application", Invited at Jahrestagung Kerntechnik Annual Meet., Nurnberg (Germany), May 10-12, 2005 (&&&)
- [609] **2005 – Aksan N., D'Auria F., Marques M., Saha D., Reyes J., Cleveland J. (Lead Authors)**, "Natural circulation in water-cooled nuclear power plants phenomena, models, and methodology for system reliability assessments", **IAEA TECDOC 1474, Vienna (A), Nov. 2005, ISBN 92-0-110605-X, ISSN 1011-4289, pages 1-637**
- [610] **2005 – Adorni M., Bousbia Salah A., Hamidouche T., Pierro F., Di Maro B., D'Auria F.**, "Analysis of partial and total flow blockage of a single fuel assembly of an MTR research reactor core", **J. Annals of Nuclear Energy, Vol. 32, pp 1679–1692, 2005**
- [611] **2005 – Bousbia Salah A., Galassi G.M., D'Auria F., Končar B.**, "Assessment study of the coupled code Relap5/Parcs against the Peach Bottom BWR turbine trip test", **J. Nuclear Engineering & Design, Vol. 235, pages 1727–1736, 2005**
- [612] **2005 – D'Auria F., Cherubini M., Galassi G.M., Muellner N.**, "Analysis of measured and calculated counterpart test data in PWR and VVER 1000 simulators", **J. Nuclear Technology and Radiation Protection, Vol. XX, pages 3-15, 2005. YU ISSN 1451-3994**
- [613] **2005 – Khedr A., Adorni M., D'Auria F.**, "The effect of code user and Boundary conditions on Relap calculations of MTR research reactor transient scenario", **J. Nuclear Technology and Radiation Protection, Vol. XX, pages 16-22, 2005. YU ISSN 1451-3994**
- [614] **2005 – Petrucci A., D'Auria F., Giannotti W., Ivanov K.**, "Methodology of internal assessment of uncertainty and extension to neutron kinetics/thermal-hydraulics coupled codes", **J. Nuclear Science and Engineering, Vol. 149, pages 211–236, 2005, ISSN 0029-5639**
- [615] **2005 – Adorni M., Bousbia Salah A., D'Auria F., Nabbi R.**, "Analysis of a reactivity transient for the DIDO type research reactors using RELAP5", International Conference Nuclear Energy for New Europe, Bled (Slo), Sept. 5-8, 2005, ISBN 961-6207-25-3
- [616] **2005 – Araneo D., Del Nevo A., D'Auria F., Galassi G.M.**, "Scaling of Small Break LOCA in VVER 1000 System", International Conference Nuclear Energy for New Europe (NENE), Bled (Slo), Sept. 5-8, 2005, ISBN 961-6207-25-3
- [617] **2005 – Muellner N., Seidelberger E., D'Auria F., Del Nevo A.**, "Application of the fast Fourier transform based method (FFTBM) to assist in the qualification process of for the PSB-VVER Relap5 nodalisation",

International Conference Nuclear Energy for New Europe, Bled (Slo), Sept. 5-8, 2005, ISBN 961-6207-25-3

- [618] **2005 – Pierro F., Moretti F., Mazzini D., D’Auria F.**, “Analysis of Fuel Pin Mechanics in Case of Flow Blockage of a single RBMK Channel”, International Conference Nuclear Energy for New Europe, Bled (Slo), Sept. 5-8, 2005, ISBN 961-6207-25-3
- [619] **2005 – Araneo D., Del Nevo A., D’Auria F., Galassi G.M.**, “Addressing the scaling issue with CATHARE2 simulation of VVER 1000 transient scenario”, Int. Topical Meet. On Nuclear Reactor Thermal-Hydraulics (NURETH-11), Avignon (F), October 2-6, 2005
- [620] **2005 – Muellner N., W. Giannotti, D’Auria F.**, “Relap5 analysis of an EOP based on mobile pumps, at a generic VVER-1000 NPP in case of a total loss of the primary heat sink (for DBDA conditions)”, Int. Topical Meet. On Nuclear Reactor Thermal-Hydraulics (NURETH-11), Avignon (F), October 2-6, 2005
- [621] **2005 – Petrucci A., D’Auria F., Ivanov K.**, “Development, qualification and use of the CIAU method for internal assessment of uncertainty in system codes”, Int. Topical Meet. On Nuclear Reactor Thermal-Hydraulics (NURETH-11), Avignon (F), October 2-6, 2005
- [622] **2005 – Bousbia Salah A., D’Auria F.**, “Analysis of a water-hammer induced reactivity addition effect on the Peach Bottom BWR core dynamics”, Int. Topical Meet. On Nuclear Reactor Thermal-Hydraulics (NURETH-11), Avignon (F), October 2-6, 2005
- [623] **2005 – Petrucci A., D’Auria F.**, “Relap5/mod3.2 post-test analysis and CIAU uncertainty evaluation of LOFT experiment L2-5”, Int. Topical Meet. On Nuclear Reactor Thermal-Hydraulics (NURETH-11), Avignon (F), October 2-6, 2005
- [624] **2005 – Pierro F., Parisi C., D’Auria F.**, “Analysis of flow blockage of a single RBMK channel”, Int. Topical Meet. On Nuclear Reactor Thermal-Hydraulics (NURETH-11), Avignon (F), October 2-6, 2005
- [625] **2005 – Vedovi J., Bousbia Salah A., D’Auria F., Galassi G.M., Ivanov K.**, “Analysis of the OECD/DOE/CEA VVER1000 CT-1 benchmark using Relap5/Parcs coupled codes”, Int. Topical Meet. On Nuclear Reactor Thermal-Hydraulics (NURETH-11), Avignon (F), October 2-6, 2005
- [626] **2005 – Marques M., Pignatelli J.F., Saignes P., D’Auria F., Burgazzi L., Muller C., Bolado-Lavin L., Kirchsteiger C., La Lumia V., Ivanov I.**, “Methodology for the reliability evaluation of a passive system and its integration into a Probabilistic Safety Assessment”, *J. Nuclear Engineering & Design*, Vol. 235, pages 2612–2632, 2005. ISSN 0029-5493
- [627] **2005 – Prosek A., D’Auria F., Richards D.J., Mavko B.**, “Quantitative assessment of thermal-hydraulic codes used for heavy water reactor calculations”, *J. Nuclear Engineering & Design*, Vol. 236, pages 295–308, 2005. ISSN 0029-5493
- [628] **2005 – Khedr A., D’Auria F.**, “Nodalisation effects on Relap5 results related to MTR research reactor transient scenarios”, *J. Nuclear Technology and Radiation Protection*, Vol. XX, No 2, pages 3-9, 2005. YU ISSN 1451-3994
- [629] **2005 – Cherubini M., Del Nevo A., D’Auria F., Galassi G.M.**, “Scaling of small break LOCA in VVER 1000 system”, 4th Int. Conf. “Safety Assurance of Nuclear Power Plants with VVER, Podolsk (RU), May 23-26 2005. ISBN 5-94883-035-7 FSUE EDO “GIDROPRESS” 2005
- [630] **2005 – Del Nevo A., Araneo D., Cherubini M., D’Auria F., Galassi G.M.**, “Analysis of SBLOCA – counterpart test – in PSB-VVER facility by Cathare2: quantitative / qualitative accuracy evaluation and comparison with Relap5 code”, International Conference On Nuclear Engineering (ICON-13), Beijing (China), May 16-20, 2005
- [631] **2005 – Hamidouche T., Bousbia Salah A., Adorni M., D’Auria F.**, “Comparative Study between Relap5/3.2 system code and channel codes for the safety analysis of research reactors”, International Conference On Nuclear Engineering (ICON-13), Beijing (China), May 16-20, 2005
- [632] **2005 – Hamidouche T., Bousbia Salah A., D’Auria F.**, “Analysis of Onset of Flow Instability in Rectangular Heated Channel by Relap5/3.2 Code System”, International Conference On Nuclear Engineering (ICON-13), Beijing (China) May 16-20, 2005
- [633] **2005 – Hamidouche T., Bousbia Salah A., El Khider Si-Ahmed, D’Auria F.**, “Analysis of Loss of Coolant Accident in MTR Pool Type Research Reactors”, International Conference On Nuclear Engineering (ICON-13), Beijing (China) May 16-20, 2005

13), Beijing (China), May 16-20, 2005

- [634] **2005 – Petrucci A., D’Auria F.**, “Establishment of an applicable version of the CIAU methodology”, International Conference On Nuclear Engineering (ICON-E-13), Beijing (China), May 16-20, 2005
- [635] **2005 – Bousbia Salah A., D’Auria F.**, “Analysis of Loss of Passive Decay Heat Removal Accident in an MTR Pool Type Research Reactor”, 23rd Conf. of Italian Society of Heat Transport, Parma (I), June 20-22, 2005
- [636] **2005 – Lombardi-Costa A., Carvalho O. M. Jr., D’Auria F.**, “Safety and stability analysis of the BWR operating at low-flow conditions by 3-D coupled neutron kinetics thermal-hydraulic model”, 23rd Conf. of Italian Society of Heat Transport, Parma (I), June 20-22, 2005
- [637] **2005 – Petrucci A., D’Auria F.**, “Relap5/mod3.2 post-test analysis and CIAU uncertainty evaluation of LOFT experiment L2-5”, University of Pisa Report, DIMNP – NT 558(05)-rev01, Pisa (I), June 2005, submitted to OECD/NEA/CSNI, Paris (F)
- [638] **2005 – Petrucci A., D’Auria F.**, “BEMUSE PHASE II Report: Reanalysis of ISP 13 Exercise, Post Test Analysis of the LOFT L2-5 calculation”, University of Pisa Report, DIMNP – NT 564(05)-rev02, Pisa (I), Dec. 2005, issued by OECD/NEA as NEA/CSNI/R(2006)2, JT03210882, Paris, France, pp 1-627
- [639] **2005 – Del Nevo A., Galassi G.M., D’Auria F.**, “Assessment of Cathare 2 V2.5 code against boron transport experiments”, University of Pisa Report, DIMNP – NT 559(05)-rev01, Pisa (I), Dec. 2005, submitted to EDF, Lyon (F)
- [640] **2005 – Del Nevo A., D’Auria F.**, “Cathare2v1.5b post-test analysis and accuracy quantification of PSB-VVER Test CL-4.1-03 – counterpart test”, University of Pisa Report, DIMNP – NT 555(05)-rev0, Pisa (I), Feb. 2005, submitted to EREC, Moscow (Ru)
- [641] **2005 – Del Nevo A., D’Auria F., Galassi G.M., Giannotti W.**, “Cathare2v1.5b and Relap5/mod3.3 post test analysis and accuracy quantification of PSB-VVER test PSH-1.4-04 (Test 4 – Primary to Secondary leak)”, University of Pisa Report, DIMNP – NT 568(05)-rev0, Pisa (I), Oct. 2005, submitted to EREC, Moscow (Ru)
- [642] **2005 – Berthon A., Petrucci A., Giannotti W., D’Auria F., Reventos F.**, “Consistent code qualification process and application to VVER-1000 NPP”, University of Pisa Report, DIMNP – NT 569(05)-rev0, Pisa (I), Nov. 2005, submitted to UPC, Barcelona (Spain)
- [643] **2005 – Petrucci A., D’Auria F.**, “BEMUSE Phase II: Comparison and analysis of the results – rev. 1”, Workshop on Evaluation of Uncertainties in Relation to Severe Accidents and Level 2 Probabilistic Safety Analysis – Aix-En-Provence (F), Nov. 7-9, 2005 (&&&1)
- [644] **2005 – Petrucci A., D’Auria F.**, “Approach and method to evaluate the uncertainty in system thermal-hydraulic calculations. Key applications”, ENC, Versailles (F), Dec. 11-14, 2005, Workshop on Evaluation of Uncertainties in Relation to Severe Accidents and Level 2 Probabilistic Safety Analysis – Aix-En-Provence (F), Nov. 7-9, 2005, IAEA TM on <Use of a Best-Estimate Approach in Licensing with Evaluations of Uncertainties>, Pisa (I), Sept. 12-16, 2005
- [645] **2005 – Petrucci A., D’Auria F., Bajs T., Reventos F.**, “International training Program: 3D S.UN.COP – Scaling, Uncertainty and 3D thermal-hydraulics/neutron-kinetics Coupled Codes Seminar”, ENC, Versailles (F), Dec. 11-14, 2005, IAEA TM on <Use of a Best-Estimate Approach in Licensing with Evaluations of Uncertainties>, Pisa (I), Sept. 12-16, 2005
- [646] **2005 – Kvidza B., D’Auria F., Petrucci A., Giannotti W.**, “Qualification and uncertainty evaluation of a best estimate LOCA study of the Mochovce NPP by Relap5/3.2 gamma and CIAU”, IAEA TM on <Use of a Best-Estimate Approach in Licensing with Evaluations of Uncertainties>, Pisa (I), Sept. 12-16, 2005
- [647] **2005 – Galetti M. R., D’Auria F.**, “Licensing experience with BE in Brazil: regulatory audit analysis”, IAEA TM on <Use of a Best-Estimate Approach in Licensing with Evaluations of Uncertainties>, Pisa (I), Sept. 12-16, 2005
- [648] **2005 – Berthon A., Petrucci A., Del Nevo A., D’Auria F., Reventos F.**, “Consistent code qualification process and application to the LOBI test BL-44”, IAEA TM on <Use of a Best-Estimate Approach in Licensing with Evaluations of Uncertainties>, Pisa (I), Sept. 12-16, 2005
- [649] **2005 – D’Auria F. (Editor), Soloviev S., Novoselsky O., Moskalev A., Radkevitch V., Malofeev V.**,

- Parisi C., Cherubini M., Pierro F., Moretti F. (Lead Authors)**, “Deterministic Safety Technology in RBMK – EC TACIS Project R2.03/97 <Software Development for Accident Analysis of VVER and RBMK Reactors in Russia> Final Technical Report, Part B”, University of Pisa – DIMNP NT 580 (05), Pisa (I), Dec. 2005, ISBN 88-902189-0-8, pages 1-838
- [650] **2005 – Petrucci A., D’Auria F.**, “Establishment of an applicable version of the CIAU methodology”, ANS Summer Meet., San Diego (CA), June 5-9, 2005, **ANS Trans.**, Vol. 92, TANSAO 92 (2005), ISSN 0003-18X, pp 446-448
- [651] **2005 – Sollima C., D’Auria F., Misak J., Petrangeli G.**, “Framework and strategy for the introduction of best estimate models into the licensing process”, ANS Summer Meet., San Diego (CA), June 5-9, 2005, **ANS Trans.**, Vol. 92, TANSAO 92 (2005), ISSN 0003-18X
- [652] **2005 – Makihara Y., Sartmandiev A., Spalj S., Macek J., Kantee H., Elter J., Horvath G.L., D’Auria F., Bukin N., Gudosnikov A., Kristof M., Kvidza B., Matejovic P.**, “Assessment of the potential consequences of large primary to secondary leakage accident for a VVER-440”, International Conference On Nuclear Engineering (ICON-E-13), Beijing (China), May 16-20, 2005 – ICON-E-13-50556
- [653] **2005 – Cherubini M., D’Auria F., Ferreri J.C., Mazzantini O.**, “Simulation of a Natural Circulation Test in the PSB-VVER Installation”, Int. Topical Meet. On Nuclear Reactor Thermal-Hydraulics (NURETH-11), Avignon (F), October 2-6, 2005
- [654] **2006 – D’Auria F., Bousbia-Salah A., Petrucci A., Del Nevo A.**, “State of the Art in Using Best Estimate Calculation Tools in Nuclear Technology”, **J. Nuclear Engineering and Technology**, Vol 38, No 1, February 2006, pages 11-32, ISSN 1738-5733
- [655] **2006 – Bousbia-Salah A., Jirapongmed A., D’Auria F., White J.R., Hamidouche T.**, “Assessment of RELAP5 Model for the University of Massachusetts Lowell Research Reactor”, **J. Nuclear Technology and Radiation Protection**, Vol. XXI, No. 1, pages 3-12, 2006 Scientific paper UDC 621.039.4 :519.7 :536.24, BIBLID 1451-3994, 21 (2006)
- [656] **2006 – Zergoug T., Mammou L., Mokeddem Y., Bousbia Salah A., D’Auria F.**, “Safety analysis for neutron flux optimization in irradiation channels at NUR research reactor”, **J. Nuclear Technology and Radiation Protection**, Vol. XXI, No. 2, pages 33-39, 2006 Scientific paper UDC 539.125.52 :621.039.572, BIBLID 1451-3994, 21 (2006)
- [657] **2006 – Bousbia Salah A., Kliem S., Rohde U., D’Auria F., Petrucci A.**, “Uncertainty and sensitivity analyses of the Kozloduy pump trip test using coupled Thermal-Hydraulic 3D Kinetics code”, **J. Nuclear Engineering and Design**, Vol. 236, 2006, pages 1240–1255
- [658] **2006 – Bousbia-Salah A., D’Auria F.**, “Analysis of the Peach Bottom flow stability test number 3 using the coupled RELAP5/PARCS code”, **J. Annals of Nuclear Energy**, Vol. 33, 2006, pages 646–652
- [659] **2006 – D’Auria F. (Editor), Melikhov O., Suslov A., Bykov M., Elkin I., Araneo D., Cherubini M., Del Nevo A., Giannotti W., Muellner N. (Lead Authors)**, “Accident Management Technology in VVER-1000”, University of Pisa – DIMNP NT 581 (06), Pisa (I), June 2006, ISBN 88-902189-0-9, pp. 1-1250
- [660] **2006 – Petrucci A., D’Auria F.**, “Uncertainty evaluation of LOFT L2-5 test calculation by CIAU method”, University of Pisa Report, DIMNP – NT 565(06)-rev01, Pisa (I), Feb. 2006, submitted to OECD/CSNI, Paris (France)
- [661] **2006 – Giannotti W., Del Nevo A., Araneo D., Galassi G. M., D’Auria F.**, “Assessment of Cathare 2 v2.5 code against new boron transport experiments available from PKL facility”, University of Pisa Report, DIMNP – NT 563(06)-rev01, Pisa (I), Feb. 2006, submitted to EdF, Lyon (France)
- [662] **2006 – Lombardi-Costa A., Cherubini M., D’Auria F.**, “Thermal-hydraulic analysis of coolant flow decrease in concerned core region of Smolensk-3 RBMK during GDH blockage event”, University of Pisa Report, DIMNP – NT 574(06), Pisa (I), March 2006
- [663] **2006 – Mascari F., Vella G., Del Nevo A., D’Auria F., Llombart Soriano O.**, “Post-test analysis and accuracy quantification of PKL III E 3.1 Test”, International Conference Nuclear Energy for New Europe, Portoroz (Slo), Sept. 18-21, 2006, ISBN 961620726-3
- [664] **2006 – Terzuoli F., Moretti F., Melideo D., D’Auria F., Shkarupa, O.**, “CFX-10 and Relap5-3D Simulations of Coolant Mixing Phenomena in RPV of VVER-1000 Reactors”, International Conference

Nuclear Energy for New Europe, Portoroz (Slo), Sept. 18-21, 2006, ISBN 961620726-3

- [665] **2006 – Bykov M., Lysenkov E., D’Auria F. (Project Director)**, “PSB-VVER QLR, Test 15” TACIS (VVER-1000 & RBMK) Project R2.03.97, UNIPI-DIMNP WD A 2.1.2-QLR/15-rev.0, Pisa (I), 2006, Available to EC, Russian Sub-Contractors and Beneficiary
- [666] **2006 – Dubey S.K., Petrucci A., Giannotti W., D’Auria F.**, “Improvement in post-test accident analysis results prediction for the test no 2 in PSB test facility by applying UMAE methodology”, International Conference Nuclear Energy for New Europe, Portoroz (Slo), Sept. 18-21, 2006, ISBN 961620726-3
- [667] **2006 – D’Auria F., Sartmadjiev A., Spalj S., Macek J., Kantee H., Elter J., Kostka P., Bukin N., Gudoshnikov A., Kristof M., Kvidza B., Matejovic P., Makihara Y.**, “Assessment of the potential consequences of a large primary to secondary leakage accident – Final Report”, International Conference Nuclear Energy for New Europe, Portoroz (Slo), Sept. 18-21, 2006, ISBN 961620726-3
- [668] **2006 – Adorni M., Bousbia Salah A., D’Auria F., Hamidouche T.**, “Application of Best-Estimate thermal-hydraulic codes for the safety analysis of research reactors”, International Conference Nuclear Energy for New Europe, Portoroz (Slo), Sept. 18-21, 2006, ISBN 961620726-3
- [669] **2006 – D’Auria F., Pierro F., Parisi C.**, “Key Results from RBMK safety analysis”, RosenergoAtom 5th Int. Scientific and Tech. Conf. ‘Safety, Efficiency and Economics of Nuclear Power Industry’, Moscow (RU), April 19-21, 2006
- [670] **2006 – Bousbia Salah A., Hamidouche T., D’Auria F.**, “Assessment study of the Relap5/3.2 code against low pressure onset of flow instability in parallel heated channels”, 24th Conf. of Italian Society of Heat Transport, Napoli (I), June 21-23, 2006
- [671] **2006 – Galassi M.C., Mazzini D., D’Auria F.**, “Impinging jet studies for turbulent modelling assessment and code benchmarking”, 24th Conf. of Italian Society of Heat Transport, Napoli (I), June 21-23, 2006
- [672] **2006 – D’Auria F., Bousbia Salah A.**, “Accident analysis in research reactors”, 15th Pacific Basin Nuclear Conference (PBNC), Sydney (Aus), Oct. 15-20, 2006, paper 189, ISBN 1877040-58-4
- [673] **2006 – D’Auria F., Petrucci A., Giannotti W.**, “Approaches and methods to evaluate the uncertainty in system thermal-hydraulics”, 15th Pacific Basin Nuclear Conference (PBNC), Sydney (Aus), Oct. 15-20, 2006, paper 190, ISBN 1877040-58-4
- [674] **2006 – D’Auria F., Suslov A., Muellner N., Petrangeli G., Cherubini M.**, “Accident management in VVER-1000”, 15th Pacific Basin Nuclear Conference (PBNC), Sydney (Aus), Oct. 15-20, 2006, paper 191, ISBN 1877040-58-4
- [675] **2006 – D’Auria F., Soloviev S., Mazzini D., Sollima C.**, “Deterministic Safety Technology for RBMK reactors”, 15th Pacific Basin Nuclear Conference (PBNC), Sydney (Aus), Oct. 15-20, 2006, paper 192, ISBN 1877040-58-4
- [676] **2006 – Petrucci A., D’Auria F.**, “The Internal Assessment of Uncertainty, CIAU and CIAU-TN: Features and key Applications”, ANS-CNS Top. Meet. On Reactor Physics – PHYSOR, Vancouver (BC, Canada), Sept. 10-14, 2006, ISBN 89448-697-7
- [677] **2006 – Parisi C., D’Auria F., Malofeev V., Ivanov B., Ivanov K.**, “RBMK coupled neutronics/thermal-hydraulic analyses by two independent code systems”, ANS-CNS Top. Meet. On Reactor Physics – PHYSOR, Vancouver (BC, Canada), Sept. 10-14, 2006, ISBN 89448-697-7
- [678] **2006 – Petrucci A., D’Auria F., De Crecy A.**, “The BEMUSE Programme: Best estimate methods uncertainty and sensitivity evaluations – Phase 2”, ANS-CNS Top. Meet. On Reactor Physics – PHYSOR, Vancouver (BC, Canada), Sept. 10-14, 2006, ISBN 89448-697-7
- [679] **2006 – Petrucci A., D’Auria F., Bajs T., Reventos F.**, “International training program: 3D SUNCOP – Scaling, Uncertainty and 3D thermal-hydraulic / Neutron kinetics coupled codes Seminar”, [ANS Transactions](#), Vol 94, Reno (Ne, US) June 4-8, 2006, pages 42-44
- [680] **2006 – D’Auria F., Soloviev S.**, “Key Aspects of RBMK deterministic safety technology”, [ANS Transactions](#), Vol 94, Reno (Nv, US), June 4-8, 2006, pages 221-222
- [681] **2006 – Petrucci A., D’Auria F.**, “CIAU method to evaluate the uncertainty in system thermal-hydraulics

- calculations. Key applications”, [ANS Transactions, Vol 94, Reno \(Nv, US\), June 4-8, 2006, pages 456-458](#)
- [682] **2006 – Petruzzi A., D’Auria F.**, “The BEMUSE Programme: Best estimate methods uncertainty and sensitivity evaluations”, [ANS Transactions, Vol 94, RENO \(Nv, US\), June 4-8, 2006, pages 459-461](#)
- [683] **2006 – Del Nevo A., Moretti F., D’Auria F.**, «Identification of relevant experimental data <mixing related>», University of Pisa Report, DIMNP – NT 587(06), Pisa (I), Dec. 2006, TACIS Project 2.02/02 – Task 7, Submitted to EC, Brussels (B)
- [684] **2006 – Moretti F., Melideo D., D’Auria F.**, “CFX simulation of ROCOM experiments”, University of Pisa Report, DIMNP – NT 588(06), Pisa (I), Dec. 2006, TACIS Project 2.02/02 – Task 8, Submitted to EC, Brussels (B)
- [685] **2006 – Kvidza B., Petruzzi A., D’Auria F.**, “Qualification and uncertainty evaluation of a best-estimate LOCA study of the Mochovche NPP by Relap5/3.2-gamma and CIAU”, ASME Int. Conf. on Nuclear Engineering – Miami (Fl, USA), July 17-20, 2006 (ICON14-89203), © 2006 by ASME, ISBN 0-7918-3783-1
- [686] **2006 – De Crecy A., Bazin P., D’Auria F., Petruzzi A., Ryu Y-H.**, “The BEMUSE Programme: Results of the first part concerning the LOFT L2-5 test”, ASME Int. Conf. on Nuclear Engineering – Miami (Fl, USA), July 17-20, 2006 (ICON14-89184), © 2006 by ASME, ISBN 0-7918-3783-1
- [687] **2006 – Moretti F., Melideo D., Terzuoli F., D’Auria F.**, “Application of CFX-10 to the investigation of RPV coolant mixing in VVER reactors”, ASME Int. Conf. on Nuclear Engineering – Miami (Fl, USA), July 17-20, 2006 (ICON14-89840), © 2006 by ASME, ISBN 0-7918-3783-1
- [688] **2006 – Petruzzi A., D’Auria F., Bajs T., Reventos F.**, “International training program: 3D SUNCOP – Scaling, Uncertainty and 3D thermal-hydraulic / Neutron kinetics coupled codes Seminar”, ASME Int. Conf. on Nuclear Engineering – Miami (Fl, USA), July 17-20, 2006 (ICON14-89902), © 2006 by ASME, ISBN 0-7918-3783-1 §§§
- [689] **2006 – D’Auria F., Bousbia Salah, A.**, “Methodologies for Qualification and Application of Computational Tools for Accident Analysis in Nuclear Power Plants“, [Chapter of the Book ‘Advanced Technologies’, © 2006 Advanced Robotic System International, Sept. 2006 pages 229-250, ISBN 3-86611-197-5](#)
- [690] **2006 – Afremov D., Kuzin A., Yashnikov D., Petruzzi A., Giannotti W., D’Auria F.**, “Uncertainty evaluation of RBMK NPP DGH blockage calculation by the Statistical and the CIAU Methodologies”, 6th Int. Conf. Nuclear Option in Countries with small and medium Electricity Grids – Dubrovnik (Hr), May 21-25, 2006, paper S6-37, ISBN-953-96132-9-9
- [691] **2006 – Berthon A., Petruzzi A., Giannotti W., D’Auria F., Reventos F.**, “Consistent code qualification process and application to VVER-1000 NPP”, 6th Int. Conf. Nuclear Option in Countries with small and medium Electricity Grids – Dubrovnik (Hr), May 21-25, 2006, paper S6-8, ISBN-953-96132-9-9
- [692] **2006 – Spadoni A., Del Nevo A., Moretti F., Araneo D., D’Auria F.**, “Assessment of thermal-hydraulic codes against boron transport phenomenon at system level”, 6th Int. Conf. Nuclear Option in Countries with small and medium Electricity Grids – Dubrovnik (Hr), May 21-25, 2006, paper S6-26, ISBN-953-96132-9-9
- [693] **2006 – Petruzzi A., D’Auria F.**, “The Internal Assessment of Uncertainty, CIAU features and applications”, 6th Int. Conf. Nuclear Option in Countries with small and medium Electricity Grids – Dubrovnik (Hr), May 21-25, 2006, paper S6-43, ISBN-953-96132-9-9
- [694] **2006 – Bousbia-Salah A., D’Auria F.**, “Use of Coupled code technique for best estimate safety analysis of NPP”, 6th Int. Conf. Nuclear Option in Countries with small and medium Electricity Grids – Dubrovnik (Hr), May 21-25, 2006, paper S6-62, ISBN-953-96132-9-9
- [695] **2006 – Adorni M., Bousbia-Salah A., D’Auria F., Hamidouche T.**, “Application of best-estimate thermal-hydraulic codes for the safety evaluation of research reactors”, 6th Int. Conf. Nuclear Option in Countries with small and medium Electricity Grids – Dubrovnik (Hr), May 21-25, 2006, paper S6-54, ISBN-953-96132-9-9
- [696] **2006 – Petruzzi A., D’Auria F., Bajs T., Reventos F.**, “International training program: 3D SUNCOP – Scaling, Uncertainty and 3D thermal-hydraulic / Neutron kinetics coupled codes Seminar”, 6th Int. Conf. Nuclear Option in Countries with small and medium Electricity Grids – Dubrovnik (Hr), May 21-25, 2006, paper S5-42, ISBN-953-96132-9-9 §§§§
- [697] **2006 – Adorni M., Bousbia-Salah A., D’Auria F., Nabbi R.**, “Application of best-estimate thermal-hydraulic

codes for the safety analysis of research reactors”, 10th Int. Topical Meet. On Research Reactor Fuel management – Sofia (Bg), 30 April – 3 May 2006 © ENS 2006

