

17th Pacific Basin Nuclear Conference
 Technical Program

Monday

8:30 - 9:30

INAUGURATION

The Role of Nuclear Energy in Addressing Environmental Concern
 Chairs: Victor Alcerreca and Shane Johnson

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|---------------|---|---|
| 9:30 -10:00 | Benjamin Contreras
"Clean Energy in the Electricity System of Mexico" | Ministry of Energy, Mexico |
| 10:00 -10:30 | Joe Colvin
"Nuclear Progress Around the World: Seizing the Opportunity." | Nuclear Energy Institute/ American Nuclear Society, USA |
| 10:30 - 11:00 | Takuya Hattori
"Nuclear Energy for the Sustainable Future - Contribution of Japan" | Japan Industrial Forum |
| 11:00 - 11:30 | Ron Cameron
"Nuclear's Roadmap to 2050 – what needs to be done" | Nuclear Energy Agency-OECD |

11:30 - 11:45

Coffee Break

Regulation, Security, and Safety

Chair: Chang-Sun Kang and Doug Chambers

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| 11:45 - 12:15 | Juan Eibenschutz
"Nuclear Safety" | National Commission for Nuclear Safety and Safeguards, Mexico |
| 12:15 - 12:45 | Gerry Frappier
"Regulating Nuclear Safety and Security in Canada" | Canadian Nuclear Safety Commission |
| 12:45 - 13:15 | Ramatsemela Masango
"Nuclear Safety and Security Within the South African Nuclear Regulatory Framework" | Nuclear Energy Corporation of South Africa |
| 13:15 - 13:45 | Margaret Doane
"Common Commitments, National Approaches: Regulating in a Global Environment" | Nuclear Regulatory Commission, USA |

13:45 - 15:00

Lunch Break

3. Operation and Maintenance of Nuclear Power Plants

Chair: Javier Palacios and Margaret Doane

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| 15:00 - 15:20 | Nuclear Power Plant Steam Pipes repairing with Tirant 3
® Robot System. | M. Soto and M. Curiel, F. Lázaro, A. Arnaldos |
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15:20 - 15:40	Preventive Maintenance Instrumentation Results in Spanish Nuclear Power Plants	M. Curiel , A. Arnaldos, M.J. Palomo and G. Verdú
15:40 - 16:00	Results of Automatic System Implementation for the Friction Control Rods Execution in Cofrentes Nuclear Power Plant	M. Curiel, M.J. Palomo, M. Urrea and A. Arnaldo
16:00 -16:20	UPVapor: Cofrentes Nuclear Power Plant Production Results Analysis Software	M. Curiel, M.J. Palomo, A. Baraza and J. Vaquer
16:20 - 16:40	Coffee Break	
16:40 - 17:00	Results of Automatic System Implementation for Cofrentes Nuclear Power Plant LPRM Inspection Execution	M. Curiel, M.J. Palomo, M. Rodriguez and A. Arnaldos
17:00 - 17:20	SIPPING Machine Control System New Design to perform Integrity of Nuclear Fuel Test in Cofrentes Power Plant	M. Curiel, M.J. Palomo, M. Urrea and J. Vaquer
17:20 – 17:40	4+ Dimensional Technology for Nuclear Systems Engineering	Kune Y. Suh

4. Nuclear Fuel Cycle and Non-Proliferation
Chairs: Arturo Delfin and Kevan Weaver

15:00 - 15:20	Vacuum Distillation for the Separation of LiCl-KCl Eutectic Salt and Cadmium in Pyroprocess	S. W. Kwon, K. M. Park, S. J. Lee, S. B. Park, M. S. Woo, K. R. Kim, J. G. Kim, D. H. Ahn, and H. S. Lee
15:20 - 15:40	New Fuel Vault Criticality Analysis at Chinshan Nuclear Power Station with New Approaches to Improve the Storage Flexibility	Ping-Hue Huang
15:40 - 16:00	Design and Fabrication of a Remote Fuel Bundle Welding System	Soo-sung Kim, Geun-il Park, and Jung-won Lee
16:00 - 16:20	Radiation Damage Response of Ceramics in Extreme Environments	Gregory R. Lumpkin, Katherine L. Smith, Karl R. Whittle, Bronwyn Thomas and Nigel A. Marks
16:20 - 16:40	Coffee Break	

