

Programme Committee

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Abdallah Amri, OECD/NEA
Kaisa Simola, VTT, Finland
Matthias Heitsch, IAEA
Francesca Salesa, ENUSA, Spain
Emanuele Negrenti, ENEA, Italy

Welcome Addresses

Opening Session Monday 09:00-10:30

Chair: Francesco D'Auria, University of Pisa, Italy
Co-chair: Risto Himanen, Teollisuuden Voima Oyj, TVO, Finland

Jean-Pol Poncelet, Secretary General, ENS, Belgium
Tero Varjoranta, Director General, STUK, Finland
Lasse Reiman, STUK, Finland

'The role of European Regulators in the aftermath of the Fukushima accident'

Sunday 22 April 2012

17:00 – 19:00 **Pre-Registration**
18:30 – 19:30 **Welcome Drink**

Monday 23 April 2012

9:00 -10:30 **Opening Session**
Welcome Addresses

10:30 – 11:30 **Coffee Break and Poster Session**

Mon 11:30 – 13:00 Plenary Session I

Chair: R. Himanen, TVO, Finland; Co-chair: F. D’Auria, University of PISA, Italy

J. Nakoski, OECD Overview of OECD/NEA actions following the Fukushima accident

F.P. Weiss, GRS Complementary Safety Assessment of German Power Reactors in the Light of the Fukushima Nuclear Accident. Stress Test Approach of the German Reactor Safety Commission and GRS Recommendations for Further Enhancement of Robustness

13:00 – 14:00 **Lunch**

Mon 14:00 – 15:30 – Parallel Session I **Lessons learned from Fukushima**

Chair: R. Schene, Westinghouse Electric Company, Belgium; Co-chair: L. Vanhoenacker, GDFSuez, Belgium

14:00 – 14:30 LESSONS LEARNED FROM OUR ACCIDENT AT FUKUSHIMA NUCLEAR POWER STATIONS Kawano, A. (1)
1 - Tokyo Electric Power Company, Japan

14:30 – 15:00 POST-FUKUSHIMA TRENDS IN RUSSIAN NUCLEAR ENERGY AND PUBLIC PERCEPTION Gagarinskiy, A. (1)
1 - National Research Centre "Kurchatov Institute", Russian Federation

15:00 – 15:30 EXISTING NUCLEAR FLEET: PLANT SAFETY AFTER FUKUSHIMA Letourneux, J.-M. (1)
1 - AREVA, France

Mon 14:00 – 15:30 – Parallel Session II External Hazards

Chair: R. Himanen, TVO, Finland; Co-chair: P. Raymond, CEA, France

14:00 – 14:30	EPR SAFETY IN THE POST-FUKUSHIMA CONTEXT	Dardy, A. (1), Chabod, A. (1) 1 - AREVA, France
14:30 – 15:00	SEISMIC HAZARD ASSESSMENT FOR SELECTED REAL LOCALITY IN CENTRAL EUROPE - CRITICAL POINTS OF ASSESSMENT	Prochazkova, D. (1); Demjancukova, K. (2) 1 - Czech Technical University in Prague, Czech Republic 2 - University of West Bohemia in Pilsen, Czech Republic
15:00 – 15:30	METHODS OF RE-EVALUATION OF NUCLEAR SAFETY FOR NUCLEAR POWER PLANTS	Remišovská, M. (1) 1 - STEVENSON AND ASSOCIATES Office in Czech Republic, Czech Republic

15:30 – 16:00 Coffee Break

Mon 16:00 – 17:30 – Parallel Session I Initiatives for Safety Assessment & Harmonisation of Regulations

Chair: L. Vanhoenacker, GDFSuez, Belgium; Co-chair: A. Traichel, Nukem Technologies, Germany