- [698] **2006 – Bousbia-Salah A., D’Auria F.**, “Education and R&D activities in European Universities in the area of nuclear Technology”, Invited at Int. Workshop on NPP Development, Shanghai Jiao Tong University, Shanghai (PRC) April 9-10, 2006
- [699] **2006 – Bousbia Salah A., Vedovi J., D’Auria F., Galassi G.M., Ivanov K.**, “Analysis of the VVER-1000 coolant trip benchmark using the coupled RELAP5/PARCS code”, *J. Progress in Nuclear Energy*, Vol. 48 (2006) pp. 806-819
- [700] **2006 – Celata G. P., D’Auria F. (Project Director)**, “Evaluation of the CHF, with special regard to the CHFR in the hot channel of the RBMK Smolensk 3 plant”, TACIS (VVER-1000 & RBMK) Project R2.03.97, UNIPI-DIMNP TD B 2.6.3 - PTGM/2-rev.0, Pisa (I), 2006, Available to EC, Russian Sub-Contractors and Beneficiary
- [701] **2006 – Muellner N., Cherubini M., Kromp W., D’Auria F., Petrangeli G.**, “A procedure to optimize the timing of operator actions of Accident Management procedures”, IAEA TM on Severe Accident and Accident Management, Toranomon-Pastoral, Minato-ku, Tokyo (J), March 14-16, 2006
- [702] **2006 – Petrucci A., D’Auria F. (Editors), De Crecy A., Bazin P., Borisov S., Skorek T., Glaeser H., Benoit J.P., Chojnacki E., Fujioka K., Inoue S., Chung B.D., Trosztel I., Toth I., Oh D.Y., Pernica R., Kyncl M., Macek J., Macian R., Tanker E., Soyer A.E., Ozdere O., Perez M., Reventos F.**, “BEMUSE Programme. Phase 2 report <Re-Analysis of the ISP-13 Exercise, post test analysis of the LOFT L2-5 experiment” *OECD/CSNI Report NEA/CSNI/R(2006)2 – Issued June 19, 2006, JT03210882, Paris (F), © OECD 2006, pages 1-625*
- [703] **2006 – Cacuci D.G., D’Auria F.**, “State of the Art Report on Sensitivity and Uncertainty Analysis (SP4)”, *EC-NURESIM, No NUCTECH-2004-3.4.3.1-1, 2006*, pp 1-65 https://cordis.europa.eu/project/rcn/89384_en.html
- [704] **2007 – D’Auria F., Bousbia Salah A.**, “Overview of Safety of Nuclear Reactors”, Invited at African High Level Conference on Nuclear Energy – Contribution to Peace and Sustainable Development, Algiers (Alg), January 9-10, 2007 (°)
- [705] **2007 – D’Auria F., Bousbia Salah A., Muellner N., Araneo D.**, “Safety of Nuclear Power Plants”, Invited at Bulatom Conference 2007, Varna (Bg), June 6-8, 2007
- [706] **2007 – D’Auria F., Cacuci D., Petrucci A.**, “Approaches for Computing Uncertainties in Predictions of Complex Codes”, Invited at International Nuclear Atlantic Conference (INAC 2007) – Santos (SP, Br), Sept. 29 – Oct. 5, 2007, ABEN, ISBN 978-85-99141-02-1
- [707] **2007 – Lombardi-Costa A., D’Auria F., Pereira C.**, “Analysis of Power Oscillations in Boiling Water Reactor”, International Nuclear Atlantic Conference (INAC) – Santos (SP, Br), Sept. 29 – Oct. 5, 2007
- [708] **2007 – Pla P., Reventós F., Pretel C., Giannotti W., D’Auria F., Annunziato A., Sol I.**, “Code Validation and Scaling of the LOBI BL-30 Experiment”, Conference (ICAPP ’07), paper 7492, ANS © 2007, Nice (F), May 13-18, 2007
- [709] **2007 – Del Nevo A., D’Auria F., Mazzini M., Bykov M., Elkin I., Suslov A.**, “The Design of PSB-VVER Experiments Carried out Inside the TACIS Contract N. 30303”, JSME Int. Conf. on Nuclear Engineering (ICON-15 – 10609) – Nagoya (J), April 22-26, 2007
- [710] **2007 – Petrucci A., D’Auria F.**, “Licensing in be System Code Calculations Applications and Uncertainty Evaluation by CIAU Method”, JSME Int. Conf. on Nuclear Engineering (ICON-15 – 10300) – Nagoya (J), April 22-26, 2007
- [711] **2007 – Petrucci A., D’Auria F., Bajs T., Reventos F., Hassan Y.**, “International Training Program in Support of Safety analysis, 3D S.UN.COP-Scaling, Uncertainty and 3D Thermal-Coupled Codes Seminars”, JSME Int. Conf. on Nuclear Engineering (ICON-15 – 10301) – Nagoya (J), April 22-26, 2007
- [712] **2007 – Moretti F., Melideo D., D’Auria F., HöhneT., Kliem S.**, “CFX Simulations of ROCOM Slug Mixing, Experiments”, JSME Int. Conf. on Nuclear Engineering (ICON-15 -10461) – Nagoya (J), April 22-26, 2007

- [713] **2007 – Frisani A., Parisi C., D’Auria F.**, “Three-dimensional Neutron Kinetics-Thermal-Hydraulics VVER-1000 Main.Steam Line Break analysis by RELAP5-3D© code”, JSME Int. Conf. on Nuclear Engineering (ICON-E-15 -10478) – Nagoya (J), April 22-26, 2007
- [714] **2007 – Parisi C., D’Auria F.**, “RBMK Fuel Channel Blockage Reactivity Analysis by MCNP5 and RELAP5-3D© codes”, JSME Int. Conf. on Nuclear Engineering (ICON-E-15 -10495) – Nagoya (J), April 22-26, 2007
- [715] **2007 – Bousbia Salah A., D’Auria F., Hamidouche T., Adorni M.**, “State of The Art of Accident Analysis in Research Reactors”, PHYTRA1 Conf. on Physics and Technology of Reactors and Applications, Marrakech (Morocco), March 14-16, 2007
- [716] **2007 – D’Auria F., Cherubini M., Muellner N.** “Relevance of Thermo-Fluid Dynamics for establishing the safety of Nuclear Power Plants”, Invited at 32nd IAHR Conf., Venice (I), July 4-7, 2007
- [717] **2007 – Parisi C., D’Auria F.**, “RBMK Fuel Channel Blockage Analysis by MCNP5, DRAGON and RELAP5-3D© codes”, Int. Conf. Nuclear Energy for New Europe 2007, Portoroz (Slo) September 10-13, 2007
- [718] **2007 – Adorni M., Bousbia-Salah A., D’Auria F., Hamidouche T.**, “Accident Analysis in Research Reactors”, Int. Conf. Nuclear Energy for New Europe 2007, Portoroz (Slo) Sept. 10-13, 2007
- [719] **2007 – Mascari F., Vella G., Del Nevo A., D’Auria F.**, “Analysis, by RELAP5 code, of Boron Dilution Phenomena in a Mid-Loop Operation Transient, Performed in PKL III F2.1 RUN 1 Test”, Int. Conf. Nuclear Energy for New Europe 2007, Portoroz (Slo) Sept. 10-13, 2007
- [720] **2007 – Terzuoli F., Galassi M.C., Mazzini D., D’Auria F.**, “CFD Code Validation against Stratified Air-Water Flow Experimental Data”, Int. Conf. Nuclear Energy for New Europe 2007, Portoroz (Slo) Sept. 10-13, 2007
- [721] **2007 – Petrucci A., D’Auria F., Bajs T., Reventos F., Hassan Y.**, “International Training Program: 3D S.UN.COP-Scaling, Uncertainty and 3D Thermal-Hydraulics/Netron-Kinetics Coupled Codes Seminar”, Int. Conf. on Nuclear training and Education (CONTE 2007), Jacksonville (Fl, US), Feb. 4-7, 2007
- [722] **2007 – Del Nevo A., Araneo D., D’Auria F., Mazzini M., Bykov M., Melikhov O., Elkin I., Suslov A.**, “Thermal-Hydraulic System Code Assessment for Transient Analyses Involving Accident Management Procedures in VVER-1000 Reactors”, Int. Top. Meet. On Nuclear Reactor Thermal Hydraulics (NURETH-12), Pittsburgh, (Pa, US), Sept. 30-Oct. 4, 2007
- [723] **2007 – Petrucci A., D’Auria F.**, “Approach and Method to Evaluate the Uncertainty in System Thermal-Hydraulics Calculations: Key Applications by CIAU Method”, Int. Top. Meet. On Nuclear Reactor Thermal Hydraulics (NURETH-12), Pittsburgh, (Pa, US), Sept. 30-Oct. 4, 2007
- [724] **2007 – Kovtunyuk A., Petrucci A., Parisi C., D’Auria F.**, “Relap5-3d© Analysis of OECD-NEA/NSC BFBT Benchmark”, Int. Top. Meet. On Nuclear Reactor Thermal Hydraulics (NURETH-12), Pittsburgh, (Pa, US), Sept. 30-Oct. 4, 2007
- [725] **2007 – Del Nevo A., D’Auria F.**, “Implementation and Development of CIAU Methodology to Cathare2 Code”, Int. Top. Meet. On Nuclear Reactor Thermal Hydraulics (NURETH-12), Pittsburgh, (Pa, US), Sept. 30-Oct. 4, 2007
- [726] **2007 – Scheuerer M., Galassi M.C., Coste P., D’Auria F.**, “Numerical Simulation of Free Surface Flows With Heat and Mass Transfer”, Int. Top. Meet. On Nuclear Reactor Thermal Hydraulics (NURETH-12), Pittsburgh, (Pa, US), Sept. 30-Oct. 4, 2007
- [727] **2007 – Frisani A., Del Nevo A., Moretti F., D’Auria F.**, “Relap5-3D©/V2.3.6 assessment against boron mixing experiments performed at ROCOM test facility”, University of Pisa Report, DIMNP – NT 589(07), Pisa (I), Jan. 2007, TACIS Project 2.02/02 – Task 8, Submitted to EC, Brussels
- [728] **2007 – D’Auria F., Petrucci A., Cacuci D. G.** “Development and Application of Uncertainty Methods for Licensing”, Paper B10, IAEA TM, Oct. 30- Nov. 2, 2007, Daejeon (Republic of Korea)
- [729] **2007 – D’Auria F. (Chairman), Bang Y.S., Glaeser H., Gupta S.K., Hall A.N., Hassan Y., Naitoh M., Sauvage E., Rzenthkowski G., Téchy Z.**, “Topical Meeting on Advanced Safety Assessment Methods Nuclear Reactors – Summary& Recommendations ”, IAEA TM, Oct. 30- Nov. 2, 2007, Daejeon (Republic of Korea)

- [730] **2007 – Moretti F., Del Nevo A., Galassi M.C., D’Auria F.**, “Study of a Boiling Channel with System and CFD codes” (SP2) – EC-EURATOM NURESIM Project, Report–D2.2.10.1, Oct. 2007, Submitted to EC, Brussels (B)
- [731] **2007 – Galassi M. C., Morel C., Bestion D., Pouvreau J., D’Auria F.**, “Validation of Neptune CFD Module with Data of a Plunging Water Jet Entering a Free Surface”, Int. Top. Meet. On Nuclear Reactor Thermal Hydraulics (NURETH-12), Pittsburgh, (Pa, US), Sept. 30-Oct. 4, 2007
- [732] **2007 – Lucas D., Bestion D., Bodèle E., Scheuerer M., D’Auria F., Mazzini D., Smith B., Tiselj I., Martin A., Lakehal D., Seynhaeve J-M., Kyrki-Rajamäki R., Ilvonen M., Macek J.**, “On the Simulation of Two-Phase Flow Pressurized Thermal Shock (PTS)”, Int. Top. Meet. On Nuclear Reactor Thermal Hydraulics (NURETH-12), Pittsburgh, (Pa, US), Sept. 30-Oct. 4, 2007
- [733] **2007 – Frisani A., Del Nevo A., D’Auria F., Höhne T., Kliem S., Rohde U.**, “Three-Dimensional Thermal-Hydraulics Analysis of ROCOM Mixing Experiment By Relap5-3d© Code”, Int. Top. Meet. On Nuclear Reactor Thermal Hydraulics (NURETH-12), Pittsburgh, (Pa, US), Sept. 30-Oct. 4, 2007
- [734] **2007 – Petrucci A., D’Auria F., Hassan Y., Bajs T., Reventos F.**, “The ‘Code-User Effect’ and the International Training Program in Support of Safety Analysis”, Int. Top. Meet. On Nuclear Reactor Thermal Hydraulics (NURETH-12), Pittsburgh, (Pa, US), Sept. 30-Oct. 4, 2007
- [735] **2007 – Pla P., D’Auria F., Parisi C., Annunziato A., Reventós F.**, “Study on the Relap5 Break Models Making Reference to the Lobi BL-30 Experiment”, Int. Top. Meet. On Nuclear Reactor Thermal Hydraulics (NURETH-12), Pittsburgh, (Pa, US), Sept. 30-Oct. 4, 2007
- [736] **2007 – Cherubini M., D’Auria F., Giannotti W., Mazzini M., Elkin I.**, “Repeatability of ITF Experiments Carried-out for Assessment and Validation of Thermal-Hydraulic System Codes”, 25th UIT Conf., Trieste (I), June 18-20, 2007
- [737] **2007 – Del Nevo A., D’Auria F.**, “Development of CIAU Database for NPP Safety Analysis by Cathare2 Code”, ICAPP 2007, paper 7498, Nice (France), May 13-18, 2007
- [738] **2007 – Bousbia Salah A., Moretti F., D’Auria F.**, “State-of-the-Art and Needs for Jet Instability and Direct Contact Condensation Model Improvements”, *J. Nuclear Technology & Radiation Protection*, Vol. 22 (2007), 1, pp. 58 -66
- [739] **2007 – Bousbia Salah A., D’Auria F.**, “Use of coupled code technique for Best Estimate safety analysis of nuclear power plants”, *J. Progress in Nuclear Energy*, Vol. 49 (2007) pp. 1-13
- [740] **2007 – Farhadi K., Bousbia Salah A., D’Auria F.**, “A model for the analysis of pump start-up transients in Tehran Research Reactor”, *J. Progress in Nuclear Energy*, Vol. 49 (2007) pp. 499-510
- [741] **2007 – Bousbia Salah A., Hamidouche T., D’Auria F.**, “Application of Best Estimate Methodology to MTR Research Reactors”, ICAPP 2007, paper 7066, Nice (France), May 13-18, 2007
- [742] **2007 – Petrucci A., D’Auria F.**, “Licensing in BE System Code Calculations: Applications and Uncertainty Evaluation by CIAU Method”, ICAPP 2007, paper 7365, Nice, (France), May 13-18, 2007
- [743] **2007 – Dubey S.K., Petrucci A., Giannotti W., D’Auria F., Gupta S.K.**, “Effect on Code Predictions by Changing the Code Version of Relap5 on SBLOCA for Test 9.1b in Bethsy Test Facility”, ICAPP 2007, Paper 7453, Nice, (France), May 13-18, 2007
- [744] **2007 – Jafari J., Khakshournia S., D’Auria F.**, “Assessment of Fuel Damage of Pool Type Research Reactor in The Case of Fuel Plates Blockage”, ICAPP 2007, Paper 7459, Nice, (France), May 13-18, 2007
- [745] **2007 – Del Nevo A., D’Auria F.**, “Comparative Study of Thermal-Hydraulic System Codes Performances in Predicting Experiments Performed in VVER-1000 Simulator”, 5th Int. Conf. Safety Assurance of NPP with WWER – FSUE OKB Gidropress, Podolsk (Ru), 29 May-1 June, 2007
- [746] **2007 – Adorni M., Bousbia Salah A., D’Auria F., Nabbi R.**, “Safety Analysis of Research Reactors wuth Best Estimate Computational Tools”, 11th Int. Top. Meet. RRFM / IGORR, Lyon (France), 11-15 March, 2007
- [747] 2007 – D’Auria F., Langenbuch S. (peer review by E. Royer)**, “Technology Relevance of the Uncertainty Analysis in Modelling (UAM), Project for Nuclear Reactor Safety”, *OECD/NEA/NSC Report, NEA/NSC/DOC (2007)15*, Paris (F), Sept. 2007

- [748] **2007 – Mascari F., Del Nevo A., Vella G., D’Auria F.**, “Post Test Analysis by Relap5 Code & Accuracy Quantification of PKL-III E3.1 Experiments”, IYCE 2007, Budapest, (Hu), 31 May-2 June, 2007
- [749] **2007 – Höhne T., Rohde U., Melideo D., Moretti F., D’Auria F., Shishov A., Lisenkov E.**, “Pre-test CFD Simulations of Gidropress Mixing Facility Experiments Using ANSYS CFX”, 17th AER Symposium on VVER Reactor Physics and Reactor Safety, Yalta (Ukr), Sept. 23-29, 2007
- [750] **2007 – Lombardi-Costa A., Cherubini M., D’Auria F., Giannotti W., Moskalev A.**, “Thermal-Hydraulic Analysis of Coolant Flow Decrease in Fuel Channels of Smolensk-3 RBMK during GDH Blockage Event”, *J. Science and Technology of Nuclear Installations*, Vol 2007, Art. ID 87834, pages 7
- [751] **2007 – Mazzantini O., Ferreri J. C., D’Auria F., Camusso C. P.**, “Natural Circulation in the ATUCHA-I PHWR Nuclear Power Plant”, *J. Science and Technology of Nuclear Installations*, Vol 2007, Art. ID 41641, pages 9
- [752] **2007 – Muellner N., Cherubini M., Kromp W., D’Auria F., Petrangeli G.**, “A procedure to optimize the timing of operator actions of accident management procedures”, *J. Nuclear Engineering and Design*, Vol. 237 (2007), pp. 2151–2156
- [753] **2007 – Mull T., Umminger K., Bucalossi A., D’Auria F., Monnier P., Toth I., Schwarz W.**, “Final Report of the OECD-PKL Project”, AREVA NP GmbH, NTCTP-G/2007/en/0009, Erlangen (G), Nov. 2007
- [754] **2008 – D’Auria F., Cacuci D., Petrucci A.**, “Uncertainties in Predictions by Thermal-Hydraulic Codes: Approaches and Results”, Invited at Int. Workshop on New Horizons in Nuclear Reactor Thermal Hydraulics, Mumbai (In), Jan. 7-8, 2008
- [755] **2008 – D’Auria F., Mazzantini O., Cherubini M., Giannotti W., Parisi C., Moretti F., Melideo D., Del Nevo A., Galassi G.M., Araneo D., Terzuoli F., Adorni M., Muellner N., Petrucci A., Lazzerini D., Santoro R., Bousbia-Salah A.**, “DEGB LBLOCA (2 X 100% Break in CL) in Atucha-2 NPP”, University of Pisa Report, DIMNP NT 628(08) – rev.1, Pisa (I), March 2008 – Delivered to NA-SA, Buenos Aires (Arg), pp 1-259
- [756] **2008 – Cherubini M., Muellner M., D’Auria F., Petrangeli G.**, “Application of an optimized AM procedure following a SBO in a VVER-1000”, *J. Nuclear Engineering and Design*, Vol. 238 (2008), pp. 74–80
- [757] **2008 – D’Auria F., Gabaraev B., Soloviev S., Novoselsky O., Moskalev A., Uspuras E., Galassi G.M., Parisi C., Petrov A., Radkevich V., Parafilo L., Kryuchkov D.**, “Deterministic accident analysis for RBMK”, *J. Nuclear Engineering and Design*, Vol. 238 (2008), pp. 975–1001
- [758] **2008 – D’Auria F., Gabaraev B., Radkevitch V., Moskalev A., Uspuras E., Kaliatka A., Parisi C., Cherubini M., Pierro F.**, “Thermal-hydraulic performance of primary system of RBMK in case of accidents”, *J. Nuclear Engineering and Design*, Vol. 238 (2008), pp. 904–924
- [759] **2008 – D’Auria F., Novoselsky O., Safonov V., Uspuras E., Galassi G.M., Cherubini M., Giannotti W.**, “Thermal-hydraulic performance of confinement system of RBMK in case of accidents”, *J. Nuclear Engineering and Design*, Vol. 238 (2008), pp. 925–939
- [760] **2008 – D’Auria F., Soloviev S., Malofeev V., Ivanov K., Parisi C.**, “The three-dimensional neutron kinetics coupled with thermal-hydraulics in RBMK accident analysis”, *J. Nuclear Engineering and Design*, Vol. 238 (2008), pp. 1002–1025
- [761] **2008 – D’Auria F., Gabaraev B., Novoselsky O., Radkevich V., Filinov N., Mazzini D., Moretti F., Pierro F., Vigni A., Parafilo L., Kryuchkov D.**, “The Multiple Pressure Tube Rupture (MPTR) issue in RBMK safety technology”, *J. Nuclear Engineering and Design*, Vol. 238 (2008), pp. 1026–1061
- [762] **2008 – D’Auria F., Cherubini M., Pierro F., Giannotti W.**, “The Individual Channel Monitoring (ICM) proposal to improve the safety performance of RBMK”, *J. Nuclear Engineering and Design*, Vol. 238 (2008), pp. 1062–1079
- [763] **2008 – Lombardi-Costa A., Petrucci A., D’Auria F., Ambrosini W.**, “Analyses of Instability Events in the Peach Bottom-2 BWR Using Thermal-Hydraulic and 3D Neutron Kinetic Coupled Codes Technique”, *J. Science and Technology of Nuclear Installations*, Vol 2008, Art. ID 423175, pages 16

- [764] **2008 – Petruzzi A., D’Auria F.**, “Approaches, Relevant Topics, and Internal Method for Uncertainty Evaluation in Predictions of Thermal-Hydraulic System Codes”, **J. Science and Technology of Nuclear Installations**, Vol 2008, Art. ID 325071, pages 17
- [765] **2008 – Petruzzi A., D’Auria F.**, “Thermal-Hydraulic System Codes in Nuclear Reactor Safety and Qualification Procedures”, **J. Science and Technology of Nuclear Installations**, Vol 2008, Art. ID 460795, pp 16
- [766] **2008 – Moretti F., Melideo D., Del Nevo A., D’Auria F.**, “Task 8 Final Report Pre-test Analyses of Gidropress Mixing Facility Experiments”, University of Pisa Report, DIMNP – NT 611(07)-rev.1 Pisa (I), Mar. 2008, TACIS Project 2.02/02 – Task 8, Submitted to EC, Brussels (B)
- [767] **2008 – Reventos F., Perez M., Batet L., Pericas R. (Coordinators), Toth I., Bazin P., De Crecy A., Borisov S., Glaeser H., Skorek T., Joucla J., Probst P., Ui A., Chung B., Oh D., Kyncl M., Pernica R., Manera A., D’Auria F., Petruzzi A., Del Nevo A.**, “Simulation of a LBLOCA in ZION Nuclear Power Plant - BEMUSE Phase IV Report”, **Jan. 2008, OECD/NEA/CSNI R(2008)6 vol 1, JT03256246, Nov. 2008, Paris (F)**
- [768] **2008 – Del Nevo A., D’Auria F., Galassi G.M.**, “Pressure Drops & Heat Losses in PKL-III Nodalization and Updated Analysis of Test PKL F1.2 by Cathare 2V2.5”, University of Pisa Report, DIMNP – NT 614 (07)-rev. 1, Pisa (I), Jan. 2008, Submitted to EdF, Lyon (France)
- [769] **2008 – Lucas D., Bestion D., Coste P., Pouvreau J., Morel C., Martin A., Boucker M., Bodele E., Schmidtko M., Scheuerer M., Smith B., Dhotre M. T., Niceno B., Lakehal D., Galassi M. C., Mazzini D., D’Auria F., Bartosiewicz Y., Seynhaeve J-M., Tiselj I., Štrubelj L., Prošek A., Ilvonen M., Kyrik-Rajamäki R., Taskanen V., Puustinen M., Laine J.**, “Synthesis Report on Work Package 2.1 Pressurized: Thermal Shock (PTS)”, EC-EURATOM FP6, NURESIM Final Report SP2-TH D2.1.3.4, submitted to EC, Brussels (B), Jan. 2008
- [770] **2008 – Del Nevo A., D’Auria F., Mazzini M., Bykov M., Elkin I., Suslov A.**, “The Design of PSB-VVER Experiments Relevant to Accident Management”, **J. Power and Energy Systems**, Vol 2, No 1, 2008, pp. 371-385
- [771] **2008 – Moretti F., Melideo D., D’Auria F., Höhne T., Kliem S.**, “CFX Simulations of ROCOM Slug Mixing Experiments”, **J. Power and Energy Systems**, Vol. 2, 2008, No 07, pp. 1-14
- [772] **2008 – Muellner N., Del Nevo A., Cherubini M., Mazzantini O., D’Auria F.**, “Optimizing the Initial Pressure of Accumulators for the Atucha-2 Nuclear Power Plant using an Optimization Method”, Int. Conf. on Nuclear Engineering (ICON16, 48876, Ed. ASME, NY, US), Orlando (Fl, US), May 11-15, 2008, ISBN: 0791848140: 9780791848142, <https://searchworks.stanford.edu/view/7916687> ++++++
- [773] **2008 – Araneo D., Del Nevo A., D’Auria F., Muellner N.**, “Systematic Comparison of Horizontal and Vertical Steam Generator Performance during Long Term Station Black Out Conditions using Relap5 and Cathare2” (Abstract), 7th Int. Conf. Nuclear Option in Countries with small and medium Electricity Grids – Dubrovnik (Hr), May 25-29, 2008
- [774] **2008 – Muellner N., Araneo D., Cherubini M., D’Auria F.**, “Effect of SG modelling on primary side pressure and temperature trend during long term station black out conditions in VVER using Relap5 and Cathare2 system”, 7th Int. Conf. Nuclear Option in Countries with small and medium Electricity Grids – Dubrovnik (Hr), May 25-29, 2008
- [775] **2008 – Araneo D., Pla P., Moretti F., D’Auria F., Muellner N.**, “Pressure Drop Characterization by means of a CFD Code”, 7th Int. Conf. Nuclear Option in Countries with small and medium Electricity Grids – Dubrovnik (Hr), May 25-29, 2008
- [776] **2008 – Pierro F., Araneo D., Galassi G.M., D’Auria F.**, “Application of REPAS methodology to assess the reliability of passive safety systems” (Abstract & Presentation), Int. Workshop on Passive Safety Systems in Advanced PWR, Shanghai Jiao Tong University, Shanghai (PRC), Apr. 28-30, 2008
- [777] **2008 – Araneo D., Moretti F., Ferrara P., Terzuoli F., D’Auria F.**, “Methodology for deterministic analysis of Pressurized Thermal Shock events in the Reactor Pressure Vessel of Nuclear Power Plants” (Abstract & Poster), Mechanical Testing for Next Generation Nuclear Systems, JRC Institute for Energy, Petten (NL), Apr. 17-18, 2008
- [778] **2008 – Tricot N., D’Auria F., Ivanova A., Ovtcharova I.**, “Preliminary Review of Selected Chapters of the Final Safety Analysis Report (FSAR) for Bushehr NPP, Unit 1: Chapter 15 – Accident Analysis”, **IAEA TC Project IRA 4035 Task 7.2, TCR-04171, Vienna (A)**, June 2008

