



November 16-18, 2008

Metro Toronto Convention Centre
Intercontinental Toronto Centre Hotel
Toronto, Ontario, Canada

Advance Program & Registration Information

Conference focus: **Operational Excellence**
Achieving Competent, Tightly-Managed Support Services

Conference Organizer



www.cns-snc.ca/CMC2008.html

Preliminary Schedule of Events

Sunday, November 16, 2008

12:00 – 16:00	Exhibitor Move-In	Constitution Hall
16:00 – 18:00	Registration	Constitution Hall Foyer
17:30 – 20:00	Welcoming Reception	Constitution Hall
17:30 – 20:00	Exhibits Open	Constitution Hall

Monday, November 17, 2008

07:00 – 17:00	Registration	Constitution Hall Foyer
07:00 – 08:00	Speakers and Chairs of the Day Breakfast	Room 103A
07:30 – 08:15	Coffee and Breakfast Pastries	Constitution Hall
08:30 – 10:00	Plenary Session	Constitution Hall
10:00 – 10:30	Refreshment Break	Constitution Hall
10:00 – 21:00	Exhibits Open	Constitution Hall
10:30 – 12:00	Managing Worker Radiation Dose	Room 104A
	Maintenance Management Programs 1	Room 104B
	Full Life Cycle Management 1	Room 104C
	Managing Maintenance Through Understanding Component Ageing 1	Room 104D
12:00 – 13:30	Luncheon	Constitution Hall
13:30 – 15:00	Refurbishment 1	Room 104A
	Maintenance Management Programs 2	Room 104B
	Full Life Cycle Management 2	Room 104C
	Managing Maintenance Through Understanding Component Ageing 2	Room 104D
15:00 – 15:30	Refreshment Break	Constitution Hall
15:30 – 17:00	Refurbishment 2	Room 104A
	Maintenance Management Programs 3	Room 104B
	Designing for Maintainability 1	Room 104C
	Inspection Techniques 1	Room 104D
17:30 – 18:30	Reception	Constitution Hall
18:30 – 21:00	Banquet	Constitution Hall

Tuesday, November 18, 2008

07:30 – 08:00	Speakers and Chairs of the Day Breakfast	Room 103A
07:30 – 08:00	Coffee and Breakfast Pastries	Constitution Hall
08:00 – 09:15	Refurb Managers' Panel	Constitution Hall
09:15	Exhibits Open	Constitution Hall
09:15 – 10:45	Maintaining Water Chemistry During Lay-Up	Room 104A
	Applying Probabilistic Assessments to Maintenance 1	Room 104B
	Designing For Maintainability 2	Room 104C
	Inspection Techniques 2	Room 104D
10:45 – 11:00	Refreshment Break	Constitution Hall
11:00 – 12:30	Computer Aided Maintenance 1	Room 104A
	Applying Probabilistic Assessments to Maintenance 2	Room 104B
	Designing For Maintainability 3	Room 104C
	Inspection Techniques 3	Room 104D
12:30 – 14:00	Luncheon	Constitution Hall
14:00 – 15:30	Computer Aided Maintenance 2	Room 104A
	Applying Probabilistic Assessments to Maintenance 3	Room 104B
	Advanced Tooling for Maintenance 1	Room 104C
	Inspection Techniques 4	Room 104D
15:30	Exhibits Close	Constitution Hall
15:30 – 17:00	Computer Aided Maintenance 3	Room 104A
	Station Maintenance OPEX	Room 104B
	Advanced Tooling for Maintenance 2	Room 104C
17:00	Conference Adjourns	



8TH International Conference on CANDU Maintenance

At this point in time, eight CANDU units are in some stage of major refurbishment in addition to another 21 units in ongoing operation. The main objective of this Conference is to provide a forum for the discussion of utility needs and objectives related to achieving top performance.

The focus of this Conference is therefore:

Operational Excellence Achieving Competent, Tightly-Managed Support Services

Participation in this Conference is important to those on the front lines of nuclear operations who are seeking solutions to technical maintenance problems, interested in opening new markets, developing existing products and services, or simply wanting to make new contacts within the industry.