16:00 – 16:20	ENISS CONTRIBUTION TO THE HARMONIZATION OF THE REGULATORY FRAMEWORK	Berger, J.-P. (1); Vanhoenacker, L. (1); Glibert, M. (1) 1 - Foratom, Belgium
16:20 – 16:40	HARMONISED ASSESSMENT OF RELIABILITY OF MODERN NUCLEAR I&C SOFTWARE — EU FP7 PROJECT HARMONICS	Holmberg, J.-E. (1); Guerra, S. (2); Thuy, N. (3); März, J. (4); Liwång, B. (5) 1 - VTT Technical Research Centre of Finland, Finland 2 - Adelar LLP, United Kingdom 3 - Electricité de France SA, France 4 - Institut für Sicherheitstechnologie (ISTec) GmbH, Germany 5 - Strålsäkerhetsmyndigheten, Sweden
16:40 – 17:00	HARMONIZATION OF REQUIREMENTS TO DIVERSITY AND SAFETY ASSESSMENT OF MULTI-VERSION NPP I&C SYSTEMS	Kharchenko, V. (1); Brezhnev, E. (2); Sklyar, V. (3); Volkoviy, A. (2) 1 - National Aerospace University KhAI, Ukraine 2 - Centre for Safety Infrastructure-Oriented Research and Analysis, Ukraine 3 - RPC Radiy, Ukraine
17:00 – 17:30	THE ROLE OF AN INSPECTION ORGANIZATION IN NUCLEAR SUPERVISION AND LICENSING PROCESSES	Goers, S. (1) 1 - TÜV NORD Nuclear, c/o TÜV NORD SysTec, Germany

Tuesday 24 April 2012

Tue 8:30 – 10:30 – Parallel Session I Best Estimate Codes and Methods

Chair: F. Salesa, ENUSA, Spain; Co-chair: A. Barrett, GE, Sweden

08:30 – 09:00	THE DEVELOPING AND VERIFICATION OF TRACE MODEL ON IIST EXPERIMENTS	Zhuang, W.-X. (1); Shih, C. (1); Wang, J.-R. (2); Lin, H.-T. (2) 1 - Institute of Nuclear Engineering and Science, National Tsing Hua University, Taiwan 2 - Institute of Nuclear Energy Research, Atomic Energy Council, Taiwan
09:00 – 09:30	THE BEPU (BEST ESTIMATE PLUS UNCERTAINTY) CHALLENGE IN CURRENT LICENSING OF NUCLEAR REACTORS	Petruzzi, A. (1); Muellner, N. (1); D'Auria, F. (1); Mazzantini, O. (2) 1 - Nuclear Research Group San Piero a Grado, Italy 2 - NASA, Argentina
09:30 – 10:00	LWR CORE SAFETY ANALYSIS WITH AREVA'S 3-DIMENSIONAL METHODS	Gensler, A. (1); Schmidt, A. (1); Bigot, J. (2); Kühnel, K. (1); Maxson, W. (3); Pruitt, D. (3); Wehle, F. (1) 1 - AREVA - AREVA NP GmbH, Germany 2 - AREVA - AREVA NP Fuel Sector, France 3 - AREVA - AREVA NP Inc, United States
10:00 – 10:30	DEVELOPMENT OF NON-LOCA SAFETY ANALYSIS METHODOLOGY USING SPACE CODE	Lee, E. J. (1); Lee, C. S. (1); Sohn, J. J. (1) 1 - KEPCO Engineering & Construction Co., Inc., Korea, Republic of

Tue 8:30 – 10:30 – Parallel Session II Safety Assessment

Chair: M. Heitsch, IAEA, Co-chair: J. Nakoski, OECD/NEA

08:30 – 09:00	AP1000 LINES OF DEFENSE FOR A SMALL BREAK LOCA	Lioce, D. (1); Oriani, L. (2); Saiu, G. (1); Frogheri, M. (1) 1 - Ansaldo Nucleare S.p.A., Italy 2 - Westinghouse Electric Company, Italy
09:00 – 09:30	REGULATORY EXPERIENCE ON SAFETY ANALYSIS FOR CONTINUOUS OPERATION AND ITS PERSPECTIVES	Bang, Y. S. (1); Huh, B. G. (1); Oh, D. Y. (1); Woo, S.-W. (1) 1 - Korea Institute of Nuclear Safety, Korea, Republic of
09:30 – 10:00	EVALUATION OF KEY DIFFERENCES BETWEEN EUROPEAN EPR DESIGNS	Henstra, B. (1); Nijhuis, M. (1); Schooljan, J.-K. (1) 1 - NRG, Netherlands
10:00 – 10:30	A PERSPECTIVE ON DETERMINISTIC SAFETY ANALYSIS OF A NUCLEAR POWER PLANT	Wan, P. (1) 1 - Canadian Nuclear Safety Commission, Canada