- [779] **2008 – Del Nevo A., Petruzzi A., D’Auria F.**, “Current Industry Need <for Training> and Specific Examples” (Presentation), IAEA TM on the Status of Education and Human Resources Development in the Nuclear Field, Pavia (I), June 17-20, 2008
- [780] **2008 – F. D’Auria**, “Uncertainty Methods and Results from Applications in System Thermal-Hydraulics” (Abstract), Invited at Workshop V & V for Nuclear Systems Analysis, Idaho Falls (Id, US), July 21-25, 2008
- [781] **2008 – Spadoni A., D’Auria F., Del Nevo A., Galassi G. M.**, “Revisiting of PKL E-22 Experiment Post-Test Calculation”, Int. Conf. Nuclear Energy for New Europe, Portoroz (Slo), Sept. 8-11, 2008
- [782] **2008 – Giersch M., Galetti M.R., Camargo C., D’Auria F., Muellner N., Mazzantini O.**, “Selected Aspects of the Licensing Process of the Argentine NPP Atucha-2”, Int. Conf. Nuclear Energy for New Europe, Portoroz (Slo), Sept. 8-11, 2008
- [783] **2008 – Araneo D., Ferrara P., Moretti F., D’Auria F.**, “Development of a Finite Element Model of Atucha-2 NPP Reactor Pressure Vessel for Pressurized Thermal Shock Analysis”, Int. Conf. Nuclear Energy for New Europe, Portoroz (Slo), Sept. 8-11, 2008
- [784] **2008 – Galassi M.C., Moretti F., D’Auria F.**, “CFD Code Validation and Benchmarking Against BFBT Boiling Flow Experiment”, Experiments and CFD Code Applications to Nuclear Reactor Safety, XCFD4NRS, Grenoble (Fr), Sept. 10-12, 2008
- [785] **2008 – Pla P., Giannotti W., Del Nevo A., Muellner N., Parisi C., D’Auria F.**, “Addressing Boron Dilution Scenario through RELAP5/3.3 Analysis of VVER-1000 SB LOCA”, ENS-TOPSAFE, Int. Top. Meet. On Safety of Nuclear Installations, Dubrovnik (Hr), Sept. 30 – Oct. 3, 2008
- [786] **2008 – Pérez M., Reventós F., Batet L., Pericas R., Toth I., Bazin P., de Crécy A., Borisov S., Glaeser H., Skorek T., Joucla J., Probst P., Ui A., Chung B., Y-Oh D., Kynci M., Pernica R., Manera A., D’Auria F., Petruzzi A., Del Nevo A.**, “Main Results of Phase IV BEMUSE Project. Simulation of LBLOCA in a NPP”, ENS-TOPSAFE, Int. Top. Meet. On Safety of Nuclear Installations, Dubrovnik (Hr), Sept. 30 – Oct. 3, 2008
- [787] **2008 – Höhne T., Rohde U., Melideo D., Moretti F., D’Auria F., Shishov A., Lisenkov E.**, “CFD Simulations of Gidropress Mixing Facility Experiments in the Framework of TACIS Project R2.02/02”, ENS-TOPSAFE, Int. Top. Meet. On Safety of Nuclear Installations, Dubrovnik (Hr), Sept. 30 – Oct. 3, 2008
- [788] **2008 – Petruzzi A., D’Auria F.**, “Approach and Method to evaluate the Uncertainty in System Thermal-Hydraulic Calculations. Key Applications by CIAU Method”, ENS-TOPSAFE, Int. Top. Meet. On Safety of Nuclear Installations, Dubrovnik (Hr), Sept. 30 – Oct. 3, 2008
- [789] **2008 – Petruzzi A., D’Auria F., Pla P., Bajs T., Reventos F., Bucalossi A.**, “The code user effect and the international training Seminar 3D SUNCOP”, ENS-TOPSAFE, Int. Top. Meet. On Safety of Nuclear Installations, Dubrovnik (Hr), Sept. 30 – Oct. 3, 2008
- [790] **2008 – Mascari F., Vella G., D’Auria F.**, “Analysis by Relap5 code of boron dilution phenomenon in Small Break LOCA and in Mid-Loop Transients performed in PKL-III Test Facility”, ENS-TOPSAFE, Int. Top. Meet. On Safety of Nuclear Installations, Dubrovnik (Hr), Sept. 30 – Oct. 3, 2008
- [791] **2008 – Camargo C., Galetti M.R., D’Auria F., Mazzantini O.**, “Exploitation of BEPU Approach for Licensing purposes”, ENS-TOPSAFE, Int. Top. Meet. On Safety of Nuclear Installations, Dubrovnik (Hr), Sept. 30 – Oct. 3, 2008
- [792] **2008 – Petruzzi A., D’Auria F.**, “Evaluation of uncertainties in system thermal-hydraulic calculations and key applications by the CIAU method”, [Int. J. Nuclear Energy Science and Technology \(IJNEST\), Vol. 4, No. 2, 2008, pp 111-131](#)
- [793] **2008 – Parisi C., Mazzantini O., D’Auria F., Ivanov K. N.**, “RELAP5-3D© three dimensional neutron kinetics coupled thermal-hydraulics analyses of the Atucha-2 PHWR”, PHYSOR Conference, Interlaken (Ch), Sept. 14-19, 2008
- [794] **2008 – Ferrouk M., Aissani S., D’Auria F., Del Nevo A., Bousbia Salah A.**, “Assessment of 12 CHF Prediction Methods, for an Axially Non-Uniform Heat Flux Distribution, with the RELAP5 Computer Code”, [J. Nuclear Engineering and Design, Volume 238, 10, 2008, pages 2718-2725](#)
- [795] **2008 – Cherubini M., Giannotti W., Araneo D., D’Auria F.**, “Use of the Natural Circulation Flow Map for Natural Circulation Systems Evaluation”, [J. Science and Technology of Nuclear Installations, Vol. 2008,](#)

- [796] **2008 – Petruzzi A., D’Auria F., Bajs T., Reventos F., Hassan Y.**, “International Course to Support Nuclear Licensing by User Training in the Areas of Scaling, Uncertainty and 3D Thermal-Hydraulics/Neutron-Kinetics Coupled Codes: 3D S.UN.COP Seminars”, *J. Science and Technology of Nuclear Installations*, Vol. 2008, Article ID 874023, pp 16
- [797] **2008 – D’Auria F., Soloviev S., Mazzini D., Sollima C.**, “Deterministic Safety Technology for RBMK Reactors”, *J. Science and Technology of Nuclear Installations*, Vol. 2008, Article ID 781824, 7 pages
- [798] **2008 – Hamidouche T., Bousbia-Salah A., El Khider S-A., D’Auria F.**, “Overview of accident analysis in nuclear research reactors”, *J. Progress in Nuclear Energy*, 50, 2008, pages 7 -14
- [799] **2008 – Lombardi-Costa A., Pereira C., Ambrosini W., D’Auria F.**, “Simulation of a hypothetical out-of-phase instability case in boiling water reactor by Relap5/Parcs coupled codes”, *J. Annals of Nuclear Energy*, 35, 2008, pages 947-957
- [800] **2008 – Lombardi-Costa A., Ambrosini W., Petruzzi A., D’Auria F., Pereira C.**, “Analyses of pressure perturbation events in Boiling Water Reactor”, *J. Annals of Nuclear Energy*, 35, 2008, pages 1199–1215
- [801] **2008 – Bousbia Salah A., Benkharfia H., Kriangchaiporn N., Petruzzi A., D’Auria F., Ghazi N.**, “MTR benchmark static calculations with MCNP5 code”, *J. Annals of Nuclear Energy* 35, 2008, pages 845-855
- [802] **2008 – De Crécy A., Bazin P., Glaeser H., Skorek T., Joucla J., Probst P., Fujioka K., Chung B.D., Oh D.Y., Kyncl M., Pernica R., Macek J., Meca R., Macian R., D’Auria F., Petruzzi A., Batet L., Perez M., Reventos F.**, “Uncertainty and sensitivity analysis of the LOFT L2-5 test: Results of the BEMUSE programme”, *J. Nuclear Engineering and Design*, 238, 2008, pages 3561–3578
- [803] **2008 – Terzuoli F., Galassi M.C., Mazzini D., D’Auria F.**, “CFD Code Validation and Benchmarking Against Stratified Air-Water Flow Experimental Data”, *J. Science and Technology of Nuclear Installations*, Vol. 2008, Article ID 434212, 7 pages
- [804] **2008 – Lorenzo G., Zanocco P., Gimenez M., Marques M., Iooss B., Bolado-Lavin R., Pierro F., Galassi G.M., D’Auria F., Burgazzi L.**, “Reliability assessment of the Thermal-hydraulic Phenomena related to a CAREM-like passive RHR system”, European Safety and Reliability Conference (ESREL), Valencia (Spain), Sept. 22-25, 2008
- [805] **2008 – Khedr A., D’Auria F.**, “Natural Convection Core Cooling in MTR Research Reactors”, 9th Arab Conference on the Peaceful Uses of Atomic Energy, Beirut (Lebanon), Dec. 13-16, 2008
- [806] **2008 – D’Auria F., Glaeser H., Lee S., Mišák J., Modro M., Schultz R.R.**, “Best Estimate Safety Analysis for Nuclear Power Plants: Uncertainty Evaluation”, *IAEA Safety Report Series, SRS No 52, Vienna (A)*, 2008, pp 1-211, ISSN 1020–6450
- [807] **2008 – Abou Yehia H., Bastos J., Boado Magan H., D’Arcy A. J., D’Auria F., Doval A., Garea V., Guba A., Hainoun A., Lee S., Perrotta J. A., Razvi J., Shim S., Shokr A.M., Villarino E. A.**, “Safety Analysis for Research Reactors”, *IAEA Safety Report Series, SRS No 55, Vienna (A)*, 2008
- [808] **2008 – Del Nevo A., D’Auria F.**, “Assessment of RELAP5/Mod3.3 against LB-LOCA experiment in PSB VVER-1000 integral test facility”, USNRC, Spring CAMP meeting, Pisa (I), May 28-30, 2008, <https://nrcodes.com/Newsletters/THNews%200802.pdf>
- [809] **2008 – Petruzzi A., Del Nevo A., D’Auria F.**, “UNIPI Participation at OECD BEMUSE Programme: Comparison between RELAP5 and CATHARE Results for the LBLOCA in NPP”, USNRC, Spring CAMP meeting, Pisa (I), May 28-30, 2008, <https://nrcodes.com/Newsletters/THNews%200802.pdf>
- [810] **2008 – D’Auria F., Suslov A., Muellner N., Petrangeli G., Cherubini M.**, “Accident Management in VVER-1000”, *J. Science and Technology of Nuclear Installations*, Vol. 2008, Article ID 318956, 5 pages, doi:10.1155/2008/318956
- [811] **2008 – Muellner N., Petruzzi A., Galetti R., Camargo C., D’Auria F.**, “A proposal for performing the Atucha-II accident analysis for licensing purposes [*the BEPU-report*]”, Submitted to NA-SA and then to ARN in Buenos Aires (Arg), DIMNP NT (08)-restricted, rev01, July, 2008, pp 1-182

- [812] **2009 – D’Auria F.**, “Overview of Safety of Nuclear Reactors”, Invited at Workshop “La energía, factor de independencia económica”, Italian Embassy, UADE, Buenos Aires (Arg), March 18-19, 2009
- [813] **2009 – Galassi M. C., Morel C., Bestion D., Pouvreau J., D’Auria F.**, “Validation of NEPTUNE CFD Module with Data of a Plunging Water Jet Entering a Free Surface”, *J. Nuclear Technology*, Vol 167, No 1, 2009, pages 60-70
- [814] **2009 – Araneo D., Moretti F., Ferrara P., Rossi A., Latini A., D’Auria F.**, “Development of an Integrated Software Environment for Pressurized Thermal Shock analysis”, Youth Conference on Energetics (IYCE), Budapest (Hu), June 4-6, 2009
- [815] **2009 – Pla P., Parisi C., D’Auria F.**, “BOROND, Addressing Boron relevant accidents in PWR and VVER-1000 Nuclear Reactors” (Abstract & Poster), 7th EC Conf. on Euratom Research and Training in Reactor Systems (FISA), Prague (Cz), June 22-24, 2009
- [816] **2009 – Del Nevo A., Adorni M., D’Auria F., Melikhov O.I., Elkin I.V., Schekoldin V.I., Zakutaev M.O., Zaitsev S.I., Benčík M.**, “Enlargement of the Assessment Database for Advanced Computer Codes in relation to the VVER Technology: Benchmark on LB-LOCA Transient in PSB-VVER Facility”, 6th Int. Conf. Safety Assurance of NPP with WWER, EDO Gidropress, Podolsk (Ru), May 26-29, 2009
- [817] **2009 – Adorni M., Del Nevo A., D’Auria F., Mazzantini O.**, “Investigation of Fuel Rod Failures during LB-LOCA Transient in Atucha-2 NPP”, 64th Meet. Italian Thermotechnic Association (ATI), L’Aquila (I), Sept. 8-11, 2009
- [818] **2009 – Marcelli A., Galassi M. C., Misale M., Devia F., Garibaldi P., D’Auria F.**, “Analysis of Natural Circulation Experimental Data by Means of CFD Codes”, 64th Meet. Italian Thermotechnic Association (ATI), L’Aquila (I), Sept. 8-11, 2009
- [819] **2009 – Ball M., Parisi C., D’Auria F.**, “The University of Pisa Calculations for the Phase I of the OECD/NEA UAM Benchmark”, Int. Conf. on Mathematics, Computational Methods and Reactor Physics (M&C), Saratoga Springs, (NY, US), May 3-7, 2009
- [820] **2009 – Peccia M., Parisi C., D’Auria F., Mazzantini O.**, “Atucha-2 PHWR Monte Carlo MCNP5 and KENO-VI Models Development and Application”, Int. Conf. on Mathematics, Computational Methods and Reactor Physics (M&C), Saratoga Springs, (NY, US), May 3-7, 2009
- [821] **2009 – Adorni M., Rozzia D., Del Nevo A., D’Auria F.**, “Capabilities of Transuranus Code in Simulating Power Ramp Tests from the IFPE Database”, OECD/NEA RIA Workshop, Paris (F), Sept. 10-12, 2009
- [822] **2009 – Adorni M., Del Nevo A., Parisi C., D’Auria F., Mazzantini O.**, “Procedure addressing the fuel rod failures during LB-LOCA transient in Atucha-2 NPP”, TOPFUEL-2009, Paris (F), Sept. 6-10, 2009
- [823] **2009 – Adorni M., Del Nevo A., Van Uffelen P., Oriolo F., D’Auria F.**, “Assessment of Transuranus fuel performance code against Studsvik Inter-Ramp BWR database”, Int. Conf. on Nuclear Engineering (ICONE17, 75704), Brussels (B), July 12-16, 2009
- [824] **2009 – Pla P., Galetti R., D’Auria F., Parisi C., Giannotti W., Del Nevo A., Muellner N., Cherubini M., Galassi G., Reventos F.**, “Addressing Boron Dilution Scenario through Relap5/3.3 Analysis of PWR SB LOCA”, Int. Conf. on Nuclear Engineering (ICONE17, 75838), Brussels (B), July 12-16, 2009
- [825] **2009 – Muellner N., Del Nevo A., Cherubini M., D’Auria F., Mazzantini O.**, “Optimizing the Initial Pressure of Accumulators for the Atucha-2 NPP using an Optimization Method”, Int. Conf. on Nuclear Engineering (ICONE17, 75666), Brussels (B), July 12-16, 2009
- [826] **2009 – Jafari J., Firuzjaee M.K., Khakshournia S., Sepanloo K., D’Auria F.**, “Thermo-Hydraulic Calculation and Safety Analysis of the Tehran Research Reactor”, Int. Conf. on Nuclear Engineering (ICONE17, 75484), Brussels (B), July 12-16, 2009
- [827] **2009 – Jafari J., Kalagar B., Abdi Aghdam E., D’Auria F.**, “Thermo-Hydraulic Design of Westinghouse 4-Loop Reactor Core by Cobra-EN Code”, Int. Conf. on Nuclear Engineering (ICONE17, 75534), Brussels (B), July 12-16, 2009
- [828] **2009 – Petruzz A., D’Auria F.**, “CIAU Methodology and BEPU Applications”, Int. Conf. on Nuclear Engineering (ICONE17, 76057), Brussels (B), July 12-16, 2009

- [829] **2009 – Sollima C., Petrangeli G., D’Auria F., Misak J.**, “Framework and Strategies for the Introduction of Best Estimate Models into the Licensing Process”, Int. Conf. on Nuclear Engineering (ICON17, 75956), Brussels (B), July 12-16, 2009
- [830] **2009 – Petrucci A., D’Auria F., Bajs T., Reventos F.**, “International Training Program in Support of Safety Analysis: 3D S.UN.COP – Scaling, Uncertainty and 3D Thermal-Hydraulics/Neutron kinetics Coupled Codes Seminars”, Int. Conf. on Nuclear Engineering (ICON17, 76056), Brussels (B), July 12-16, 2009
- [831] **2009 – Rozzia D., Adorni M., Del Nevo A., D’Auria F.**, “Capabilities of TRANSURANUS Code in Simulating Power Ramp Tests from the IFPE Database”, Int. Conf. Nuclear Energy for New Europe, Bled (Slo) Sept. 14-17, 2009
- [832] **2009 – Araneo D., Moretti F., Ferrara P., Rossi A., Latini A., D’Auria F.**, “Integrated Software Environment for Pressurized Thermal Shock Analysis”, Int. Conf. Nuclear Energy for New Europe, Bled (Slo), Sept. 14-17, 2009
- [833] **2009 – Pecchia M., Parisi C., D’Auria F., Mazzantini O.**, “Development and Application of MCNP5 & KENO-VI Monte Carlo Models for the Atucha-2 PHWR Analysis”, Int. Conf. Nuclear Energy for New Europe, Bled (Slo), Sept. 14-17, 2009
- [834] **2009 – Coscarelli E., Del Nevo A., D’Auria F.**, “Simulation of Primary to Secondary Leak Transient in VVER-1000 Scaled Facility”, Int. Conf. Nuclear Energy for New Europe, Bled (Slo), Sept. 14-17, 2009
- [835] **2009 – Mascari F., Vella G., Woods B., Kent W., Pottorf J., Young E., Adorni M., D’Auria F.**, “Sensitivity analysis of the MASLWR helical coil steam generator using TRACE”, Int. Conf. Nuclear Energy for New Europe, Bled (Slo), Sept. 14-17, 2009
- [836] **2009 – Mengali L., Moretti F., D’Auria F.**, “Demonstrative Application of CFD Best Practice Guidelines to a Simple Pressure Drop Problem”, Int. Conf. Nuclear Energy for New Europe, Bled (Slo), Sept. 14-17, 2009
- [837] **2009 – Adorni M., Rozzia D., Del Nevo A., D’Auria F.**, “Investigation of PCI phenomenon in PWR fuel with Transuranus code”, IAEA TM on Safety Issues related to the Use of High-burnup Fuel and to the Long Residence Time of Fuel in the Reactor, Vienna (A), Dec. 1-4, 2009
- [838] **2009 – Pla P., Parisi C., D’Auria F., Galassi G., Galetti R., Ivanov K. N.**, “Analysis of LB LOCA in PWR through TH-3D NK Coupled Code”, Int. Top. Meet. On Nuclear Reactor Thermal Hydraulics (NURETH-13), Kanazawa (J), Sept. 27-Oct. 2, 2009
- [839] **2009 – Petrucci A., D’Auria F.**, “Advancements in CIAU Methodology”, Int. Top. Meet. On Nuclear Reactor Thermal Hydraulics (NURETH-13), Kanazawa (J), Sept. 27-Oct. 2, 2009
- [840] **2009 – Petrucci A., Cacuci D.G., D’Auria F.**, “Deterministic Sensitivity and Uncertainty Methodology for Best Estimate System Codes applied in Nuclear Technology”, Int. Top. Meet. On Nuclear Reactor Thermal Hydraulics (NURETH-13), Kanazawa (J), Sept. 27-Oct. 2, 2009
- [841] **2009 – D’Auria F.**, “Overview of Uncertainty Methods in Nuclear Reactor Thermal-Hydraulics”, Invited at Int. Top. Meet. On Nuclear Reactor Thermal Hydraulics (NURETH-13), Kanazawa (J), Sept. 27-Oct. 2, 2009
- [842] **2009 – Lucas D., Bestion D., Coste P., Pouvreau J., Morel Ch., Martin A., Boucker M., Bodele E., Schmidtke M., Scheuerer M., Smith B., Dhotre M.T., Niceno B., Lakehal D., Galassi M.C., Mazzini D., D’Auria F., Bartosiewicz Y., Seynhaeve J.-M., Tisell I., Štrubelj L., Ilvonen M., Kyrki-Rajamäki R., Tanskanen V., Puustinen M., Laine J.**, “Main results of the European project NURESIM on the CFD-modeling of two-phase Pressurized Thermal Shock”, German Annual Meeting on Nuclear Technology, Dresden (G), May 12-14, 2009, [J. Kerntechnik, Vol 74, 5-6, 2009, pages 238-242](#)
- [843] **2009 – Moretti F., Melideo D., Del Nevo A., D’Auria F., Hoehne T., Lisenkov E.**, “CFD Analysis of a Slug Mixing Experiment Conducted on a VVER-1000 Model”, [J. Science and Technology of Nuclear Installations, Vol. 2009, Article ID 436218, 12 pages](#)
- [844] **2009 – Lucas D., Bestion D., Bodéle E., Coste P., Scheurer M., D’Auria F., Mazzini D., Smith B., Tisell I., Martin A., Lakehal D., Seynhaeve J.-M., Kyrki-Rajamäki R., Ilvonen M., Macek J.**, “An Overview of the Pressurized Thermal Shock Issue in the context of the NURESIM Project”, [J. Science and Technology of Nuclear Installations, Vol. 2009, Article ID 583259, 13 pages](#)
- [845] **2009 – Pierro F., Araneo D., Galassi G. M., D’Auria F.**, “Application of REPAS Methodology to Assess the

Reliability of Passive Safety Systems”, *J. Science and Technology of Nuclear Installations*, Vol. 2009, Article ID 768947, 18 pages

- [846] **2009 – Cherubini M., Moretti F., D’Auria F.**, “Independent analysis for the Assessment of Multidimensional Features of the MARS Code”, [initially issued as University of Pisa, DIMNP/GRNSPG NT 637(08)-rev.0, Pisa (I), 2008], KINS/RR-669, RETAS-MARS-CA-03, Daejeon (Korea), 2009
- [847] **2009 – Zarifi E., Jahanfarnia G.R., Mousavian S.K., D’Auria F.**, “Semi 2D Modeling of the Horizontal Steam Generator PGV-1000 using the Relap5 Code”, *J. Progress in Nuclear Energy*, Vol 51, 2009, pages 788-798
- [848] **2009 – Bousbia-Salah A., D’Auria F.**, “Application of coupled code method for the analysis of VVER-1000 coolant transient benchmark”, *J. Progress in Nuclear Energy*, Vol 51, 2009, pages 146-154
- [849] **2009 – Hamidouche T., Bousbia-Salah A., El Khider S-A., Mokeddem M.Y., D’Auria F.**, “Application of coupled code technique to a safety analysis of a standard MTR research reactor”, *J. Nuclear Engineering and Design*, Vol 239, 2009, pages 2104–2118
- [850] **2009 – D’Auria F., Mazzantini O.**, “The Best-Estimate Plus Uncertainty (BEPU) Challenge in the Licensing of Current Generation of Reactors”, IAEA Int. Conf. on Opportunities and Challenges for Water Cooled Reactors in the 21st Century, Vienna (A), Oct. 27-30, 2009
- [851] **2009 – Reventós F., Batet L. Pérez M., Guba A., Toth I., Mieusset T., Bazin P., De Crecy A., Borisov S., Skorek T., Glaeser H., Joucla J., Probst P., Ui A., Chung B. D., Oh D. Y., Pernica R., Kyncl M., Manera A., Freixa J., D’Auria F., Petrucci A., Del Nevo A.**, “BEMUSE Phase V Report Uncertainty and Sensitivity Analysis of a LBLOCA in Zion Nuclear Power Plant”, *OECD/NEA Report NEA/CSNI R(2009) 13*, Paris (F), Dec. 2009
- [852] **2009 – Aksan N., Choi J-H., Chung Y-J., Cleveland J., D’Auria F., Fil N., Gimenez M.O., Ishii M., Khartabil H., Korotaev K., Krepper E., Nelson R.K., Reyes J.N., Saha D., Sibamoto Y., Woods B.**, “Passive Safety Systems and Natural Circulation in Water Cooled Nuclear Power Plants”, *IAEA Tecdoc 1624*, Vienna (A), Nov. 2009, ISBN 978-92-0-111309-2, pages 1-147
- [853] **2009 – D’Auria F., Dusic M., Dutton L.M.C., Fry C., Glaeser H., Kim I.G., Lee S.H., Mavko B., Pelayo F., Petrucci A., Sandervag O.**, “Deterministic Safety Analysis for Nuclear Power Plants”, *IAEA Specific Safety Guide, SSG-2*, Vienna (A), Dec. 2009
- [854] **2009 – Bukin N., D’Auria F., Elter J., Gudoshnikov A., Kantee H., Kostka P., Kristof M., Kvidza B., Macek J., Makihara Y., Matejovic P., Misak J., Sartmadjiev A., Spalj S.**, “Safety Analysis of WWER-440 Nuclear Power Plants: Potential Consequences of a Large Primary to Secondary System Leakage Accident”, *IAEA Tecdoc 1610*, Vienna (A), Feb. 2009, 978-92-0-100709, pages 1-39
- [855] **2010 – D’Auria F. (Contributor and Responsible for GRNSPG) et al.**, “Atucha-2 FSAR (Final Safety Analysis Report) Chapter 15, Accident Analyses”, University of Pisa, GRNSPG NT 700(09) rev.0, Pisa (I), Sept. 2009 [pp 1-2331], University of Pisa, GRNSPG NT 700(09) rev.1, Pisa (I), March 2010, NASA Report, Buenos Aires (Arg) – FSAR of Atucha-II NPP
- [856] **2010 – Petrucci A., Cacuci D.G., D’Auria F.**, “Best-Estimate Model Calibration and Prediction through Experimental Data Assimilation - II: Application to a Blow-down Benchmark Experiment”, *J. Nuclear Science and Engineering*, Vol 165, 2010, pages 1-52
- [857] **2010 – Shahedi S., Jafari J., Boroushaki M., D’Auria F.**, “Development of a qualified nodalization for small-break LOCA transient analysis in PSB-VVER integral test facility by RELAP5 system code”, *J. Nuclear Engineering and Design*, Vol. 240 (2010), ISBN 0029-5493, pages 3309-3320
- [858] **2010 – D’Auria F., Galassi G.M.**, “Scaling in nuclear reactor system thermal-hydraulics”, *J. Nuclear Engineering and Design*, Vol. 240 (2010), ISBN 0029-5493, pages 3267-3293
- [859] **2010 – Bucalossi A., Petrucci A., Kristof M., D’Auria F.**, “Comparison Between Best-Estimate-Plus-Uncertainty Methods and Conservative Tools for Nuclear Power Plant Licensing”, *J. Nuclear Technology*, Vol. 172 (2010), N.1, ISBN 0029-5450, pages 29-47
- [860] **2010 – Aronne I.D., Bajs T., D’Auria F., Dubey S., Fil N., Glaeser H., Ivanova A., Macek J., Madeira A., Modro M., Park C.O., Prosek A., Shen S., Takeda T.**, “Project on Evaluation of Uncertainties in Best Estimate Accident Analysis”, *IAEA – Coordinated Research Project (CRP-J72005)*, Vienna (A), Febr. 2010