Utilities and service providers alike are drawn to this conference by the high quality of the Technical Program and its relevance to this dynamic industry.

This year the Conference will be held in a new, larger venue, which will provide more space for an expected increase in attendance and in the number of organizations participating as Exhibitors.

Refurb Central, a new feature, will provide utilities with major refurb programs with visibility/ accessibility to the entire support/refurb/maintenance community in attendance.

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Conference Organization Team

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Jaques Plourde, *OPG, Darlington Nuclear*

Ricardo Sainz, *Embalse*

Marian Serban, *Cernavoda*

John Slade, *NB Power*

Zhang Zhenhua, *TQNPC*

Conference Registrar

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Technical Program Committee

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Revi Kizhatil, *BWC-NP*

Derek Lister, *University of New Brunswick*

Sharon Maddock, *Wardrop Engineering Ltd.*

Jeff Millman, *BWC-NE*

Brent Murchie, *Bruce Power*

Todd Osman, *TMMMS*

Ben Rouben, *Canadian Nuclear Society*

Anup Sahoo, *UW Student*

Heather Smith, *AECL CANDU Services*

Pam Sprague, *AECL CANDU Services*

Cheryl Tasker-Shaw, *Kinectrics Inc.*

Conference Registration

For e-registration, or to obtain a copy of the registration form for faxing or mailing, visit:

www.cns-snc.ca/CMC2008.html

Fees for registration are as follows (all in CDN \$ and inclusive of 5% GST):

	By Sept 19	After Sept 19
CNS Members	\$625	\$675
Non-members	\$725	\$775
One-day (member)	\$325	\$325
One-day (non-member)	\$375	\$375
Students	\$225	\$250
CNS Retirees	\$225	\$250

CNS Membership

If you are not already a member of the CNS, consider joining in order to obtain the reduced conference registration rate as well as the many other membership benefits. See the website.

Canadian Nuclear Society (CNS) www.cns-snc.ca

Conference Venue

The 8th CNS International Conference on CANDU Maintenance will be held at the Metro Toronto Convention Centre, a new and larger venue that will provide more space for an expected increase in attendance and in the number of organizations participating as exhibitors.

The Trade Show is being held within the reception/banquet area of the conference, thus providing maximum exposure for corporate displays throughout all reception, luncheon and banquet periods.

Hotel Accommodation

The Intercontinental Toronto Centre Hotel is the official provider of accommodation for Conference participants. The hotel is located at 225 Front Street West, and is conveniently attached to the Metro Toronto Convention Centre.

A block of rooms is reserved for Conference participants at the preferred rate of \$219 per night, single or double occupancy, plus taxes. In order to obtain this special Conference rate, be sure to make your reservation before the cut-off date of October 16, 2008 and indicate that you are attending the Canadian Nuclear Society Conference, or provide the Group Booking Code "NSB".

Guest room reservations are to be made directly with the hotel by calling 1-800-422-7969 or locally 416-597-1400, or through the Conference website www.cns-snc.ca/CMC2008.html.

Social and Informal Events

Welcoming Reception

Sunday November 16, 2008
17:30 – 20:00

Reception

Monday, November 17, 2008
17:30 – 18:30

Conference Banquet

Monday, November 17, 2008
18:30 – 21:00

Free Time for Informal Interaction

Coffee and Breakfast Pastries
Mon. 07:30 – 08:15
Tues. 07:30 – 08:00

Refreshment Breaks

Mon. 10:00 – 10:30 and 15:00 – 15:30
Tues. 10:45 – 11:00

Luncheons

Mon. 12:00 – 13:30
Tues. 12:30 – 14:00

Conference Proceedings

Conference Proceedings are planned for publication on CD by January 2009. One copy will be mailed to each registrant. Additional copies of the Conference Proceedings may be purchased. See Conference Registration Form, page 22.

Audio/Video Recording Policy

All technical papers for presentations made during this conference will be fully documented in the Conference Proceedings. Recording of any sessions (audio, video, still photography, etc.) intended for personal use, distribution, publication or copyright is strictly prohibited. Permission to record can only be provided after application to, and approval by, the Canadian Nuclear Society and by the individual author/presenter.