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16:40 - 17:00	Sorption of Technetium on Mineral and Backfill Materials	Verónica E. Badillo Almaraz, Jesús M. Soriano Rodríguez, Javier C. Palacios H.
17:00 - 17:20	Integration of DYN3D inside the NURESIM Platform	Armando M. Gomez Torres, Victor H. Sanchez Espinoza, Sören Kliem, Andre Gommlich and Ulrich Rohde
17:20 – 17:40	Enhances CANDU 6: An Advanced NU Burner with Fuel Cycle Capability	Jerry Hopwood, Mike Soulard and Ian J. Hastings

6. Non Power Applications and Research Reactors
Chairs: Fernando Mireles and Gustavo Alonso

15:00 - 15:20	The Isotope Crisis – a Canadian viewpoint	Fred Boyd
15:20 - 15:40	Analysis of sea sediments from the Gulf of Tehuantepec	E. Ordóñez Regil and G. García Rosales
15:40 - 16:00	Radiological Equipment Analyzed by Specific Developed Phantoms and Software	M. Soto, J.M. Campayo, P. Mayo, G. Verdú and F. Rodenas
16:00 - 16:20	Web Server for the Administrative and Technical Documentation of the Radiodiagnostic facilities	M. Soto and J.M. Campayo, V. Guardia, P. Mayo
16:20 - 16:40		Coffee Break
16:40 - 17:00	Surface Complexation Modeling of Uranium(VI) retained onto Zirconium Diphosphate in presence of Organic Acids	Almazán-Torres M.G, García-González N. and Ordóñez-Regil E.
17:00 - 17:20	Implementation of a risk assessment tool based on a Probabilistic Safety Assessment developed for radiotherapy practices	Angel Paz, Verónica Godínez, Ramón López
17:20 – 17:40	Uranium (VI) Sorption onto Zirconium Diphosphate Chemically Modified	N. García González and E. Ordóñez Regil

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Tuesday

Drivers of Nuclear Energy I
 Chairs: Gail Marcus and Adriaan Buijs

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| 8:30 - 9:00 | Tatsujiro Suzuki | Japan Atomic Nuclear Commission, Japan |
| | "Nuclear Energy Strategy for Sustainable Growth: Aiming at Green Innovation and Life Innovation." | |
| 9:00 - 9:30 | Pablo Mulas | World Energy Council |
| | "Nucleoelectricity in the Energy Revolution in México" | |
| 9:30 -10:00 | Wenquan Hu | China Guandong Nuclear Power Holding |
| | "Promote Nuclear Power Safely and Actively-China's Commitment on Carbon Emission Reduction" | |
| 10:00 -10:30 | R. Shane Johnson | Department of Energy, USA |
| | "Nuclear Power Developments: Some Potential Game Changers" | |

10:30 - 10:45 **Coffee Break**

New Reactor Construction I
 Chairs: Everardo Ortega and Kenneth Smith

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| 10:45 - 11:15 | Ed Cummins | Westinghouse |
| | "AP1000/New Build" | |
| 11:15 - 11:45 | Kiyoshi Yamauchi | Mitsubishi |
| | "Global Delivering of Nuclear Technologies" | |
| 11:45 - 12:15 | David Durham | General Electric – Hitachi |
| | "New Nuclear Construction" | |
| 12:15 - 12:45 | Alexei Antonovich Gregoriev | TENEX |
| | "World nuclear fuel market: latest trends and the role of Russia" | |

12:45 - 14:00 **Lunch Break**

3. Operation and Maintenance of Nuclear Power Plants
 Chairs: Cecilia Martin del Campo and Sergio Waller

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|---------------|---|--|
| 14:00 - 14:20 | Modeling Level Instrumentation Response to Variations on Drywell Ambient Conditions for a BWR | Miguel Ceceñas F.; Rosember Ovando C.; Moisés A. Cruz G.; Andrés Vargas A. and Jorge Cárdenas J. |
| 14:20 - 14:40 | Safety Critical FPGA-based NPP I&C Systems: Assessment, Development and Implementation | Bakhmach E.S., Siora A.A., Tokarev V.I., Kharchenko V.S., Sklyar V.V. and Andrashov A.A. |

