

= day #; A - before break / B - after break; # - session number

Day 1						
Session	1A1 / 1B1 Room: Great Room C	1A2 / 1B2 Room: Strategy Room 3	1A3 - Reactor Safety and Licensing (I) Room: Strategy Room 1 Chair: Peter Purdy, Bruce Power Jacqueline Schoenfeld, University of Saskatchewan	1A4 - Life Extension and Refurbishment (I) Room: Strategy Room 2 Chair: Chunlei Zhao, OPG Evan Veryard, RMC	1A5 - Reactor and Radiation Physics (I) Room: Upper Fallsview Studio B Chair: Mohamed Dahmani, SNC Lavalin Ahmad Moghrabi, McMaster University	1A6 - Thermalhydraulics (I) Room: Upper Fallsview Studio A Chair: Stephen Yu, SNC Lavalin Chireuding Zeliang, UOIT
14:00 - 14:25	Nuclear for Everyone Seminar	Fusion Panel Discussion (Paper #12)	4	33	59	96
14:25 - 14:50	Instructor: Benjamin Rouben	Chairs: Blair Bromley (CNS), Matt Dalzell (Fedoruk Centre)	122	45	121	98
14:50 - 15:15				63	123	109
15:15 - 15:35	COFFEE BREAK					

Session	1B3 - Reactor Safety and Licensing (II) Room: Strategy Room 1 Chair: Peter Ozemoyah, Tyne Engineering Inc. Jennifer Shin, Western University	1B4 - Health, Environment & Spent Fuel / Waste Management (I) Room: Strategy Room 2 Chair: Yang Sui, NWMO Weiwei Li, University of Toronto	1B5 - Reactor and Radiation Physics (II) Room: Upper Fallsview Studio B Chair: Dumitru Serghiuta, CNSC Andrew Walker, McMaster University
15:35 - 16:00	Fusion Panel Discussion (Paper #12)		
16:00 - 16:25	Chairs: Blair Bromley (CNS), Matt Dalzell (Fedoruk Centre)		
16:25 - 16:50			

Day 2						
Session	2A1 - Health, Environment & Spent Fuel / Waste Management (II) Room: Strategy Room 1 Chair: Shinya Nagasaki, McMaster University Julie Kim, UOIT	2A2 - Reactor Safety and Licensing (III) Room: Strategy Room 2 Chair: Xinjian Duan, SNC Lavalin Cong Dai, Queens University	2A3 - Reactor and Radiation Physics (III) Room: Strategy Room 3 Chair: Doddy Kastanya, Candesco Mohammed Alqatani, McMaster University	2A4 - Advanced Reactors (I) Room: Upper Fallsview Studio A Chair: Farzad Rahnema, Georgia Institute of Technology Dimitri Kallikragas, Trent University	2A5 - Computer Code Development Room: Upper Fallsview Studio B Chair: David Novog, McMaster University Kendall Boniface, McMaster University	
8:00 - 8:25	5	35	92	73	10	
8:25 - 8:50	6	41	71	97	15	
8:50 - 9:15	8	50	79	103	17	
9:15 - 9:40	81	49	14	46	94	
9:40 - 10:00	COFFEE BREAK					

Session	2B1 -Health, Environment & Spent Fuel / Waste Management (III) Room: Strategy Room 1 Chair: Duck Kim, Environment and Climate Change Canada Pongpat Santiwiparat, UNB	2B2 - Thermalhydraulics (II) Room: Strategy Room 2 Chair: John Luxat, McMaster University Chris Hollingshead, McMaster University	2B3 - Reactor and Radiation Physics (IV) Room: Strategy Room 3 Chair: Omar Shaikh, OPG Fred Salaun, McMaster University	2B4 - Advanced Reactors (II) Room: Upper Fallsview Studio A Chair: Constantin Banica, OPG Jirapinya Kongtuk, UNB	2B5 - Life Extension and Refurbishment (II) Room: Upper Fallsview Studio B Chair: Willy Cook, UNB Chris Alcorn, University of Guelph
10:00 - 10:25	24	9	60	38	64
10:25 - 10:50	31	22	116	48	68
10:50 - 11:15	32	57	119	67	126
11:15 - 11:40	37	82	89	72	88
11:40 - 12:05		113	90	125	