Copyright

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Preliminary Technical Program Plenary Session

Monday, November 17, 2008 08:30 – 10:00

Metro Toronto Convention Centre – Constitution Hall



Honorary Chair and Speaker

Robert Fisher

Chief Nuclear Officer & Executive Vice President, Production, Bruce Power

Robert Fisher serves as Executive VP and CNO for Bruce Power, North America's largest nuclear generating station. In his role, Robert is responsible for planning and directing all organizational activities related to nuclear power operations, maintenance, modifications, and support services. Robert comes to Bruce Power with more than 25 years of multi-disciplinary experience in nuclear operations. He previously served as Station Manager at Dresden Nuclear Station and VP Operations for Exelon, responsible for the standardization and adoption of best industry practices in Operations, Maintenance, Work Management, Chemistry, Environment and Radiation Protection for the Exelon fleet. He started his civilian nuclear career at the Peach Bottom Atomic Power station where he was a licensed reactor operator, all after graduating from the U.S. Naval Academy, and serving for six years in the U.S. Naval Submarine Fleet.



Speaker

Michael D. Lees

President, Babcock & Wilcox Canada

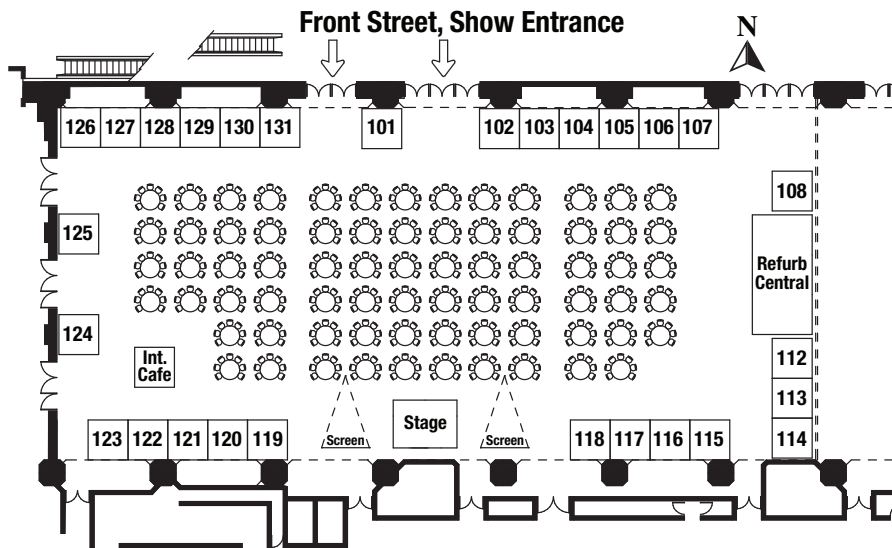
In his role as President of B&W Canada, Michael is responsible for the delivery of major components and support services for the thermal power industry and for the CANDU and PWR nuclear industries. He is also responsible for the extension of these activities to wider nuclear markets. The nuclear equipment program includes full-scope program management, materials procurement, design development, engineering qualification, and manufacture of nuclear steam generators and components. The services program includes not only outage inspection, repair/retrofit/replacement work for steam generators and other heat transport components, but also comprehensive life-cycle-management capability for those components. Michael has been with B&W Canada for 28 years in roles including in reverse order; Director Business Development and Marketing, GM Nuclear SGs and Components, Manager of Nuclear Engineering, various Project Management roles and initially as Stress Analyst. Michael holds an Honours Applied Physics degree from U Waterloo and an Executive MBA from the Richard Ivey School at U Western Ontario.

Trade Show

Exhibitor Booths allow engineering, support and service providers to present their capabilities to the entire CANDU maintenance and refurb communities in attendance at this conference.

Location: Metro Toronto Convention Centre – Constitution Hall

Time: Throughout (session times excepted)



Exhibitors Registered to Date

Acuren
Atomic Energy of Canada Limited -
CANDU Services
Babcock & Wilcox Canada
Canadian Metal-Ad Corporation
E.S. Fox Ltd.
GE-Hitachi Nuclear
Industrial Audit Corporation

Intech International Inc.
Kinectrics Inc.
Nuclear Logistics Inc.
Numet Engineering Ltd.
Organization of CANDU Industries
Schulz Electric
Zetec Inc.