- [861] **2010 – Ball M., Novog D. R., Parisi C., D’Auria F.**, “Cross-Section covariance propagation for LWR FUEL cells in one and two dimensions”, ANS Meet. On Advances in Reactor Physics to Power the Nuclear Renaissance (PHYSOR 2010), Pittsburgh, (Pennsylvania, USA), May 9-14, 2010
- [862] **2010 – D’Auria F., Petrucci A.**, “Uncertainty Methods and Approaches in Nuclear System Safety”, invited at American Nuclear Society Annual Meeting <Nuclear Science and Technology — The Right Fit. The Right Time.>, June 13–17, 2010, San Diego (Ca, US), **ANS Transactions, Vol 102, 1, June 2010, pages 229-230**
- [863] **2010 – Cherubini M., Moretti F., D’Auria F., Ahn S. H., Cho Y. J., Hoehne T.**, “Independent Assessment of MARS 3D Features: Use of Experimental Data and CFD Support”, 8th Int. Conf. on Nuclear Option in Countries with Small and Medium Electricity Grids, Dubrovnik (Hr), Article ID S6-67, pages 1-23, May 16-20, 2010
- [864] **2010 – Matteoli C., Nacci G., Cherubini M., Del Nevo A., D’Auria F.**, “Study of CCFL Phenomenon Based on University of Hannover Experiments”, 8th Int. Conf. on Nuclear Option in Countries with Small and Medium Electricity Grids, Dubrovnik (Hr), Article ID S6-63, pages 1-12, May 16-20, 2010
- [865] **2010 – Del Nevo A., Adorni M., D’Auria F., Melikhov O. I., Elkin I. V., Schekoldin V. I., Zakutaev M. O., Zaitsev S. I., Benčík M.**, “Enlargement of the Assessment Database for Advanced Computer Codes in Relation to the VVER Technology: Benchmark on LB-LOCA Transient in PSB-VVER Facility – final results”, 8th Int. Conf. on Nuclear Option in Countries with Small and Medium Electricity Grids, Dubrovnik (Hr), pages 1-12, May 16-20, 2010, ISBN 978-953-55224-3-0, https://inis.iaea.org/search/search.aspx?orig_q=RN:41086744
- [866] **2010 – Dusic M., D’Auria F., Petrucci A., Dutton L. M. C., Glaeser H., Mavko B., Pelayo F.**, “IAEA SSG-2 Deterministic Safety Analysis for NPP”, 3rd Joint US-European Fluids Engineering Summer Meeting and 8th International Conference on Nanochannels, Microchannels and Minichannels – ASME 2010, Montreal (Ca), Aug. 1-5, 2010, FEDSM-ICNMM 2010-31285
- [867] **2010 – Coscarelli E., Del Nevo A., D’Auria F.**, “Post Test Analysis of LB LOCA transient in PSB-VVER by Cathare2 Code”, Int. Conf. on Nuclear Engineering (ICON18-30332), Xi’an (China), May 17-21, 2010
- [868] **2010 – Agresta G., Araneo D., D’Auria F.**, “Fracture Mechanics Analysis in a Pressurized Heavy Water Reactor Vessel during LOCA Scenario”, Int. Conf. Nuclear Energy for New Europe, Portoroz (Slo), ISBN 978-961-6207-31-7, Vol. 503, pages 1-9, Sept. 6-9, 2010
- [869] **2010 – Kotev G., Pecchia M., Parisi C., D’Auria F.**, “Mox Benchmark Calculations by Deterministic and Monte Carlo Codes”, Int. Conf. Nuclear Energy for New Europe, Portoroz (Slo), ISBN 978-961-6207-31-7, Vol. 209, pages 1-8, Sept. 6-9, 2010
- [870] **2010 – Coscarelli E., Del Nevo A., D’Auria F.**, “Numerical Investigation of Natural Circulation during a Small Break LOCA Scenarios in a PWR-System Using the TRACE v5.0 Code”, Int. Conf. Nuclear Energy for New Europe, Portoroz (Slo), ISBN 978-961-6207-31-7, Vol 811, pages 1-11, Sept. 6-9, 2010
- [871] **2010 – Rozzia D., Adorni M., Del Nevo A., D’Auria F.**, “Predictability of CNEA PHWR MOX Experiments by mean of TRANSURANUS Code, from the IFPE Database”, Int. Conf. Nuclear Energy for New Europe, Portoroz (Slo), ISBN 978-961-6207-31-7, Vol. 504, pages 1-9, Sept. 6-9, 2010
- [872] **2010 – Toth I., Prior R., Sandervag O., Umminger K., Nakamura H., Muellner N., Cherubini M., Del Nevo A., D’Auria F., Dreier J., Alonso J.R., Amri A.**, “Core Exit Temperature Effectiveness in Accident Management of Nuclear Power Reactor”, **OECD/NEA NEA/CSNI/R(2010)9, Paris (F), Nov. 26, 2010, pages 1-138, JT03293388**
- [873] **2010 – Mengali L., Melideo D., Moretti F., Terzuoli F., D’Auria F., Mazzantini O.**, “CFD calculation of the pressure drop through a rupture disk”, CFD4NRS Third Workshop, Washington D.C. (USA), Sept. 14-16, 2010
- [874] **2010 – Melideo D., Moretti F., Terzuoli F., D’Auria F., Mazzantini O.**, “Calculation of pressure drops through Atucha-II fuel assembly spacer grids”, CFD4NRS Third Workshop, Washington D.C. (USA), Sept. 14-16, 2010
- [875] **2010 – D’Auria F.**, “Error sources considered in the ‘UMAE driven’ CIAU Methodology”, Invited at ASME Conf. ‘Verification and Validation of Nuclear Systems Analysis Workshop II’, Myrtle Beach, (SC,US), May 24-28, 2010

- [876] **2010 – D’Auria F., Muellner N., Parisi C., Petrucci A.**, “BEPU Approach in Licensing Framework, including 3D NK Applications”, Chapter of the INTECH Book ‘New Trends in Technologies: Devices, Computer, Communication, and Industrial Systems’, Edited by M. J. Er, © 2010, ISBN 978-953-307-212-8, Chapter 11, pages 197-216, Nov. 2010
- [877] **2010 – Pla P., Parisi C., D’Auria F.**, “Boron dilution and boron transport after SBLOCA in PWR and VVER-1000 nuclear reactors”, Book ‘Boron dilution in Pressurizer Water Reactors’, LAP Lamber Academic Publishing, © 2010, ISBN 978-3-8383-8373-6, pages 1-297, 2010
- [878] **2010 – Bousbia Salah A., D’Auria F., Hamidouche T.**, “Natural circulation cooling and safety features in engineering and industrial applications”, Book ‘Insights into Natural Circulation, Phenomena, Models and Issues’, LAP Lamber Academic Publishing, © 2010, ISBN 978-3-8433-8016-4, pages 1-163, 2010
- [879] **2010 – D’Auria F.**, “ATLAS Program & Physical Models of SPACE, Critical evaluation of currnet status”, KAERI, Daejeon (Korea), Nov. 22-26, 2010
- [880] **2010 – D’Auria F., Muellner N., Mazzantini O.**, “The BEPU (Best Estimate Plus Uncertainty) Challenge in Current Licensing of Nuclear Reactors”, American Nuclear Society Annual Meeting <Nuclear Science and Technology. The Right Fit. The Right Time.>, June 13–17, 2010, San Diego (Ca, US) [also ANS Transactions, 2010]
- [881] **2010 – Del Nevo A., D’Auria F.**, “Predictability of Boron Transport Phenomenon in PWR Based on PKL Experimental Program”, American Nuclear Society Annual Meeting <Nuclear Science and Technology — The Right Fit. The Right Time.>, June 13–17, 2010, San Diego (Ca, US) [also ANS Transactions, 2010]
- [882] **2010 – Petrucci A., Bajs T., D’Auria F., Reventos F.**, “Training on Scaling, Uncertainty, 3-D Coupled Calculations in Nuclear Technology”, American Nuclear Society Annual Meeting <Nuclear Science and Technology. The Right Fit. The Right Time.>, June 13–17, 2010, San Diego (Ca, US) [also ANS Transactions, 2010]
- [883] **2010 – M. Pérez, Reventos F., Batet L., Pericas L. Toth I., Bazin, P. de Crecy A., Germain P. Borisov S., Glaeser H., Skorek T., Joucla J., Probst P., Ui A., Chung B. D., Oh D. Y., Kyncl M., Pernica R., Manera A., D’Auria F., Petrucci A., Del Nevo A.**, “Main Results of Phase IV BEMUSE Project: Simulation of LBLOCA in an NPP”, *J. Science and Technology of Nuclear Installations*, Vol 2010, Article ID 219294, 9 pages, doi:10.1155/2010/219294
- [884] **2011 – Adorni M., Del Nevo A., D’Auria F., Mazzantini O.**, “A Procedure to Address the Fuel Rod Failures during LB-LOCA Transient in Atucha-2 NPP”, *J. Science and Technology of Nuclear Installations*, Vol. 2011, Article ID 929358, ISBN 1687-6075, doi 10.1155/2011/929358, pages 1-7
- [885] **2011 – Lorenzo G., Zanocco P., Giménez M., Marquès M., Iooss B., Bolado Lavín R., Pierro F., Galassi G. M., D’Auria F., Burgazzi L.**, “Assessment of an Isolation Condenser of an Integral Reactor in View of Uncertainties in Engineering Parameters”, *J. Science and Technology of Nuclear Installations*, Vol. 2011, Article ID 827354, ISBN 1687-6075, doi 10.1155/2011/827354, pages 1-9
- [886] **2011 – Peccia M., Parisi C., D’Auria F., Mazzantini O.**, “Development and Application of MCNP5 and KENO-VI Monte Carlo Models for the Atucha-2 PHWR Analysis”, *J. Science and Technology of Nuclear Installations*, Vol. 2011, Article ID 683147, ISBN 1687-6075, doi 10.1155/2011/683147, pages 1-7
- [887] **2011 – Araneo D., Ferrara P., Moretti F., Rossi A., Latini A., D’Auria F., Mazzantini O.**, “Integrated Software Environment for Pressurized Thermal Shock Analysis”, *J. Science and Technology of Nuclear Installations*, Vol. 2011, Article ID 840734, ISBN 1687-6075, doi 10.1155/2011/840734, pages 1-7
- [888] **2011 – D’Auria F., Mazzantini O.**, “The Best Estimate Plus Uncertainty Challenge in the Current Licensing Process of Present Reactors”, *J. Science and Technology of Nuclear Installations*, Vol. 2011, Article ID 958218, ISBN 1687-6075, doi 10.1155/2011/958218, pages 1-9
- [889] **2011 – Rozzia D., Adorni M., Del Nevo A., D’Auria F.**, “Capabilities of TRANSURANUS code in simulating power ramp tests from the IFPE database”. *J. Nuclear Engineering and Design*, Vol. 241 (2011), ISBN 0029-5493, pages 1078-1086
- [890] **2011 – Bucalossi A., Moretti F., Melideo D., Del Nevo A., D’Auria F., Hohne T., Lisenkov E., Gallori D.**, “Experimental investigation of in-vessel mixing phenomena in a VVER-1000 scaled test facility during unsteady asymmetric transients”, *J. Nuclear Engineering and Design*, Vol. 241 (2011), ISBN 0029-5493, pages 3068-3075
- [891] **2011 – Mascari F., Vella G., Woods B. G., Welter K., Pottorf J., Young E., Adorni M., D’Auria F.**, “Sensitivity analysis of the MASLWR helical coil steam generator using TRACE”, *J. Nuclear Engineering and*

Design, Vol. 241 (2011), ISBN 0029-5493, pages 1137-1144

- [892] **2011 – D’Auria F.**, “Comments on ‘Critical review of conservation equations for two-phase flow in the U.S. NRC TRACE code’ by W. Wulff”, **J. Nuclear Engineering and Design**, Vol. 241 (2011), ISBN 0029-5493, pages 4277-4279
- [893] **2011 – Perez M., Reventos F., Batet L., Guba A., Tóth I., Mieusset T., Bazin P., De Crécy A., Borisov S., Skorek T., Glaeser H., Joucla J., Probst P., Ui G., Chung B. D., Oh D. Y., Pernica R., Kyncl M., Macek J., Manera A., Freixa J., Petrucci A., D’Auria F., Del Nevo A.**, “Uncertainty and sensitivity analysis of a LBLOCA in a PWR Nuclear Power Plant: Results of the Phase V of the BEMUSE programme”, **J. Nuclear Engineering and Design**, Vol. 241 (2011), ISBN 0029-5493, pages 4206-4222
- [894] **2011 – Vanni A., Petrucci A., Fiori F., Kovtomyuk A., Lisovyy O., D’Auria F.**, “Use of FFTBM for characterizing input uncertainty parameter ranges” (Presentation)^{&&&2} OECD/NEA/CSNI Brainstorming Meeting to address BEMUSE Follow-up, UPC, Barcelona (Spain), April 6-7, 2011
- [895] **2011 – Main Authors: Camargo C., Petrucci A., Kristof. M. Contributors and Reviewers: Aksan N., Azeez S., Daiyong S., Fil N., Lobre J., Song J.H., Xijiu Q., Galetti R., Cherubini M., D’Auria F., Fiori F., Giannotti W., Kovtomyuk A.**, “NPP Design Technical Evaluation”, Book ‘NPP Design Technical Evaluation’, Final Technical Report, Third Agreement NA-SA – UNIPI-GRNSPG, pages 1-604, May 2011
- [896] **2011 – D’Auria F., Giannotti W., Cherubini M.**, “Integrated Approach for Actual Safety Analysis”, Chapter of the Book ‘Nuclear Power – Operation, Safety and Environment’, © 2011, ISBN 978-953-307-507-5, Chapter 2, pp 29-46, Sept. 2011
- [897] **2011 – Rozzia D., Del Nevo A., Adorni M., D’Auria F.**, “Assessment of FGR by TRANSURANUS Code in LWR Fuels Subjected to Power Ramps, From the IFPE Database”, Int. Conf. Nuclear Energy for New Europe, Bovec (Slo), Vol. 903, pages 1-10, Sept. 12-15, 2011 [*Winner of Award for Young Author*], ISBN 978-961-6207-32-4, www.nss.si/nene2011
- [898] **2011 – Adorni M., Del Nevo A., D’Auria F.**, “Methodology for the analysis of Fuel Behavior during LOCA and RIA”, Int. Conf. Nuclear Energy for New Europe, Bovec (Slo), Vol. 813, pages 1-10, Sept. 12-15, 2011, ISBN 978-961-6207-32-4, www.nss.si/nene2011
- [899] **2011 – Martinucci M., Tambasco P., Muellner N., D’Auria F.**, “NPP Analyzers – Evolution, State of the Art and Future Trends with a reference to the INPACEA Project”, Int. Conf. Nuclear Energy for New Europe, Bovec (Slo), Vol. 505, pages 1-10, Sept. 12-15, 2011, ISBN 978-961-6207-32-4, www.nss.si/nene2011
- [900] **2011 – Laudazi F., Muellner N., D’Auria F.**, “Nuclear Technology Master: a New Tool for Supervising and Transfer Knowledge of Nuclear Technology”, Int. Conf. Nuclear Energy for New Europe, Bovec (Slo), Vol. 1110, pages 1-10, Sept. 12-15, 2011, ISBN 978-961-6207-32-4, www.nss.si/nene2011
- [901] **2011 – Giersch M., Muellner N., D’Auria F.**, “Security Concepts for an Integrated NPP Simulator”, Int. Conf. Nuclear Energy for New Europe, Bovec (Slo), Vol. 1112, pages 1-10, Sept. 12-15, 2011, ISBN 978-961-6207-32-4, www.nss.si/nene2011
- [902] **2011 – Del Frate L., Galassi M.C., Moretti F., D’Auria F., Galassi G. M.**, “CFD Simulations of a Normally-Impinging Jet from a Circular Nozzle”, Int. Conf. Nuclear Energy for New Europe, Bovec (Slo), paper No 820, pages 1-10, Sept. 12-15, 2011, ISBN 978-961-6207-32-4, www.nss.si/nene2011
- [903] **2011 – Da Silva Lapa N., Giannotti W., D’Auria F.**, “Evaluation of the Simulation of Severe Accidents in Angra 2 Using Melcor 1.8.5 Code Compared with RELAP5/MOD3”, Int. Conf. Nuclear Energy for New Europe, Bovec (Slo), paper No 909, pages 1-10, Sept. 12-15, 2011, ISBN 978-961-6207-32-4, www.nss.si/nene2011
- [904] **2011 – Araneo D., D’Auria F., Burgazzi L., Bykov M., Marques M., Sarathy U.P., Jain V., Gimenez M., Williams B. G., Subki M.H., Lyubarskiy A.**, “Summary of the Activities and main achievements in IAEA CRP131018: Development of Methodologies for the Assessment of Passive Safety System Performance”, Int. Conf. Nuclear Energy for New Europe, Bovec (Slo), Vol. 516, pages 1-10, Sept. 12-15, 2011, ISBN 978-961-6207-32-4, www.nss.si/nene2011
- [905] **2011 – Giersch M., Muellner N., D’Auria F.**, “Cyber-Security in a Nuclear Power Plant Simulator”, Int. Topical Meet. On Nuclear Reactor Thermal-Hydraulics (NURETH-14), Article No 505, Toronto (Ontario, Canada), Sept. 25-30, 2011

- [906] **2011 – Del Nevo A., Michelotti L., D’Auria F., Moretti F., Rozzia D.**, “Void Fraction Prediction of NUPEC PSBT Tests by CATHARE Code”, Int. Topical Meet. On Nuclear Reactor Thermal-Hydraulics (NURETH-14), Article No 415, Toronto (Ontario, Canada), Sept. 25-30, 2011
- [907] **2011 – Pla P., Parisi C., Galetti R., D’Auria F., Galassi G. M., Reventos F.**, “Basis for Calculating Boron Dilution Scenarios in PWR by 3D Neutron Kinetics”, Int. Topical Meet. On Nuclear Reactor Thermal-Hydraulics (NURETH-14), Article No 499, Toronto (Ontario, Canada), Sept. 25-30, 2011
- [908] **2011 – Petruzzi A., Muellner N., D’Auria F., Mazzantini O.**, “The BEPU (Best Estimate Plus Uncertainty) Challenge in Current Licensing of Nuclear Reactors”, Int. Topical Meet. On Nuclear Reactor Thermal-Hydraulics (NURETH-14), Article No 344, Toronto (Ontario, Canada), Sept. 25-30, 2011
- [909] **2011 – Muellner N., Camusso P., Mazzantini O., D’Auria F.**, “RELAP5 Based Subchannel Analysis for Licensing of Atucha2 NPP”, Int. Topical Meet. On Nuclear Reactor Thermal-Hydraulics (NURETH-14), Article No 514, Toronto (Ontario, Canada), Sept. 25-30, 2011
- [910] **2011 – Kovtoneyuk A., Petruzzi A., D’Auria F.** “Error Sources Considered in the ‘UMAE Driven’ CIAU Methodology”, Int. Topical Meet. On Nuclear Reactor Thermal-Hydraulics (NURETH-14), Article No 345, Toronto (Ontario, Canada), Sept. 25-30, 2011
- [911] **2011 – Coscarelli E., Raimato A., Araneo D., Cherubini M., Muellner N., D’Auria F.**, “Accuracy Assessments with Fast Fourier Transform Based Method (FFTBM)”, Int. Topical Meet. On Nuclear Reactor Thermal-Hydraulics (NURETH-14), Article N. 536, Toronto (Ontario, Canada), Sept. 25-30, 2011
- [912] **2011 – Agresta G., Araneo D., D’Auria F.**, “Fracture Mechanics Analysis on VVER1000 RPV with different Methodologies”, Int. Topical Meet. On Nuclear Reactor Thermal-Hydraulics (NURETH-14), Article No 537, Toronto (Ontario, Canada), Sept. 25-30, 2011
- [913] **2011 – Glaeser H., D’Auria F., De Crécy A., Reventos F.**, “Main Results of the OECD Best Estimate Methods, Uncertainty and Sensitivity Evaluation (BEMUSE) Programme”, Int. Topical Meet. On Nuclear Reactor Thermal-Hydraulics (NURETH-14), Article No 71, Toronto (Ontario, Canada), Sept. 25-30, 2011
- [914] **2011 – Reventos F., Glaeser H., D’Auria F., De Crécy A.**, “Uncertainty and Sensitivity Analysis for a Nuclear Power Plant Large Break Loss of Coolant Accident (LB-LOCA) in the Context of OECD BEMUSE Programme”, Int. Topical Meet. On Nuclear Reactor Thermal-Hydraulics (NURETH-14), Article No 355, Toronto (Ontario, Canada), Sept. 25-30, 2011
- [915] **2011 – Nakamura H., Toth I., Sandervag O., Umminger K., Dreier J., Prior R., Alonso J. R., Muellner N., D’Auria F., Amri A., Muhleisen A.**, “Effectiveness of Core Exit Thermocouple (CET) Temperature Indication in Accident Management of Light Water Reactors”, Int. Topical Meet. On Nuclear Reactor Thermal-Hydraulics (NURETH-14), Article No 275, Toronto (Ontario, Canada), Sept. 25-30, 2011
- [916] **2011 – Coscarelli E., Del Nevo A., D’Auria F.**, “Qualification of TRACE V5 code against fast cooldown transient in the PKL-III Integral Test Facility”, Int. Topical Meet. On Nuclear Reactor Thermal-Hydraulics (NURETH-14), Article No 419, Toronto (Ontario, Canada), Sept. 25-30, 2011
- [917] **2011 – D’Auria F., Mazzantini O.**, “The Best-Estimate Plus Uncertainty (BEPU) Challenge in the Licensing of Nuclear Power Plants (NPP)”, Invited (Plenary Session) at International Nuclear Atlantic Conference – INAC 2011, Associação Brasileira de Energia Nuclear – ABEN, Belo Horizonte (MG, Brazil), October 24-28, 2011, ISBN 978-85-99141-04-5, www.aben.com.br
- [918] **2011 – Petruzzi A., D’Auria F., Galetti R., Bajs T., Reventos F.**, “Acquired experience on organizing 3D S.UN.COP: International Course to support Nuclear Licensing by user training in the areas of Scaling, Uncertainty, and 3D Thermalhydraulics/ Neutron-Kinetics CouPled Codes”, International Nuclear Atlantic Conference – INAC 2011, Associação Brasileira de Energia Nuclear – ABEN, Belo Horizonte (MG, Brazil), October 24-28, 2011, ISBN 978-85-99141-04-5, www.aben.com.br
- [919] **2011 – D’Auria F., Glaeser H.**, “The Findings from the OECD/NEA/CSNI UMS (Uncertainty Method Study)”, Invited at OECD/NEA/CSNI Workshop on Best Estimate Methods and Uncertainty Evaluations, Barcelona (Spain), paper S21, Nov. 16-18, 2011, [also OECD/NEA/CSNI R(2013)8 - JT03349504, Paris (F)]
- [920] **2011 – Petruzzi A., Fiori F., Kovtoneyuk A., Lisovyy O., D’Auria F.**, “Supporting Database for Uncertainty Evaluation”, OECD/NEA/CSNI Workshop on Best Estimate Methods and Uncertainty Evaluations, Barcelona (Spain), Paper S15, Nov. 16-18, 2011, [also OECD/NEA/CSNI R(2013)8 - JT03349504, Paris (F)]

- [921] **2011 – Kovtonyuk A., Petruzzi A., Raucci M., De Luca D., Veronese F., D’Auria F.**, “A Procedure for Characterizing the Range of Input Uncertainty Parameters by the Use of FFTBM”, OECD/NEA/CSNI Workshop on Best Estimate Methods and Uncertainty Evaluations, Barcelona (Spain), Paper S16, Nov. 16-18, 2011, [also OECD/NEA/CSNI R(2013)8 - JT03349504, Paris (F)]
- [922] **2011 – D’Auria F., Muellner N., Martinucci M., Laudazi F., D’Amato R., Tambasco P.**, “NUTEMA: a tool for supervising nuclear technology and for the transfer of knowledge”, *J. Nuclear Knowledge Management*, Vol. 5, No. 4, 2011, DOI 10.1504/IJNKM.2011.045706, pages 334 – 347
- [923] **2011 – Lysenkov E.A., Bezrukov Yu. A., Ulianovskiy D.V., Zaytsev D.V., Bykov M. A., Shishov A.V., Moretti F., Del Nevo A., D’Auria F., Rohde U., Höhne T., Gallori D.**, “Investigation of Coolant Mixing in Reactor VVER-1000”, International Congress on Advances in Nuclear Power Plants (ICAPP 2011), paper 11026, pp 1359-1366, Nice (F), May 2-6, 2011, ISBN: 978-1-61839-809-3 <https://www.sfen.fr/ICAPP-11>
- [924] **2011 – Fiori F., Kovtonyuk A., Muellner N., D’Auria F.**, “An Integrated Software Platform for Best Estimate Safety Analyses of Nuclear Power Plants”, International Congress on Advances in Nuclear Power Plants (ICAPP 2011), paper 11478 pp 1409-1410, Nice (F), May 2-6, 2011, ISBN: 978-1-61839-809-3(°), <https://www.sfen.fr/ICAPP-11>
- [925] **2011 – Michelotti L., Rozzia D., Del Nevo A., D’Auria F.**, “Prediction of Void Fraction in PWR Subchannel by CATHARE2 Code”, International Congress on Advances in Nuclear Power Plants (ICAPP 2011), paper 11396, pp 1921-1927, Nice (F), May 2-6, 2011, ISBN: 978-1-61839-809-3, <https://www.sfen.fr/ICAPP-11>
- [926] **2011 – Petruzzi A., D’Auria F.**, “CIAU Method for Uncertainty Evaluation for System Thermal-Hydraulic Code Calculations”, International Congress on Advances in Nuclear Power Plants (ICAPP 2011), paper 11452, pp 2045-2054, Nice (F), May 2-6, 2011, ISBN: 978-1-61839-809-3, <https://www.sfen.fr/ICAPP-11>
- [927] **2011 – Rozzia D., Adorni M., Del Nevo A., D’Auria F.**, “Capabilities of TRANSURANUS Code in Simulating BWR Super-Ramp Project”, International Congress on Advances in Nuclear Power Plants (ICAPP 2011), paper 11402, pp 2262-2271, Nice (F), May 2-6, 2011, ISBN: 978-1-61839-809-3, <https://www.sfen.fr/ICAPP-11>
- [928] **2011 – Petruzzi A., D’Auria F., Bajs T., Reventos F.**, “International Training Program in Support of Safety Analysis: 3C S.UN.COP – Scaling, Uncertainty and 3D Thermal-Hydraulics/Neutron-Kinetics Coupled Codes Seminars”, International Congress on Advances in Nuclear Power Plants (ICAPP 2011), paper 11451, pp 2579-2589, Nice (F), May 2-6, 2011, ISBN: 978-1-61839-809-3, <https://www.sfen.fr/ICAPP-11>
- [929] **2011 – Mascari F., Vella G., Woods B. G., D’Auria F.**, “Analysis of the Multi-Application Small Light-Water Reactor (MASLWR) Design Natural Circulation Phenomena”, International Congress on Advances in Nuclear Power Plants (ICAPP 2011), paper 11481, pp 2763-2773, Nice (F), May 2-6, 2011 ISBN: 978-1-61839-809-3, <https://www.sfen.fr/ICAPP-11>
- [930] **2011 – Reventos F., Glaeser H., D’Auria F. De Crecy A.**, “Main Results of OECD BEMUSE Program”, OECD/CSNI Workshop on Best Estimate Methods and Uncertainty Evaluations, Barcelona (Spain), Paper S22, Nov. 16-18, 2011, [also OECD/NEA/CSNI R(2013)8 - JT03349504, Paris (F)]
- [931] **2012 – Petruzzi A., Fiori F., Kovtonyuk A., D’Auria F.**, “Supporting Qualified Database for Uncertainty Evaluation” International Congress on Advances in Nuclear Power Plants (ICAPP 2012), paper 12085, Chicago (US), June 24-28, 2012 ISBN: 978-1-62276-210-1
- [932] **2012 – D’Auria F., Camargo C., Muellner N., Lanfredini M., Mazzantini O.**, “The simulation of I & C in accident analyses of nuclear power plants”, *J. Nuclear Engineering and Design*, Vol. 250 (2012), ISBN 0029-5493, pp 656-663
- [933] **2012 – Bucalossi A., Del Nevo A., Moretti F., D’Auria F., Elkin I.V., Melikhov O.I.**, “Investigation of accident management procedures related to loss of feedwater and station blackout in PSB-VVER integral test facility”, *J. Nuclear Engineering and Design*, Vol. 250 (2012), ISBN 0029-5493, pages 633-645
- [934] **2012 – Pecchia M., Kotev G., Parisi C., D’Auria F.**, “Mox benchmark calculations by deterministic and Monte Carlo codes”, *J. Nuclear Engineering and Design*, Vol. 246 (2012), ISBN 0029-5493, pages 63-68
- [935] **2012 – D’Auria F., Camargo C., Mazzantini O.**, “The Best Estimate Plus Uncertainty (BEPU) approach in licensing of current nuclear reactors”, *J. Nuclear Engineering and Design*, Vol. 248 (2012), ISBN 0029-5493, pages 317-328
- [936] **2012 – Pla P., Annunziato A., Addabbo C., Galassi G., D’Auria F.**, “Preservation and use of integral system

test facilities data: The experience of the LOBI data and the STRESA database”, *J. Progress in Nuclear Energy*, Vol. 56 (2012), ISSN 0149-1970, pages 79-90