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14:40 - 15:00	Experiences of Power-uprating in Taiwan	Chia-Chun Liao, Shen-Yu Lai and Yi-Bin Chen
15:00 - 15:20	Deposition and Characterization of Noble Metal Onto Surfaces of 304L Stainless Steel	Contreras-Ramírez Aída, Arganis Juárez Carlos R., Aguilar Torres J. Andrés and Medina Almazán A. Liliana
15:20 - 15:40	Coffee Break	
15:40 - 16:00	Effects Evaluation of Artificial Aging by Temperature and Gamma Radiation on Cables for Laguna Verde Nuclear Power Plant (LVNPP)	Raúl M. Vázquez Cervantes, Juan Bonifacio Martínez, Edwina E. García Hernández, Julio A. Loperena Zuñiga and Carlos García Martínez
16:00 - 16:20	Laguna Verde BWRs Operational Experience: Steady-State Fuel Performance	G. F. Cuevas Vivas, J. M. Bravo Sanchez and Jose L. Casillas
16:20 - 16:40	Engineering Design Feasibility of Low Boron Concentration Core in PWR	Aung Tharn Daing, Myung-Hyun Kim, Iltak Woo and Sang-Rin Shon
16:40 - 17:00	RESULTS of the Laguna Verde Nuclear Power Plant obtained the 2007 Award to Quality and 2009 the maximum award "Golden Award" from the Ibero-American.	Alfredo Rivera Carrasco and Gerardo Carballo Chávez
17:00 - 17:20	Life Extension And Life Cycle Management	Hoa Hoang
<p style="text-align: center;">4. Nuclear Fuel Cycle and Non-Proliferation Chair: Guillermo Fernandez and Carlos Villanueva</p>		
14:00 - 14:20	Adsorption Properties of Technetium and Rhenium for Hybrid Microcapsules Enclosing TOA Extractant	Yan Wu, Hitoshi Mimura, Yuichi Niibori, Shinichi Koyama, Takashi Ohnishi
14:20 - 14:40	Fuel Lattice Design Using Heuristics and New Strategies	Juan José Ortiz Servin, José Alejandro Castillo Méndez, Martín Torres Valderrama, Raúl Perusquía del Cueto and David Alejandro Pelta and Yerania Campos Silvestre
14:40 - 15:00	U.S. Department of Energy's Initiatives for Proliferation Prevention in Russia: Results of Radioactive Liquid Waste Treatment Project, Year 2	Yury Pokhitonov, Vladislav Kamachev and Dennis Kelley
15:00 - 15:20	Plutonium Fuel Lattice Neutron Behavior in Inert Matrix	Hector Hernandez Lopez and Marco A. Lucatero
15:20 - 15:40	Coffee Break	

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5. Radiological Protection and Dosimetry

Chair: Lydia Paredes

15:40 - 16:00	Development on Semiconductor Environmental Radiation Monitor (SERM)	Shigeyuki Wada, Norihide Arisaka, Misao Ikuta and Atsunori Tanaka
16:00 - 16:20	Quantification of the Adrenal Cortex Hormones with Radioimmunoassay	Valentín Badillo Almaraz, Ana Alejandra Carrera Delgado, Claudia M. Ibarra M.
16:20 - 16:40	On-line Training in Radiological Protection by means of the Designing and Adaptation of a Technological Platform	M. Soto and J.M. Campayo, P. Mayo, G. Verdú
16:40 - 17:00	Shielding Features of Quarry Stone	C Hernandez-Villasana, H Contreras-Sandoval, L Hernandez-Adame, A Baltazar-Raigosa, E Escareño-Juarez, CA Mares-Esparza and HR Vega-Carrillo
17:00 - 17:20	Design of a Treatment Room for an 18 MV LINAC	Luis Hernandez-Adame, Hector Contreras-Sandoval, Hector Rene Vega-Carrillo and Leonel Humberto Perez Landeros