Refurb Central

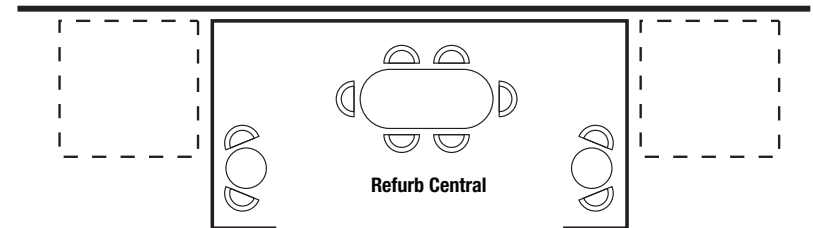
Refurb Central, a new feature, is a large, networking/conference space in the Trade Show area. It provides the Refurb Utility hosts with the opportunity to meet informally with their service providers during the Conference in a setting which gives them the visibility and accessibility needed for direct, easy and effective communication.

Objective: To put the entire CANDU refurb/maintenance community in touch with the utilities with the refurb challenge.

Location: Metro Toronto Convention Centre – Constitution Hall

Time: Throughout (flexible)

Hosts: The Refurb Utilities



Refurb Managers' Panel

A panel of senior Refurb Utility Managers will discuss the challenges, successes and set-backs, as well as the further needs and support requirements of their major refurb programs.

Location: Metro Toronto Convention Centre – Constitution Hall

Time: Tuesday, Nov. 18, 8:00 a.m. – 9:15 a.m.

Breakfast: Grab a coffee and a pastry and be seated by 8:00 a.m.

Technical Sessions

Monday, November 17, 2008

Managing Worker Radiation Dose

- 10:30 **Characteristics of Outage Radiation Fields Around Various Reactor Components**
Yury Verzilov, Aamir Husain; and Glen Corbin; Kinectrics
- 11:00 **Rapid Deployment Platform for In-Vault Reactor Maintenance**
Lorrie Lancaster, GE-Hitachi Nuclear Energy Canada; and Mike Furniss, Bruce Power
- 11:30 **World Class ALARA Performance at Darlington Nuclear**
Tom Wong, Darlington Nuclear Generating Station
- 12:00 Luncheon

Maintenance Management Programs 1

- 10:30 **Improving Regulatory Oversight of Maintenance Programs**
Stephen Cook, Canadian Nuclear Safety Commission
- 11:00 **Outage Optimization in the KHNP CANDU 6 Reactors**
Ki Jun Jung, Seo Kwon Lee and Myung Key Lee, Korea Hydro and Nuclear Power Company
- 11:30 **Overdue PSV Reduction Program**
Annie Beauchamp, Martin Bagshaw and Wayne Blaedow, Atomic Energy of Canada Limited
- 12:00 Luncheon

Technical Sessions

Monday, November 17, 2008

Full Life Cycle Management 1

- 10:30 **A Last Look at Point Lepreau Feeder Degradation**
John Slade, New Brunswick Power; and Tracy Gendron, Atomic Energy of Canada Limited
- 11:00 **Feeder Replacement**
Ardeshir Askari and Dennis Pink, Babcock & Wilcox Canada; Ronald Goslin and Robert Mallozzi, Atomic Energy of Canada Limited
- 11:30 **Recent Developments in Feeder Fitness-For-Service Assessments**
Xinjian Duan and Michael Kozluk, Atomic Energy of Canada Limited
- 12:00 Luncheon

Managing Maintenance Through Understanding Component Ageing 1

- 10:30 **Impact of Shelf Life on Measured Prompt Fraction of Spare Inconel in Core Flux Detectors**
Sam Sadeghi and VK Mohindra, Atomic Energy of Canada Limited
- 11:00 **Mass Transfer Effects in Flow-Accelerated Corrosion Wall Thinning**
John Pietralik, Atomic Energy of Canada Limited
- 11:30 **Delayed Hydride Cracking Velocity of Irradiated CANDU Zr-2.5Nb Tubes with Temperature and Neutron Fluence**
Young Suk Kim, Korea Atomic Energy Research Institute
- 12:00 Luncheon