- [937] **2012 – Canuti E., Petrucci A., D’Auria F., Kozlowski T.**, “Sensitivity Studies for the Exercise I-1 of the OECD/UAM Benchmark”, *J. Science and Technology of Nuclear Installations*, Vol. 2012, Article ID 817185, doi:10.1155/2012/817185, 10 pages
- [938] **2012 – Del Nevo A., Rozzia D., Moretti F., D’Auria F.**, “OECD/NRC PSBT Benchmark: Investigating the CATHARE2 Capability to Predict Void Fraction in PWR Fuel Bundle”, *J. Science and Technology of Nuclear Installations*, Vol. 2012, Article ID 757356, doi:10.1155/2012/757356, 10 pages
- [939] **2012 – Mascari F., Vella G., Woods B.G., D’Auria F.**, “Analyses of the OSU-MASLWR Experimental Test Facility”, *J. Science and Technology of Nuclear Installations*, Vol. 2012, Article ID 528241, doi:10.1155/2012/528241, 19 pages
- [940] **2012 – D’Auria F., Galassi G.M., Pla P., Adorni M.**, “The Fukushima Event: The Outline and the Technological Background”, *J. Science and Technology of Nuclear Installations*, Vol. 2012, Article ID 507921, doi:10.1155/2012/507921, 25 pages
- [941] **2012 – Reventos F., Pla P., Matteoli C., Nacci G., Cherubini M., Del Nevo A., D’Auria F.**, “Consistent Post-test Calculations for LOCA Scenarios in LOBI Integral Facility”, *J. Science and Technology of Nuclear Installations*, Vol. 2012, Article ID 474162, doi:10.1155/2012/474162, 16 pages
- [942] **2012 – Del Nevo A., Adorni M., D’Auria F., Melikhov O. I., Elkin I. V., Schekoldin V. I., Zakutaev M. O., Zaitsev S. I., Benčík M.**, “Validation of Advanced Computer Codes for VVER Technology: LB-LOCA Transient in PSB-VVER Facility”, *J. Science and Technology of Nuclear Installations*, Vol. 2012, Article ID 480948, doi:10.1155/2012/480948, 15 pages
- [943] **2012 – Rozzia D., Del Nevo A., Adorni M., D’Auria F.**, “Modeling of BWR Inter-Ramp Project experiments by means of TRANSURANUS code”, *J. Annals of Nuclear Energy*, Vol. 50 (2012), pages 238-250
- [944] **2012 – D’Auria F., Lanfredini M., Muellner N.**, “Scaling analysis in BEPU licensing of LWR”, *J. Nuclear Engineering and Technology*, Vol 44, No 6, Aug. 2012, DOI 10.5516/NET.02.2012.711, pages 611-622
- [945] **2012 – Cherubini M., Lazzerini D., Giannotti W., D’Auria F.**, “International Standard Problem No 50 – The University of Pisa contribution”, *J. Nuclear Engineering and Technology*, Vol 44, No 6, Aug. 2012, DOI 10.5516/NET.02.2012.711, pages 587-596 [<http://dx.doi.org/10.5516/NET.02.2012.709>]
- [946] **2012 – D’Auria F.**, “Perspectives in System Thermal-Hydraulics”, *J. Nuclear Engineering and Technology*, Vol 44, No 8, Dec. 2012, DOI 10.5516/NET.02.2012.718, pages 855-871
- [947] **2012 – Araneo D., D’Auria F.**, “Methodology for Pressurized Thermal Shock Analysis in Nuclear Power Plant”, *Chapter of the Book ‘Applied Fracture Mechanics’*, edited by Alexander Belov, ISBN 978-953-51-0897-9, DOI: 10.5772/2823, Chapter 9, pp 263-280, Dec. 2012
- [948] **2012 – D’Auria F., Petrucci A., Muellner N., Mazzantini O.**, “The BEPU (Best Estimate Plus Uncertainty) challenge in current licensing of nuclear reactors”, ENS-TOPSAFE, Int. Top. Meet. On Safety of Nuclear Installations, Helsinki (Finland), April 22 – 26, 2012, ISBN 978-92-95064-15-7
- [949] **2012 – Del Nevo A., Kovtomyuk A., D’Auria F.**, “Cathare-2 simulation of the main steam line break transient in PKL-III facility”, ENS-TOPSAFE, Int. Top. Meet. On Safety of Nuclear Installations, Helsinki (Finland), April 22 – 26, 2012, 978-92-95064-15-7
- [950] **2012 – Bestion D., D’Auria F., Jeong J. J., Kim M.**, “V & V in System Thermal-Hydraulics”, ASME Verification and Validation Symposium (V&V 2012), Las Vegas (NV, US), May 2-4, 2012
- [951] **2012 – D’Auria F.**, “The Best-Estimate Plus Uncertainty in Licensing of Current Nuclear Reactors”, Croatian Nuclear Society, Zadar (Croatia), June 3 – 6, 2012
- [952] **2012 – Fiori F., Kovtomyuk A., Lisovyy O., Kovtomyuk M., Petrucci A., D’Auria F.**, “Supporting Qualified Database for Uncertainty Evaluation”, Croatian Nuclear Society, Zadar (Croatia), June 3 – 6, 2012
- [953] **2012 – Gonzalez R., Petrucci A., D’Auria F., Mazzantini O.**, “Identification of Limiting Case between DBA and SDDBA (CL Break Area Sensitivity): A New Model for the Boron Injection System”, Croatian Nuclear Society, Zadar (Croatia), June 3 – 6, 2012

- [954] **2012 – Raimato A., Lamanna L., Araneo D., D'Auria F.**, “Validation of Methodology for Reliability Analysis of Passive Safety Systems”, Croatian Nuclear Society, Zadar (Croatia), June 3 – 6, 2012
- [955] **2012 – Pecchia M., D'Auria F., Mazzantini O.**, “Validation of Atucha-2 PHWR RELAP5-3D Control Rod Model by Monte Carlo MCNP5 Core Calculation”, Croatian Nuclear Society, Zadar (Croatia), June 3 – 6, 2012
- [956] **2012 – Cantini F., Adorni M., D'Auria F.**, “Nuclear Fuel Modelling During Power Ramp”, Croatian Nuclear Society, Zadar (Croatia), June 3 – 6, 2012
- [957] **2012 – Araneo D., Raimato A., Lamanna L., D'Auria F., Burgazzi L., Bykov M., Marques M., Sarathy U. P., Jain V., Giménez M., Williams B. G., Subki M. H., Lyubarskiy A.**, “Qualification of methodologies for reliability analysis of passive system against experimental data”, 11th International Conference on Probabilistic Safety Assessment and Management (PSAM11–ESREL2012), Helsinki (Finland), June 25-29, 2012
- [958] **2012 – Lanfredini M., Muellner N., Camargo C., D'Auria F., Mazzantini O.**, “On Boundary Conditions for Instrumentation and Control Systems in Safety”, Int. Conf. Nuclear Energy for New Europe, Ljubljana (Slo), Sept. 5-7, 2012
- [959] **2012 – Coscarelli E., Galassi G.M., Araneo D., D'Auria F.**, “Analytical study of Inherent Boron Dilution phenomenon during a Small Break LOCA scenario in a PWR-System using the TRACE v5.0 code”, Int. Conf. Nuclear Energy for New Europe, Ljubljana (Slo), Sept. 5-7, 2012
- [960] **2012 – Giersch M., Muellner N., Camargo C., D'Auria F.**, “Integrated Nuclear Knowledge Management System – NUTEMA”, Int. Conf. Nuclear Energy for New Europe, Ljubljana (Slo), Sept. 5-7, 2012
- [961] **2012 – D'Auria F., Mazzantini O.**, “The Best-Estimate Plus Uncertainty (BEPU) Challenge in the Licensing of Current Generation of Reactors”, 9th International Topical Meeting on Nuclear Thermal-Hydraulics, Operation and Safety (NUTHOS-9), Kaohsiung, (Taiwan), Sept. 9-13, 2012
- [962] **2012 – Lanfredini M., Muellner N., D'Auria F., Arnold N., Sholly S., Kromp W.**, “Main Steam Line Break Analysis with Failure of all Main Steam Isolation Valves in a BWR (Peach Bottom)”, 9th International Topical Meeting on Nuclear Thermal-Hydraulics, Operation and Safety (NUTHOS-9), Kaohsiung, (Taiwan), Sept. 9-13, 2012
- [963] **2012 – Muellner N., Martinucci M., Tambasco P., D'Amato R., Camargo C., D'Auria F.**, “Adoption of the NUTEMA KM Tool for Pursuing BEPU Approach in Licensing”, 9th International Topical Meeting on Nuclear Thermal-Hydraulics, Operation and Safety (NUTHOS-9), Kaohsiung, (Taiwan), Sept. 9-13, 2012
- [964] **2012 – D'Auria F., Prosek A., Yllera J., Dusic M., Petrucci A., Weerakkody S.**, “Synthesis of the IAEA Technical Meeting on Synergy between DSA and PSA”, 9th International Topical Meeting on Nuclear Thermal-Hydraulics, Operation and Safety (NUTHOS-9), Kaohsiung, (Taiwan), Sept. 9-13, 2012
- [965] **2012 – D'Auria F., Muellner N.**, “Current possibilities for performing licensing analyses for accidents in NPP”, Invited at OJSC “N.A. Dollezhal Research and Development Institute of Power Engineering” International Scientific and Technical Conference “Innovative Designs and Technologies of Nuclear Power”, Nov. 27-29, 2012 – OJSC “NIKIET”, Moscow (Russian Federation), <http://www.nikiet.ru>
- [966] **2012 – D'Auria F., Cherubini M., Fiori F., Gonzalez R., Kovtonyuk A., Kovtonyuk M., Lanfredini M., Muellner N., Petrucci A., Veronese F.**, “Recent Applications of RELAP5-3D at GRNSPG”, International RELAP5 Users Group (IRUG) Seminar and Meeting, Sun Valley, Idaho (USA) Oct. 23-24, 2012&
- [967] **2012 – Mascari F., Richiusa M. L., Vella G., Woods B. G., Welter K., D'Auria F.**, “Analysis of the OSU-MASLWR-003A Natural Circulation Test by Using the TRACE Code”, Topical Meeting Advances in Thermal-Hydraulics (ATH '12), San Diego, California (USA), Nov. 11-15, 2012
- [968] **2012 – D'Auria F., Muellner N., Lanfredini M., Mazzantini O.**, “Coupling of Thermal-Hydraulics and I&C for Licensing Analyses”, Invited at Topical Meeting Advances in Thermal Hydraulics (ATH '12), San Diego, California (USA), Nov. 11-15, 2012
- [969] **2012 – Mascari F., Vella G., Woods B. G., Welter K., D'Auria F.**, “Analysis of primary/containment coupling phenomena characterizing the MASLWR design during a SBLOCA scenario”, Chapter of the INTECH Book ‘Nuclear Power Plants’, edited by S.H. Chang, ISBN 978-953-51-0408-7, Chapter 8, March

2012, pp 203-233

- [970] **2012 – Aksan N., Boado R., Burgazzi L., Choi J-H., ChungY-J., D’Auria F., De La Rosa F.C., Gimenez M.O., Ishii M., Khatabil H., Korotaev K., Krepper E., Marques M., Matejovic P., Reyes J., Saha D., Sibamoto Y., Tehrani A., Williams B., Woods B.** (contributors to drafting and review), “Natural Circulation Phenomena and Modeling for Advanced Water Cooled Reactors”, **IAEA TECDOC 1677, Vienna (A)**, March 2012, ISBN 978-92-0-127410-6, ISSN 1011-4289, pages 1-427
- [971] **2012 – Moretti F., D’Auria F.**, “Addressing the accuracy quantification issue for CFD simulation of in-vessel flows”, CFDNRS-4 Conference, Daejeon (Korea), paper 12-1, NEA/CSNI/R(2014)4, JT03352489, Sept. 10-12, 2012
- [972] **2012 – Melideo D., Moretti F., Terzuoli F., D’Auria F., Mazzantini O.**, “Optimization of the Atucha-II fuel assembly spacer grids”, CFDNRS-4 Conference, paper 8-2, NEA/CSNI/R(2014)4, JT03352489, Daejeon (Korea), Sept. 10-12, 2012
- [973] **2012 – Melideo D., Mengali L., Moretti F., Giannotti W., Terzuoli F., D’Auria F., Mazzantini O.**, “Development of a CFD model for investigation of Atucha-II containment”, CFDNRS-4 Conference, paper 8-3, NEA/CSNI/R(2014)4, JT03352489, Daejeon (Korea), Sept. 10-12, 2012
- [974] **2012 – Petruzzi A., Kovtoneyuk A., D’Auria F.**, “A Procedure for Characterizing the Range of Input Uncertainty Parameters by the Use of the FFTBM”, 20th International Conference on Nuclear Engineering and the ASME 2012 Power Conf., Anaheim (US), July 30 - Aug. 3, 2012, paper 54025, ISBN: 978-0-7918-4497-7
- [975] **2012 – Gonzales Gonzales R., Petruzzi A., Kovtoneyuk A., D’Auria F., Mazzantini O.**, “Identification of Limiting Case Between DBA and SBDBA (CL Break Area Sensitivity): A New Model for the Boron Injection System”, 20th International Conference on Nuclear Engineering and the ASME 2012 Power Conf., Anaheim (US), July 30 - Aug. 3, 2012, paper 54066, ISBN: 978-0-7918-4497-7
- [976] **2012 – Adorni M., Del Nevo A., D’Auria F.**, “Methodology for the Analysis of Fuel Behavior During LOCA and RIA for Licensing Purposes”, 20th International Conference on Nuclear Engineering and the ASME 2012 Power Conf., Anaheim (US), July 30 - Aug. 3, 2012, paper 54698, ISBN: 978-0-7918-4497-7
- [977] **2012 – Fiori F., Lisovyy O., Kovtoneyuk A., Veronese F., Kovtoneyuk M., Petruzzi A., D’Auria F.**, “Supporting Qualified Database for Uncertainty Evaluation”, 20th International Conference on Nuclear Engineering and the ASME 2012 Power Conf., Anaheim (Ca, US), July 30 - Aug. 3, 2012, paper 54023, ISBN: 978-0-7918-4497-7
- [978] **2012 – Petruzzi A., Muellner N., D’Auria F., Mazzantini O.**, “The Best-Estimate Plus Uncertainty (BEPU) Challenge in the Licensing of Current Generation of Reactors”, 20th International Conference on Nuclear Engineering and the ASME 2012 Power Conf., Anaheim (Ca, US), July 30 - Aug. 3, 2012, paper 54024, ISBN: 978-0-7918-4497-7
- [979] **2012 – Adorni M., Del Nevo A., Rozzia D., D’Auria F.**, “Modeling Large Break-LOCA: In Reactor Fuel Bundle Materials Test MT-4 and MT-6A”, 20th International Conference on Nuclear Engineering and the ASME 2012 Power Conf., Anaheim (Ca, US), July 30 - Aug. 3, 2012, paper 54697, ISBN: 978-0-7918-4497-
- [980] **2012 – Petruzzi A., Kovtoneyuk A., Fiori F., Bajs T., D’Auria F., Reventos F.**, “International Training Program in Support of Safety Analysis: 3D S.UN.COP — Scaling, Uncertainty and 3D Thermalhydraulics/Neutron-Kinetics Coupled Codes Seminar”, 20th International Conference on Nuclear Engineering and the ASME 2012 Power Conf., Anaheim (Ca, US), July 30 - Aug. 3, 2012, paper 55230, ISBN: 978-0-7918-4497-7
- [981] **2012 – Gonzalez Gonzalez R., Petruzzi A., D’Auria F., Mazzantini O.**, “Identification of Limiting Case Between DBA and Selected BDBA (CL Break Area Sensitivity): A New Model for the Boron Injection System”, International Conference on the Physics of Reactors 2012 (PHYSOR 2012) <Advances in Reactor Physics>, Knoxville, (Tn, USA), April 15-20, 2012, ISBN 978-0-89448-085-9, <https://inis.iaea.org/>
- [982] **2012 – Peccia M., D’Auria F., Mazzantini O.**, “Benchmark of Atucha-2 PHWR RELAP5-3D Control Rod Model by Monte Carlo MCNP5 Core Calculation”, International Conference on the Physics of Reactors 2012 (PHYSOR 2012) <Advances in Reactor Physics>, Knoxville (Tn, USA), April 15-20, 2012, ISBN 978-0-89448-085-9, <https://inis.iaea.org/>
- [983] **2013 – D’Auria F.**, “Nuclear Thermal-Hydraulics: from Fundamentals to Applications” *Conferencia pronunciada por el Dr. F. D’Auria el 18 de marzo (2013) en la Academia Nacional de Ciencias de Buenos Aires, Antícpio de Anales de la Academia Nacional de Ciencias de Buenos Aires – Buenos Aires – Año 2013,*

pages 1-44 (www.ciencias.org.ar, info@ciencias.org.ar)

- [984] 2013 – Amri A., D'Auria F., Bajorek S., De Crecy A., Dusic M., Glaeser H., Mendizabal R., Pelayo F., Reventos F., Skorek T., ”OECD/CSNI Workshop on Best Estimate Methods and Uncertainty Evaluations”, NEA/CSNI/R(2013)8/PART1, pages 1-30, 2013, Paris (F)
- [985] 2013 – Kouhia V., Riikonen V., Kauppinen O-P., Purhonen H., Austregesilo H., Bánáti J., Cherubini M., D'Auria F., Inkinen P., Karppinen I., Kral P., Peltokorpi L., Peltonen J., Weber S., “Benchmark exercise on SBLOCA experiment of PWR PACTEL facility”, *J. Annals of Nuclear Energy*, vol 59, 04/2013, pages 149-156
- [986] 2013 – Mascari F., Richiusa M.L., Vella G., Woods B.G., Welter K., D'Auria F., “TRACE Analysis of the MASLWR Primary/Containment Coupling Phenomena in Beyond Design Accident Scenario”, Int. Topical Meet. On Nuclear Reactor Thermal-Hydraulics (NURETH-13), paper 415, Pisa (I), May 13-17, 2013
- [987] 2013 – Kovtoneyuk A., Fiori F., Petrucci A., Kovtoneyuk M., D'Auria F., “Use of Qualified Experimental Database for a System Code Assessment”, Int. Topical Meet. On Nuclear Reactor Thermal-Hydraulics (NURETH-13), paper 693, Pisa (I), May 13-17, 2013
- [988] 2013 – Ibarra L., Andersen J.G.M., Rambo J., Vedovi J., Petrucci A., D'Auria F., “Numerical Modeling of Flow and Heat Transfer During Quenching for a Postulated Loss-of-Coolant Accident”, Int. Topical Meet. On Nuclear Reactor Thermal-Hydraulics (NURETH-13), paper 521, Pisa (I), May 13-17, 2013
- [989] 2013 – Guler A., Cherubini M., Ergun S., D'Auria F., “Probabilistic and Deterministic Safety Analysis: Complementary Use for Safety Performance Evaluation”, Int. Topical Meet. On Nuclear Reactor Thermal-Hydraulics (NURETH-13), paper 460, Pisa (I), May 13-17, 2013
- [990] 2013 – D'Auria F., Aksan S. N., Petrucci A., “General View of the NURETH-15 Conference”, *ANS Transactions*, Vol 109, 1, Nov. 2013, pages 1735-1738
- [991] 2013 – Petrucci A., D'Auria F., Kovtoneyuk A., “SCRED Database to Support BEPU Licensing”, *ANS Transactions*, Vol 109, 1, Nov. 2013, pages 1777-1781
- [992] 2013 – Lutsanych, S., Sabotinov, L., D'Auria F., “Critical Power Prediction by CATHARE2 of the OECD/NRC BFBT Benchmark”, Int. Conf. Nuclear Energy in Central Europe (NENE), Bled (Slo), Sept. 9-12, 2013
- [993] 2013 – Gonzales Gonzales R., D'Auria F., “GRNSPG/UNIPI Activities on KALININ-3 Coolant Transient Benchmark: Best Estimate Coupled Plant Transient Modeling”, Int. Conf. Nuclear Energy in Central Europe (NENE), Bled (Slo), Sept. 9-12, 2013
- [994] 2013 – Batra C., Cherubini M., D'Auria F., Petrucci A., Kozlowski T., “Thermal-Hydraulic Analysis of Fast Breeder Reactor: Protected Loss Of Flow (PLOF) Transient”, Int. Conf. Nuclear Energy in Central Europe (NENE), Bled (Slo), Sept. 9-12, 2013
- [995] 2013 – Coscarelli E., Lutsanych, D'Auria F., “Thermal Hydraulic System Codes Performance in Simulating Bouyancy Flow Mixing Experiment in ROCOM Test Facility”, Int. Conf. Nuclear Energy in Central Europe (NENE), Bled (Slo), Sept. 9-12, 2013
- [996] 2013 – Lisovyy O., Cherubini M., Lazzerini D., D'Auria F., “Base Irradiation Simulation and its Effect on Fuel Behavior Prediction by TRANSURANUS Code: Application to RIA Condition”, Int. Conf. Nuclear Energy in Central Europe (NENE), Bled (Slo), Sept. 9-12, 2013
- [997] 2013 – Fiori F., Kovtoneyuk A., Petrucci A., Kovtoneyuk M., D'Auria F., “RELAP5-3D Assessment Using a Qualified Experimental Database”, 21st International Conference on Nuclear Engineering, Chengdu (PRC), July 29 – Aug. 2, 2013 ISBN: 978-0-7918-5581-2, doi:10.1115/ICONE21-16749
- [998] 2013 – Coscarelli E., Del Nevo A., D'Auria F., “Qualification of TRACE V5.0 Code against Fast Cooldown Transient in the PKL-III Integral Test Facility”, *J. Science and Technology of Nuclear Installations*, Vol 2013, Art. ID 128305, pages 11
- [999] 2013 – D'Auria F., Aksan N., Petrucci A., “NURETH-15, Pisa (Italy), May 12-17, 2013 – Summary”, (invited at the Meeting – not in the Proceedings) ANS Annual Meeting, Atlanta (GA, USA), June 16-20, 2013
- [1000] 2014 – Mascari F., Woods B. G., Welter K., D'Auria F., Vella G. “Updated analysis for the in-progress

NUREG <Analysis of the OSU-MASLWR 001 and 002 test by using the TRACE code>, Prepared for presentation at Spring 2014 CAMP Meeting, Zagreb (Hr), May 14-16, 2014

- [1001] **2014 – Petrucci A., D’Auria F.**, “Supporting Qualified Database for V&V and Uncertainty Evaluation of Best-Estimate System Codes”, ASME-JSME Int. Conf. on Nuclear Engineering (ICON-22) – Prague (CZ), July 7-11, 2014 ISBN: 978-0-7918-4591-2
- [1002] **2014 – Petrucci A., D’Auria F.**, “Supporting Uncertainties in Predictions by System Thermal-Hydraulic Codes: The CASUALIDAD Method”, ASME-JSME Int. Conf. on Nuclear Engineering (ICON-22) – Prague (CZ), July 7-11, 2014 ISBN: 978-0-7918-4591-2
- [1003] **2014 – Kovtonyuk A., Lutsanych S., Petrucci A., Moretti F., D’Auria F.**, “Validation of the FFTBM based Methodology for evaluation of uncertainty of system code input parameters”, ASME-JSME Int. Conf. on Nuclear Engineering (ICON-22) – Prague (CZ), July 7-11, 2014 ISBN: 978-0-7918-4591-2
- [1004] **2014 – Moretti F., D’Auria F.**, “Accuracy quantification metrics for CFD simulation of in-vessel flows”, *J. Nuclear Engineering and Design*, Vol 279, pages 200-209, 2014, ISSN 0029-5493
- [1005] **2014 – D’Auria F., Debrecin N.** “Perspectives in licensing and nuclear reactor safety technology”, Conf. Innovative Designs and Technologies of Nuclear Power (ISTC NIKIET-2014), Moscow (Ru), Oct. 7- 10, 2014
- [1006] **2014 – Petrucci A., D’Auria F., Mazzantini O.**, “The best-estimate plus uncertainty (BEPU) challenge in the licensing of current generation of reactors”, 10th International Topical Meeting on Nuclear Thermal hydraulics, Operation and Safety (NUTHOS-10), Ginowan, Okinawa (J), 14-18, Dec. 2014
- [1007] **2014 – Petrucci A., D’Auria F.**, “Supporting qualified database for V & V and uncertainty evaluation of best-estimate system codes”, 10th International Topical Meeting on Nuclear Thermal hydraulics, Operation and Safety (NUTHOS-10), Ginowan, Okinawa (J), 14-18, Dec. 2014
- [1008] **2014 – Petrucci A., D’Auria F.**, “Uncertainties in predictions by system thermal-hydraulic codes. The CASUALIDAD method”, 10th International Topical Meeting on Nuclear Thermal hydraulics, Operation and Safety (NUTHOS-10), Ginowan, Okinawa (J), 14-18, Dec. 2014
- [1009] **2014 – Kirillov P.L. (Chief Editor), Yur’ev Yu. S., D’Auria F., Migrov Yu. A., Soloviev S.**, “Handbook on Thermo-hydraulic Calculations in Nuclear Power Engineering : Vol. 3, Thermohydraulic Processes under Transient and Irregular Regimes“, (in Russian), IzdAt Publishing House, Moscow (Ru), 2014, pages 1-688, ISBN 978-5-86656-273-2
- [1010] **2014 – Mascari F., De Rosa F., Polidori M., Colletti A.M., Costa A.M., Richiusa M. L., Vella G., Woods B. G., Welter K., D’Auria F.**, “Analysis of the Trace V5 capability for the simulation of natural circulation and Primary/Containment coupling in BDBA conditions typical of MASLWR”, ASME 2014 Small Modular Reactors Symposium (SMR), Washington D.C. (USA) April 15-17, 2014 [SMR2014-3365]
- [1011] **2014 – Horvatovic I., Batra C., Petrucci A., Cherubini M., D’Auria F., Bajs T.**, “Benchmark Analysis of EBR-II Shutdown Heat Removal Test SHRT-17”, 10th Int. Conf. on Nuclear Option in Countries with Small and Medium Electricity Grids Zadar, (Hr), June 1-4, 2014
- [1012] **2014 – Basic I., Kim M., Hughes P., Kim B-K., D’Auria F.**, “IAEA Review for Gap Analysis of Safety Analysis Capability”, 10th Int. Conf. on Nuclear Option in Countries with Small and Medium Electricity Grids Zadar, (Hr), June 1-4, 2014
- [1013] **2014 – Gonzales Gonzales R., Petrucci A., D’Auria F., Mazzantini O.**, “Identification of limiting case between DBA and SBDBA (CL break area sensitivity): A new model for the boron injection system”, *J. Nuclear Engineering and Design*, Vol 275, pages 1-10, 2014, ISSN 0029-5493
- [1014] **2014 – Lisovyy O., Cherubini M., Lazzerini D., D’Auria F.**, “Capability of TRANSURANUS Code to Produce LOCA Integral Test Results”, Int. Conf. Nuclear Energy in Central Europe (NENE), Portoroz (Slo), Sept. 8-11, 2014
- [1015] **2014 – Adu S., Lanfredini M., D’Auria F.**, “Application of best estimate plus uncertainty in review of research reactor safety analysis”, Int. Conf. Nuclear Energy in Central Europe (NENE), Portoroz (Slo), Sept. 8-11, 2014
- [1016] **2014 – Mascari F., Nakamura H., De Rosa F., D’Auria F.**, “Scaling rationale design and extrapolation problem for ITF and SETF”, Int. Workshop on Nuclear Safety and Severe Accident (NUSSA-2014),

