

Registration & Welcome Coffee

Table with 3 columns: Tuesday, Wednesday, Thursday

Table with 3 columns: Tuesday, Wednesday, Thursday. Keynote lecture #1, #2, #3

Coffee break

Table with 3 columns: Tuesday, Wednesday, Thursday. F, C, A, F, C, H, F, D, B

Table with 3 columns: Tuesday, Wednesday, Thursday. F-25, C-48, A-27, F-54, C-40, H-20, F-28, D-6, B-61

Table with 3 columns: Tuesday, Wednesday, Thursday. F-51, C-23, A-68, F-55, C-73, H-21, F-30, D-92, B-58

Table with 3 columns: Tuesday, Wednesday, Thursday. F-65, C-32, A-89, F-56, C-39, H-22, F-17, D-19, B-40

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Lunch

Table with 3 columns: Tuesday, Wednesday, Thursday. F, D, J, G, C, H, E, D, H

Table with 3 columns: Tuesday, Wednesday, Thursday. F-34, D-52, J-67, G-85, C-86, H-26, E-37, D-35, H-49

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Table with 3 columns: Tuesday, Wednesday, Thursday. F-43, D-45, J-74, G-8, C-36, H-36, E-62, D-13, H-93

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Table with 3 columns: Tuesday, Wednesday, Thursday. F-43, D-45, J-74, G-8, C-36, H-36, E-62, D-13, H-93

Coffee break

Table with 3 columns: Tuesday, Wednesday, Thursday. I, D, H

Table with 3 columns: Tuesday, Wednesday, Thursday. I-39, D-11, H-44, D-81, H-41, I-53, H-41, I-71, H-69

Table with 3 columns: Tuesday, Wednesday, Thursday. I-95, H-41, I-71, H-69

Welcome Reception

5:00 PM

7:30 PM Conference Dinner

Scientific committee meeting

Table with 2 columns: A, F, B, G, C, H, D, I, E, J

Table with 2 columns: A, F, B, G, C, H, D, I, E, J

Table with 2 columns: A, F, B, G, C, H, D, I, E, J

Table with 2 columns: A, F, B, G, C, H, D, I, E, J

Closing session

Advanced Materials, Earthquake Engineering, Architecture, Seismic Isolation, Civil Works Construction, Long Term Operation, Design and Standards, Transient dynamics, Dismantling, Modelling