15:30 – 16:00 Coffee Break

**Tue 11:00 – 13:00 – Parallel Session I
Best Estimate Codes and Methods**

Chairman: A. Barrett, GE, Sweden; Co-chair: F. Salesa, ENUSA, Spain

11:00 – 11:30	PREDICTION VERSUS TOLERANCE REGIONS FOR UNCERTAINTY ASSESSMENT IN BEST-ESTIMATE SAFETY CALCULATIONS	Mendizábal, R. (1) 1 - Consejo de Seguridad Nuclear, Spain
11:30 – 12:00	THE ROLE OF THERMAL-HYDRAULIC SYSTEM CODES IN NPP ENGINEERING SIMULATORS AND THE ENEA STRATEGY	Parisi, C. (1); Cappelli, M. (1); Negrenti, E. (1); Sepielli, M. (1) 1 - ENEA - UTFISSIT SIMING Lab, Italy
12:00 – 12:30	HTGRS DETAILED 3-D FIXED CROSS-SECTIONS NEUTRONICS SOLUTIONS USING AGENT CODE	Hernandez, H. (1); Jevremovic, T. (1) 1 - The University of Utah, United States
12:30 – 13:00	BEST ESTIMATE BWR TRANSIENT MODELLING WITH APROS	Lauerma, S. (1); Puska, E. K. (1) 1 - VTT Technical Research Centre of Finland, Finland

**Tue 11:00 – 13:00 – Parallel Session II
Safety Analysis & Risk Assessment**

Chair: A. Traichel, Nukem Technologies, Germany, Co-chair: L. Vanhoenacker, GDFSuez, Belgium

11:00 – 11:30	AGEING OF REACTOR VESSEL INTERNALS – STRAIN RATE EFFECT ON FRACTURE RESISTANCE	Hojna, A. (1); Hietanen, O. (2); Hulinova, L. (3); Korhonen, R. (2); Kresz, N. (4); Varga, I. (4) 1 - Nuclear Research Institute Rez, Czech Republic 2 - Fortum Power & Heat, Finland 3 - NPP Dukovany, Czech Power, Czech Republic 4 - Paks NPP, Hungary
11:30 – 12:00	HYDROGEN RISK ASSESSMENT - HYDROGEN DISTRIBUTION AND MITIGATION ANALYSES WITH CFD	Visser, D. C. (1); Siccama, N. B. (1); Komen, E. M. J. (1) 1 - Nuclear Research and Consultancy Group (NRG), Netherlands
12:00 – 12:30	STRATEGIC SAFETY PROGRAMME AT BELGOPROCESS (BELGIUM)	Bogaerts, W. (1); Vanbrabant, R. (1); Gielen, P. (1) 1 - Belgoprocess, Belgium
12:30 – 13:00	CANDU 6 DEFENSE IN DEPTH FEATURES IN LIGHT OF FUKUSHIMA ACCIDENT	Lekakh, B. (1); Choy, E. (1); Ford, S. (1) 1 - Candu Energy Inc., Canada

13:00 – 14:00 Lunch

Tue 14:00 – 16:00 – Parallel Session I Safety of Research Reactors

Chair: F. Hardeman, SCK-CEN, Belgium; Co-chair: J. Dreier, PSI, Switzerland

14:00 – 14:30	BEST ESTIMATE CODES AND METHODS FOR SAFETY ANALYSIS OF THE RESEARCH REACTORS WITH EXPERIMENTAL BENCHMARKS	Jevremovic, T. (1); Choe, D.-O. (1); Hernandez, H. (1) 1 - The University of Utah, United States
14:30 – 15:00	INTERPRETATION OF REACTIVITY INSERTION ACCIDENT TRANSIENT ON RESEARCH REACTORS ON EXAMPLE TO SPERT-IV-D 12/25 BENCHMARK	Ivanov, E. (1); Ecrabet, F. (1); Maas, L. (1) 1 - Institut de Radioprotection et de Sûreté Nucléaire, France
15:00 – 15:30	IAEA SURVEY ON WORLDWIDE RECENT ACTIVITIES IN RESEARCH REACTORS CENTRES POST FUKUSHIMA-DAIICHI NPPS ACCIDENT	Barnea, Y. (1); Peld, N. D. (1); Adelfang, P. (1); Shokr, A. M. (2); Abou Yehia, H. (2) 1 - RESEARCH REACTORS SECTION, NEFW, IAEA, Austria 2 - RESEARCH REACTORS SAFETY SECTION, NSNI, IAEA, Austria
15:30 – 16:00	APPLICATION OF AN INTEGRATED MANAGEMENT SYSTEM FOR SAFETY & AGEING MANAGEMENT AT TRIGA RESERCH REACTOR FACILITY OF THE UNIVERSITY OF PAVIA (ITALY)	Borio di Tigliole, A. (1); Cagnazzo, M. (1); Magrotti, G. (1); Marchetti, F. (1); Prata, M. (1); Salvini, A. (1) 1 - Laboratory of Applied Nuclear Energy (LENA) - University of Pavia, Italy