Day 3						
Session	3A1 / 3B1 Room: Strategy Room 1	3A2 - Reactor and Radiation Physics (V) Room: Upper Fallsview Studio A Chair: Jingliang Hu, SNC Lavalin William Davis, University of Saskatchewan	3A3 - Health, Environment & Spent Fuel / Waste Management (IV) Room: Upper Fallsview Studio B Chair: Peter Ottensmeyer, University of Toronto Derek Logtenberg, RMC	3A4 - I & C (I) Room: Strategy Room 2 Chair: Aman Usmani, Amec Foster Wheeler Ali Eskandari, University of Toronto	3A5 - OPEX Room: Strategy Room 3 Chair: Tony Lake, Bruce Power Jane Ferguson, University of Guelph	
14:00 - 14:25	Train - the - Trainer	3	44	54	124	
14:25 - 14:50	(Matt Dalzell and Joy Shikaze)	11	78	127	43	
14:50 - 15:15		13	16	128	2	
15:15 - 15:35	COFFEE BREAK					

Session	3B2 - Reactor Safety and Licensing (IV) Room: Upper Fallsview Studio A Chair: John Luxat, McMaster University Simon Younan, McMaster University	3B3 - Chemistry & Materials Room: Upper Fallsview Studio B Chair: John Roberts, JGRchem.inc Cedric Eveleigh, McMaster University	3B4 - Life Extension and Refurbishment (III) Room: Strategy Room 2 Chair: Mohinder Grover, MS Grover & Associates Ellen Lloyd, University of Saskatchewan
15:35 - 16:00	Train - the - Trainer (Matt Dalzell and Joy Shikaze)		
16:00 - 16:25			
16:25 - 16:50			

Paper #	Title and Authors
2	RADIATION DOSE REDUCTION IN SWISS NUCLEAR POWER PLANTS <i>Rainer Karl Ahlfänger</i>
3	SWIFT HEAVY ION IRRADIATION OF ZIRCONIUM ALLOY: DELETERIOUS EFFECTS ON THERMAL AND MECHANICAL PROPERTIES <i>Shuyan Kong, Ruoyu Bai, Zilong Hua, Wanlin Wang, Lu Liu, Daqing Yuan, Heng Ban and Haihong Xia</i>
4	REVIEW OF MARGINS BEYOND DESIGN BASIS EARTHQUAKE <i>Aman Usmani</i>
5	COMBUSTION SIMULATION OF TRANSPORTATION PACKAGE PERFORMANCE IN SEVERE, LONG DURATION FIRE USING COMPUTATIONAL FLUID DYNAMICS TOOLS <i>Yang Sui</i>
6	C-14 – RECOVERY FROM SPENT RESIN <i>Peter Zeh, Andreas Stahl and Bill Cooper</i>
8	NUCLEAR WASTE RETREATMENT / RETRIEVAL – CONCEPTS AND TECHNOLOGIES <i>Sven Nothvogel and Thomas Maeck</i>
9	Experimental study on flow instability and critical heat flux of two parallel channels <i>XiaoZhong Liu and ChuanXin Peng</i>
10	THE DEVELOPMENT OF AN AGILE ANALYSIS METHOD TO SUPPORT THE CONCEPTUAL DESIGN OF THE ROLLS-ROYCE SMALL MODULAR REACTOR <i>Christopher Bennett, David Baker, Jon Coulson, James Archer and Sam Treasure</i>
11	MICRODOSIMETRIC STUDIES IN MIXED NEUTRON AND GAMMA RAY FIELDS USING TRIPLE GEM TISSUE EQUIVALENT PROPORTIONAL COUNTERS <i>Marat Seydaliev and Jacques Dubeau</i>
12	FUSION 2030: A ROADMAP FOR CANADA TO DEVELOP FUSION ENERGY <i>Blair Bromley, Neil Alexander, Michael Delage, Robert Fedosejevs, Allan Offenberger, Y. Tsui, Hossam Gaber, Chijin Xiao, Andrew Wallace, Matthew Dalzell, Tim Howard and Andrei Smolyakov</i>
13	PERFORMANCE OF ON-THE-FLY CROSS SECTIONS PROCESSING IN MONTE CARLO SIMULATION CODE <i>Jiankai Yu, Hyunsuk Lee, Khassenov Azamat, Kan Wang and Deokjung Lee</i>
14	UPDATED SHIELDING ANALYSIS METHODOLOGY APPLIED TO OPG WASTE MANAGEMENT FACILITIES <i>Philip Smith, Omar Shaikh and Paul Crowley (omar.shaikh@opg.com)</i>
15	SELF POWERED NEUTRON DETECTORS CALCULATIONS USING RAST-K 2.1 <i>Farrokh Khoshahval, Minyong Park, Jinsu Park, Jiwon Choe, Peng Zhang, Ho Cheol Shin Shin, Ji Eun Jung, Hwan Soo Lee and Deokjung Lee</i>
16	SELECTION OF OBJECTIVE FUNCTIONS IN THE MULTI-OBJECTIVE FUEL MANAGEMENT OPTIMIZATION <i>Farrokh Khoshahval and Deokjung Lee</i>
17	SIMULATED ANNEALING METHODOLOGY FOR THE GENERATION OF REALISTIC BURNUP DISTRIBUTIONS FOR ATUCHA REACTORS <i>Federico José Clavero and Martín Sebastián Silva</i>

