

# CNS Simulation Symposium 2012

Preliminary Program as of August 27, 2012

## Sunday October 14

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<i>Time</i>	<i>Activity</i>
17:00	Registration
18:00-20:00	Conference Reception

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## Monday, October 15

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<i>Time</i>	<i>Activity</i>
8:00	Welcome
	<i>Invited Presentations 1</i>
8:15	<i>Joanne Ball (AECL) : AECL's Advanced Code Project</i>
9:00	<i>Charles Blahnik (CBA Inc) : Perspective on Analyses of Core Damage in CANDU Reactors.</i>
9:45	Coffee
	<i>Invited Presentations 2</i>
10:05	<i>Anthony Williams (AECL) : New Techniques for Fuel Modelling"</i>
10:50	<i>Dumitru Serghiuta (CNSC) : Independent Review and Verification of Nuclear Safety Analysis and Design in the Face of Uncertainty</i>
11:35	<i>Fred Dermarkar (OPG) : Actions Taken in Response to Fukushima</i>
12:00	Lunch
	<i>Session 1 (Code development)</i>
13:00	MODERNIZATION OF THE NESTLE-CANDU REACTOR SIMULATOR AND COUPLING TO SCALE-PROCESSED CROSS SECTIONS, <i>S. Hart and G.I.Maldonado</i>
13:25	MONTE CARLO SIMULATIONS OF A CANDU 6 LATTICE CELL USING THE GEANT4 TOOLKIT, <i>L. Russell, A. Buijs, W. Ford and G. Jonkmans</i>
13:50	THE DEVELOPMENT OF MODEL GENERATORS FOR SPECIFIC REACTORS, <i>J.C. Chow</i>
14:15	A NEW PARADIGM FOR THE DEVELOPMENT OF ANALYSIS SOFTWARE, <i>D. Kelly and J. Harauz</i>
14:40	Coffee
	<i>Parallel Session 2 (Safety)</i>
15:05	PICKERING NGS EMERGENCY WATER SUPPLY SYSTEM EMERGENCY START FLOW SIMULATION AND EXPERIMENT, <i>E. Davidge and A. Misra</i>
15:30	SIMULATION OF CANDU FUEL PIN THERMAL RESPONSE TO RIA POWER PULSE, <i>J. Tariq</i>
15:55	REACTOR KINETICS STUDY IN CANDU-6: A 3-D VERSUS POINT KINETICS COMPARISON FOR LOSS OF HTS FLOW EVENTS, <i>D. Rouben</i>
16:20	NUMERICAL ANALYSIS STUDY TO IDENTIFY THE LEAK CAUSE OF A FEEDWATER HEATER VENT PIPE IN A CANDU PLANT, <i>K.M. Hwang and D.Y. Lee</i>
	<i>Parallel Session 3 (Simulator Development)</i>
15:05	DEVELOPMENT OF A CANDU FULL SCOPE SIMULATOR FOR THE EMBALSE NUCLEAR POWER STATION, <i>R. Dimitri-Hakim and M. Chatlani</i>
15:30	3D VISUALIZATION AND SIMULATION TO ENHANCE NUCLEAR LEARNING, <i>R. Dimitri-Hakim</i>
15:55	AUTOMATING THE SIMULATOR TESTING AND DATA COLLECTION PROCESS, <i>T. Magi and R. Dimitri-Hakim</i>
16:20	DEVELOPMENT OF PROTOTYPE CANDU FUEL HANDLING SIMULATOR – CONCEPT AND SOME SIMULATION RESULTS WITH PHYSICAL NETWORK MODELING APPROACH, <i>X. Xu</i>
18:00-20:00	Conference Dinner