- [1017] **2014 – Petruzzi A., Naundori D., Pohl D., Pascoe J., Mackinnon J., D’Auria F.**, “Relap5 simulation of Darlington Nuclear Generating Station Loss of Flow Event”, PHWR Safety 2014, CANSAS-2014 Workshop, Paper PHWR-2014: 8A-3, Ottawa (CA), June 23-25, 2014
- [1018] **2014 – D’Auria F.**, “A vision for nuclear reactor safety”, *Comunicación efectuada por el Académico Titular Dr Francesco D’Auria, en la Academia Nacional de Ciencias de Buenos Aires, en la sesión plenaria del 4 de diciembre de 2014, Anales dela Academia Nacional de Ciencias de Buenos Aires – Tomo XLVIII – Año 2014*, pages 367-386, ISBN 978-987-706-140-6(**)
- [1019] **2014 – Kovtynyuk A., Petruzzi A., D’Auria F.**, “Quantification of Uncertainty of Reflood-Related Models of RELAP5 MOD3.3 Code”, ANS-2014 Annual Meeting, Reno (Nv, US), June 15-19, 2014
- [1020] **2014 – Gonzales Gonzales R., D’Auria F., Parisi C., Pecchia M., Mazzantini O.**, “Atucha-2 Obliquely Inserted Control Rods RELAP5-3D/NESTLE Model”, International Conference on the Physics of Reactors 2014 (PHYSOR 2014), Kyoto (Japan), Sept. 28 - Oct. 3, 2014
- [1021] **2014 – D’Auria F., Petruzzi A.** “Evaluation of uncertainty connected with Transient thermal-Hydraulics Calculations”, Invited at ERCOFTAC Workshop on Uncertainty Quantification in Computational Fluid Dynamics, Pisa (I), May 26-27, 2014, www.sciencesconf.org
- [1022] **2015 – Kovtynyuk A., Petruzzi A., D’Auria F. (in cooperation with authors of various Countries)**, “Post-BEMUSE Reflood Model input uncertainty methods (PREMIUM) Benchmark Phase II: identification of influential Parameters”, **NEA/OECD Report NEA/CSNI/R(2014)14, JT03370933, Paris (F), Febr. 2015**
- [1023] **2015 – Pecchia M., Parisi C., D’Auria F., Mazzantini O.**, “Application of MCNP for predicting power excursion during LOCA in Atucha-2 PHWR”, *J. Annals of Nuclear Energy*, 85, 2015, pages 271-278
- [1024] **2015 – Ahn S.H., Aksan N., Austregesilo H., Bestion D., Chung B.D., D’Auria F., Emonot P., Gandrille J. L., Hanninen M., Horvatović I., Kim K. D., Kovtynyuk A., Petruzzi A.**, “FONESYS: The Forum & Network of SYStem Thermal-Hydraulic Codes in Nuclear Reactor Thermal-Hydraulics”, *J. Nuclear Engineering and Design*, Vol 281, pages 103-113, 2015, ISSN 0029-5493
- [1025] **2015 – Lutsanych S., Sabotinov L., D’Auria F.**, “Critical power prediction by CATHARE2 of the OECD/NRC BFBT benchmark”, *J. Nuclear Engineering and Design*, Vol 283, pages 71-80, 2015, ISSN 0029-5493
- [1026] **2015 – Lisovyy O., Cherubini M., Lazzerini D., D’Auria F.**, “Base irradiation simulation and its effect on fuel behaviour prediction by TRANSURANUS code: Application to reactivity initiated accident condition”, *J. Nuclear Engineering and Design*, Vol 283, pages 162-167, 2015, ISSN 0029-5493
- [1027] **2015 – Adu S., Horvatovic I., D’Auria F., Nyarko B. J. B., Emi-Reynolds G., Emmanuel O.D.**, “Analysis of Channel Blockage of MNSR Reactor Using the System Thermal-Hydraulic Code RELAP5/MOD3.3”, Int. Conf. Nuclear Energy in Central Europe (NENE), Portoroz (Slo), Sept. 14-17, 2015
- [1028] **2015 – Lutsanych S., Moretti F., Aksan N., D’Auria F., Petruzzi A.**, “FONESYS and SILENCE Networks: Looking to the Future of T-H Code Development and Experimentation”, Int. Conf. Nuclear Energy in Central Europe (NENE), Portoroz (Slo), Sept. 14-17, 2015
- [1029] **2015 – Lutsanych S., Moretti F., D’Auria F.**, “Assessment of NEPTUNE_CFD Code Capabilities to Simulate Two-Phase Flow in the OECD/NRC PSBT Subchannel Experiments”, Int. Conf. Nuclear Energy in Central Europe (NENE), Portoroz (Slo), Sept. 14-17, 2015
- [1030] **2015 – Menzel F., D’Auria F., Sabundjian G., Madeira A.**, “Proposal of a BEPU-FSAR”, Int. Conf. Nuclear Energy in Central Europe (NENE), Portoroz (Slo), Sept. 14-17, 2015
- [1031] **2015 – D’Auria F.**, “Data, Data Science, and Data-Driven Thermal- Hydraulics – Panel”, Invited Panelist, 16th Int. Top. Meet. On Nuclear Reactor Thermal-hydraulics (NURETH-16), Chicago (Ill, US), Aug. 30 – Sept. 4, 2015 (°°)
- [1032] **2015 – Lutsanych S., Moretti F., D’Auria F.**, “Validation of CATHARE TH-SYS Code Against Experimental Reflood Tests”, 16th Int. Top. Meet. On Nuclear Reactor Thermal-hydraulics (NURETH-16), Chicago (Ill, US), Aug. 30 – Sept. 4, 2015
- [1033] **2015 – Mascari F., De Rosa F., Nakamura H., Umminger K., D’Auria F.**, “Scaling Issues for the

Experimental Characterization of Reactor Coolant System in Integral Test Facilities and Role of System Code as Extrapolation Tool”, 16th Int. Top. Meet. On Nuclear Reactor Thermal-hydraulics (NURETH-16), Chicago (Ill, US), Aug. 30 – Sept. 4, 2015

- [1034] **2015 – Horvatovic I., Batra C., Cherubini M., Petrucci A., D'Auria F.**, “Benchmark Analysis of EBR-II Protected Loss-of-Flow Transient”, 16th Int. Top. Meet. On Nuclear Reactor Thermal-hydraulics (NURETH-16), Chicago (Ill, US), Aug. 30 – Sept. 4, 2015
- [1035] **2015 – D'Auria F.**, “A New Vision for Nuclear Reactor Safety of the Future Projects “, Invited at Nuclear Energy on Liberalized Energy Markets: Technology, Financing, Planning, Sofia (BG), March 26-27, 2015
- [1036] **2015 – Khedr A., Abdel-Latif S. H., Abdel-Hadi E. A., D'Auria F.**, “Validation of RELAP5 model of experimental test rig simulating the natural convection in MTR research reactors“, 12th Arabic Conference on the Peaceful uses of Atomic Energy, Cairo (Egypt), May 16-20, 2015
- [1037] **2015 – D'Auria F., Glaeser H., Kim M-W.**, “A Vision for Nuclear Reactor Safety”, Invited (Key-Speaker) at 46th Jahrestagung Kerntechnik Annual Meet., Berlin (G), May 5-7, 2015
- [1038] **2015 – D'Auria F.**, “Perspectives for improving the safety of NPP”, Invited at Int. Conf. Nuclear Power Plant Life Extension and Management, Paris La Villette (F), October 4-9, 2015
- [1039] **2015 – Menzel F., Sabundjian G., D'Auria F., Madeira A.**, “Using of BEPU methodology in a Final Safety Analysis Report”, International Nuclear Atlantic Conference – INAC 2015, Sao Paulo (SP, Brazil), October 4-9, 2015, ISBN 978-85-99141-06-9
- [1040] **2015 – D'Auria F., Glaeser H., Kim M-W.**, “A ‘new’ Vision for Nuclear Reactor Safety”, The 9th International Scientific and Technical Conference Safety Assurance of NPP with VVER, OKB GIDROPRESS, Podolsk (Ru), May 19-22, 2015
- [1041] **2015 – Adu S., Horvatović I., Darko E. O., Emi-Reynolds G., D'Auria F.**, “Application of Best Estimate plus uncertainty in review of Research Reactor safety analysis”, *J. Nuclear Technology and Radiation Protection*, Vol. XXX, No. 1, pages 75-82, 2015, Scientific paper UDC 621.039+614.876 :504.06, ISSN 1451-3994
- [1042] **2016 – Petrucci A., Cherubini M., D'Auria F.**, “Thirty Years’ Experience in RELAP5 Applications at GRNSPG & NINE”, *J. Nuclear Technology*, Vol 193, pages 47-87, January 2016
- [1043] **2016 – Petrucci A., Cherubini M., Lanfredini M., D'Auria F., Mazzantini O.**, “The BEPU Evaluation Model with RELAP5-3D for the Licensing of the Atucha-II NPP”, *J. Nuclear Technology*, Vol 193, pages 113-160, January 2016
- [1044] **2016 – Gonzales R. G., D'Auria F., Mazzantini O.**, “Implementing Obliquely Inserted Control Rods Into RELAP5-3D/NESTLE Model for Atucha-2”, *J. Nuclear Technology*, Vol 194, pages 61-72, April 2016
- [1045] **2016 – Petrucci A., D'Auria F.**, “Standardized Consolidated Calculated and Reference Experimental Database (SCCRED): A Supporting Tool for V&V and Uncertainty Evaluation of Best-Estimate System Codes for Licensing Applications”, *J. Nuclear Science and Engineering*, Vol 182, 1, January 2016, pages 13-53
- [1046] **2016 – Del Frate L., Moretti F., Galassi G. M., D'Auria F.**, “Limitations in the Use of the Equivalent Diameter”, *World Journal of Nuclear Science and Technology*, 2016, 6, pages 53-62, Published Online January 2016 in SciRes. <http://www.scirp.org/journal/wjnst> <http://dx.doi.org/10.4236/wjnst.2016.61005>
- [1047] **2016 – Saghafi M., Ghofrani M. B., D'Auria F.**, “Development and qualification of a thermal-hydraulic nodalization for modeling station blackout accident in PSB-VVER facility”, *J. Nuclear Engineering and Design*, Vol. 303 (2016), ISBN 0029-5493, pages 109-121
- [1048] **2016 – D'Auria F., Bousbia Salah A.**, “Nuclear Energy for Sustainable Economic Development“, *Journal of Water Resource and Protection*, 2016, 8, pages 865-872, Published Online August 2016 in SciRes. <http://www.scirp.org/journal/jwarp> <http://dx.doi.org/10.4236/jwarp.2016.89071>
- [1049] **2016 – Mascari F., De Rosa F., Woods B. G., Welter K., Vella G., D'Auria F., Tien K.**, “Analysis of the OSU-MASLWR 001 and 002 tests by using the TRACE code”, *USNRC, NUREG/IA 0466*, Washington (DC, US), 2016
- [1050] **2016 – Adorni M., Herranz L. E., Hollands T., Ahn K.-II, Bals C., D'Auria F., Horvath G. L., Jaeckel B.**

S., Kim H. C., Lee J-J., Ogino M., Techy Z., Velazquez-Lozad A., Zigh A., Rehacek R., "OECD/NEA Sandia Fuel Project phase I: Benchmark of the ignition testing", *J. Nuclear Engineering and Design*, Vol 307, pages 418-430, 2016, ISSN 0029-5493

- [1051] **2016 – Menzel F., Sabundjian G., D’Auria F., Madeira A.**, "Application of Best Estimate Plus Uncertainty Methodology in a Final Safety Analysis Report of a Generic Plant", 11th CNS-Croatian Nuclear Society, Zadar (Croatia), June 5 – 8, 2016, ISBN 978-953-55224-8-5, URL <http://www.nuklearno-drustvo.hr/>; also *Journal of Energy*, 65, 3-4, Special Issue, pp 69-78, ISSN 0013-7448 <http://journalofenergy.com>
- [1052] **2016 – Moretti F., Terzuoli F., D’Auria F., Mazzantini O.**, "Instrumenting Full scale Boron Injection Test Facility to support Atucha-2 NPP licensing", Spec. Workshop on Advanced Instrumentation and Measurement Techniques for Nuclear Reactor Thermal Hydraulics SWINTH-2016, Livorno (I), June 15-17, 2016
- [1053] 2016 – D’Auria F., Bestion D., Nakamura H., Lien P.**, "The OECD/NEA/CSNI SOAR on scaling (the S-SOAR)", Invited at 11th International Topical Meeting on Nuclear Thermal-Hydraulics, Operation and Safety (NUTHOS-11), Gyeongju, (Korea), Oct. 9-13, 2016
- [1054] 2016 – D’Auria F.**, "Scaling and Scaling role within the BEPU approach – The $\mu\lambda$ -I³TF", Invited at the 4th International Workshop on Nuclear Thermal-Hydraulic Integral Effect Tests, HICO, Gyeongju, Korea, October 14, 2016 (°°)
- [1055] **2016 – Menzel F., Sabundjian G., D’Auria F., Madeira A.**, "Proposal for systematic application of BEPU in the licensing process of nuclear power plants", *Int. J. Nuclear Energy Science and Technology*, Vol. 10, No. 4, 2016, pp. 323-338
- [1056] **2016 – Reventos F., de Alfonso A., Mendizabal R. (Coordinators), Zhang J., Kovtomyuk A., Dethioux A., Janssens M., Léna C., Segurado J., Liu X., Li Dong, Kyncl M., Pernica R., Kopecek V., Meca R., Kurki J., Alku T., de Crécy A., Bazin P., Probst P., Baccou J., Fouet F., Barré F., Skorek T., Jaeger W., Sánchez V., Petrucci A., D’Auria F., Chung B-D., Heo J. S., Oh D-Y., Gusev A., Falkov A., Shvetsov Y., Zerkak O., Wicaksono D., Amri A., Kissane M.**, "PREMIUM, a benchmark on the quantification of the uncertainty of the physical models in the system thermal-hydraulic codes: methodologies and data review", NEA/CSNI/R(2016)9, Paris (F), April 2016
- [1057] **2016 – D’Auria F.**, "Thoughts in nuclear thermal hydraulics", Special meeting (brainstorming discussion) embedded into SWINTH Conference, Livorno (Italy), June 15-17, 2016
- [1058] **2016 – Saghafi M., Ghofrani M. B., D’Auria F.** "Application of FFTBM with signal mirroring to improve accuracy assessment of MELCOR code", *J. Nuclear Engineering and Design*, 308 (2016), 238–251
- [1059] 2017 – Kovtomyuk A., Lutsanych S., Moretti F., D’Auria F.**, "Development and assessment of a method for evaluating uncertainty of input parameters", *J. Nuclear Engineering and Design*, 321 (2017), 219–229
- [1060] 2017 – Lutsanych S., Moretti F., D’Auria F.**, « Validation of the CATHARE 1-D and 3-D reflood models against FEBA and ACHILLES experimental tests », *J. Nuclear Engineering and Design*, 321 (2017), 266-277
- [1061] 2017 – Bestion D., D’Auria F., [Ed.], Lien P., Nakamura H. [Lead Authors] ; Austregesilo H., Skorek T., Bae B.U., Choi K.Y., Kim K.D., Moon S.K., Martinez-Quiroga V., Reventos F., Mascari F., Schollenberger S., Umminger K., Reyes J.N., Rohatgi U. S., Wang W., Zaki T. (Authors), «The OECD /NEA/CSNI Scaling State of the art Report – the S-SOAR », NEA/CSNI/R(2016)14, Paris (F), March 2017, pp 1-393**
- [1062] **2017 – D’Auria F.**, "Best Estimate Plus uncertainty (BEPU) approach for accident analysis", Invited at the 1st International Conference on Nuclear Power Plants; Structures, Risk & Decommissioning (NUPP-2017), Feb. 6-8, 2017, London (UK), Copyright 2017 by ASRANet Ltd, 5 St Vincent Place, Glasgow, G1 2DH ISBN: 978-0-9930121-9-8
- [1063] **2017 – Glaeser H., Aksan N., D’Auria F.**, "A view on identification of thermal-hydraulic phenomena for validation of best-estimate computer codes", ENS TOPSAFE 2017, Vienna (A), Feb. 12-16, 2017
- [1064] **2017 – Negrenti E., Serra M., D’Apice M., Tripi A., D’Auria F., Terzuoli F.**, "Enhanced Nuclear Engineering Simulators", ENS TOPSAFE 2017, Vienna (A), Feb. 12-16, 2017
- [1065] **2017 – Menzel F., Sabundjian G., D’Auria F.**, "Nuclear Reactor Safety and Assessment: Proposal of a BEPU-FSAR", ENS TOPSAFE 2017, Vienna (A), Feb. 12-16, 2017
- [1066] **2017 – D’Auria F., Glaeser H., Debrecin N.**, "Independent Assessment for new nuclear reactor safety", ENS

- [1067] **2017 – Mascari F., Woods B. G., Welter K., D’Auria F., Vella G., De Rosa F.**, “Analysis of the OSU-MASLWR 003A and 003B tests by using TRACE code”, Spring USNRC CAMP meeting, Warsaw (Pl), May 22-24, 2017 (°°)
- [1068] **2017 – Mascari F., Nakamura H., Umminger K., Moon S-K., Lien P., Bestion D., D’Auria F.**, “Scaling approaches and system code as extrapolation tool ”, USNRC CAMP meeting, Warsaw (Pl), May 22-24, 2017 (°°)
- [1069] **2017 – Ahn S. H., Aksan N., Austregesilo H., Bestion D., Chung B. D., Coscarelli E., D’Auria F., Emonot P., Gandrille J-L., Sauvage J-Y., Hanninen M., Horvatovic I., Kim K. D., Kovtonyuk A., Lutsanych S., Petrucci A.**, “Hyperbolicity and numerics in SYS-TH codes: The FONESYS point of view”, *J. Nuclear Engineering and Design*, Vol 322, pp 227-239, 2017, ISSN 0029-5493
- [1070] **2017 – D’Auria F., Debrecin N., Glaeser H.**, «Conjugating ALARA, BEPU, Safety Margins and Independent Assessment in Nuclear Reactor Safety», Invited at Plenary Session of “Safety Assurance of NPP with VVER”, Podolsk (Russia) 16-19 May, ISBN 978-5-94883-147-3 OKB GIDROPRESS
- [1071] **2017 – D’Auria F., Glaeser H., Debrecin N.**, "BEPU and Safety Margins in Nuclear Reactor Safety", Int. Conf. Topical Issues in Nuclear Installation Safety - Safety demonstration of Advanced Water Cooled Nuclear Power Plant Vienna (A), June 6-9, IAEA-CN-251, <http://www-pub.iaea.org/iaeameetings/50816/CN251> (published 2018: Vol II, pg. 70, IAEAL 18-01171 | ISBN 978-92-0-104618-5 Classification: UDC 621.039.58 | STI/PUB/1829m, August, Vienna)
- [1072] **2017 – Negrenti E., D’Apice M., Serra M., Tripi A., D’Auria F., Terzuoli F.** "Enhanced Nuclear Engineering Simulators (ENES)", Int. Conf. Topical Issues in Nuclear Installation Safety - Safety demonstration of Advanced Water Cooled Nuclear Power Plant Vienna (A), June 6-9, IAEA-CN-251, <http://www-pub.iaea.org/iaeameetings/50816/CN251> (published 2018: Vol I, pg. 152, IAEAL 18-01171 | ISBN 978-92-0-104618-5 Classification: UDC 621.039.58 | STI/PUB/1829m, August, Vienna)
- [1073] **2017 – D’Auria F. [Editor] (Chapter Authors: Aksan N., Bestion D., D’Auria F., Galassi G. M., Glaeser H., Hassan Y., Jeong J. J., Kirillov P., Morel C., Ninokata H., Reventos F., Rohatgi U., Schultz R. R., Umminger K.)**, «Thermal Hydraulics in Water-Cooled Nuclear Reactors», Elsevier, Woodhead Publishing, Duxford, UK, June 2017, ISBN 9780081006627, pp 1-1221
- [1074] **2017 – D’Auria F.**, «Preface », Book ‘Thermal Hydraulics in Water-Cooled Nuclear Reactors’ [F. D’Auria, Editor], Elsevier, Woodhead Publishing, ISBN 9780081006627, pp xii-xix
- [1075] **2017 – D’Auria F.**, «Introduction», Book ‘Thermal Hydraulics in Water-Cooled Nuclear Reactors’ [F. D’Auria, Editor], Chapter 1, Elsevier, Woodhead Publishing, ISBN 9780081006627, pp 1-40
- [1076] **2017 – D’Auria F.**, «Historical perspectives of nuclear thermal-hydraulics», Book ‘Thermal Hydraulics in Water-Cooled Nuclear Reactors’ [F. D’Auria, Editor], Chapter 2, Elsevier, Woodhead Publishing, ISBN 9780081006627, pp 41-88
- [1077] **2017 – Umminger K., D’Auria F.**, «Pressure drops in nuclear thermal hydraulics: Principles, experiments, and modeling», Book ‘Thermal Hydraulics in Water-Cooled Nuclear Reactors’, [F. D’Auria, Editor], Chapter 8, Elsevier, Woodhead Publishing, ISBN 9780081006627, pp 493-548
- [1078] **2017 – D’Auria F.**, «Best-Estimate Plus Uncertainty (BEPU) approach for accident analysis», Book ‘Thermal Hydraulics in Water-Cooled Nuclear Reactors’, [F. D’Auria, Editor], Chapter 14, Elsevier, Woodhead Publishing, ISBN 9780081006627, pp 905-950
- [1079] **2017 – D’Auria F., Galassi G. M.**, «Applications of SYS TH codes to nuclear reactors designs and accident analysis», Book ‘Thermal Hydraulics in Water-Cooled Nuclear Reactors’, [F. D’Auria, Editor], Chapter 15, Elsevier, Woodhead Publishing, ISBN 9780081006627, pp 951-1098
- [1080] **2017 – Galassi G. M., D’Auria F.**, «Thermal-hydraulics aspects of key nuclear accidents», Book ‘Thermal Hydraulics in Water-Cooled Nuclear Reactors’, [F. D’Auria, Editor], Chapter 16, Elsevier, Woodhead Publishing, ISBN 9780081006627, pp 1099-1152
- [1081] **2017 – Ghafari M., Ghofrani M. B., D’Auria F.**, “Application of new turbulence modeling of stratified flow of PTS”, Int. Conf. Nuclear Energy in Central Europe (NENE), Bled (Slo), Sept. 11-14, 2017, www.nss.si/NENE2017/
- [1082] **2017 – Velumula S. K , Ponna N. S., D’Auria F.**, “Motivation and design of an ideal test facility”, Int. Conf.

- [1083] **2017 – Maiorino J. R., Stefani G., D’Auria F.**, “Utilization of Thorium in PWR reactors: first step toward a Th-U fuel cycle”, Invited at Int. Conf. Nuclear Energy in Central Europe (NENE), Bled (Slo), Sept. 11-14, 2017, www.nss.si/NENE2017/
- [1084] **2017 – D’Auria F.**, “Prioritization of research in nuclear thermal-hydraulics”, 17th Int. Top. Meet. On Nuclear Reactor Thermal-hydraulics (NURETH-17), Xi’an (China), Sept. 3-9, 2017 (paper No 20418)
- [1085] **2017 – Ghafari M., D’Auria F., Ghofrani M. B.**, “Coupling of CFD and SYS TH codes in BEPU approach, Case study: two-phase PTS scenario”, 17th Int. Top. Meet. On Nuclear Reactor Thermal-hydraulics (NURETH-17), Xi’an (China), Sept. 3-9, 2017 (paper No 20618)
- [1086] **2017 – Lutsanych S., D’Auria F.**, “Modeling of buoyancy driven flow-mixing experiments in Rocom test facility using 3D capabilities of Cathare code”, 17th Int. Top. Meet. On Nuclear Reactor Thermal-hydraulics (NURETH-17), Xi’an (China), Sept. 3-9, 2017 (paper No 20773)
- [1087] **2017 – Menzel F., Sabundjian G., D’Auria F.**, “BEPU-FSAR: establishing a background for extension of V&V principles to non-thermal-hydraulic codes”, 17th Int. Top. Meet. On Nuclear Reactor Thermal-hydraulics (NURETH-17), Xi’an (China), Sept. 3-9, 2017 – Embedded BEPU Workshop
- [1088] **2017 – Moretti F., D’Auria F., Aksan N., Lutsanych S., Umminger K., Gupta S., Bestion D., Hampel U., Choi K-Y., Purhonen H., Guba A., Paladino D.**, “Summary of SWINTH-2016: a Specialists Workshop on advanced instrumentation and measurement techniques for nuclear reactor thermal-hydraulic experimentation”, 17th Int. Top. Meet. On Nuclear Reactor Thermal-hydraulics (NURETH-17), Xi’an (China), Sept. 3-9, 2017 (paper No 21323)
- [1089] **2017 – D’Auria F.**, “Panelist notes”, Invited at Panel: Reliability of Passive systems, 17th Int. Top. Meet. On Nuclear Reactor Thermal-hydraulics (NURETH-17), Xi’an (China), Sept. 3-9, 2017(°°)
- [1090] **2017 – D’Auria F., Glaeser H., Debrecin N.**, «Independent Assessment for new nuclear reactor safety», **EPJ Nuclear Sci. Technol. 3, 31 (2017), pp 1-4, by EDP Sciences, 2017, doi: 10.1051/epjn/2017025(**)**
- [1091] **2017 – Lutsanych S., Moretti F., D’Auria F.**, «Validation of NEPTUNE-CFD two-phase flow models against OECD/NRC PSBT subchannel experiment», **J. Nuclear Engineering and Design, 321 (2017), pp 82-91**
- [1092] **2017 – D’Auria F., Debrecin N., Glaeser H.**, «Strengthening nuclear reactor safety and analysis», **J. Nuclear Engineering and Design, 324 (2017), pp 209-219**
- [1093] **2017 – Khedr A., El-Sahlamy N., Helmy S., D’Auria F.**, «Comparative study between cold leg and hot leg safety injection during SBLOCA in a 4-loop PWR NPP», **Int. J. of Engineering and Science (IJES), 6, 12, 2017, pp 31-37, ISSN (e) 2319-1813, ISSN (p) 2319-1805**
- [1094] **2018 – Aksan N., D’Auria F., Glaeser H.**, «Thermal-hydraulic phenomena for water cooled nuclear reactors», **J. Nuclear Engineering and Design, 330, 2018, pp 166-186**
- [1095] **2018 – D’Auria F.**, «Reliability of passive systems : an outline», OECD/NEA/CSNI Passive systems Workshop, Pisa (I), Feb.13-14, 2018, pp 1-5 <https://www.oecd-nea.org/download/wgama/passth/>
- [1096] **2018 – Ghafari M., Ghofrani M.B., D’Auria F.**, "Boundary identification between LBLOCA and SBLOCA based on stratification and temperature gradient in two-phase PTS", **J. Annals of Nuclear Energy, vol 115, (2018), pp 430-441**
- [1097] **2018 – Aksan N., Bestion D., D’Auria F., Hassan Y.**, “FONESYS User Group Founding motivations”, Texas A&M University, College Station (Tx, US), March 2, 2018 – Note: at the end of the meeting FONESYS User Group became CONUSAF
- [1098] **2018 – D’Auria F.**, “NEST potential activities W-GAMA and UNIPI” – Presentation at **OECD/NEA, 2nd Meet. of the Core Group of NEA Nuclear Education Skills and Technology (NEST) Framework, NEA Headquarters, March 7-9, 2018, Paris (F)**
- [1099] **2018 – D’Auria F.**, (with contribution by N. Debrecin and H. Glaeser), “An additional safety barrier for existing and new NPP”, Nuclear Industry Summit Latin America, NISLA 2018, March 19-20, 2018, Buenos Aires (Arg) <http://nuclearlatin.org>