20	QUANTOM - A NEW METHODOLOGY FOR SCANNING OF UNOPENED NUCLEAR WASTE PACKAGES <i>Sven Wegener and William Cooper</i>
22	AN EVALUATION OF CLIFF-EDGE EFFECT UNDER SBO AND LOSS OF EPS SYSTEM COMBINED WITH LOSS OF UHS FOR THE AGED CANDU-6 REACTOR <i>Eunkyung JANG, Seoungrae KIM and Sungdeok YI</i>
24	FROM BURIAL TO RECYCLING: A CHANGE IMPERATIVE FOR NUCLEAR FUEL WASTE MANAGEMENT <i>Peter Ottensmeyer</i>
29	IMPROVEMENTS IN RFSP PREDICTION CAPABILITY FOR SPATIAL CONTROL IN DARLINGTON REACTORS <i>Aaron Sullivan and Galina LeRoy</i>
31	Coupled Hydro-Mechanical Behaviour of In-Situ Shaft Sealing Components <i>Chang Seok Kim, Marolo Alfaro, James Blatz and David Dixon</i>
32	RADIATION HEALTH RESPONSE PLAN <i>Ministry of Health and Long-Term Care Ontario</i>
33	SOFTWARE ASSURANCE STANDARDS OVERVIEW FOR REFURBISHMENT AND LIFE EXTENSION PROJECT TOOLING SYSTEM <i>Anan Huang</i>
35	DESIGN CONSIDERATIONS OF COOLING TOWERS FOR THE DARLINGTON B NUCLEAR GENERATION STATION POTENTIAL NEW-BUILD <i>Jiaqi Zhao, Kayshiva Maharaj, Patrick Dolloso, Saud Farhat Ali, George Bereznai and Daniel Hoorweg</i>
37	CANDU SPENT FUEL PURIFICATION <i>Saloni Sabharwal, Jiawei Le, Lucas Pereira, Sam Cherniak, Cullen Adam, Amir Foroozan and Eric Jelinski</i>
38	CYCLE LENGTH EXTENSION OF SMPWR USING ZIRCALOY REFLECTOR <i>Jiwon Choe, Ho Cheol Shin, Ji Eun Jung, Hwan Soo Lee and Deokjung Lee</i>
40	MEASUREMENTS OF ACOUSTIC ADMITTANCE OF PIPING SYSTEMS AT DIFFERENT FLOW VELOCITIES <i>Mahmoud Shaaban, Moamen Abdelmwgoud, Nadim Arafa, Karim Sachedina, Atef Mohany and Marwan Hassan</i>
41	USE OF HELMHOLTZ RESONATORS TO SUPPRESS ACOUSTIC PRESSURE PULSATIONS IN PIPELINES <i>Moamen Abdelmwgoud, Mahmoud Shaaban, Nadim Arafa, Karim Sachedina, Atef Mohany and Marwan Hassan</i>
42	SIMULATION OF A CANDU 6 CONTAINMENT LEAKAGE RATE TEST USING MELCOR <i>Han-Chul Kim, Su-Kyeong Pak, Jun-Soo Lee and Song-Won Cho</i>
43	INNOVATIVE SUSTAINABILITY <i>Courtney Diebel</i>
44	MINIMIZING PUBLIC RADIATION DOSE AT DECOMMISSIONED MINE SITES FOR FUTURE LAND USE OPPORTUNITIES <i>Jige Shen, Janeen Tang, Rina Parker and Don Hart</i>
45	A REVIEW OF FLOW ACCELERATED CORROSION IN CANDU FEEDER PIPES (Abstract) <i>Uditha Wijayarathne, George Bereznai and Sharman Perera</i>
46	FUSION RELATED EXPERIMENTAL STUDIES AT THE UNIVERSITY OF SASKATCHEAN <i>Chijin Xiao</i>