Tue 14:00 – 16:00 – Parallel Session II Severe Accident Management, Emergency Planning and Response

Chair: E. Uspuras, LEI, Lithuania; Co-chair: M. Heitsch, IAEA

14:00 – 14:30	A PRELIMINARY ANALYSIS OF THE UNIT 1 ACCIDENT AT THE FUKUSHIMA DAICHI NPP BY THE RELAP/SCDAPSIM CODE	Parisi, C. (1); Del Nevo, A. (2); Negrenti, E. (1); Sepielli, M. (1) 1 - ENEA - UTFISST SIMING Lab, Italy 2 - ENEA - UTIS-TCI Lab, Italy
14:30 – 15:00	HYDROGEN RISK ASSESSMENT - HYDROGEN COMBUSTION ANALYSES WITH CFD	Sathiah, P. (1); Vanharen, S. W. (1); Komen, E. M. J. (1); Visser, D. (1) 1 - Nuclear Research and Consultancy Group (NRG), Netherlands
15:00 – 15:30	NEW MULTI -FUNCTIONAL CONTAINMENT ATMOSPHERIC MONITORING SYSTEM TECHNOLOGY HERMETIS FOR SEVERE ACCIDENT MANAGEMENT SEVERE ACCIDENT QUALIFICATION METHODOLOGY SYSTEM TEST RESULTS AND IMPLEMENTATION	Hill, A. (1); Eckardt, B. (1); Koch, J. (1) 1 - AREVA GmbH, Germany
15:30 – 16:00	NEW ACCIDENT PROOF LEVEL MEASUREMENT DEVICES	Estévez Hernández, S. (1); König, W. (1); Ziethe, J. (1); Waber, P. (1); Schumilov, A. (1) 1 - AREVA NP GMBH, Germany

16:00 – 16:30 Coffee Break

Tue 16:30 – 18:00 – Parallel Session I Safety Culture & Management of Safety

Chair: T. Kohler, Alpiq Suisse, Switzerland; Co-chair: F. Hardeman, SCK-CEN, Belgium

16:30 – 17:00	KNOWLEDGE MANAGEMENT AS AN APPROACH TO STRENGTHEN SAFETY CULTURE IN NUCLEAR ORGANIZATIONS	Karseka, T. (1); Yanev, Y. (1) 1 - International Atomic Energy Agency, Austria
17:00 – 17:30	A SURVEY OF SAFETY CULTURE IN HIGH RISK INDUSTRIES	Mkrtchyan, L. (1); Turcanu, C. (1) 1 - Belgian Nuclear Research Centre SCK•CEN, Belgium
17:30 – 18:00	TRAINING SCHEMES ON NUCLEAR SAFETY CULTURE FOR MANAGERS: THE TRASNUSAFE PROJECT	Giot, M. (1); Carle, B. (2); Coeck, M. (2); Meskens, G. (2); Crouail, P. (3) 1 - Catholic University of Louvain / Louvain School of Engineering, Belgium 2 - Belgian Nuclear Research Centre (SCK.CEN), Belgium 3 - Centre d'étude sur l'Evaluation de la Protection dans le domaine Nucléaire (CEPN), France

Tue 16:30 – 18:00 – Parallel Session II Research and Development

Chair: J. Dreier, PSI, Switzerland; Co-chair: K. Simola, VTT, Finland

16:30 – 17:00	SAFETY REASSESSMENT OF IRADIATION DEVICES IN OSIRIS RESEARCH REACTOR - THE CASE OF GRIFFONOS	Zampa, J.-S. (1); Tremodeux, P. (1) 1 - CEA (Commissariat à l'Energie Atomique et aux Energies Alternative) DRSN/SIREN, France
17:00 – 17:30	MODELLING OF QUENCH-16 EXPERIMENT WITH MAAP4 SEVERE ACCIDENT CODE	Beuzet, E. (1); Steinbrück, M. (2); Stuckert, J. (2) 1 - EDF R&D, France 2 - KIT (Karlsruher Institut für Technologie), Germany
17:30 – 18:00	A REVIEW OF THE MECHANISTIC MODELING OF DRYOUT UNDER BWR CONDITIONS	Dasgupta, A. (1); Chandraker, D. K. (1); Vijayan, P. K. (1) 1 - Bhabha Atomic Research Centre, India