6. Non Power Applications and Research Reactors

Chairs: Alejandro Cortés and Kath Smith

14:00 - 14:20	Effect of Gamma-Radiation on Sodium Zirconium Phosphate	Contreras-Ramírez Aída, Fernández Valverde Suilma M., Ordoñez-Regil E. and Carrasco Ábrego Héctor
14:20 - 14:40	Major, Trace and Rare Earth Elements in Sediments of the Julian Adame-Alatorre Dam by Instrumental Neutron Activation Analysis	F. Mireles, J.L. Pinedo, J.I. Davila, J.E. Oliva, R. J. Speakman, M. D. Glascock
14:40 - 15:00	40K Determination to Estimate the Concentration of Total Potassium	E Escareño-Juarez, C A Mares-Esparza, C Hernandez-Villasana, H Contreras-Sandoval, L Hernandez-Adame, A Baltazar-Raigoza and H R Vega-Carrillo
15:00 - 15:20	Testing Special Relativity Theory using Compton Scattering	H Contreras-Sandoval, L. Hernandez-Adame, A. Baltazar-Raigoza, E Escareño-Juarez, C A Mares-Esparza, C Hernandez-Villasana and H R Vega-Carrillo
15:20 - 15:40	Coffee Break	
15:40 - 16:00	Absorbed Dose at Subcellular Level by Monte Carlo Simulation for a ^{99m} Tc-Peptide with Nuclear Internalization	Eva Leticia Rojas Calderón, Guillermina Ferro Flores and Clara Leticia Santos Cuevas

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16:00 - 16:20	Rhenium and technetium complexes with phenylbis(2-pyridyl)phosphine and tris(2-pyridyl)phosphine	Sonia A. Saucedo Anaya, Adelheid Hagenbach and Ulrich Abram
16:20 - 16:40	An Optimum Analysis Sequence for Environmental Gamma-ray Spectrometry	Fernando de la Torre A., Carlos Ríos M., Ma. Guadalupe Ruvalcaba A., Fernando Mireles G., Sonia Saucedo A., Ignacio Dávila R., and José L. Pinedo
16:40 - 17:00	Freeze-dried bone allografts sterilized with gamma radiation and the clinical use in harelip	Daniel Luna-Zargoza, Ma. Lourdes Reyes-Frias, Inez Díaz-Muñoz, Laura Cristina Cruz-Alvarez and Miguel Angel Vazquez-Rodríguez
17:00 - 17:20	Contribution to the radiobiology in the laboratory of Plant Biology of the ININ	Josefina Gonzalez Jiménez and Víctor M. Salceda S.

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Wednesday

The Challenges of Nuclear Energy
 Chair: Jorge Spitalnik and Hideaki Yokomizo

8:30 - 9:00	Raul Ortiz	National Institute for Nuclear Research, Mexico
	"Nuclear Energy in Mexico: Opportunities and Challenges"	
9:00 - 9:30	Adi Paterson	Australian Nuclear Science and Technology Organization
	"Growing the Contribution of Nuclear Science and Technology Organisations"	
9:30 -10:00	Daniel Meneley	University of Ontario, Canada
	"Nuclear Energy Challenges in this Century"	
10:00 -10:30	Jun-Hwa Hong	Korea Atomic Energy Research Institute
	"Development of Innovative Nuclear Systems in Korea"	

10:30 - 10:45 **Coffee Break**

Drivers of Nuclear Energy II
 Chair: Sun-Koo Kang and Kath Smith

10:45 - 11:15	Chin Pan	National Tsing Hua University, Taiwan
	"Retrospect and Prospect of Nuclear Power Development in Taiwan"	
11:15 - 11:45	Hideaki Yokomizo	Japan Atomic Energy Agency
	"Activities and Role of JAEA in Japan"	
11:45 - 12:15	Rafael Fernandez	Federal Electricity Commission, Mexico
	"Nuclear Electricity: An Opportunity for Mexico"	
12:15 - 12:45	Jong-Shin Kim	Korea Hydro and Nuclear Company