2014, Jul, 24th

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2014, Jul, 24th

# Tuesday 2 September

8:30 AM	●●●●● Registration & Welcome Coffee ●●●●● Registration & Welcome Coffee ●●●●● Registration & Welcome Coffee ●●●●●		
9:00 AM	Opening conference		
9:30 AM	Keynote lecture #1		
	H. Abrishami - CANDU - A New Approach for Plant Life Management of Containment Structure		
10:20 AM	●●●●● Coffee break ●●●●● Coffee break ●●●●● Coffee break ●●●●●		
10:50 AM	<b>F - Earthquake Engineering</b>	<b>C - Civil Works Construction</b>	<b>A - Advanced Materials</b>
	F-25 - Seismic Response Analysis of a Nuclear Island Building Based on Actual Earthquake Recordings - Rong Pan*, NSC of NNSA china; xiuyun zhu, NSC of NNSA china; chunlin hou, NSC of NNSA china	C-48 - An overview of the first Argentinean NPP containment design - Juan Cattaneo*, CNEA; Ignacio de Arenaza, Comisión Nacional de Energía Atómica (CNEA)	A-27 - Passivation coating treatment for metallic aluminium in high pH media - Laura Ionascu*, IFIN-HH; Mihaela Nicu, IFIN-HH; Corneliu Turcanu, IFIN-HH; Felicia Dragolici, Horia Hulubei National Institute of Physics and Nuclear Engineering - IFIN HH; Gheorghe Rotarescu, IFIN-HH
	F-51 - Influence of foundation flexibility on Soil-Structure Interaction: design of the base common raft of a nuclear power plant - Cristina Galindo Gimeno*, EGIS Industries; Elias Bou Said, EGIS Industries; Silvano ERLUCHER, EGIS Industries; Emmanuel Viallet, EDF Septen; Nicolas Greffet, EDF R&D	C-23 - CAREM25 Reactor with Containment and Liner Structures - Andreas Garg*, HOCHTIEF Engineering GmbH; Ignacio de Arenaza, Comisión Nacional de Energía Atómica (CNEA)	A-68 - How Nano-Scale Characterization Can be the Next Big Challenge to Help Long Term Operation of Concrete in Nuclear Generating Stations - Gaurav Sant*, UCLA; Aditya Kumar, UCLA; Kevin Field, Oak Ridge national Laboratory; Yann Le Pape, ORNL
	F-65 - Improvement of the modeling of Seismic Soil-Structure Interaction for embedded buildings considering non-linear soil behavior - Matthieu ROBY*, Tractebel Engineering (France); Didrik VANDEPUTTE, EDF/DIN/CEIDRE/TEGG; Thomas FOURDINIER, Ecole Polytechnique	C-32 - Experimental analysis of prestressed concrete beams using Greased and Sheathed Strands - Alexandre Michou*, LMT Cachan; Farid Benboudjema, LMT Cachan; Yves Berthaud, Institut Jean le Rond d'Alembert; Georges Nahas, LMT Cachan / IRSN; Pierre WYNIÉCKI, NUVIA-TS; Victor Petit, Nuvia Travaux Spéciaux; Julien Dubreuil, Nuvia Travaux Spéciaux	A-89 - Damage-Tolerant Cementitious Materials for Extended Spent Nuclear Fuel Storage - Mo Li*, University of Houston
	F-18 - Quantification of Conservatism of the Response Spectrum Method in Comparison to Time History Methods for Selected Components - Viktor Vlaski*, Areva GmbH	C-76 - Ultrasonic examination of welded joints of containment and pool liners - Cecile Labrune*, Cegelec CEM; Jacques Bardet, ; Jimmy Ponton, ; Julien Cadith, ; Cedric Isard,	A-84 - Innovative tests for characterizing mixed-mode concrete fracture - Andreea Carpiuc*, EDF R&D; Martin Poncelet, ; Kyrylo Kazymyrenko, EDF R&D; Francois Hild, ; Hugo Leclerc,
12:10 PM	●●●●● Lunch ●●●●● Lunch ●●●●● Lunch ●●●●●		
1:30 PM	<b>F - Earthquake Engineering</b>	<b>D - Design and Standards</b>	<b>J - Modelling</b>
	F-34 - Development of In-structural Response Spectra for Nuclear Structures with and without Seismic Protection Systems - Peter Nawrotzki, GERB Schwingungsisolierungen GmbH & Co.KG; Daniel Siepe*, GERB Engineering GmbH	D-52 - A steel design for the ultimate back-up generator building - Evan Monroig*, Ingérop Conseil & Ingénierie; Bruno Aprile, Ingérop Conseil & Ingénierie; Patrice Auffret, Ingérop Conseil & Ingénierie; Laurence Davaine, Ingérop Conseil & Ingénierie; Dimitri Vrignaud, EDF CIPN; Didier Rebuffat, d2m	J-67 - Design of reinforced concrete slabs using sub-modelling FE tool - Julien CODRON*, Tractebel Engineering (France); Estelle SECOURGEON, Tractebel Engineering (France) ; Maxime QUESADA, IRSN