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**Tuesday, October 16**

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<i>Time</i>	<i>Activity</i>
	<i>Session 4 (Code Development and Reactor Physics)</i>
8:15	SPEEDING-UP COLLISION PROBABILITY CALCULATIONS, <i>D. Altiparmakov</i>
8:40	COUPLING BETWEEN DONJON AND CATHENA USING A BASH SCRIPT FOR RIH BREAK OPENING TIME ASSESSMENT, <i>M.F. Fehri and R. Chambon</i>
9:05	PRE-SIMULATIONS OF REACTIVITY DEVICE MANOEUVRES AT DARLINGTON WITH RFSP AND RRS EMULATOR, <i>E. Kotik and C. Banica</i>
9:30	ESTIMATE OF DETECTOR FLUX DECREASE DUE TO THE PRESENCE OF AN ABSORBER IN BRUCE REACTOR, <i>E. Varin, A. Khaial and O. Nainer</i>
9:55	Coffee
	<i>Session 5 (Reactor Physics)</i>
10:20	DRAGON 2-D SIMULATION OF SPATIAL SELF-SHIELDING EFFECT IN SLOWPOKE-2 REACTOR, <i>H. Raouafi and G. Marleau</i>
10:45	DRAGON AND SERPENT 2-D MODELLING OF THE SLOWPOKE-2 REACTOR AT ÉCOLE POLYTECHNIQUE MONTRÉAL, <i>H. Raouafi and G. Marleau</i>
11:10	DRAGON SIMULATION OF RADIAL PWR REFLECTOR, <i>N. Bejaoui and G. Marleau</i>
11:35	THE 89 ENERGY GROUP NEUTRON SPECTRA FOR THE MK4 AND MK7 FAST NEUTRON ROD MATERIAL TESTING FACILITIES IN NRU, <i>T. Leung and L. Waters</i>
12:00	Lunch
	<i>Parallel Session 6 (Thermalhydraulics and Safety)</i>
13:00	MODELING APPROACH FOR ANNULAR FUEL ELEMENTS USING THE ASSERT-PV SUBCHANNEL CODE, <i>A.N. Dominguez and Y-F. Rao</i>
13:25	CFD SIMULATION OF ROD BUNDLES, <i>K. Podila, J. Bailey, Y-F. Rao and M. Krause</i>
13:50	THERMAL-MECHANICAL ANALYSIS OF ANNULAR FUEL IN COMPARISON TO SOLID FUEL FOR CANDU REACTORS, <i>R. Xu</i>
14:15	CODE SIMULATION OF A PRELIMINARY PASSIVE MODERATOR COOLING SYSTEM FOR CANADIAN SCWR CONCEPTUAL DESIGN, <i>S-K. Yang</i>
14:40	PLANNING CALCULATIONS OF SPRAY TESTS FOR THE ERCOSAM-SAMARA PROJECT, <i>Z. Liang and M. Andreani</i>
	<i>Parallel Session 7 (Benchmark and Uncertainties)</i>
13:00	COMPARATIVE STUDY OF DRAGON AND TRIPOLI FOR A PWR ASSEMBLY, <i>C. Camand and G. Marleau</i>
13:25	UNCERTAINTIES IN KINETICS PARAMETERS OF NATURAL-URANIUM-FUELLED CANDU CORES INTRODUCED BY LATTICE HOMOGENIZATION AND GROUP CONDENSATION, <i>E. Nichita, D. Serghiuta and S. Podobed</i>
13:50	CANADIAN PARTICIPATION IN OECD/NEA-KAERI ROD BUNDLE BENCHMARK FOR CFD CODES, <i>J. Szymanski, D. Chang, D. Novog, K. Podila, J. Bailey, Y-F. Rao, A. Rashkovan and S. Tavoularis</i>
14:15	VALIDATION OF CATHENA FOR FLOW OSCILLATION IN FREQUENCY DOMAIN, <i>X-M. Huang and G. Waddington</i>
14:40	COMPARISON OF THE CATHENA MODEL OF GENTILLY-2 END SHIELD COOLING SYSTEM PREDICTIONS TO STATION DATA, <i>G. Zagré, G. Sabourin and S. Chapados</i>
15:05	End of Symposium

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