12:45 - 14:00 **Lunch Break**

4. Nuclear Fuel Cycle and No-Proliferation
 Chairs. Richard Sanchez and Julian Sanchez

14:00 - 14:20	An analysis of the SN-PN equivalence	Richard Sanchez
14:20 - 14:40	A Highly Accurate Benchmark for Reactor Point Kinetics with Feedback	Barry D. Ganapol and Paolo Picca

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14:40 - 15:00	Coarse Mesh Transport Method for Whole-Core Neutronics Analysis in Cylindrical Geometry	Dingkang Zhang and Farzad Rahnema
15:00 - 15:20	Coffee Break	
15:20 - 15:40	Hybrid Particle Transport Methodologies	Alireza Haghghat
15:40 - 16:00	High order diamond differencing along characteristics	Alain Hébert
16:00 - 16:20	Evaluation of dp/dt measurements on a VVER-440 Unit	Mihály Makai and Gábor Pór
16:20 - 16:40	Fourier Analysis of a New P1 Synthetic Acceleration for Sn Transport Equations	Bruno Turcksin and Jean Ragusa
16:40 - 17:00	Arbitrary Quadratures: Its Application in the Solution of One-dimensional Neutron Transport Problems	Julián Sánchez Gutiérrez
17:00 - 17:20	Neutronic Design of a Traveling Wave Reactor Core	Roberto Carlos Lopez Solis and Juan Luis François Lacouture

7. Energy Planning and Nuclear Technology Development
Chairs: Juan Ramon Mota and Jun-Hwa Hong

14:00 - 14:20	Novel Thinking Approach in a Multinational Nuclear Partnership: towards the strengthening of the nuclear industry back end	Andrejs Dreimanis
14:20 - 14:40	A Feasibility Study on Nuclear Power Options in Mongolia	A. Minato and H. Sekimoto, Ts. Amartaivan
14:40 - 15:00	Financing a nuclear program	Ron F. Cameron
15:00 - 15:20	Coffee Break	
15:20 - 15:40	The projected costs of electricity generation	Ron F. Cameron and Jan Horst Keppler
15:40 - 16:00	Long Term Electricity Expansion Analysis to Define Energy Policies for Mexico	Cecilia Martín del Campo, Rodrigo Guadarrama, Octavio Sánchez, Juan Luis François, Guillermo Estrada, Josu Izarra, Ander Pérez
16:00 - 16:20	Preliminary evaluation of the profitability indexes of the Laguna Verde nuclear power plant	Carlos Villanueva-Moreno
16:20 - 16:40	Status of Nuclear Power Programs in South America	Jorge Spitalnik
16:40 - 17:00	Nuclear Energy an Opportunity for Mexico	Héctor J. Cruz, Rafael Fernández de la Garza, Jorge B. Cárdenas, Miguel A Castañeda and Juan J. Mercado

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17:00 - 17:20	Flow Control System with Electronic Variable Speed Adjustment in the recirculation pumps for a BWR-5 as Laguna Verde.	Francisco Tijerina Salazar, Andres Vargas Arellano and Jorge Cardenas Jauregui
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6. Non Power Applications and Research Reactors

Chair: Ramon Lopez

14:00 - 14:20	Gamma Radiation Sterilized Amnion: Use in Ophthalmology	María Esther Martínez Pardo, Yunuén León Téllez, Leticia Vázquez Maya
14:20 - 14:40	Use of Environmental Radioactive Isotopes in Geothermal Prospecting	Balcázar M, López Martínez A, Huerta M, Flores Ruíz J H and Peña P.
14:40 - 15:00	The Role of the IAEA in International Guidance and Assistance on Decommissioning of Small Nuclear Facilities	Michele Laraia

15:00 - 15:20	Coffee Break	
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1. Licensing of Nuclear Power Plants and Facilities