47	UNENE: AN INTEGRATED NETWORK FOR SUSTAINABLE KNOWLEDGE MANAGEMENT <i>Jerry Hopwood</i>
48	A RELIABILITY ASSESSMENT FOR THE DECAY HEAT REMOVAL SYSTEM IN THE PGSFR <i>Jintae KIM and Moosung JAE</i>
49	AN ASSESSMENT FOR SEVERE ACCIDENT MANAGEMENT STRATEGIES USING MULTIPLE DECISION TREE MODEL <i>Hoyoung SHIN and Moosung JAE</i>
50	HUMAN ERROR ASSESSMENTS FOR IMPLEMENTING SEVERE ACCIDENT MANAGEMENT STRATEGIES USING A DYNAMIC HRA METHOD <i>Seunghyun Jang and Moosung JAE</i>
53	ADJUSTER SHIM OPERATION AT DARLINGTON: USING CONFIGURATION-SPECIFIC REFERENCE MAPS <i>Constantin Banica, Yuksel Parlatan, Aaron Sullivan and Ross Rock</i>
54	DISTRIBUTED TEMPERATURE MEASUREMENTS ALONG A HEATED TUBE USING ALL-FIBER BRAGG GRATING OPTICAL SENSORS <i>Robert Bowden, Wenhai Li, Michel Gaudet, Michael Benson and Ali Siddiqui</i>
55	TRACE/S3K CODE COUPLING SIMULATION OF A BWR/4 ANTICIPATED TRANSIENT WITHOUT SCRAM <i>Yacine Aounallah</i>
56	SIMULATION WITH TRACE OF A BWR/4 STEAM LINE BREAK UNDER "HOT STANDBY" CONDITIONS <i>Yacine Aounallah</i>
57	POST-DRYOUT HEAT TRANSFER ASSESSMENT OF TRACE <i>Yacine Aounallah</i>
59	MULTI-OBJECTIVE SARAPAN AND DERMAGA ALGORITHMS FOR GENERATING RANDOM PATTERNED-CHANNEL-AGE IN CANDU FUEL MANAGEMENT ANALYSES <i>Doddy Kastanya</i>
60	OPTIMIZATION OF TIME-AVERAGE CALCULATIONS IN CANDU FUEL MANAGEMENT USING SIMULATED ANNEALING: MINIMIZATION OF MAXIMUM BUNDLE AND CHANNEL POWERS <i>Doddy Kastanya and Darryl McClure</i>
62	INTERACTION OF NPO ₂ ⁺ WITH CL ⁻ IN NA-CA-CL TYPE SOLUTIONS WITH HIGH IONIC STRENGTH <i>Shinya Nagasaki, Takumi Saito, Satoru Tsushima, Jared Goguen and Tammy Yang</i>
63	AREVA – AGING MANAGEMENT SOFTWARE PLATFORM <i>André Zander, Thomas Seitz and Udo Wildner</i>
64	EMBALSE STEAM GENERATOR REPLACEMENT PROJECT: MAIN CHALLENGES AND PROGRESS UPDATE OF THE IMPLEMENTATION PHASE <i>Pablo Javier Luna, James Jesko, Stefan Bostelaar and Ricardo Sainz</i>
65	EMBALSE REFURBISHMENT: UPDATE OF PROGRESS <i>Gustavo David Díaz, Ricardo Sainz, James Hopkings and Jamie Higgs</i>
67	A SMALL MODULAR PWR CORE DESIGN USING NITRIDE FCM FUELS WITH FeCrAl CLADDING FOR NATURAL CIRCULATION <i>Dae Hee Hwang, Jae Yeon Choi, Ser Gi Hong, Won Jae Lee and Francesco Venneri</i>
68	QUANTIFYING PROBE COVERAGE ERROR IN FEEDER THINNING ASSESSMENT <i>Mikko Jyrkama and Mahesh Pandey</i>

