

Monday	20-Jun				
14:00-15:15	<b>Session M1A: Reactor Safety and Licensing(1)</b> Room: Trinity Salon I Chairs: Daniel Gammage (Amec Foster Wheeler)	14:00-15:15	<b>Session M2A: Materials (1)</b> Room: Trinity Salon II Chairs: Wenyue Zheng (CanmetMaterials) Joey Kish (McMaster U.)	14:00-17:00	<b>Session M3: Nuclear-for-Everyone</b> Room: Trinity Salon V
14:00-14:25	<b>(7) Mitigation Strategies of Beyond Design Basis Accidents (BDBA) in A CANDU Nuclear Power Plant</b> René Marcoux, Bing Li, George Arvanitis (Amec-FW), Ali Eledali-Zadeh, Petri Hotari, Rob Dunn (BP)	14:00-14:25	<b>(79) Advances in Materials Evaluation for the Canadian SCWR Core Concept</b> Wenyue Zheng (CanmetMaterials), David Guzonas (CNL), Kevin Boyle, Yimin Zeng, Jian Li, Michael Greenwood, Selcuk Kuyucak and Su Xu (CanmetMaterials)		
14:25-14:50	<b>(98) CRAFT – Control Room Accident Filtration</b>  Axel Hill, Marina Welker and William Cooper (AREVA GmbH)	14:25-14:50	<b>(83) Constructing a Grain Boundary Sensitization-Embrittlement Map for Type 310S Stainless Steel Fuel Cladding in the Canadian SCWR Concept</b> Yinan Jiao (McMaster U.), Qiang Wang (Queen's U.), Wenyue Zheng (CanmetMaterials), Dave Guzonas (CNL), Mark Daymond (Queen's U.) and Joey Kish (McMaster U.)		
14:50-15:15	<b>(28) Feasibility Study Reviewing the Use of CO2(G) as A Tracer Gas for Leak Detection in Generators</b> A.G. Page, G. Klempner, D. McNabb (Amex-FW), W. Trefry and S. Saha (BP)	14:50-15:15	<b>(48) Oxide Dispersion Strengthened (ODS) Steels for CANDU Supercritical Water-Cooled Reactor (SCWR) Fuel Cladding</b> Selcuk Kuyucak, Babak Shalchi Amirkhiz and Carlo Tesone (CanmetMaterials)		
15:15-15:45	<b>BREAK</b>	15:15-15:45	<b>BREAK</b>		
15:45-17:00	<b>Session M1B: Reactor Safety and Licensing (2)</b> Room: Trinity Salon I Chairs: JiHyeon Kim (KEPCO-E&C) Caitlin O'Grady (Amec-FW)	15:45-17:00	<b>Session M2B: Materials (2)</b> Room: Trinity Salon II Chairs: Michael Greenwood (CanmetMATERIALS) Xinjian Duan (Candu Energy Inc.)		
15:45-16:10	<b>(23) Current Regulatory Guidance and Proposed Methodology for External Flooding Assessments</b> Caitlin O'Grady, Peter Nimrichter and Elizabeth Alderson (Amec-FW)	15:45-16:10	<b>(100) Measurements and Simulations of Weld Residual Stresses for Feeder Dissimilar Metal Welds</b> Y. Shi, Xinjian Duan, M. Wang (Candu Energy Inc.) and M. Li (OPG)		
16:10-16:35	<b>(81) Towards A Unified Approach to Fire Safety in Nuclear Power Plants</b> Tareq Shibliq (Hatch Ltd.)	16:10-16:35	<b>(96) Creep Properties and TEM Characterization of SS 347H</b>  Babak Shalchi Amirkhiz, Su Xu, Jie Liang and Catherine Bibby (CanmetMATERIALS)		
16:35-17:00	<b>(10) Development Methodologies for Nuclear Safety Display System</b> JiHyeon Kim, S.M. Baek, J.H. Cho, C.H. Kim, S.D. Sohn and J.H. Yoon (KEPCO E&C)	16:35-17:00	<b>(88) Development of a CanmetMATERIALS Gen IV Materials Property Database for materials selection</b> Michael Greenwood, Su Xu and Wenyue Zheng (CanmetMATERIALS)		
	<b>17:00 End of Day 1</b>		<b>17:00 End of Day 1</b>		
Tuesday	21-Jun				
07:00-08:00	<b>Continental Breakfast</b>	07:00-08:00	<b>Continental Breakfast</b>	07:00-08:00	<b>Continental Breakfast</b>
08:00-10:05	<b>Session T1A: Reactor Safety and Licensing (3)</b> Room: Trinity Salon I Chairs: Morgan Brown (CNL) Amit Kumar Haruray (BARC)	08:00-10:05	<b>Session T2A: Nuclear Applications (1)</b> Room: Trinity Salon II Chairs: Peter Ottensmeyer (U. Toronto) Evan Konarek (Hatch Ltd.)	08:00-10:05	<b>Session T3A: Reactor and Radiation Physics</b> Room: Trinity Salon IV Chairs: Adriaan Buijs (McMaster University) Eleodor Nichita (UOIT)