- [1100] **2018 – D’Auria F., Debrecin N., Glaeser H.**, “Adding a safety barrier for existing and new nuclear power plants”, Conferencia pronunciada por el Dr F. D’Auria el 21 de marzo 2018 en la Academia Nacional de Ciencias de Buenos Aires, *Antícpo de Anales de la Academia de Ciencias de Buenos Aires – Buenos Aires Año 2018 – pages 1-9. www.ciencias.org.ar*
- [1101] **2018 – D’Auria F.**, “Panel Session: Reliability of Passive Systems”, Research in Medical & Engineering Science – Crimson Publishers, RMES.00058, 2018, 4(2), (ISSN: 2576-8816)
- [1102] **2018 – D’Auria F.**, “Phenomena, Accident Scenarios, Test Facilities, Evaluations”, Senior Expert Group Meet., OECD/NEA/CSNI, NEA Headquarters, Boulogne-Billancourt, April 25-27, 2018, Paris (F)
- [1103] **2018 – D’Auria F.**, “Comment to the Book by M. Ingrosso <Sud Atomico>” – published by Radici Future Ed., 2018, (in Italian)
- [1104] **2018 – Mazzantini O., D’Auria F., Petruzzi A.**, “Full BEPU application for Chapter 15 of Atucha-2 NPP”, Invited at ANS Best Estimate plus Uncertainty Int. Conf. (BEPU2018), May 13-18, 2018, Lucca (I), PL07 <http://www.nineeng.com/bepu/images/Program%20Book%20and%20cover.pdf>
- [1105] **2018 – D’Auria F.**, “BEPU status and perspectives”, Invited at ANS Best Estimate plus Uncertainty Int. Conf. (BEPU-2018), May 13-18, 2018, Lucca (I), PL10 <http://www.nineeng.com/bepu/images/Program%20Book%20and%20cover.pdf>
- [1106] **2018 – Menzel F., Sabudjian G., D’Auria F.**, “BEPU-FSAR: discussion of V&V principles to non thermal-hydraulic codes Int. Conf. (BEPU-2018), May 13-18, 2018, Lucca (I), BEPU2018-136, <http://www.nineeng.com/bepu/images/Program%20Book%20and%20cover.pdf>
- [1107] **2018 – Menzel F., Sabudjian G., D’Auria F.**, “BEPU and licensing of Nuclear Power Plants”, ANS Best Estimate plus Uncertainty Int. Conf. (BEPU-2018), May 13-18, 2018, Lucca (I), BEPU2018-135 <http://www.nineeng.com/bepu/images/Program%20Book%20and%20cover.pdf>
- [1108] **2018 – Moretti F., D’Auria F., Lanfredini M., Aksan N., Umminger K., Hampel U., Choi K-Y., Purhonen H., Paladino D., Gupta S., Bestion D., Liu L., Hassan Y.**, “Promoting cooperation and technical exchange in the area of thermal-hydraulic experimentation: SILENCE network & SWINTH Workshops”, ANS Best Estimate plus Uncertainty Int. Conf. (BEPU-2018), May 13-18, 2018, Lucca (I), BEPU2018-305, <http://www.nineeng.com/bepu/images/Program%20Book%20and%20cover.pdf>
- [1109] **2018 – D’Auria F., Lanfredini M.**, “Introducing V&V&C in nuclear thermal-hydraulics”, ASME Verification and Validation Symposium (VVS-2018), May 16-18, 2018, Minneapolis (Mn, US), VVS2018-9321, <https://www.asme.org/events/vandy>
- [1110] **2018 – D’Auria F.**, “Status report on thermal-hydraulic passive systems design and safety assessment”, Invited at Focus Session ‘Safety of Advanced Nuclear Power Plants’ (coordinators A. Schaffrath, T. Mull) of Annual Meet. on Nuclear Technology (AMNT), May 29-30, 2018, Berlin (G) www.kernenergie.de; www.nucleartech-meet.com
- [1111] **2018 – Maiorino J.R., D’Auria F., Akbary R.**, “An overview of Thorium Utilization in Nuclear Reactors and Fuel Cycle”, Invited at 12th Int. Conf. of the Croatian Nuclear Society, June 3-6, 2018, Zadar (HR), paper 198, ISBN 978-953-48100-1-9 (CIP catalogue record from the National and University Library in Zagreb, under 000997522), www.nuclear-option.org, www.nuklearno-drustvo.hr
- [1112] **2018 – D’Auria F., Debrecin N., Glaeser H.**, “Introduction of a Safety Barrier for Nuclear Power Reactors”, 12th Int. Conf. of the Croatian Nuclear Society, June 3-6, 2018, Zadar (HR), paper 248, ISBN 978-953-48100-1-9 (CIP catalogue record from the National and University Library in Zagreb, under 000997522), www.nuclear-option.org, www.nuklearno-drustvo.hr
- [1113] **2018 – Akbary R., Maiorino J.R., D’Auria F., Rezaei D.**, “Conversion of Small Modular Reactors Fuel to Use Mixed (U-Th)O₂ Fuel”, 12th Int. Conf. of the Croatian Nuclear Society, June 3-6, 2018, Zadar (HR), paper 110, ISBN 978-953-48100-1-9 (CIP catalogue record from the National and University Library in Zagreb, under 000997522), www.nuclear-option.org, www.nuklearno-drustvo.hr
- [1114] **2018 – Akbary R., Rezaei Ochbelagh D., Maiorino J.R., D’Auria F., Laranjo de Stefani G.**, “The utilization of Thorium in Small Modular Reactors – Part I: neutronics assessment”, *J. Annals of Nuclear Energy*, vol 120, (2018), pp 422-430
- [1115] **2018 – D’Auria F., Lanfredini M.**, “SOAR on Reliability of Passive Systems (SOAR-RPS) & PERSEO Benchmark on Passive Systems (PERSEO-BPS)” – Chapter 1”, *OECD/NEA/CSNI Passive Systems Workshop*, June 26-27, 2018, Karlstein am Main (G)

- [1116] **2018 – D’Auria F., Lanfredini M., Agostini G., Bellomo A., Di Palma G., Spina G.**, “Proposing extreme cases associated with PERSEO Benchmark”, **OECD/NEA/CSNI Passive Systems Workshop, June 26-27, 2018, Karlstein am Main (G)**
- [1117] **2018 – D’Auria F.**, “Comment to the Elsevier proposed Book <Nuclear Safety>” – (book) published by Elsevier, 2018
- [1118] **2018 – Aksan N., Bestion D., D’Auria F., Hassan Y., Moretti F. (Guest Ed.s)**, “Special Issue from Workshop Advanced Instrumentation and Measurement Techniques for Nuclear Reactor Thermal-hydraulics (SWINTH)”, **J. Nuclear Engineering and Design, 336, (2018), pp 1-2**
- [1119] **2018 – Moretti F., Terzuoli F., D’Auria F., Mazzantini O.**, “Instrumentation for full-scale Boron Injection Test Facility to support Atucha-2 NPP licensing”, **J. Nuclear Engineering and Design, 336, (2018), pp 154-162**
- [1120] **2018 – D’Auria F.**, “Scaling of T-H Phenomena: Addressing scaling issues and scaled calculations for FC/NC based PWR (1) & (2)”, Invited at 43rd Int. Nathigali Summer College on Physics and Contemporary Needs – Activity 2: SMRs and Innovative Hybrid Energy Systems, July 16-21, Islamabad (Pk)
- [1121] **2018 – D’Auria F.**, “UNIPI starting reference Database”, Founding meeting of CONUSAf (Consortium of Users of Thermal-hydraulics Computational Tools for Nuclear Reactors Safety and Design), July 26-27, Pisa (I)
- [1122] **2018 – D’Auria F., Lanfredini M.**, “Moving from V&V to V&V&C in Nuclear Thermal-Hydraulics”, 26th Int. Conf. on Nuclear Engineering (ICON26), ICONE26-82574, July 22-26, London (UK)
- [1123] **2018 – Madeira Borges E., Sabundjian G., D’Auria F., Petrucci A.**, “Uncertainty calculation in small break LOCA in the Emergency core cooling system connected to the hot leg of Angra-2 nuclear power plant”, **Int. J., Nuclear Energy Science and Technology**, vol 12, No 2, 2018, pp.139-161
- [1124] **2018 – Lanfredini M., D’Auria F.**, “Status report on thermal-hydraulic passive systems design and safety assessment – Status of the activity” – **21st Plenary Meet. of OECD/NEA/CSNI W-GAMA, Sept. 17-20, 2018, Paris (F)**
- [1125] **2018 – Aksan N., D’Auria F., Glaeser H., (presented by M. Lanfredini)**, “Building-up the list of 116 Thermal Hydraulic Phenomena” – **21st Plenary Meet. of OECD/NEA/CSNI W-GAMA, Sept. 17-20, 2018, Paris (F)**
- [1126] **2018 – D’Auria F.**, “Comment to the Elsevier S&T Books - proposed S&T Books <Thermal and Nuclear Power Generation – vols 1 to 6>” – Elsevier, 2018
- [1127] **2018 – D’Auria F.**, “Prioritization of nuclear thermal-hydraulics researches”, **J. Nuclear Engineering and Design, 340 (2018), pp. 105-111**
- [1128] **2018 – D’Auria F., Debrecin N., Glaeser H.**, “New Safety Barrier for current and future nuclear reactors”, Invited at V Int. Scientific and Technical Conf. <Innovative Design and Technologies of Nuclear Power>, V ISTC NIKIET, Oct. 2-5, 2018, Moscow (Ru), ISBN 978-5-98706-120-6
- [1129] **2018 – Maiorino J.R., D’Auria F., Stefani G.L., Akbary R.**, “The utilization of Thorium in advanced PWR – from small to big reactors”, Invited at V Int. Scientific and Technical Conf. <Innovative Design and Technologies of Nuclear Power>, ISTC NIKIET, Oct. 2-5, 2018, Moscow (Ru), ISBN 978-5-98706-120-6
- [1130] **2018 – Aksan N., D’Auria F., Glaeser H.**, “[116] Thermal-Hydraulic Phenomena”, 12th FONESYS meet, Busan Nat. University, Oct. 11-12, 2018, Busan (Kr)
- [1131] **2018 – Aksan N., Bestion D., D’Auria F., Hassan Y., Kim K.D.**, “CONUSAf: Presentation & Founding Motivations” – Embedded Workshop into 12th Int. Top. Meet. on Nuclear Reactor Thermal-Hydraulics Operation and Safety (NUTHOS-12), Oct. 14-18, 2018, Qingdao (PRC)
- [1132] **2018 – D’Auria F., Lanfredini M.**, “V&V and more in Nuclear thermal-hydraulics”, Panel Session Speaker at 12th Int. Top. Meet. on Nuclear Reactor Thermal-Hydraulics Operation and Safety (NUTHOS-12), Oct. 14-18, 2018, Qingdao (PRC)
- [1133] **2018 – D’Auria F., Lanfredini M.**, “Insights into BEPU” – 12th Int. Top. Meet. on Nuclear Reactor Thermal-Hydraulics Operation and Safety (NUTHOS-12), paper 1166, Oct. 14-18, 2018, Qingdao (PRC)
- [1134] **2018 – Aksan N., D’Auria F., Lanfredini M., Lutsanych S., Bestion D., Moretti F., Hassan Y., Vaghetto R.**, “Prospective for nuclear thermal hydraulics created by ongoing and new Networks”, 12th Int. Top. Meet. on

Nuclear Reactor Thermal-Hydraulics Operation and Safety (NUTHOS-12), paper 638, Oct. 14-18, 2018, Qingdao (PRC)

- [1135] **2018 – Akbary R., Maiorino J.R., D’Auria F., Rezaei D.**, “Utilization of (U-Th)O₂ as an alternative nuclear fuel for Small Modular Reactors” – 12th Int. Top. Meet. on Nuclear Reactor Thermal-Hydraulics Operation and Safety (NUTHOS-12), paper 448, Oct. 14-18, 2018, Qingdao (PRC)
- [1136] **2018 – D’Auria F., Debrecin N., Glaeser H.**, “Introduction of an additional safety barrier for nuclear power reactors”, *Universal J. of Physics and Applications*, 12(3), 2018, pp 52-57, ISSN 2331-6535 (print), ISSN 2331-6543 (online), DOI 10.13189/ujsa.2018.120304, <http://hrpub.org>
- [1137] **2018 – D’Auria F.**, “Comment to the Elsevier proposed Book <Designing Pressurized Water Reactors-The reactor core and the power plant>” – Elsevier, 2018
- [1138] **2018 – Helmy S., Khedr A., D’Auria F.**, “Analysis of break size effects on SBLOCA scenario in a 4 loop PWR using Relap5/mod 3.3”, *Int. J. Engineering and Sciences (IJES)*, 7, 4, pp 36-43, ISSN (e): 2319 – 1813, ISSN (p) 23-19 – 1805, doi: 10.9790/1813-0704033643, www.theijes.com
- [1139] **2018 – Khedr A., D’Auria F.**, “Reassessment of a medium power RR safety in light of lesson learned from Fukushima accident (part 1)”, *Int. J. of Engineering Research and Science & Technology*, 7, 2, May 2018, pp. 43-57, @IJRST, ISSN 2319-5991, www.ijrst.com
- [1140] **2018 – Khedr A., Abdou H., D’Auria F.**, “Comparison between Relap5 Mod3.2 and Mod 3.3 in simulating a Large Break LOCA in low power RRs”, *Int. J. Engineering and Sciences (IJES)*, 7, 5, pp 08-15, ISSN (e): 2319 – 1813, ISSN (p) 23-19 – 1805, doi: 10.9790/1813-0705020815, www.theijes.com
- [1141] **2018 – Ghafari M., Ghofrani M. B., D’Auria F.**, “New turbulence modeling for simulation of Direct Contact Condensation in two-phase pressurized thermal shock”, *J. Progress in Nuclear Energy* 108 (2018) 358–371
- [1142] **2019 – Maiorino J. R., D’Auria F., Ravetto P., Gudowski W., Lima F. R. A., Kaya M., Lira C.A.B.O., Sahin S., Waris A., Sahin H. M., Dos Santos R., R., Clausse A., Ochbelagh D. R., De Oliveira Lainetti P. E., Pereira C., De Oliveira C. L., Ding M., Tenreiro C.**, “COAUTHOR - a MoU to create a Consortium of Academics from Universities promoting the use of THORium”, IEEE 1st Global Power, Energy and Communication Conference (GPECOM), June 12-15, 2019, Nevsehir, Cappadocia (Turkey), pp 1-6, www.gpecom.org (see also next sixth paper below)
- [1143] **2019 – D’Auria F.**, “Comment to the Elsevier proposed Book <Floating Nuclear Power Plant Technologies>” – Elsevier, 2019
- [1144] **2019 – Aksan N., Bestion D., D’Auria F., Hassan Y.**, “Summary of the CONUSAF Workshop (NUTHOS-12) strengthening of the CONUSAF & BC V-213 Results (year 2004)”, CONUSAF 2nd Meet. Tirrenia (Pisa, Italy), Feb. 25-26, 2019
- [1145] **2019 – D’Auria F.**, “BEPU current ideas”, CONUSAF 2nd Meet. Tirrenia (Pisa, Italy), Feb. 25-26, 2019
- [1146] **2019 – Bellomo A., Di Palma G., Spina G., Lanfredini M., D’Auria F.**, “PERSEO Benchmark - UNIPI results”, *OECD/NEA/CSNI 3rd Passive Systems Workshop*, Feb. 27- March 1st 2019, Tirrenia (Pisa, I)
- [1147] **2019 – Bellomo A., Di Palma G., Spina G., Lanfredini M., D’Auria F.**, “Reliability of Passive systems - Extreme Cases Analysis”, *OECD/NEA/CSNI 3rd Passive Systems Workshop*, Feb. 27- March 1st 2019, Tirrenia (Pisa, I)
- [1148] **2019 – D’Auria F.**, “Comment to the Elsevier proposed Book <Nuclear Desalination – An alternative for cogeneration of water and electricity>” – Elsevier, 2019
- [1149] **2019 – Maiorino J. R., D’Auria F., Ravetto P., Gudowski W., Lima F. R. A., Kaya M., Lira C.A.B.O., Sahin S., Waris A., Sahin H. M., Dos Santos R., R., Clausse A., Ochbelagh D. R., De Oliveira Lainetti P. E., Pereira C., De Oliveira C. L., Ding M., Tenreiro C.**, “Consortium of Academics from Universities promoting the use of THORium (COAUTHOR)”, Int. Conf. on Emerging Nuclear Energy Systems, ICENES2019, Oct. 6-9, 2019 Bali (Indonesia), <http://icenes2019.fnpipa-itb.org> (see also previous sixth paper)
- [1150] **2019 – D’Auria F.**, “Comment to the Elsevier proposed Book <A Survey of the Status of electricity generation in the world >” – Elsevier, 2019
- [1151] **2019 – Ball J., Barrè F., Choi K-Y., D’Auria F., Toth I., Yonomoto T.** “Issues and facilities unique to

nuclear industry”, Senior Expert Group Meet., OECD/NEA/CSNI, NEA Headquarters, Boulogne-Billancourt, April 25, 2019 Paris (F)

- [1152] **2019 – D’Auria F.**, “Comment to the Elsevier proposed Book <Molten Corium Retention in Nuclear Reactors: Insights from experiments>” – Elsevier, 2019
- [1153] **2019 – D’Auria F., Debrecin N., Glaeser H.**, “The need of adding a safety barrier to water cooled nuclear reactors”, Invited at Plenary Session of ISTC “Safety Assurance of NPP with VVER”, Podolsk (Russia) 21-24 May, 2019, ISBN 978-5-94883-147-3 OKB GIDROPRESS, www.gidropress.podolsk.ru
- [1154] **2019 – D’Auria F., Debrecin N., Glaeser H.**, “The need for an additional technological safety barrier for current and future NPP”, Invited at the 3rd Int. Conf. on Nuclear Power Plants; Structures, Risk & Decommissioning (NUPP 2019), June 10-11, 2019, London (UK), Copyright @ 2019 by ASRANet Ltd, 5 St Vincent Place, Glasgow, G1 2DH, ISBN: 978-1-9996144-4-7, www.asranet.co.uk
- [1155] **2019 – D’Auria F.**, “Nuclear Fission: from E. Fermi to Adm. Rickover, to industrial exploitation, to nowadays challenges”, *J. Advancement in Scientific and Engineering Research*, 4 (1), pp 17-30, June 2019, doi: 10.33495/aser_v7i1.19.102, ISSN 2315-9821 @2019 Scienceweb Publishing, www.sciencewebpublishing.net
- [1156] **2019 – D’Auria F.**, “Best Estimate Plus Uncertainty (BEPU): Status and perspective”, *J. Nuclear Engineering and Design*, 352, pp 1-11, (2019), paper 110190 (VSI, papers from BEPU Conf. Lucca, 2018, see above 50 papers, about), <https://doi.org/10.1016/j.nucengdes.2019.110190>
- [1157] **2019 – D’Auria F., Guest Editor** “Special Issue ‘Trends and Perspectives in Nuclear Thermal-hydraulics’ – to the memory of B. R. Sehgal, G. Yadigaroglu and G. F. Hewitt”, *J. Nuclear Engineering and Design*, volume 354, December 2019, pp 1-450
- [1158] **2019 – Hassan Y., D’Auria F.**, “Preface and Framework, in Special Issue Trends and Perspectives in Nuclear Thermal-hydraulics – to the memory of B. R. Sehgal, G. Yadigaroglu and G. F. Hewitt”, [F. D’Auria Ed.], *J. Nuclear Engineering and Design*, volume 354, 2019, paper 110245, pp 1-1, (Paper PI-1), <https://doi.org/10.1016/j.nucengdes.2019.110245>
- [1159] **2019 – D’Auria F., Aksan N., Hassan Y.**, “Nuclear thermal-hydraulics: What is it?”, in Special Issue Trends and Perspectives in Nuclear Thermal-hydraulics – to the memory of B. R. Sehgal, G. Yadigaroglu and G. F. Hewitt”, [F. D’Auria Ed.], *J. Nuclear Engineering and Design*, volume 354, 2019, paper 110246, pp 1-5, (paper PI-2), <https://doi.org/10.1016/j.nucengdes.2019.110246>
- [1160] **2019 – D’Auria F., Hassan Y.**, “Findings from the SI papers”, in Special Issue Trends and Perspectives in Nuclear Thermal-hydraulics – to the memory of B. R. Sehgal, G. Yadigaroglu and G. F. Hewitt”, [F. D’Auria Ed.], *J. Nuclear Engineering and Design*, volume 354, 2019, paper 110247, pp 1-5, (paper PI-3), <https://doi.org/10.1016/j.nucengdes.2019.110247>
- [1161] **2019 – D’Auria F., Aksan N., Hassan Y.**, “The future of nuclear thermal-hydraulics”, in Special Issue Trends and Perspectives in Nuclear Thermal-hydraulics – to the memory of B. R. Sehgal, G. Yadigaroglu and G. F. Hewitt”, [F. D’Auria Ed.], *J. Nuclear Engineering and Design*, volume 354, 2019, paper 110248, pp 1-8, (paper PI-4), <https://doi.org/10.1016/j.nucengdes.2019.110248>
- [1162] **2019 – D’Auria F.**, “Acknowledgements and Additional Notices”, in Special Issue Trends and Perspectives in Nuclear Thermal-hydraulics – to the memory of B. R. Sehgal, G. Yadigaroglu and G. F. Hewitt”, [F. D’Auria Ed.], *J. Nuclear Engineering and Design*, volume 354, 2019, paper 110249, pp 1-2. (paper PI-5), <https://doi.org/10.1016/j.nucengdes.2019.110249>
- [1163] **2019 – Aksan N., Andreani M., Bechta S., Corradini M., D’Auria F., Dhir V., Frid W., Jones J., Kim Jong, Lillington J., Matar O., Nam Dinh, Ninokata H., Podowski M., Revankar S., Riznic J., Todreas N., Tuomisto H., Uspuras E., Walker S., Zhang J.**, “The life and the contribution of B. R. Sehgal, G. Yadigaroglu and G. F. Hewitt: remembrance statements”, in Special Issue Trends and Perspectives in Nuclear Thermal-hydraulics – to the memory of B. R. Sehgal, G. Yadigaroglu and G. F. Hewitt”, [F. D’Auria Ed.], *J. Nuclear Engineering and Design*, volume 354, 2019, paper 110252, pp 1-6, (paper PII-3), <https://doi.org/10.1016/j.nucengdes.2019.110252>
- [1164] **2019 – D’Auria F., Hassan Y.**, “Selected thoughts by Geoffrey Hewitt”, in Special Issue Trends and Perspectives in Nuclear Thermal-hydraulics – to the memory of B. R. Sehgal, G. Yadigaroglu and G. F. Hewitt”, [F. D’Auria Ed.], *J. Nuclear Engineering and Design*, volume 354, 2019, paper 110255, pp 1-5, (paper PII-6), <https://doi.org/10.1016/j.nucengdes.2019.110255>

- [1165] **2019 – D’Auria F., Lanfredini M.**, “V&V&C in nuclear reactor thermal-hydraulics”, in Special Issue Trends and Perspectives in Nuclear Thermal-hydraulics – to the memory of B. R. Sehgal, G. Yadigaroglu and G. F. Hewitt”, [F. D’Auria Ed.], *J. Nuclear Engineering and Design*, volume 354, 2019, paper 110162, pp 1-10, (paper PIII-19), <https://doi.org/10.1016/j.nucengdes.2019.110162>
- [1166] **2019 – Mazzantini O., Galassi G., D’Auria F.**, “The role of nuclear thermal-hydraulics in the licensing of Atucha-II: the LBLOCA”, in Special Issue Trends and Perspectives in Nuclear Thermal-hydraulics – to the memory of B. R. Sehgal, G. Yadigaroglu and G. F. Hewitt”, [F. D’Auria Ed.], *J. Nuclear Engineering and Design*, volume 354, 2019, paper 110292, pp 1-27, (paper PIII-27), <https://doi.org/10.1016/j.nucengdes.2019.110292>
- [1167] **2019 – Lanfredini M., Bestion D., D’Auria F., Aksan N., Fillion P., Gaillard P., Heo J., Karppinen I., Kim K. D., Kurki J., Lifang L., Shen A., Vacher J-L. Wang D.**, “Critical flow predicton by system codes – recent analyses made within the FONESYS network”, 18th Int. Top. Meet. on Nuclear Reactor Thermal-hydraulics (NURETH-18), Portland (Or, US), Aug. 18-22, 2019, Copyright © 2019 American Nuclear Society Inc., & Greyden Press, LLC © 2019 Greyden Press, LLC – All rights reserved, paper 335-28299, <https://nureth2019conference.wordpress.com>
- [1168] **2019 – Bestion D., D’Auria F., Hassan Y., Aksan N., Lanfredini M., Kim K. D.**, “Remaining issues in system thermal-hydraulics – How the FONESYS and CONUSAF networks can help finding solutions?”, 18th Int. Top. Meet. on Nuclear Reactor Thermal-hydraulics (NURETH-18), Portland (Or, US), Aug. 18-22, 2019, Copyright © 2019 American Nuclear Society Inc., & Greyden Press, LLC © 2019 Greyden Press, LLC – All rights reserved, paper 494-28240 <https://nureth2019conference.wordpress.com>
- [1169] **2019 – Mascari F., Woods B. G., Welter K., D’Auria F.**, “Validation of the TRACE code against small modular integral reactor natural circulation phenomena”, 18th Int. Top. Meet. on Nuclear Reactor Thermal-hydraulics (NURETH-18), Portland (Or, US), Aug. 18-22, 2019, Copyright © 2019 American Nuclear Society Inc., & Greyden Press, LLC © 2019 Greyden Press, LLC – All rights reserved paper 804-28325, <https://nureth2019conference.wordpress.com>
- [1170] **2019 – D’Auria F., Lanfredini M.**, “CAPS – Nuclear Thermal-hydraulics Phenomena Characterization and Exploitation (NTPCE)”, **22nd Meeting of OECD/NEA/CSNI W-GAMA**, Paris (F), Sept. 16-19, 2019
- [1171] **2019 – D’Auria F., Lanfredini M.**, “Specialists Meeting on Transient Thermal-hydraulics in Water Cooled Nuclear Reactors (SM-TH)”, **22nd Meeting of OECD/NEA/CSNI W-GAMA**, Paris (F), Sept. 16-19, 2019
- [1172] **2019 – Nitheanandan N., D’Auria F.**, “Seminar on the Transfer of Competence, Knowledge and Experience gained through CSNI activities in the field of Thermal-hydraulics”, **22nd Meeting of OECD/NEA/CSNI W-GAMA**, Paris (F), Sept. 16-19, 2019
- [1173] **2019 – D’Auria F., Lanfredini M.**, “Status of Passive System Report”, **22nd Meeting of OECD/NEA/CSNI W-GAMA**, Paris (F), Sept. 16-19, 2019
- [1174] **2019 – D’Auria F.**, “Comment to the Elsevier proposed Book <Thermal and Nuclear Power Generation: Vol 1: Fundamentals of Nuclear and Thermal Power Generation; Vol 2: Advances in Thermal and Nuclear Power Generation; Vol 3: Nuclear Power I, Pressurized Water Reactors; Vol 4: Nuclear Power II, Boiling Water Reactors; Vol 5: Nuclear Power III, Advanced Reactors – HTGR-; Vol 6: Nuclear Power IV, Advanced Reactors –FBR->” – Elsevier, 2019
- [1175] **2019 – D’Auria F., Debrecin N., Glaeser H.**, “The technological challenge for current generation nuclear reactors”, *J. Nuclear Energy and Technology (NUCET)*, 2019, 5(3), pp 183-199, ISSN 2452-3038, doi 10.3897/nucet.5.38117
- [1176] **2019 – Ball J., White A., Alvestar A., Paladino D., Virtanen E., Vermeech F., Barrè F., Kitano K., Choi K-Y., Sonnenkalb M., Mailander R., Tregoning R., D’Auria F., Toth I., Vitanza C., Tromm W., Yonomoto T.**, “Senior Group of Experts for Nuclear Safety: Support Facilities for Existing and Advanced Reactors (SESAR/SFEAR2)”, **66th Committee on the Safety of Nuclear Installations (CSNI) meeting**, Paris (F), Dec. 4-15, 2019, pp 1-105
- [1177] **2019 – D’Auria F.**, “Comments, questions and answer to the passive system status report (> 1000 comments addressed)”, **OECD/NEA/CSNI 4th Passive Systems Workshop**, Dec. 11-13, 2019, Tirrenia (Pisa, I), pp 1-127
- [1178] **2019 – D’Auria F. [Ed.], Herer C., Bousbia Salah H., Di Maio F., Zio E., Kang K. H., Chabod A., Do K-H., Morin F., Toth B., Mascari F., Lanfredini M.**, “SOAR on Reliability of Thermal-Hydraulic Passive Systems (SOAR-RPS)” draft rev.06, **OECD/NEA/CSNI 4th Passive Systems Workshop**, Dec. 11-13, 2019,