	F-83 - Response spectrum calculation of an accelerogram by the digital filtering theory - Pierre WYNIÉCKI*, NUVIA-TS; Alfred Krief, Seismic consultant	D-42 - RCC-CW a new Civil Engineering code draft which takes into account Fukushima Feedback - Etienne GALLITRE*, EDF; Jean-Michel Thiry, AREVA; Ludovic Caba, EDF; Pierre-Alain NAZE, GDS; Jacques CHATAIGNER, GDF-Suez; Silvano ERLUCHER, EGIS Industries	J-72 - Comparative study of shell element and brick element models for NPP structures - Guillaume HERVE*, EDF; Estelle SECOURGEON, Tractebel Engineering (France) ; Loïc Cloître, Tractebel Engineering (France)/Coyne et Bellier; Daniela Masini, Egis; Giulia Mennela, Egis; Camille Careme, SETEC-TP1
	F-43 - ACP1000 Outer Containment Upper Water Tank Fluid-structure Interaction Analysis - Di Yao*, China Nuclear Power Engineering; Li Jian Cai, China Nuclear Power Engineering Co.,Ltd; Li li Wang, China Nuclear Power Engineering Co.,Ltd	D-45 - The Need for Resilience Principles, Codes & Standards - Ian Watson*, Arup; Paul SMITH, ARUP; Chris Platt, Arup	J-74 - Parametric study of shell models for NPP structures - Guillaume HERVE*, EDF; Loïc Cloître, Tractebel Engineering (France)/Coyne et Bellier; Saad El-Kadiri, Tractebel Engineering; Estelle SECOURGEON, Tractebel Engineering (France) ; Daniela Masini, Egis; Giulia Mennela, Egis; Camille Careme, SETEC-TP1
		D-46 - Using PSA/PRA for the Future - Helen Hindmarch*, Arup; Paul SMITH, ARUP	J-82 - Transformation of the rotational differential equation of building's floors to translational equation in the case of a torsion behavior - Pierre WYNIÉCKI*, NUVIA-TS; Alfred Krief, Seismic consultant
2:50 PM	●●●●● Coffee break ●●●●● Coffee break ●●●●● Coffee break ●●●●●		
3:20 PM	<b>I - Transient dynamics</b>	<b>D - Design and Standards</b>	<b>H - Long Term Operation</b>
	I-10 - Preliminary design and optimization of an Energy Dissipation Device for high energy dropped loads - Emilie LEROUX-DEPALLE*, Tractebel Engineering (France); Loïc Cloître, Tractebel Engineering (France)/Coyne et Bellier; Jacques CHATAIGNER, GDF-Suez; Stéphane VALLAT, EDF	D-11 - Testing of Spent Fuel Bay Concrete for Long Duration Temperature Effects - Homayoun ABRISHAMI*, Candu; Azhar Khan, Candu Energy Inc.; William Cook, McGill University; Denis Mitchell, McGill University	H-44 - Comparison of Non-Destructive Evaluation Techniques for Nuclear Power Plant Concrete Structures - Dwight Clayton*, Oak Ridge National Laboratory
	I-53 - Tool guide for the analysis of the missile effects under seismic load - David WILLIAMS*, AREVA NP; Vincent MOLLARD, AREVA NP	D-81 - Three-Dimensional Finite Element Analysis of a Post-Tensioned Concrete Containment with UngROUTED Tendons to Inform a Probabilistic Risk Assessment - Jose Pires*, US-NRC; Hernando Candra, US Nuclear Regulatory Commission	H-41 - Enhancement of the assessment of the concrete creep and shrinkage strains - Francis BARRE, GDS; Danièle Chauvel, EDF; Jean-François Coste, ; Romain Ragouin*, Tractebel Engineering France; Claude Rospars, ; Jean-Michel TORRENTI, IFSTTAR
	I-71 - Frequency analysis of reinforced concrete structures subjected to accidental impacts - Christophe Rouzaud*, AREVA/LMT Cachan/IRC-ESTP ; Fabrice Gatuingt, LMT Cachan; Guillaume Hervé, IRC-ESTP Paris; Nadim Moussalam, AREVA; Olivier Dorival, ISAE	D-94 - Study of the Reinforced Concrete Works Containment - IRSN : G. Nahas, B. Cirée, M. Quesada, T. Gelain GeM : A. Loukili, S. Gildas Medjigbodo, M. Choinka, A. Khelidj, J.-P. Regoin LMT - ENS Cachan : F. Benboudjema, A. Darquennes, A. Hilaire, R. Bennacer SIAME - UPPA : C. La Borderie, C. Lawrence NTS : J. Dubreuil, M-C. Barbaroux	H-69 - Towards a new Eurocode 2: consequences for the prediction of the very long term deformation of containment vessels - Jean-Michel TORRENTI*, IFSTTAR
	I-95 - Improvement of the high frequency content evaluation in the calculation of impact floor response spectra - Guillaume HERVE, EDF		
5:00 PM	Welcome Reception		