08:00-08:25	<b>(66) Comprehensive Safety Design &amp; Plan Guarding against Accidental Leakages During In-Service Inspection of Indian PHWR Coolant Channels</b> Amit Kumar Haruray, Manojit Bandyopadhyay and Deepak N Badolkar (BARC)	08:00-08:25	<b>(20) The Travesty of Discarding Used CANDU Fuel</b>  Peter Ottensmeyer (U. Toronto)	08:00-08:25	<b>(45) Exploit the Performance of the Localization Algorithm for Wireless Sensor Networks under Gamma Radiation</b>  Yu Liu, Karen Collins and Liqian Li (CNL)
08:25-08:50	<b>(82) Benchmarking MAAP-CANDU v4.0.7B with GOHIC 7.2b: Response of Containment Models to Flashing and Condensation</b> Morgan Brown, Yu-Shan Chin (CNL) and Sam Gyepli-Garbrah (CNSC)	08:25-08:50	<b>(68) Synthetic Fuel Production via Carbon Neutral Cycles with High Temperature Nuclear Reactors as a Power Source</b>  Evan Konarek, Brian Coulas and Jim Sarvinis (Hatch Ltd.)	08:25-08:50	<b>(31) Implementation of A Dominant-Modes Solver in DRAGON</b>  Seyed Rida Housseiny Milany and Guy Marleau (Ecole Polytechnique de Montreal)
08:50-09:15	<b>(37) MAAP5-CANDU Development</b>  John Kennedy, Peter Maka and Michael Chai (Amec-FW)	08:50-09:15	<b>(78) Hatch Microgrid Controller for Integration of Very Small Modular Reactors with Off-Grid Power Systems</b>  Robert Rand, Mark Mitchell, Brian Gihm and Mohammad Sedighy (Hatch Ltd.)	08:50-09:15	<b>(18) Sensitivity and Uncertainty Analysis of the SCWR Core along Its Cycle with the Inclusion of Control Blades and Burnable Absorbers</b> Jason Sharpe and Adriaan Buijs (McMaster U.)
09:15-09:40	<b>(22) Assessment of Surveillance Tests Used to Estimate Backup Instrument Air Capacity</b> Cullen Adam and Arvind Misra (OPG)	09:15-09:40	<b>(26) A Phased Approach to Human Factors Integration – Point Lepreau EME Deployment Case Study</b> Adam Smith (Amec-FW) and Stephane Boucher (NB Power)	09:15-09:40	<b>(99) Application of Position-Dependent Delayed-Neutron Fractions to IQS Calculations for PT-SCWR</b> Qingjie Liu and Eleodor Nichita (UOIT)
09:40-10:05	<b>(13) Evaluation of External Hazards for Point Lepreau Generating Station</b>  A. Nainer, E. Elewini, L. Comanescu, P. Santamura (SNC-Lavalin Inc.), D. Mullin and A.F. Jean (NB Power)	09:40-10:05	<b>(64) Outreach and Engagement Activities to Support Nuclear Conversations</b>  Matthew Dalzell and Neil Alexander (Fedoruk Centre)	09:40-10:05	<b>(49) Theoretical Research of Weak Neutron Source Induced Bursts in Fast Neutron Reactor</b>  Jianjun Liu (IAPCM)
10:05-10:20	<b>Break</b>	10:05-10:20	<b>Break</b>	10:05-10:20	<b>BREAK</b>
10:20-12:00	<b>Session T1B: Reactor Safety and Licensing (4)</b> Room: Trinity Salon I Chairs: Jim Morris (Amec-FW) Andrew Fitchett (Candesco)	10:20-12:00	<b>Session T2B: Plant Life Extension (1)</b> Room: Trinity Salon II Chairs: Aman Usmani (Amec-FW) John Moore (IAEA)	10:20-12:00	<b>Session T3B: Thermalhydraulics (1)</b> Room: Trinity Salon IV Chairs: Yu Liu (CNL) D.K. Dwivedi (BARC)
10:20-10:45	<b>(97) Advanced Passive Cooling Solutions for Enhancement of Safety in Nuclear Power Plants</b>  Matthias Reuter, Leo Ornot, Christoph Schuster and Antonio Hurtado (AREVA GmbH)	10:20-10:45	<b>(19) IAEA Activities in Plant Life Management</b>  John Moore (IAEA)	10:20-10:45	<b>(73) A Mechanistic Model to Predict Fuel Channel Failure in the Event of Pressure Tube Overheat</b>  Alexander Dion and John Luxat (McMaster U.)