Wednesday 25 April 2012

Wed 9:00 – 10:30 – Parallel Session I Education and Training

Chair: N. Cavlina, University of Zagreb, Croatia; Co-chair: P. Raymond, CEA, France

09:00 – 09:30	CLASSIFIED FOR COMPETENCE: A BLUEPRINT FOR WORKFORCE DEVELOPMENT	Urso, M. E. (1); Murphy, B. (2) 1 - OECD Nuclear Energy Agency, France 2 - University of Salford, United Kingdom
09:30 – 10:00	EDUCATION & TRAINING WITH THE TRIGA RESEARCH REACTOR OF THE	Cagnazzo, M. (1); Alloni, D. (1); Borio di Tigliole, A. (1); Magrotti, G.

LABORATORY OF APPLIED NUCLEAR ENERGY (LENA) OF THE UNIVERSITY OF PAVIA (ITALY).

(1); Manera, S. (1); Prata, M. (1); Salvini, A. (1)
1 - Laboratory of Applied Nuclear Energy (LENA) - University of Pavia, Italy

10:00 – 10:30	3D S.UN.COP SEMINARS EXPERIENCE ON PRACTICAL CODE APPLICATION TRAINING	Petruzzi, A. (1); D'Auria, F. (1); Bajs, T. (2); Cavlina, N. (3); Reventos, F. (4) 1 - DIMNP, University of Pisa, Italy 2 - Enconet d.o.o, Croatia 3 - FER, University of Zagreb, Croatia 4 - School of Industrial Engineering, Spain
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Wed 9:00 – 10:30 – Parallel Session II Trends in Nuclear Safety for Future Installations

Chair: E. Negrenti, ENEA, ITALY; Co-chair: J. Nakoski, OECD

09:00 – 09:30	REVIEWING THE INTERIM SAFETY ANALYSIS REPORT OF BELENE NPP	Tsvetanova, E. (1); Avdjiev, K. (1); Martial, C. (2); Bruna, G. (3); Dimitrov, B. (3); Sabotinov, L. (3); Kelm, P. (4); Richter, W. (4); Mueller, C. (4) 1 - BNRA Bulgarian Nuclear Regulatory Agency, Bulgaria 2 - RISKAUDIT, France 3 - IRSN Institut de Radioprotection et Sûreté Nucléaire, France 4 - GRS, Germany
09:30 – 10:00	SAFETY APPROACHES IN GEN-IV RESEARCH REACTORS: MYRRHA IN-VESSEL FUEL MANIPULATION	Jezic von Gesseneck, J. (1); Lefebvre, D. (1); Vanderborght, B. (1); Caers, B. (2); Naidoo, D. (2) 1 - Vrije Universiteit Brussel, Belgium 2 - SCK-CEN, Belgium
10:00 – 10:30	APPLICATION OF TRACG FOR ESBWR EXTENDED STATION BLACKOUT/LOSS OF ALL AC POWER CALCULATION	Barrett, A. (1); Marquino, W. (1) 1 - GE Hitachi, United States

10:30 – 11:00 Coffee Break

Wed 11:00 – 12:30 – Parallel Session I Risk Informed Decision Making

Chair: A. Traichel, Nukem Technologies, Germany; Co-chair: H. Tuomisto, Finland

11:00 – 11:30	DEALING WITH THE UNEXPECTED IN THE NUCLEAR SAFETY	Tuomisto, H. (1) 1 - Fortum Power, Finland
11:30 – 12:00	IMPORTANCE OF HIGH FIDELITY CFD CALCULATIONS FOR NUCLEAR REACTOR SAFETY	Shams, A. (1); Jayaraju, S. T. (1); Loginov, M. S. (1); Komen, E. M. J. (1); Visser, D. (1) 1 - Nuclear Research and Consultancy Group (NRG), Netherlands
12:00 – 12:30	PROBABILISTIC FIRE SAFETY ANALYSIS AS AN ASPECT DURING DESIGN STAGE	Mummert, M. (1); Dilger, M. (2);