69	UNCERTAINTY, SAMPLE SIZE AND THE 95/95 TOLERANCE LIMIT <i>Mikko Jyrkama and Mahesh Pandey</i>
71	IMPROVEMENT OF SAFETY PARAMETERS IN THE CANDU REACTOR USING BURNABLE ABSORBER ERBIUM <i>Mohammad Abdul Motalab, Woosong Kim and Yonghee Kim</i>
72	A SMR PWR REACTOR CORE DESIGN USING NITRIDE FCM FUELS WITH FeCrAl CLADDING AND FORCED CONVECTION CIRCULATION <i>Jae Yeon Choi, Dae Hee Hwang, Ser Gi Hong, Won Jae Lee and Francesco Venneri</i>
73	THE ECONOMICS OF NOVEL vSMR IN THE NORTH <i>Megan Moore</i>
78	DEVELOPMENT OF MEASUREMENT TECHNOLOGY FOR BETA-RAY DEPTH DISTRIBUTION IN SOIL <i>Jun Woo Bae, Ukjae Lee, Choong Wie Lee and Hee Reyoung Kim</i>
79	KERNEL DENSITY ESTIMATION METHOD IN TIME-DEPENDENT MONTE CARLO SIMULATION <i>Weihua Yan</i>
81	THE APPLICATION OF THE PORTABLE NUCLIDE RECOGNIZING RAPID RADIATION DISTRIBUTION MONITORING SYSTEM FOR ENSURING RADIATION SAFETY <i>Ukjae Lee and Hee Reyoung Kim</i>
82	SENSITIVITY STUDIES FOR THE STATION BLACKOUT ACCIDENT WITH CRASH-COOLDOWN AT A GENERIC 900MW CANDU REACTOR <i>Feng Zhou, David Novog and Chris Harwood</i>
84	Abstract - Trouble Shooting Leakage Issues in a Dry Storage Container (DSC) <i>Jim Carmichael, Catherine Wang, Tahir Iqbal and Jim Sato</i>
88	CHALLENGE PERFORMING FUEL CHANNEL REACTOR MAINTENANCE ON AGING CANDU REACTORS <i>Tony Lake</i>
89	APPLICATION OF BAYES METHOD IN EVALUATION OF ROP/NOP TRIP SETPOINT <i>Dumitru Serghiuta, John Tholammakkil, Anthony O'Hagan and David A. Stephens</i>
90	INTEGRATED FRAMEWORK FOR PROPAGATION OF UNCERTAINTIES IN NUCLEAR CROSS-SECTIONS IN CANDU STEADY-STATE AND TRANSIENT REACTOR PHYSICS SIMULATIONS <i>Dumitru Serghiuta, Hany Abdel-Khalik, John Tholammakkil and Alexandre Trottier</i>
91	THE ROLE OF SULFUR AND LEAD IN THE CORROSION OF NICKEL ALLOYS RELEVANT TO NUCLEAR STEAM GENERATORS <i>Amirhossein Foroozan Ebrahimi, Anatolie Carcea and Roger Newman</i>
92	NANO-SLACLE MECHANICAL TEST OF IRRADIATED X-750 Ni-BASED SUPERALLOY <i>Pooyan Changizian, Zhongwen Yao and chenyang Lu</i>
94	INVESTIGATION OF THE CANDU® FUEL BUNDLE STRUCTURAL INTEGRITY DUE TO FLOW-INDUCED VIBRATIONS <i>Osama Elnanhawy, mohammed Alziadeh, Atef Mohany and Marwan Hassan</i>
96	EVALUATION OF CHF CORRELATIONS FOR NONUNIFORM AXIALLY HEATED TUBES IN STEAM GENERATOR <i>Naief Almalki and Wael Ahmed</i>
97	OPTIMIZATION APPROACH OF ENERGY GROUP STRUCTURE FOR THE CANADIAN PRESSURE TUBE SUPERCRITICAL WATER REACTOR <i>Ahmad Moghrabi and David R. Novog</i>