10:45-11:10	<b>(40) Implementation of Enhanced Severe Accident Management Guidance at OPG and Bruce Power</b> Jim Morris, Michael Huang, Ronald Henry, Sean Donnelly (Amec-FW), William Tse, Ravi Patel (OPG) and Lovell Gilbert (BP)	10:45-11:10	<b>(15) Impact of support Gaps on the Dynamic Response of Components</b> Aman Usmani and Sadath Malik (Amec-FW)	10:45-11:10	<b>(44) Study of Transient Neutronic-Thermalhydraulic Coupling: A Case Study Using a Backbone Interface</b> Yu Liu and Tao Xu (CNL)
11:10-11:35	<b>(65) Development and Implementation of A Severe Accident Management Program for NRU</b>  Andrew Fitchett (Candesco), Derek Burns (CNL) and Gary Douglas (Westinghouse Electric Company)	11:10-11:35	<b>(57) Building Interim End-state Strategy Assessment for Pickering Storage-with-Surveillance</b>  Paul Dinner, Emad Abdalla (Candesco), Jane Clemo (OPG), Mike Grey, Karl Heimlich and Chuck Negin (Candesco)	11:10-11:35	<b>(17) Development of Coupled Neutronics - Thermal Hydraulics Capability for the Reactivity Initiated Transient Analysis in Compact High Temperature Reactor (CHTR)</b>  D.K. Dwivedi, Anurag Gupta and P.D. Krishnan (BARC)
11:35-12:00	<b>(36) Validation of the Minimum Staff Complement for the NRU Reactor</b>	11:35-12:00	<b>(14) Structural Integrity Analysis for Exposure to Elevated Temperatures in The Point Lepreau Irradiated Fuel Bay</b>	11:35-12:00	<b>(94) The Casualidad Method for Uncertainty Evaluations of Best-Estimate Code Calculations</b>
				08:00-08:25	<b>(24) Applications of Nuclear Safety Probabilistic Risk Assessment to Nuclear Security for Optimized Risk Mitigation</b>  Sean Donnelly and Stan Harvey (Amec-FW)
				08:25-08:50	<b>(61) Conditional Probabilities of Pressure Tube Rupture During Limiting Design Basis Transients at Reactor Early Life and Late Life</b>  Christopher Manu, Danny Mok and Dan Pun-Quach (Amec-FW)
				08:50-09:15	<b>(55) Guidelines for Implementing Design Extension Conditions due to Seismic Hazards in CANDU Nuclear Power Plants</b>  Ayman Saoudy and Medhat Elgohary (Amec-FW)
				09:15-09:40	<b>(9) Key Technical Issues When Developing Probabilistic Foundation Input Response Spectra for Seismic Analysis</b> Sean Donnelly (Amec-FW) Jeff Kimball, Jose Blanco, Wei Li (RIZZO Associates), Sean Ni, Richard Chen, Ming Han (SNC-Lavalin Inc.) and Derek Mullin (NB Power)
				09:40-10:05	<b>(8) Seismic Fragility Analysis of a Nuclear Building based on Probabilistic Seismic Hazard Assessment and Soil-Structure Interaction Analysis</b> Rosalba Gonzalez, Sean Ni, Richard Chen, Ming Han (SNC Lavalin Inc.) and Derek Mullin (NB Power)
				10:05-10:20	<b>Session T4B: Radiation Dose and Environment</b> Room: Trinity Salon V Chairs: Kristina Gillin (Candesco) Khalid Farooq (Pall Corporation)