# Wednesday 3 September

8:30 AM	●● Registration & Welcome Coffee ●●●● Registration & Welcome Coffee ●●●● Registration & Welcome Coffee ●●		
9:30 AM	<b>Keynote lecture #2</b> <i>Y. Le Pape - ORNL - Perspectives on The Role of Concrete Infrastructures on The License Renewal and Long Term Operation of U.S. Nuclear Power Generation</i>		
10:20 AM	●●●●● Coffee break ●●●●●●●●●● Coffee break ●●●●●●●●●● Coffee break ●●●●●		
10:50 AM	<b>F - Earthquake Engineering</b>	<b>C - Civil Works Construction</b>	<b>H - Long Term Operation</b>
	<p><b>F-54 - Seismic margin evaluation of an existing reinforced concrete nuclear building, Part I: HCLPF capacity assessment by two variants of the EPRI methodology</b> - Silvano ERLICHER*, EGIS Industries; Elias Bou Said, EGIS Industries; Nikolay Anishchenko, EGIS Industries; Yves Crolet, EDF Septen</p> <p><b>F-55 - Seismic margin evaluation of an existing reinforced concrete nuclear building, Part II: non-linear pushover and transient analyses</b> - Silvano ERLICHER*, EGIS Industries; Elias Bou Said, EGIS Industries; Mohamed Rachidi, EGIS Industries; Yves Crolet, EDF Septen</p> <p><b>F-56 - Engineering method for the evaluation a seismically induced cracking on reinforced concrete nuclear buildings</b> - Silvano ERLICHER*, EGIS Industries; Elias Bou Said, EGIS Industries; Mohamed Rachidi, EGIS Industries; Miquel Huguet, EGIS Industries; Gianluca Ruocci, EGIS Industries; Philippe BISCH, EGIS Industries; Yves Crolet, EDF Septen</p> <p><b>F-79 - A Simplified Model for Seismically Isolated Containment Buildings in Nuclear Power Plants</b> - KEE-JEUNG HONG*, KOOKMIN UNIVERSITY; mOHAMMAD MAHFUZUR RAHMAN, KOOKMIN UNIVERSITY</p>	<p><b>C-40 - Optical Sensors in Concrete of the EPR Flamanville 3 Confinement Building</b> - François MARTINOT*, EDF DTG; Gautier MOREAU, EDF R&amp;D; MARTIN Gregoire, CNEN; Jean-Marie HENAULT, EDF R&amp;D; Christophe THUVAULT, EDF CNEN AFA; Yves-Laurent BECK, EDF DTG; Alexis COURTOIS, EDF</p> <p><b>C-73 - Numerical Study of Local Buckling for Steel-Concrete Composite Structures Under Thermal Loadings</b> - Alexis Sauvageon*, EDF SEPTEN</p> <p><b>C-39 - Comparison of the design of a building in Steel-Concrete and in Reinforced Concrete</b> - Jean-Luc TUSCHER*, EGIS Industries; Yuri SHAPAREVICH, egis INDUSTRIES</p> <p><b>C-87 Experience feedback of the design of a 3D reinforcement with CATIA/ARMA3D®</b> - Olivier BRAYER, VINCI Construction GP; Pierre WYNIĘCKY*, NUOVA-TS; Stéphane SALADIN, SAMT</p>	<p><b>H-20 - Risk-based Ageing Management Process and Technology SIMEOTM AMP dedicated to Maintenance Optimization of Nuclear Power Plant Structures</b> - Stéphanie DIAS*, OXAND FRANCE; Bruno CAPRA, Oxand France; Antoine GUERIN, Oxand France; Antoine Tixier, Oxand France</p> <p><b>H-21 - Elements for