98	DYNAMIC RESPONSE OF TWO-PHASE FLOW THROUGH PIPING COMPONENT WITH FLOW RESTRICTING ORIFICE <i>Olufemi Bamidele, Wael Ahmed and Marwan Hassan</i>
103	ANALYSIS OF THE EFFICIENCY OF ELECTROMAGNETIC PUMP FOR SODIUM THERMOHYDRAULIC TEST ACCORDING TO COOLING CONDITION <i>Jaesik Kwak and Heereyoung Kim</i>
109	VIBRATIONS AND NATURAL FREQUENCY OF A CANDU FUEL STRING <i>Mo Fadaee and Shudong Yu</i>
112	A PROPOSED CATALYTIC MECHANISM OF Pd ON THE FORMATION OF UBe ₁₃ IN EXPERIMENTAL CONSTRUCTION OF U-Pd PHASE DIAGRAMS <i>Matthew H. Kaye and Lian Cheng Wang</i>
113	STABILITY THRESHOLD OF A LOOSELY SUPPORTED TRIANGLE TUBE ARRAY SUBJECTED TO CROSSFLOW <i>Amro Elhelaly, Atef Mohany, Soha Moussa and Marwan Hassan</i>
116	MONTE CARLO FIXED SOURCE CALCULATIONS TO SUPPORT BRUCE POWER START-UP INSTRUMENTATION PRELIMINARY DESIGN <i>Jingliang Hu, Emile Talbot, Anas Khaial, Philippe Paquette and Mohamed Dahmani</i>
117	PARTRIDGE-II – AN INTERNATIONAL RESEARCH PROGRAM FOR DEVELOPING A PROBABILISTIC TOOL FOR RISK-INFORMED DECISION MAKING <i>Xinjian Duan, Khalid Chaudhry, Peter Purdy, Nik Popov, Liqun Sun and Krish Krishnan</i>
119	COMPARISON BETWEEN WIMS-AECL DEPLETION CALCULATIONS AND A PWR THORIUM PIN-CELL BURNUP BENCHMARK <i>Tony Liang</i>
120	SUBCRITICAL REACTIVITY CALCULATIONS <i>Emile Talbot</i>
121	STUDY OF LOCAL FUEL TEMPERATURE DISTRIBUTION EFFECTS USING COUPLED LATTICE PHYSICS AND THERMAL HYDRAULICS CODES <i>A. Eckhardt, I. Hong and M. Dahmani</i>
122	EFFECT OF MISSING MASS AND RIGID MOTION ON SEISMIC RESPONSE SPECTRUM ANALYSIS <i>Yuxin Liu, Xue Ming Han, Lingam Vaithlingam and Wei Jlang</i>
123	ANALYTIC BENCHMARK FOR FUEL-REFLECTOR PHWR CONFIGURATIONS <i>Peter Schwanke and Eleodor Nichita</i>
124	STATUS UPDATE: ELEVATED RADIATION FIELDS IN THE PRIMARY HEAT TRANSPORT SYSTEM AT THE POINT LEPREAU NUCLEAR GENERATING STATION <i>William Cook, Glen Brown, Brent Smith and Paul Thompson</i>
125	INTEGRATED APPROACH TO FLUORIDE HIGH TEMPERATURE REACTOR (FHR) TECHNOLOGY DEVELOPMENT <i>Farzad Rahnema, Bojan Petrovic, Preet Singh, Xiaodong Sun, Pavel Tsvetkov, Grady Yoder, Dingkang Zhang and Jinsuo Zhang</i>
126	Managing Material Degradation in Nuclear Power Plants <i>Dr. Mike Montazer and Danyal Montazer</i>
127	DYNAMIC RELIABILITY ANALYSIS OF A DIGITAL STEAM GENERATOR LEVEL CONTROL SYSTEM <i>Chireuding Zeliang and Hossam Gaber</i>
128	RADON PROGENY IDENTIFICATION AND REJECTION BASED ON PSEUDO COINCIDENCE TECHNIQUE – FEASIBILITY ANALYSIS <i>Adam Caly and Eugene Saltanov</i>