				10:20-10:45	<b>(42) Radiation by the Numbers: Developing an On-Line Canadian Radiation Dose Calculator as A Public Engagement and Education Tool</b> Matthew Dalzell (Fedoruk Centre)
				10:45-11:10	<b>(62) Used Fuel Management in Canada, Finland and Sweden – Similarities And Differences</b> Kristina Gillin (Candesco)
				11:10-11:35	<b>(4) Upgrade of Nuclear Power Plant Laundry Waste &amp; Floor Drain Water Treatment System Utilizing Microfiltration</b>  Khalid Farooq and Wendy Walker (Pall Corporation)
				11:35-12:00	<b>(12) Development of PC-Based Radiological Consequence Assessment Tool for Emergency Response to Nuclear Accident in Northeast Asia</b>

Yasamin Dadashi, Nastaran Dadashi (Candesco) and Kathy Hughes (CNL)		Hesham Mohammed, Waleed Mekky (Amec-FW), Mark Moland and Derek Mullin (NB Power)		Alessandro Petruzzi (NINE)		Seunghee Lee, Juyoung Kim, Juyub Kim, Sukhoon Kim, Taebin Yoon (FNC Technology Co. Ltd.) and Li-Chi Cliff Po (Micro-Simulation Technology)	
<b>12:00-14:00</b>	<b>Lunch</b>	<b>12:00-14:00</b>	<b>Lunch</b>	<b>12:00-14:00</b>	<b>Lunch</b>	<b>12:00-14:00</b>	<b>Lunch</b>
<b>Wednesday</b>	<b>22-Jun</b>						
<b>14:00-15:15</b>	<b>Session W1A: Reactor Safety and Licensing (5)</b> <b>Room:</b> Trinity Salon I <b>Chairs:</b> Alessandro Petruzzi (NINE)  David Novog (McMaster U.)	<b>14:00-15:15</b>	<b>Session W2A: Plant Life Extension (2)</b> <b>Room:</b> Trinity Salon II <b>Chairs:</b> Marko Pavlovic (Hatch Ltd.)  Mayank Singh (Amec-FW)	<b>14:00-15:15</b>	<b>Session W3A: Thermohydraulics (2)</b> <b>Room:</b> Trinity Salon IV <b>Chairs:</b> Alexander Gurevich (Advanced Measurement and Analysis Group Inc.) Mohinder Grover (Grover & Associates)		
<b>14:00-14:25</b>	<b>(95) RELAPS Experiences and Applications for Heavy Water Reactor Technology at NINE</b> Alessandro Petruzzi, Marco Cherubini and Domenico De Luca (NINE)	<b>14:00-14:25</b>	<b>(69) Practical Issues in Engineering According to Z-Standard</b>  Marko Pavlovic (Hatch Ltd.)	<b>14:00-14:25</b>	<b>(63) Investigation on Pressure Drop Oscillation in Natural Circulation System Using CATHARE</b> Chuanxin Peng, Yuanfeng Zan, Jianjun Xu, Yanping Huang and Wenbin Zhuo (NPIC)		
<b>14:25-14:50</b>	<b>(101) Loss of Coolant Accident Simulation With RELAPS/MOD4 for the Canadian Supercritical Water-Cooled Reactor</b> M. Lou, David Novog (McMaster U.), Chris Allison and R. Wagner (Innovative System Software)	<b>14:25-14:50</b>	<b>(92) Use of fission Chambers for Monitoring Neutron Flux for the First Start-ups of the Refurbished Bruce A Reactors</b> Charles Olive, Derek Luth (Amec-FW), Philippe Paquette and Todd Stroud (Bruce Power)	<b>14:25-14:50</b>	<b>(60) Measurement of Transient Critical Heat Flux In A Heated Tube At Intermediate Pressures In Water</b>  Brad Statham and David Novog (McMaster U.)		