FOR NON-REACTOR NUCLEAR FACILITIES

Traichel, A. (2)

1 - HS-Zittau/Görlitz - University of Applied Sciences, Germany

2 - NUKEM Technologies GmbH, Germany

Wed 11:00 – 12:30 – Parallel Session II Trends in Nuclear Safety for Future Installations

Chair: J. Nakoski, OECD; Co-chair: E. Negrenti, ENEA, Italy

11:00 – 11:30	NUCLEAR SAFETY ASPECTS OF THE ITER TOKAMAK BUILDING	Wouters, P. (1); Chaffard, P. -Y. (1); Schmieder, L. (1); Hanna, G. (1); Tardif, T. (1); Darbour, R. (1); Furlan, J. (1); Combescure, D. (1); Izquierdo, J. (1); Taylor, N. (2); Patisson, L. (2) 1 - Fusion For Energy, Spain 2 - ITER Organization, France
11:30 – 12:00	ADDRESSING THE HEAVY LIQUID METAL - WATER INTERACTION ISSUE IN LBE SYSTEM	Del Nevo, A. (1); Ciampichetti, A. (1); Tarantino, M. (1); Burgazzi, L. (2); Forgiione, N. (3) 1 - ENEA UTIS, Italy 2 - ENEA UTFISSM, Italy 3 - UNIPI DIMNP, Italy
12:00 – 12:30	SIMULATION OF DUST BEHAVIOR IN HTR WITH PEBBLE BED FUEL	Jühe, S. (1); Struth, S. (2); Schlögl, B. (1); Allelein, H.-J. (1) 1 - RWTH Aachen, Germany 2 - Forschungszentrum Jülich, Institut für Energieforschung (IEK), Nukleare Entsorgung und Reaktorsicherheit (IEK-6), Germany

12:30 – 13:30 Lunch

13:30 – 15:30 Closing Session

Chair: F. D'Auria, University of Pisa, Italy; Co-chair: D. Popov, NPP Kozloduy, Bulgaria

A. Bucalossi, JRC Nuclear Knowledge Management - need for international cooperation

J. E. Lyons, IAEA Strengthening the Global Nuclear Safety and Security Framework (tbc)

F. D'Auria, University of Pisa Summary, Q&A Session
D. Popov, NPP Kozloduy

Poster Session - Monday 10.30 – 11.30

Chairs: M. Adorni, University of Pisa, Italy

N. Cavlina, University of Zagreb, Croatia

J. Dreier, PSI, Switzerland

P. Raymond, CEA, France

TopSafe2012-A0001	OPERATION EXPERIENCE IN NUCLEAR SAFETY ASSURANCE	Preda, M. (1); Ana, E. M. (1) 1 - Institute for Nuclear Research Pitesti, Romania
TopSafe2012-A0003	SAFIR2014 – THE FINNISH NATIONAL NUCLEAR POWER PLANT SAFETY RESEARCH PROGRAMME 2011-2014	Simola, K. (1) 1 - VTT Technical Research Centre of Finland, Finland
TopSafe2012-A0005	MAIN STEAM LINE BREAK LOCA ANALYSIS FOR LUNG MEN ABWR USING TRACE	Lai, P.-H. (1); Wang, J.-R. (2); Lin, H.-T. (2); Shih, C. (1) 1 - Department of Engineering and System Science National Tsing-Hua University, Taiwan 2 - Institute of Nuclear Energy Research, Atomic Energy Council, Taiwan
TopSafe2012-A0007	RALSTONIA DE TUSCULANENSE (RDT): DISCOVERY, DEVELOPMENT AND TRENDS IN NUCLEAR APPLICATIONS	Bartalucci, S. (1); Quercia, P. (1); Zangari, G. (1); Quartieri, G. (2); Quartieri, L. (2) 1 - INFN – Laboratori Naz.li di Frascati, Italy 2 - Parco Tecnologico Pozzilli (IS) – NEUROMED, Italy
TopSafe2012-A0008	NPP RELIABILITY & SAFETY PREDICTION ACCURACY STOCHASTIC CONVERGENCE	Quartieri, G. (1) 1 - NEUROMED, Italy
TopSafe2012-A0017	INTERNATIONAL NUCLEAR HUMAN RESOURCE DEVELOPMENT OF JAEA FOR ASIAN COUNTRIES	Arai, N. (1); Yamashita, K. (1); Yabuuchi, Y. (1) 1 - Japan Atomic Energy Agency (JAEA), Japan
TopSafe2012-A0036	FASTER-THAN-REAL TIME DYNAMIC EVALUATIONS ON OFFSITE DOSE DISTRIBUTIONS FOR NUCLEAR EMERGENCY PLANNING AND RESPONSE	Chen, S.-S. (1); Cheng, Y.-H. (2); Wang, J.-R. (3); Shih, C. (1) 1 - Institute of Nuclear Engineering and Science, National Tsing-Hua University, Taiwan 2 - Industrial Technology Research Institute, Taiwan 3 - Institute of Nuclear Energy Research, Taiwan
TopSafe2012-A0037	TRACE/PARCS MODELING OF THE TURBINE TRIP WITHOUT BYPASS TRANSIENT FOR LUNG MEN ABWR	Wang, J.-R. (1); Lin, H.-T. (1); Chen, H.-C. (2); Shih, C. (2) 1 - Institute of Nuclear Energy Research, Atomic Energy Council, R.O.C., Taiwan 2 - Department of Engineering and System Science, National Tsing Hua University, Taiwan
TopSafe2012-A0038	STUDIES ON SCRRI PERFORMANCES IN ABWR WITH TRACE/PARCS	Chang, C.-Y. (1); Shih, C. (1); Wang, J.-R. (2); Lin, H.-T. (2) 1 - Institute of Nuclear Engineering and Science, National Tsing Hua University, Taiwan 2 - Institute of Nuclear Energy Research,