computing and forecasting the leakage rate of the inner containment of nuclear reactor buildings</b> - Mehdi Asali*, OXAND France; Bruno CAPRA, Oxand France; Jean-Baptiste Colliat, LML Université Lille 1; Jacky Mazars, OXAND France</p> <p><b>H-22 - Estimation of Air Leakage Rates from a Pressurized Containment Structure due to Damage Resulting from Alkali-Aggregate Reactions and Mechanical Loads</b> - Vladimir Gocevski*, Hydro-Québec; Patrick Salvadurai, McGill University; Stanislav Pietruszczak, McMaster University, Hamilton, ON, Canada</p> <p><b>H-33 - Could SHM techniques helps for accidental conditions management?</b> - Alexis COURTOIS*, EDF; Paul SMITH, ARUP; Eric Terrailon, EDF</p>
12:10 PM	●●●●● Lunch ●●●●●●●●●● Lunch ●●●●●●●●●● Lunch ●●●●●		
1:30 PM	<b>G - Seismic Isolation</b>	<b>C - Civil Works Construction</b>	<b>H - Long Term Operation</b>
	<p><b>G-85 - Margin assessment of seismically isolated nuclear structures with SMA Method</b> - Estelle SECOURGEON*, Tractebel Engineering (France); Jacques CHATAIGNER, GDF-Suez</p> <p><b>G-9 - Seismic Isolation of Nuclear Structures – Influence of the foundation flexibility hypothesis on the seismic response of equipments</b> - Frederic ALLAIN, EDF SEPTEN; Pascal PHAM*, EDF SEPTEN; Pierre LABBE, EDF</p> <p><b>G-8 - Base seismic-isolation solution for an emergency control center</b> - Zhongcheng LI*, China Nuclear Power Design Co.</p> <p><b>G-24 - Study on the Base-Isolation for Nuclear Power Buildings</b> - Jian Chen*, CNPE; Yumin Li, CNPE; Fei Lu, CNPE</p>	<p><b>C-86 - Bi-component resin RTV FA 878 / A product, use several</b> - AMIOT Jacques*, BOUYGUES CONSTRUCTION</p> <p><b>C-57 - Strengthening reinforced concrete shorts corbels by using Carbon Fibre Reinforced Polymer (CFRP)</b> - Ivelina Ivanova*, URCA</p>	<p><b>H-26 - Improvement of the operational infrastructure at the Romanian National Repository for LILW</b> - Elena Neacsu*, Horia Hulubei National Institut; Felicia Dragolici, Horia Hulubei National Institute of Physics and Nuclear Engineering - IFIN HH; Iosif Paunica, IFIN-HH Horia Hulubei National Institute of Physics and Nuclear Engineering - I; Dumitru Morar, IFIN-HH Horia Hulubei National Institute of Physics and Nuclear Engineering - I; Carmela Alexandru, IFIN-HH Horia Hulubei National Institute of Physics and Nuclear Engineering - I</p> <p><b>H-29 - Safety-classified steel cylinder reinforced concrete pipelines : mechanism of corrosion, diagnosis and maintenance strategy</b> - Julien AÏMONINO*, EDF; Stéphane JACQ, EDF</p> <p><b>H-36 - Influence of barite composition on potential alkali aggregate reaction in radiation-shielding concrete</b> - Daria Jóźwiak-Niedźwiedzka, IPPT PAN; Karolina Gibas*, IPPT PAN; Andrzej Brandt, IPPT PAN; Piotr Denis, IPPT PAN</p>
2:50 PM			