<b>14:50-15:15</b>	<b>(3) Coupling RELAP5 and Pressure Tube Deformation Models to Analyze the Thermal-Hydraulic-Mechanical Phenomena during Channel Heat-Up Phase</b> Fen Zhou, David Novog (McMaster U.), L.J. Siefken, Chris Allison (Innovative System Software)	<b>14:50-15:15</b>	<b>(90) Vacuum Drying Strategies for CANDU Power Plants</b>  Steve Fernandes and Mayank Singh (Amec-FW)	<b>14:50-15:15</b>	<b>(46) Traceability and Mathematical Modeling of Cross Correlation Flow Measurement</b>  Alexander Gurevich and Armando Lopez (Advanced Measurement and Analysis Group Inc.)		
<b>15:15-15:45</b>	<b>BREAK</b>	<b>15:15-15:45</b>	<b>BREAK</b>	<b>15:15-15:45</b>	<b>BREAK</b>		
<b>15:45-17:00</b>	<b>Session W1B: Plant Life Extension (3)</b> <b>Room:</b> Trinity Salon I <b>Chairs:</b> Charles Olive (Amec-FW) Aman Usmani (Amec-FW)	<b>15:45-17:00</b>	<b>Session W2B: Nuclear Applications (2)</b> <b>Room:</b> Trinity Salon II <b>Chairs:</b> Musharaf Rabbani (Tyne Engineering Inc.) Huirong Min (Hatch Ltd.)	<b>15:45-17:00</b>	<b>Session W3B: Fuel</b> <b>Room:</b> Trinity Salon IV <b>Chairs:</b> Matthew Kaye (UOIT) Barbara Szpunar (U. Saskatchewan)		
<b>15:45-16:10</b>	<b>(91) Range Extension from -7.0 to -7.2 Decades for Flux Monitoring using Reactor Regulating System (RRS) Ion Chambers at Bruce Power</b> Charles Olive, Omar Shaikh, Kwok Tsang, (Amec-FW), Philippe Paquette and Fang Bao (Bruce Power)	<b>15:45-16:10</b>	<b>(67) Small Modular Reactors for the Production of Hydrogen Fuel at Remote Sites</b>  Evan Konarek, Jeff Eastick, Brian Gihm and Jim Sarvinis (Hatch Ltd.)	<b>15:45-16:10</b>	<b>(43) An Alternative Strategy for Thermodynamic Evaluations of Experimental U-Me Phase Diagrams to Resolve Considerable Experimental Discrepancies</b> Matthew H. Kaye and Lian Cheng Wang (UOIT)		
<b>16:10-16:35</b>	<b>(74) Practical Considerations for Prevention of Flow Accelerated Corrosion during Refurbishment</b> Jeremy Jo and Poorya Ferdowsi (Hatch Ltd.)	<b>16:10-16:35</b>	<b>(72) Design And Development of A Tritium Compatible Electrolyzer</b> Musharaf Rabbani, Peter Ozemoyah, John Robinson (Tyne Engineering Inc.), Hongqiang Li, Hugh Boniface and Sam Suppiah (CNL)	<b>16:10-16:35</b>	<b>(47) U-Ru-Rh-Pd Quaternary System: Thermodynamic Calculations and Experimental Explorations</b> Matthew H. Kaye and Lian Cheng Wang (UOIT)		
<b>16:35-17:00</b>	<b>(93) First Approach to Critical (ATC) for Bruce Units 1&amp;2 Following Refurbishment</b> Charles Olive, Derek Luth (Amec-FW), Philippe Paquette and Todd Stroud (Bruce Power)	<b>16:35-17:00</b>	<b>(84) An Approach to Evaluate the HCLPF Capacities in the Modification Design of SSCs</b> Huirong Min and Raymond Li (Hatch Ltd.)	<b>16:35-17:00</b>	<b>(38) First Principles Molecular Dynamics Studies of Oxygen Sub-Lattice Melting in Thoria</b> Barbara Szpunar and Jerzy Szpunar (U. Saskatchewan)		
<b>17:00</b>	<b>END OF TECHNICAL SESSIONS</b>	<b>17:00</b>	<b>END OF TECHNICAL SESSIONS</b>	<b>17:00</b>	<b>END OF TECHNICAL SESSIONS</b>		