		Taiwan
TopSafe2012-A0043	ANALYSIS OF MAANSHAN COLD LEG 2% SBLOCA WITH IIST-BENCHMARKED TRACE MODEL	Yang, J.-H. (1); Wang, J.-R. (2); Lin, H.-T. (2); Shih, C. (1) 1 - National Tsing Hua University, Taiwan 2 - Institute of Nuclear Energy Research Atomic Energy Council, Taiwan
TopSafe2012-A0050	CRITICALITY ISSUES AND CONTROL OF NUCLEAR POWER REACTOR CORES LOADED WITH EMERGING NUCLEAR FUELS	Nikolaou, G. (1) 1 - DEMOKRITUS UNIVERSITY OF THRACE, Greece
TopSafe2012-A0051	NUCLEAR SAFETY CULTURE at NUCLEAR FUEL PLANT PITESTI ROMANIA	Epure, G. (1); Ivana, T. (1) 1 - Nuclear Fuel Plant Pitesti, Romania
TopSafe2012-A0053	EVALUATION FOR 100% DVI LINE BREAK OF ATLAS FACILITY	Huh, B. G. (1); Bang, Y. S. (1); Woo, S. W. (1) 1 - Korea Institute of Nuclear Safety (KINS), Korea, Republic of
TopSafe2012-A0067	THE BENEFITS OF ENRICHED BORIC ACID IN PWRs	Wiedenmann, D. (1) 1 - Ceradyne, United States
TopSafe2012-A0059	CATHARE-2 SIMULATION OF THE MAIN STEAM LINE BREAK TRANSIENT IN PKL-III FACILITY	Del Nevo, A. (1); Kovtoniuk, A. (2); D'Auria, F. (2) 1 - ENEA UTIS, Italy 2 - GRNSPG-UNIPI, Italy
TopSafe2012-A0072	PERIODIC SAFETY REVIEW AND SAFETY UPGRADES	Aydemirov, O. (1) 1 - OJSC Rosenergoatom Concern, Russian Federation
TopSafe2012-A0073	MODELING COOLANT CHEMISTRY IN A SUPERCRITICAL WATER REACTOR	Yeh, T.-K. (1); Wang, M.-Y. (1); Liu, H.-M. (1); Lee, M. (1) 1 - National Tsing Hua University, Taiwan
TopSafe2012-A0079	EXPERIMENTAL INVESTIGATION OF BUBBLE BEHAVIOR DURING NUCLEATE BOILING UNDER PWR-SPECIFIC SUBCOOLING AND FLOW PARAMETERS BY OPTICAL MEASUREMENT METHODS	Schneider, C. (1); Traichel, A. (2); Hurtado, A. (3); Koch, E. (3); Hampel, R. (1); Meissner, S. (3) 1 - University of Applied Sciences Zittau/Görlitz, Germany 2 - NUKEM Technologies GmbH, Germany 3 - TU Dresden, Germany
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