# Thursday 4 September

8:30 AM	●●●●● Registration & Welcome Coffee ●●●●● Registration & Welcome Coffee ●●●●● Registration & Welcome Coffee ●●		
9:30 AM	<b>Keynote lecture #3</b>  <i>E. Viallet - EDF - Some french experimental campaigns and associated innovation in nuclear civil engineering</i>		
10:20 AM	●●●●● Coffee break ●●●●● Coffee break ●●●●● Coffee break ●●●●●		
10:50 AM	<b>F - Earthquake Engineering</b>	<b>D - Design and Standards</b>	<b>B - Architecture</b>
	<b>F-28 - Seismic Analysis of a Reinforced Concrete Structure International Benchmark SMART 2013: numerical simulations by EDF</b> - Nicolas Bonfils*, EDF; Nathalie Souquet, EDF; Salim Abouri, EDF; François Voldoire, EDF	<b>D-6 - Liner Mockup Test Part 1: Test Setup and Results</b> - Burkhard Wienand*, AREVA GmbH; Adam FILA, AREVA	<b>B-61 - Innovative Thinking for Nuclear Site Designers</b> - Paul SMITH*, ARUP
	<b>F-30 - International benchmark SMART2013: from the experiment to the numerical modeling to assess the seismic behavior of nuclear reinforced concrete structures</b> - Maxime Fontan*, Oxand France; Benjamin RICHARD, CEA; Jacky Mazars, OXAND France; Bruno CAPRA, Oxand France	<b>D-92 - Liner Mockup Test Part 2: Measurement Devices and Results</b> - Müller, Michael	<b>B-58 - Design of an Emergency Response Centre for EDF Energy in response to the Lessons Learnt from the Japanese Earthquake and Tsunami in 2011</b> - Andrew Dickson*, Atkins
	<b>F-17 - Sensitivity of a nuclear reactor building with respect to the foundation stiffness under an embedded conditi</b> - Alberto Frau*, CEA; Benjamin RICHARD, CEA; Magdalini NTETSIKA, CEA	<b>D-19 - Liner Mockup Test Part 2: Development of Calculation Method for embedded Liner Structure</b> - Adam FILA*, AREVA; Gerd Kremer, AREVA GmbH; Burkhard Wienand, AREVA GmbH	<b>B-60 - The Growing Threat From Natural Coincidence</b> - Michael Dobson*, Arup; Helen Hindmarch, Arup
	<b>F-77 - Real-Time Hybrid Simulation Test to Assess Performance of Seismically Isolated Nuclear Power Facilities</b> - Sang-Hoon LEE*, KEPCO; Chul Soon Choi, KEPCO E&C; Stephen Mahin, Univ. of California, Berkeley	<b>D-63 - The Holistic Integrity Test (HIT) for Designers</b> - Paul SMITH*, ARUP	<b>B-80 - Design of a Deposit for Low Radioactive Materials in Leibstadt: Regulator perspective</b> - Tadeusz Szczesiak*, ENSI; Yves Mondet, Basler&Hofmann; Carlo Rabaioni, Basler&Hofmann
12:10 PM	●●●●● Lunch ●●●●● Lunch ●●●●● Lunch ●●●●●		
1:30 PM	<b>E - Dismantling</b>	<b>D - Design and Standards</b>	<b>H - Long Term Operation</b>
	<b>E-37 - Bugey 1 – Reactor vessel decommissioning</b> - Alfred THIBON*, EDF CIDEN; Martin RAY, EDF CIDEN	<b>D-35 - Static Soil-Structure Interaction Analysis: An Innovative Method</b> - Fahd CUIRA, TERRASOL; Jocelyn POULAIN*, SETEC TPI; Konstantinos LYDOS, SETEC TPI	<b>H-49 - Methodology for Assessing Long Term Performance of Aging Concrete Structures</b> - Randy James*, ANATECH; Joe Rashid, ANATECH
	<b>E-38 - Nuclear Dismantling of Brennilis' Effluent Treatment Building</b> - adrien Lasnier, ; Martin RAY*, EDF CIDEN	<b>D-66 - Settlement predictions for a new power station</b> - Nina Mattsson*, Geos Ingénieurs Conseils SA; Alain Menoret, Geos Ingénieurs Conseils SA; Sandrine Comba, EDF; Sebastien Philippe, EDF	<b>H-64 - Long term monitoring strategy of reinforced concrete structures: surveillance of near surface disposal facilities for radioactive waste</b> - Vincent Lamour*, Cementys; Vincent Lanticq, Cementys; Guillaume Hermand, ANDRA; Vincent Schneider, ANDRA
	<b>E-62 - Optimization of subsurface materials sampling operation for radiological activity mapping</b> - Rémi Dachicourt*, Altran Research; Patrice Guien, Altran Research; Christophe Levillain, christophe.levillain@altran.com; Frédéric Renard, Altran	<b>D-13 - More Realistic Axial and Flexural Capacities of RC Cracked Sections</b> - Homayoun ABRISHAMI*, Candu; Armin Ziari, Candu Energy Inc.; Azhar Khan, Candu Energy Inc.; Ming Han, Candu Energy Inc.; Reza Kianoush, Ryerson University	<b>H-93 - Effect of magnetic field of both excitation and measurement in vibrating wire sensors</b> - Holé, Stéphane
2:50 PM			