Tirrenia (Pisa, I), pp 1-417

- [1179] **2019 – D’Auria F., Galassi G.**, “Best Estimate Plus Uncertainty Approach in nuclear reactor safety and licensing: brief history and elements after licensing”, *J. Nuclear Technology and Radiation Protection*, 34, 3, pp 299-312, ISSN 1451-3994, <http://doi.org/10.2298/NTRP190413022D>
- [1180] **2020 – D’Auria F.** “Brief overview of past OECD/NEA/CSNI Specialists Meetings: Topics and selected Speakers”, *1st Meeting of Technical Program Committee (TPC) for the organization of the OECD/NEA/CSNI Specialists Meeting on Transient Thermal Hydraulics for Water Cooled Nuclear Reactors*, Madrid, (Spain), Jan. 30, 2020
- [1181] **2020 – D’Auria F.** “OECD/NEA/CSNI – MADRID 2020 SM: The established CAPS”, *1st Meeting of Technical Program Committee (TPC) for the organization of the OECD/NEA/CSNI Specialists Meeting on Transient Thermal Hydraulics for Water Cooled Nuclear Reactors*, Madrid, (Spain), Jan. 30, 2020
- [1182] **2020 – D’Auria F.** “OECD/NEA/CSNI – MADRID 2020 SM: Connection with other initiatives (in Nuclear Thermal Hydraulics)”, *1st Meeting of Technical Program Committee (TPC) for the organization of the OECD/NEA/CSNI Specialists Meeting on Transient Thermal Hydraulics for Water Cooled Nuclear Reactors*, Madrid, (Spain), Jan. 30, 2020
- [1183] **2020 – D’Auria F.** “OECD/NEA/CSNI – MADRID 2020 SM: Towards the planning of the Specialists Meeting”, *1st Meeting of Technical Program Committee (TPC) for the organization of the OECD/NEA/CSNI Specialists Meeting on Transient Thermal Hydraulics for Water Cooled Nuclear Reactors*, Madrid, (Spain), Jan. 30, 2020
- [1184] **2020 – Akbary R., Ochbelagh D. R., Gharib A., Maiorino J. R., D’Auria F.**, “Small modular reactor full scope core optimization using Cuckoo Optimization Algorithm”, *J. Progress in Nuclear Energy*, 122, 2020, 103271, pp 1-14
- [1185] **2020 – Hassan Y., D’Auria F.**, “Preface for the Memorial Corner Issue devoted to E. Uspuras”, *J. Nuclear Engineering and Design*, 361, 2020, 110627
- [1186] **2020 – Duffey R. B., D’Auria F.**, “Nuclear Energy and its History: Past Consequences, Present Inadequacies and a Perspective for Success”, *Energy and Power Engineering*, 2020, 12, <https://www.scirp.org/journal/epc> ISSN Online: 1947-3818, pp 193-236
- [1187] **2020 – Bestion D., D’Auria F., Lanfredini M.**, “Proposed activity on 3D modeling of passive systems and other mixing problems using coarse nodalization”, 14th FONESYS (web) meeting, June 15-16, 2020, pp 1-21
- [1188] **2020 – Bestion D., D’Auria F., Lanfredini M.**, “Proposal for a FONESYS-SILENCE activity on scaling methods”, 14th FONESYS (web) meeting, June 15-16, 2020, pp 1-48
- [1189] **2020 – Lanfredini M., Bestion D., D’Auria F.**, “TPCF Benchmark Report - Summary and Conclusions”, 14th FONESYS (web) meeting, June 15-16, 2020, pp 1-15
- [1190] **2020 – Lanfredini M., D’Auria F., Bestion D.**, “SB-LOCA Counterpart Test - LOBI, SPES, BETHSY, LSTF, PSB - Preliminary ATLAS calculation”, 14th FONESYS (web) meeting, June 15-16, 2020, pp 1-34
- [1191] **2020 – Bestion D., Lanfredini M., D’Auria F.** “Proposal for a scaling activity”, FONESYS-SILENCE (joint-web) meeting, June 19, 2020 pp 1-60
- [1192] **2020 – Lanfredini M., Bestion D., D’Auria F., Aksan N., Fillion P., Gaillard P., Heo J., Karppinen J., Kim K. D., Kurki J., Liu L., Shen A., Vacher J-L., Wang D.**, “Critical flow prediction by system codes – Recent analyses made within the FONESYS network”, *J. Nuclear Engineering and Design*, 366, 2020, 110731, pp 1-8
- [1193] **2020 – D’Auria F. (Lecturer), Debrecin N., Glaeser H.**, “Improving Safety: Current and Future Nuclear Reactors”, Invited (web) Lecture at 5th Int. Summer School on Engineering Computing in Nuclear Technology © 2015-2020 National Research Nuclear University Russian Federation, Moscow, Kashirskoe shosse, 31, June 29 – July 10, 2020, pp 1-40
- [1194] **2020 – Herranz L.E., Jacquemain D., Nitheanandan T., Sandberg N., Barré F., Bechta S., Choi K-Y., D’Auria F., Lee R., Nakamura H.**, “The working group on the analysis and management of accidents (WGAMA): A historical review of major contributions”, *J. Progress in Nuclear Energy*, 127, 2020, 103432, pp 1-14
- [1195] **2020 – D’Auria F.**, “Passive systems and nuclear thermal-hydraulics”, Invited at ANS-SFEN Int. Top. Meet. On

Advances in Thermal Hydraulics, ATH'20, Proceedings edited by F. Crouzet, J-F. Wald, P. Hamel-Bloch, M. Le Goff, L. Baron-Alves, Paris (F), Oct. 20-23, 2020, pp 1-12

- [1196] **2020 – Aksan S. N., D'Auria F.**, “Summary from “Aix-en-Provence 1992” and “Annapolis 1996” OECD/NEA/CSNI Specialists Meetings in Nuclear Thermal Hydraulics”, **OECD/NEA/CSNI Specialists Meeting on Transient Thermal-hydraulics in Water Cooled Nuclear Reactors (SM-TH)** – Dec. 13-17, 2021 (delayed date). CIEMAT, Madrid, Spain, p1, pp 1-20
- [1197] **2020 – D'Auria F., Aksan S. N., Hassan T.**, “What is nuclear thermal hydraulics?”, **OECD/NEA/CSNI Specialists Meeting on Transient Thermal-hydraulics in Water Cooled Nuclear Reactors (SM-TH)** – Dec. 13-17, 2021 (delayed date). CIEMAT, Madrid, Spain, p8, pp 1-9
- [1198] **2020 – D'Auria F., Aksan S. N., Glaeser H.**, “Thermal Hydraulic Phenomena List”, **OECD/NEA/CSNI Specialists Meeting on Transient Thermal-hydraulics in Water Cooled Nuclear Reactors (SM-TH)** – Dec. 13-17, 2021 (delayed date). CIEMAT, Madrid, Spain, p15, pp 1-8
- [1199] **2020 – Mascari F., D'Auria F., Bestion D., Lien P., Nakamura H., Austregesilo H., Moon S-K., Reventos F., Umminger K., Reyes J. N., Rohatgi U.S.**, “OECD/NEA/CSNI State of the Art Report on Scaling in System Thermal Hydraulics Applications to Nuclear Reactor Safety and Design”. **OECD/NEA/CSNI Specialists Meeting on Transient Thermal-hydraulics in Water Cooled Nuclear Reactors (SM-TH)** – Dec. 13-17, 2021 (delayed date). CIEMAT, Madrid, Spain, p22, pp 1-32
- [1200] **2020 – Mascari F., Bersano A., Alcaro F., Stempniewicz M., Albright L., Jevremovic T., Andrews N., Gauntt R., Austregesilo H., Buchholz S., Bellomo A., D'Auria F., Di Palma G., Lanfredini M., Spina G., Bertani C., De Salve M., Falcone N., Caruso G., Giannetti F., Narcisi V., Choi C., Ha K., Jeon B. G., Kang K-H., Kim K., Park H. S., Karppinen I., Lahovský L.F., Meca R., Parduba Z., Lien P. H., Tomashchik D. Y., Burgazzi L., Lombardo C., Meloni P., Ferri R.**, “OECD/NEA/CSNI/WGAMA PERSEO benchmark: main outcomes and conclusions”. **OECD/NEA/CSNI Specialists Meeting on Transient Thermal-hydraulics in Water Cooled Nuclear Reactors (SM-TH)** – Dec. 13-17, 2021 (delayed date). CIEMAT, Madrid, Spain, p26, pp 1-19
- [1201] **2020 – Barré F., D'Auria F.**, “SESAR Group: Thermal Hydraulics Outcomes”, **OECD/NEA/CSNI Specialists Meeting on Transient Thermal-hydraulics in Water Cooled Nuclear Reactors (SM-TH)** – Dec. 13-17, 2021 (delayed date). CIEMAT, Madrid, Spain, p44, pp 1-10
- [1202] **2020 – D'Auria F., Aksan S. N., Hassan Y.**, “A perspective for development in nuclear thermal-hydraulics”, **OECD/NEA/CSNI Specialists Meeting on Transient Thermal-hydraulics in Water Cooled Nuclear Reactors (SM-TH)** – Dec. 13-17, 2021 (delayed date). CIEMAT, Madrid, Spain, p48, pp 1-12
- [1203] **2020 – Mascari F., Woods B. G., Welter K., D'Auria F., Bersano A., Maccari P.**, “Small Modular Reactors and insights on passive mitigation strategy modeling”, **OECD/NEA/CSNI Specialists Meeting on Transient Thermal-hydraulics in Water Cooled Nuclear Reactors (SM-TH)** – Dec. 13-17, 2021 (delayed date). CIEMAT, Madrid, Spain, p55, pp 1-20
- [1204] **2020 – D'Auria F.**, “The Large Break Loss Of Coolant Accident (LBLOCA) issue in Pressurized Water Reactors”, **OECD/NEA/CSNI Specialists Meeting on Transient Thermal-hydraulics in Water Cooled Nuclear Reactors (SM-TH)** – Dec. 13-17, 2021 (delayed date). CIEMAT, Madrid, Spain, p79, pp 1-9
- [1205] **2020 – D'Auria F.**, “Outlook of papers at OECD/NEA/CSNI Specialists Meeting on Transient Thermal Hydraulics for Water Cooled Nuclear Reactors to be held in Madrid Dec. 13-17, 2021”, **1st Web-Meeting supporting the organization of the OECD/NEA/CSNI Specialists Meeting on Transient Thermal Hydraulics for Water Cooled Nuclear Reactors**, NEA Headquarters, Paris (F), Dec. 21, 2020, pp 1-75
- [1206] **2021 – D'Auria F., Hassan Y.**, “Challenges and concerns for development of nuclear thermal-hydraulics”, **J. Nuclear Engineering and Design, 375, 2021, 111074, pp 1-12**
- [1207] **2021 – Hosseini S. A., Akbari R., Shirani A. S., D'Auria F.**, “Investigation of the Natural Circulation Flow Map in NuScale Small Modular Reactor”, **6th Int. Reliability and Safety Engineering Conference (IRSEC 2020)**, Virtual, Feb. 17-18, 2021, Shiraz University, Shiraz (Iran), Paper Code: AO-09-24
- [1208] **2021 – Lanfredini M., D'Auria F., Bestion D.**, “Mantilla experiments: void fraction and flow regimes evaluation” - FONESYS/Rec-5(21) Rev.1b, Pisa (I), Feb. 2021, pp 1-73 (restricted distribution)
- [1209] **2021 – Hosseini S. A., Akbari R., Shirani A. S., D'Auria F.**, “Analysis of the natural circulation flow map uncertainties in an integral small modular reactor”, **J. Nuclear Engineering and Design, 378, 2021, 111156**,

- [1210] 2021 – D’Auria F., “An old issue and a new challenge for nuclear reactor safety” [Short Communication], *J. Front. Energy*, <https://doi.org/10.1007/s11708-021-0729-0> @ Higher Education Press 2021, pp 1-6
- [1211] 2021 – D’Auria F., Aksan N., Glaeser H., “Physical Phenomena in Nuclear Thermal Hydraulics and Current Status”, *J. IETA, TECNICA ITALIANA*-Italian Journal of Engineering Science, Vol. 65, No. 1, March, 2021, pp. 1-11, Journal homepage: <http://ieta.org/journals/ti-ijes> (ISSN: 0040-1846)
- [1212] 2021 – D’Auria F., Mazzantini O., Galassi G. M., “Atucha II Nuclear Reactor: Design Safety and Licensing”, *Libreriauniversitaria Edizioni Webster srl, Padova (I), June 2021, ISBN 978-88-3359-351-7, pp 1-673*
- [1213] 2021 – D’Auria F., “Nuclear Energy: since 1900 until Enrico Fermi and Admiral Rickover and today situation”, Invited VEBLEO Webinar, May 24 (ppt, slides 1-19) Vebleo - Science, Engineering and Technology <https://vebleo.com>
- [1214] 2021 – D’Auria F., “A flash in history and current challenger for nuclear technology”, Invited at Plenary Session, the 6th AIGE/IETA (Associazione Italiana Gestione dell’Energia / International Information and Engineering Technology Association) Int. Conf. and 15th AIGE Conf., Ancona (I), July 8-9, (slides 1-15)
- [1215] 2021 – D’Auria F., Herranz L.E, “Status of Specialist Meeting in Thermal Hydraulics MADRID-2021” , 24th Plenary Meeting of OECD/NEA/CSNI-WGAMA, Paris, (F), September 13-15 (via web, slides 1-5)
- [1216] 2021 – Bestion D., D’Auria F., Lanfredini M., “Tracking and minimizing compensation of errors in reactor experimental and numerical simulation”, 16th FONESYS Meet., Oct. 19, (via web), <http://nnees.sk/fonesys/>, (slides 1-9)
- [1217] 2021 – Bestion D., D’Auria F., “Identification of thermal hydraulic phenomena for PWR transient analysis and simulation”, FONESYS-SILENCE Meet., Oct. 20, (via web), <http://nnees.sk/fonesys/>, and <http://www.nineeng.org/silence> (slides 1-7)
- [1218] 2021 – D’Auria F., Galassi G.M., Mazzantini O., Riznic J. (Authors/Contributors), J. Riznic [Ed.], Pressurized Heavy Water Reactors – Atucha II, **Vol 8 (Series Editor, Y. Koizumi)**, Publisher Elsevier Radarweg 29, PO Box 211, 1000 AE Amsterdam, Netherlands, October 2021, ISBN: 978-0-323-85382-8, pp 1-587
- [1219] 2021 – Mazzantini O., D’Auria F., Riznic J., “Atucha II plant description”, **Chapter 1, J. Riznic [Ed.], Pressurized Heavy Water Reactors – Atucha II, Vol 8 (Series Editor, Y. Koizumi)**, Publisher Elsevier Radarweg 29, PO Box 211, 1000 AE Amsterdam, Netherlands, 2021, pp 28-77, DOI: <https://doi.org/10.1016/B978-0-323-85382-8.00004-6>
- [1220] 2021 – D’Auria F., Galassi G. M., Mazzantini O., “The best estimate plus uncertainty approach in licensing of Atucha II”, **Chapter 2, J. Riznic [Ed.], Pressurized Heavy Water Reactors – Atucha II, Vol 8 (Series Editor, Y. Koizumi)**, Publisher Elsevier Radarweg 29, PO Box 211, 1000 AE Amsterdam, Netherlands, 2021, pp 78-204, DOI: <https://doi.org/10.1016/B978-0-323-85382-8.00001-0>
- [1221] 2021 – D’Auria F., Mazzantini O., Galassi G. M., “Atucha II: insights from the accident analysis”, **Chapter 3, J. Riznic [Ed.], Pressurized Heavy Water Reactors – Atucha II, Vol 8 (Series Editor, Y. Koizumi)**, Publisher Elsevier Radarweg 29, PO Box 211, 1000 AE Amsterdam, Netherlands, 2021, pp 205-547, DOI: <https://doi.org/10.1016/B978-0-323-85382-8.00002-2>
- [1222] 2021 – D’Auria F., “Passive systems and nuclear thermal hydraulics”, *J. Nuclear Engineering and Design*, 385, 2021, 111513, pp 1-7
- [1223] 2021 – Bersano A., Agnello G., D’Auria F., Zio E., Mascari F., “Methodology and Application to Characterize the Sump Clogging Issue in case of Long Term Core Cooling”, *RCCS-2021-OECD/NEA Specialist Workshop on Reactor core and containment cooling systems – long term management and reliability*, October 18-21, 2021, Levice, Slovakia – paper RCCS 2021 – 1330, pp 1-10
- [1224] 2021 – Hosseini S. A., Shirani A. S., Akbari R., D’Auria F., “Heading Toward Configuration of BEPU Approach into Licensing Process of SMRs”, Nuclear Energy in Central Europe (NENE-2021), Bled (Slo), Sept. 6-9, 2021
- [1225] 2021 – Vermeersch, F., Ball, J., Vitanza C., Virtanen, E., Barre F., Sonnenkalb, M., Tromm, W., Tóth, I., D’Auria, F., Kitano, K., Yonomoto, T., Choi, K-Y., Castelao-Lopez, C., Córdoba, I., Alvestav, A., Mailänder, R., Paladino, D., Tregoning, R., White, A., “Nuclear Safety Research Support Facilities for

Existing and Advanced Reactors: 2021 Update”, The Senior Group of Experts on Nuclear Safety Research/Support Facilities for Existing and Advanced Reactors 2 (SESAR/SFEAR2), OECD/NEA, NEA No 7565, pp 1-104, Paris, F.

- [1226] 2022 – **El-Sahlamy, N.M., Hassan, M.I., Khedr, A.S., D’Auria, F.**, “Study of rod ejection accident at hot zero power condition in a PWR using RELAP5”, *Progress in Nuclear Energy* 144 (2022) 104100, pp 1-5 <https://doi.org/10.1016/j.pnucene.2021.104100>
- [1227] 2022 – **D’Auria F., Bestion D.**, “Nuclear Thermal-Hydraulic Phenomena: Bases and Challenges”, *J. Nuclear Technology*, (2022), 208:6, pp 990-1011, DOI: 10.1080/00295450.2021.1997059
- [1228] 2022 – **Bestion, D., D’Auria, F.**, “(Further analysis on) Identification of Thermalhydraulic Phenomena for PWR Transient Analysis and Simulation”, 19th Int. Top. Meet. on Nuclear Reactor Thermal Hydraulics (NURETH-19) Log nr.: 35596, Brussels, Belgium, March 6 - 11, 2022, pp 1-16, ISBN 9789076971261
- [1229] 2022 – **Bestion, D., D’Auria, F., Lanfredini M.**, “(Finalizing the) Tracking and Minimizing Compensation of Errors in Reactor Experimental and Numerical Simulation”, 19th Int. Top. Meet. on Nuclear Reactor Thermal Hydraulics (NURETH-19) Log nr.: 35598, Brussels, Belgium, March 6 - 11, 2022, pp 1-16, ISBN 9789076971261
- [1230] 2022 – **Lanfredini, M., Moretti, F., D’Auria, F., Bestion, D., Umminger, K., Kim, K-D., Hassan, Y., Aksan, N.**, “Key Achievements from the FONESYS and SILENCE Nuclear Thermal-Hydraulic Networks”, 19th Int. Top. Meet. on Nuclear Reactor Thermal Hydraulics (NURETH-19) Log nr.: 35789, Brussels, Belgium, March 6 - 11, 2022, pp 1-16, ISBN 9789076971261
- [1231] 2022 – **Lanfredini, M., Bestion, D., D’Auria, F., Aydemir, N., Carnevali, S., Fillion, P., Gaillard, P., Jeong, J.J., Karppinen, I., Kim, K-D., Kurki, J., Lee, J.H., Schoeffel, P., Sha, H., Skorek, T., Vacher, J-L. Waddington, G.**, “Horizontal Stratification Criteria of 8 System Codes and Direct Confrontation to TPTF and Mantilla Data”, 19th Int. Top. Meet. on Nuclear Reactor Thermal Hydraulics (NURETH-19) Log nr.: 35791, Brussels, Belgium, March 6 - 11, 2022, pp 1-16, ISBN 9789076971261
- [1232] 2022 – **Lanfredini, M., Bestion, D., D’Auria, F., Aydemir, N., Carnevali, S., Fillion, P., Gaillard, P., Jeong, J.J., Junk, M., Karppinen, I., Kim, K-D., Kurki, J., Lee, J.H., Schoeffel, P., Sha, H., Skorek, T., Vacher, J-L. Waddington, G.**, “TPTF Horizontal Flow Prediction by Sys-Th Codes - Recent Analyses Made within the FONESYS Network”, 19th Int. Top. Meet. on Nuclear Reactor Thermal Hydraulics (NURETH-19) Log nr.: 35792, Brussels, Belgium, March 6 - 11, 2022, pp 1-16, ISBN 9789076971261
- [1233] 2022 – **Lanfredini, M., Bestion, D., D’Auria, F., Aydemir, N., Carnevali, S., Fillion, P., Gaillard, P., Jeong, J.J., Karppinen, I., Kim, K-D., Kurki, J., Lee, J.H., Schoeffel, P., Sha, H., Skorek, T., Vacher, J-L. Waddington, G.**, “Droplet Entrainment Prediction in Horizontal Flow by Sys-Th Codes - Mantilla Experiments - Recent Analyses Made within the FONESYS Network”, 19th Int. Top. Meet. on Nuclear Reactor Thermal Hydraulics (NURETH-19) Log nr.: 35793, Brussels, Belgium, March 6 - 11, 2022, pp 1-16, ISBN 9789076971261
- [1234] 2022 – **Moretti, F., D’Auria, F., Bestion, D.**, “Summary Outcomes of two SWINTH Workshops on Measurement Techniques for Nuclear Reactor Thermal Hydraulic Experiments”, 19th Int. Top. Meet. on Nuclear Reactor Thermal Hydraulics (NURETH-19) Log nr.: 35800, Brussels, Belgium, March 6 - 11, 2022, pp 1-11, ISBN 9789076971261
- [1235] 2022 – **Mascari, F., Bersano, A., Woods, B.G., Reyes, J.N., Welter, K., Nakamura, H., D’Auria, F.**, “Scaling-Up Capabilities of TRACE Integral Reactor Nodalization against Natural Circulation Phenomena in Small Modular Reactors”, 19th Int. Top. Meet. on Nuclear Reactor Thermal Hydraulics (NURETH-19) Log nr.: 36141, Brussels, Belgium, March 6 - 11, 2022, pp 1-16, ISBN 9789076971261
- [1236] 2022 – **Akbari, R., D’Auria, F., Maiorino J.R., Ravetto, P.**, “A Strategy for Deployment of Thorium and U233 (In Italy)”, Proceedings of the 13th Int. Conf. of the Croatian Nuclear Society, Zadar, Croatia, June 5 – 8, 2022 – ISBN 978-953-48100-2-6, Ed.s I. Vrbanic, S. Sadek, K. Trontl, Paper No S3-127, pp 1-13 www.nuclear-option.org
- [1237] 2022 – **D’Auria F.**, “Validation, Uncertainty, Scaling, Passive Systems: AP-1000 Challenges”, (invited paper, extended abstract in proceedings), Proceedings of the 13th Int. Conf. of the Croatian Nuclear Society, Zadar, Croatia, June 5 – 8, 2022 – ISBN 978-953-48100-2-6, Ed.s I. Vrbanic, S. Sadek, K Trontl, Paper No IP-6, pp 1-15 www.nuclear-option.org
- [1238] 2022 – **D’Auria F., Duffey R.B.**, “Innovation needs in nuclear reactor safety and risk”, *Nuclear Energy and*

- [1239] **2022 – D’Auria, F., Galassi, G.M.** “Modeling, Validation, Scaling, Uncertainty and Application in Nuclear Thermal Hydraulics”, ANS, embedded Topical Meeting Advances in Thermal Hydraulics (ATH 2022), June 12–16, 2022, Anaheim, Ca, USA, <https://www.ans.org>, pp 1-14
- [1240] **2022 – Cai, Q., D’Auria, F., Umminger, K., Bestion, D., Shan, J.**, “Prioritizing pressure drop research in nuclear thermal hydraulics”, *J. Progress in Nuclear Energy*, 153, (2022), 104358, pp 1-13
- [1241] **2022 – Cai, Q., D’Auria, F., Shan, J.**, “Review of Application of FFTBM Method for Code Accuracy Quantification”, 31st Int. Conf. Nuclear Energy in Central Europe (NENE), Portoroz (Slo), Sept. 12-15, 2022, www.nss.si/NENE2022/, pp 1-11
- [1242] **2022 – Cai, Q., Umminger, K., Bestion, D., D’Auria, F., Moretti, F., Lanfredini M.**, “Review of FONESYS and SILENCE Nuclear Thermal-Hydraulic Networks Achievements”, 31st Int. Conf. Nuclear Energy in Central Europe (NENE), Portoroz (Slo), Sept. 12-15, 2022, www.nss.si/NENE2022/, pp 1-12

Notes:

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- **Underlined year** (dealing with the period 1978-2008) = final report of contract, or activity presented in international Meeting/Workshop not necessarily with formal peer review process (one-hundred-fifty-four documents in the list)
 - **Blue: Journal publications**
 - **Red: OECD/NEA and IAEA publications**
 - **Green: Publication by International Institutions (e.g. EC, US NRC, Book, Chapter of Book, etc.)**
 - *Starting from 2018, Research Products (RP) are listed: RP that are not publications are reported in italics*

Additional notes

(°) Only abstract in the Proceedings.

(+) Not appearing in the Proceedings due to delays in the transmission.

(°°) Presented at the Poster Session of the Conference, or only slides available.

(**), (^), (&), (&&), (§§), (○○○). (+++), (++++), (^^^), (&&&), (&&&1), (\$\$\$\$), (\$\$\$\$), (^) see a different paper in this list.

(up to) YEAR 2022	Value	ARPI Consistency (1237 Dec. 24, 2021)				
TOTAL NUMBER OF PAPERS/PRODUCTS	1242	Note: Yellow line = ARPI consistency checked				
Blue papers (Journals)	250	To be added here & ARPI: 1) C-series; 2) NA-SA docs [2008-2015]; 3) viaggi di istruzione; 4) docs in Journal&conferences [to be duplicated]; 5) prizes and awards; 6) General Chair of Conferences; 7) Board of Journals; 8) CIRTEM reports.				
Red papers (OECD/NEA & IAEA)	83					
Green papers (International Institutions – Books)	66					
Year underlined (contract report)	154					
<i>Italics, non-scientific document (2018 -2021)</i>	12					
1978	2	Green marked: corrected in ARPI by C. Letta, Nov 2018				
1979	3					
1980	4					
1981	4					
1982	6					
1983	12					
1984	10					
1985	18	[53] to 1987; [57] duplicated-WA (ITA)				
1986	15	[61], [65] duplicated PDM				
1987	13	See 1985, [84], [85] duplicated PDM/WA				
1988	11					
1989	25	[107] to 1990; [101? ok now!], [12] duplicated PDM/SP				
1990	17	See 1989				
1991	21					
1992	28	Bon SACTE + here; [184] Ovalini				
1993	27	Bon NURETH + in Arpi; [212] → 2 parts TBD here				
1994	22	[234] duplicated WA				
1995	30	See 1996; [266], [279] dupl. WA/SP				
1996	34	[269] [270] [279] to 1995				
1997	37	[313] Orjenen; [314]-BWRS dupl. WA (OK!)				
1998	27	Pieve 1983 here (!)				
1999	27					
2000	29	[402] no Vigni;				
2001	41					
2002	33	[48] dupl. BEG; [467]: ATI + here & J-NTRP + Arpi				
2003	52	[516] + here; [508] dupl. BEG; post-FISA + here&Arpi				
2004	56	ARS '04 Cavicchia questionable in Arpi (?)				
2005	48	[566] to [569] dupl. in 2005 Arpi (=also in 2004)				
2006	50	[664]/[699] ← C-558/C-559; Bajas [678]; +[702]cacuci				
2007	50	[721] dupl.; [708] DAURIA;				
2008	58	[634], [799, 2x] dupl.; CFD VAL to be deleted; [805] Miak;				
2009	43	[844] to be dupl.(int. ed.)				
2010	29	[877-880] added here&Arpi				
2011	47					
2012	52	[938] Revento; [962] now dupl. (wrong product);				
2013	17					
2014	22					
2015	20					
2016	17	[1048] J of energy – Menzel added in arpi only				
2017	35	[1065] & [1066], published 2018 – duplicated in Arpi				
2018	48 (-5)	Research products here-on: non-publications in italics				
2019	38 (-6)					
2020	26 (-)					
2021	20 (-1)					
2022	17					
2023						
2024						
SELECTED CO-AUTHORS		+				
Adorni M.	Italy	38	Addabbo C. (EC-JRC)	9	Camargo-Munhoz C. (Brazil)	11
Aksan N.	Switzerland	45	Ahn S. H. (Korea)	4	Melikhov O. (Russia)	6
Ambrosini W.	Italy	35	Aragones J. M. (Spain)	5	Misak J. (Slovakia)	8
Araneo D.	Italy	36	Barre F. (France)	3	Modro M. (US)	4
Bajc T.	Croatia	29	Bestion D. (France)	22	Ninokata H. (Japan)	1
Bousbia Salah A.	Algeria	71	Cacuci (US-Germany)	8	Podowski M. (US)	1
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Cherubini M.	Italy	51	Dusic M. (Slovenia)	4	Reyes J. (US)	4
Debrechin N.	Croatia	27	Ferreri J.C. (Argentina)	7	Rizwan Uddin (US)	5
Del Nevo A.	Italy	82	Fil N. (Russia)	10	Rohatgi U.S. (US)	2
Galassi G.	Italy	237	Gabareev B. (Russia)	3	Rohde U. (Germany)	9
Glaeser H.	Germany	41	Giot M. (Belgium)	5	Sartori E. (OECD/NEA)	5
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Giannotti W.	Italy	71	Hassan Y. (US)	14	Staedtke H. (EC-JRC)	6
Kovtomyuk	Ukraine	30	Hewitt G. F. (UK)	3	Suslov A. (Russia)	6
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Mazzini M.	Italy	62	Ivanov K. (US)	25	Toth I (Hungary)	14
Moretti F.	Italy	52	Karwai H. (Germany)	4	Umminger K. (Germany)	15
Muellner N.	Austria	51	Kirillov P. (Russia)	4	Uspuras E. (Lithuania)	4
Oriolo F.	Italy	39	Lahey R.T. Jr (US)	1	Wolfert K. (Germany)	4
Reventos	Spain	38	Lillington J. (UK)	11	Yadigaroglu G. (Switzerland, US)	1
Parisi C.	Italy	36	Luxat J. (Canada)	1	Zuber N. (US)	2
Petruzzi A.	Italy	142	Maiorino J. R. (Brazil)	1	Mavko B. (Slovenia)	18
Vigni P.	Italy	59				