Chair: Fred Boyd

15:20 - 15:40	The Final Status of the Decommissioning of Research Reactors in Korea	Ki-Won Lee, Sang-Bum Hong, Jin-Ho Park, Un-Soo Chung
15:40 - 16:00	Tritium –Health Risks, Regulatory Issues and the Nuclear Future	Douglas B. Chambers and Amy Garva
16:00 - 16:20	Design Concepts for a Nuclear Digital Instrumentation and Control System Platform	Ting-Chia Ou, Chang-Kuo Chen, Po-Ju Chen, Shian-Shing Shyu, Chung-Lin Lee, Ming-Huei Chen and Si-Fu Hsieh
16:20 - 16.40	MEX04/058 Supporting the License Renewal of the LVNPP	Angeles Diaz; Carlos Arganis; Jorge Viais; Gonzalo Mendoza; Marco A. Lucatero; Aida Contreras
16:40 - 17:00	Laguna Verde Annulus Pressurization Loads Evaluation	Miguel A. Castañeda, Moisés A. Cruz, Jorge B. Cárdenas, Andrés Vargas, Héctor J. Cruz and Juan J. Mercado
17:00 - 17:20	Minimizing the Power Peaking Factor of Fuel Lattices Using Factors of Group for Boiling Water Reactors	J. R. Guzmán, Carlos Arredondo, Luis Carlos Longoria and Eduardo de-la-Cruz

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Thursday

Radioactive Waste and Nuclear Technology Chair: Jose Luis Delgado and Goon Cherl Park		
8:30 - 9:00	Luz Aurora Ortiz	Ministry of Energy, Mexico
9:00 - 9:30	Andrew Orrel	Sandia National Laboratory, USA
	"Geologic Repository Programs of North America: Crisis or Opportunity?"	
9:30 -10:00	Ching-Tsuen Huang	Institute of Nuclear Energy Research, Taiwan
	"The Current Status and Challenges of Radioactive Waste Management in Taiwan"	
10:00 -10:30	Kune Y. Suh	Seoul National University
	"Avant-garde Nuclear Power Engineering Super Simulation"	
10:30 - 10:45	Coffee Break	
New Reactor Construction II Chair: Jorge Cardenas and Chang-Sun Kang		
10:45 - 11:15	Tony de Vuono	Atomic Energy Canada Limited
	"The CANDU Reactor: An Optimal Platform for New Fuels"	
11:15 - 11:45	Sung-Koo Kang	KEPCO Engineering and Construction
	"Construction Enhancement of Nuclear Power Plants with Design Improvement"	
11:45 - 12:15	Nils Breckendridge	Westinghouse Electrical Company
	"Small Modular Reactors"	
12:15 - 12:45	Akio Shioiri	Toshiba America Nuclear Energy
	"The Toshiba ABWR - Reducing New Build Project Uncertainties"	
12:45 - 14:00	Lunch Break	
2. Safety of Nuclear Plants Chairs: Pamela Nelson and Miguel Ceceñas		
14:00 - 14:20	SUBCHANFLOW: A Thermal-Hydraulic Sub-Channel Program to Analyse Fuel Rod Bundles and Reactor Cores	U. Imke, V. Sánchez and R. Gomez

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14:20 - 14:40	The Daily Load Follow Capability of SMART Reactor Core without the Soluble Boron Change in the Primary Coolant	J. S. Song, K. K. Kim and H. R. Kim
14:40 - 15:00	Software Safety Analysis Practice in Installation Phase	Hui-Wen Huang, Ming-Huei Chen and Jiin-Ming Lin
15:00 - 15:20	Optimization of Enthalpy Transport Coefficient for a Simplified PWR Core Thermal-Hydraulic Calculation	Wang-Kee In, Chang-Hwan Shin and Tae-Hyun Chun
15:20 - 15:40	Coffee Break	
15:40 - 16:00	Areva LOCA and Non-LOCA Realistic Methodology Development Strategy based on CATHARE	J.-Y. SAUVAGE, S. BALLEYDIER and M.-C. GROUHEL
16:00 - 16:20	Study of Non-condensable Gases Effect on VVER Steam Generator Operation in Condensation Mode at Large-scale Facility	A.V. Morozov, O.V. Remizov, A.A. Tzyganok, D.S. Kalyakin
16:20 - 16:40	Estimation of the Coolant Flow Through a Natural Circulation BWR Fuel Channel Applying an Equivalent Electrical	Julio Valle-Hernández, Jaime B. Morales-Sandoval and Gilberto Espinosa-Paredes
16:40 - 17:00	Whole Core Pin-by-Pin Coupled Neutronic-Thermal-hydraulic Steady state and Transient Calculations using COBAYA3 code	J. Jiménez, J.J. Herrero, D. Cuervo and J.M. Aragonés
17:00 - 17:20	Neutron Irradiation Damage Analysis of the Vessel Steel using Microscopy and Spectroscopy Techniques	Mario Moranchel y Rodríguez, Arturo García Borquez and Luis Carlos Longoria Gándara
4. Nuclear Fuel Cycle and Non-Proliferation Chairs: Juan Luis Francois and Kune-Yull Suh		
14:00 - 14:20	A Study on Development of PyRoprocess Integrated Inactive Demonstration Facility	Ilje Cho, Eunpyo Lee, Wonmyung Choung, Gilsung You and Hodong Kim
14:20 - 14:40	Pre-Selecting Potential Sites for a Low and Intermediate Level Waste Repository in Mexico	Verónica E. Badillo Almaraz, Ramón Ramírez Sánchez, Gustavo Alonso, Javier C. Palacios H.
14:40 - 15:00	Effect of Fraction of Voids in the Nuclear Fuel Burned for a 10 X 10 Assembly of a BWR	Pastor Enríquez, Jorge Viais and Gustavo Alonso

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15:00 - 15:20	Australian Uranium Resources and Production in a World Context	Clarence J. Hardy
15:20 - 15:40	Coffee Break	
15:40 - 16:00	Alternatives for Nuclear Spent Fuel Disposal	J. Ramón Ramírez S., Verónica Badillo A., Javier Palacios H. and Lina Celis del Angel
16:00 - 16:20	Property Evolution of Cerium Oxide during Sintering	J. B. Henderson
16:20 - 16:40	Study on the components reliability data for PSA at Rokkasho Reprocessing Plant	Yoshikazu Tamauchi, Yoshiaki Hayashi
16:40 - 17:00	Remote Handling Systems for the PRIDE Application	Kiho Kim, Jongkwang Lee, Hyojik Lee, Sunghyun Kim and Hodong Kim
17:00 - 17:20	Open Source Information Acquisition, Analysis, and Integration in the IAEA Department of Safeguards	Michael Barletta, Nicholas Zarimpas and Ryszard Zarucki
9. Advanced Systems Chairs: Javier Ortiz and Igor Pioro		
14:00 - 14:20	Efficiency Improvement of the Sulfur-Iodine Hydrogen Production Process	Alexander Mendoza Acosta, Juan Luis François Lacouture and Pamela F. Nelson
14:20 - 14:40	Integral Test Facilities for Validation of the Performance of Passive Safety Systems and Natural Circulation	Jong Ho CHOI
14:40 - 15:00	Test Plan using the HTTR for Commercialization of GTHTTR300C	Kuniyoshi Takamatsu, Shigeaki Nakagawa and Yoshiyuki Inagaki
15:00 - 15:20	Dual Pressurized Light Water Reactor Producing 2000 MWe	Kyoung M. Kang, Kune Y. Suh
15:20 - 15:40	Coffee Break	
15:40 - 16:00	Supercritical Water-Cooled Nuclear Reactors: NPP Layouts and Thermal Design Options of Pressure Channels	I. Pioro, S. Mokry, W. Peiman, L. Grande and Eu. Saltanov
16:00 - 16:20	ACR-1000: A Gen III+ Design with Enhanced Operability and Maintainability	Stephen Yu, Jerry Hopwood and Ian J. Hastings

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16:20 - 16.40	Preliminary core design of a Gas-cooled Fast Reactor using MCNPX and TRIPOLI-4 codes	Ricardo Reyes Ramírez, Cecilia Martín Del Campo Márquez and Juan Luis François Lacouture
16:40 - 17:00	Development of System Analysis Code for Thermal-Hydraulic Simulation of Integral Reactor, REX-10	Yeon-Gun Lee, Jong-Won Kim, Su-Jong Yoon and Goon-Cherl Park
17:00 - 17:20	Sol-Gel Composite Coatings as Anti-Corrosion Barrier for Structural Materials of Lead-Bismuth Eutectic Cooled Fast Reactor	Ryuta KASADA and Peng DOU

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Friday

Communications Round Table and New Reactor Construction III

Chair: Mimi Limbach

8:30 - 10:10	Mimi Holland Limbach	Potomac Communications Group, Inc, USA
	Cintia Angulo	World Energy Council
	Fahad Al Qahtani	Emirates Nuclear Energy Corporation
	Scott Peterson	Nuclear Energy Institute
10:10 – 10:30	Joseph Vasile	Alstom
	"The Revival of North America's Nuclear Manufacturing Capabilities"	

10:30 - 10:45

Coffee Break

5. Radiological Protection and Dosimetry

Chair: Alejandro Cortés

10:45 - 11:05	A Perspective on Risks from Radon	Don J. Higson
11:05 - 11:25	Replacement of Lead-Loaded Glovebox Gloves with an Attenuation Medium of non-RCRA-Hazardous Metals	Michael E. Cournoyer, Gerald L. George, Robert L. Dodge and Steve Chunglo
11:25 - 11:45	Issues in Production of Radiation Shielding Glasses for Hot Cell Facilities	RKGupta
11:45 - 12:05	Evaluation of radon in hot spring waters in Zacatecas State, Mexico	Esteban Favila-Reyna, Hugo López-del-Río, Ignacio Dávila-Rangel, Fernando Mireles-García
12:05 - 12:25	The Latin American Biological Dosimetry Network (LBDNet): Argentina, Brazil, Chile, Cuba, México, Peru, Uruguay	C. Guerrero Carbajal; C. Arceo Maldonado;

8. Human Resources and Advanced Systems

Chair: Juan Arellano

10:45 - 11:05	Advances in Human Reliability Analysis in Mexico	Pamela F. Nelson, Manuel González Cuesta, Teresa Ruiz Sánchez, Diana Guillén Montiel and Alfredo Contreras Víquez
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11:05 - 11:25	A Basic Radiation-Education Method Using a Handy-Type Cloud Chamber and Natural Radiation Sources	Kouhei N. Kushita
11:25 - 11:45	The Josef Regional Underground Research Centre – A New and Attractive Location for Interdisciplinary Teaching, Research and Training in the Field of Nuclear Engineering	Jaroslav Pacovský and Radek Vašíček
11:45 - 12:05	Use of Feedback for Improving Nuclear Engineering Curriculum	Glenn Harvel and George Bereznai
12:05 - 12:25	Steam Process Cogeneration Using Nuclear Energy	Gustavo Alonso Vargas and J. Ramón Ramírez Sánchez

2. Safety of Nuclear Power Plants
Chair: Javier Ortiz

10:45 - 11:05	Preliminary Analysis of Modeling of PARs and Steam Injectors to Support Long-term Operation of LWR Passive ECCS Using a Best Estimate Thermal-hydraulics Code	Jaime B. Morales Sandoval, M.I. Jerson Sánchez Jaramillo and Gilberto Espinosa Paredes
11:05 - 11:25	System for Risk Evaluations of Operational Events and Inspection Findings	Adrián López G. and Verónica Godínez S.
11:25 - 11:45	Reactor Safety Research Program at THAI Test Facility	Sanjeev Gupta, Teja Kanzleiter, Karsten Fischer and Gerhard Poss
11:45 - 12:05	Considerations about the Implementation of Alternative Source Terms: Nuclear Safety and Plant Operational Benefits	Andrés Rodríguez Hernández, Mario Bárcenas Robles and Javier Ortiz-Villafuerte
12:05 - 12:25	Comparison Study of the Thermalmechanical Performance of Fuel Rods during BWR Fuel Preconditioning Operations Using the Computer Codes FUELSIM and FEMAXI-V	Rafael Pantoja-Capistrán, Javier Ortiz-Villafuerte and Rogelio Castillo-Durán

12:30 – 13:30 **Conference Closure**