Technical Sessions

Monday, November 17, 2008

Refurbishment 1

- 13:30 **Emergent Maintenance Issues Related to Point Lepreau Refurbishment**
John Slade, New Brunswick Power; and Tracy Gendron, Atomic Energy of Canada Limited
- 14:00 **Industry Partnership: Adding Value to Nuclear Reactor Refurbishment and Maintenance**
Tim Gibbins, Automation Tooling Systems Inc.; and Narinder Bains, Atomic Energy of Canada Limited
- 14:30 **Embalse Refurbishment – Aging, Safety Assessments and the Path Forward**
Damian Fornero, Gustavo Diaz, Ricardo Sainz, Embalse Nuclear Power Systems; Ralf Gold, Rick Dam and Laurie McCrea, Atomic Energy of Canada Limited
- 15:00 Break

Maintenance Management Programs 2

- 13:30 **Solving the Challenge of Too Much Work, One “Thin Vertical Slice” at a Time**
Jon Anderson, Chavet & Anderson Inc.
- 14:00 **Elective Maintenance Backlog Reduction at Darlington Nuclear, Ontario Power Generation**
Kenneth Sutton and Guy Lanteigne, Darlington Nuclear Generation Station
- 14:30 **Sustaining Improved Equipment Reliability in Fuel Handling at Darlington**
Bill Conners, Ontario Power Generation
- 15:00 Break

Technical Sessions

Monday, November 17, 2008

Full Life Cycle Management 2

- 13:30 **Bruce Unit 1 & 2 Preheater Condition Assessment**
Roy McGillivray, Peter King, Babcock & Wilcox Canada; and David Durance, Bruce Power
- 14:00 **Life Cycle Management Analysis of Steam Generators at Pickering B**
Fernando Camacho, DAMOS Inc.; and Sandra Pagan, Ontario Power Generation
- 14:30 **The Steps to Executing Successful Maintenance Services**
Eric Wilson, Atomic Energy of Canada Limited
- 15:00 Break

Managing Maintenance Through Understanding Component Ageing 2

- 13:30 **Stress Corrosion Cracking and Intergranular Attack of Steam Generator Tubing During Unit Outages**
Dave Durance, Bruce Power; John Roberts, CANTECH Associates Ltd.; Peter King, Babcock & Wilcox Canada; Jeff Gorman, Dominion Engineering; and Ruth Allen, Kinectrics Inc.
- 14:00 **A Survey on the Corrosion Susceptibility of Alloy 800 CANDU SG Tubing Materials**
Yucheng Lu, Atomic Energy of Canada Limited
- 14:30 **Metallurgical Examination and Structural Integrity Testing of Alloy 400 Steam Generator Tubes**
Guyline Goszczynski, Brian Mills, Kinectrics Inc.; and Sandra Pagan, Ontario Power Generation
- 15:00 Break

Monday, November 17, 2008

Refurbishment 2

- 15:30 **CANDU Power Plant Primary Heat Transport System Vacuum Drying**
Benjamin Xu, AMEC Nuclear Safety Solutions
- 16:00 **The Development and Manufacture of Size for Size Feeder Pipe for Feeder Replacement**
George Legate, David Schreiter and Nathan Townley, Nu-Tech Precision Metals Inc.
- 16:30 **Remote Feeder Removal for CANDU 6 at Gentilly 2**
Eric Lavoie, Alain Drolet and Pierre Gauthier, Hydro-Québec

Maintenance Management Programs 3

- 15:30 **The Right Maintenance on the Right Components at the Right Time with the Right Parts. Maintaining High Plant Reliability Through an Effective Maintenance Program**
Paul Von Hatten, Ontario Power Generation
- 16:00 **Motor-Operated Valve Performance Testing and Condition Monitoring Using Data from the Motor Control Centre**
Fabrice Guerout, Pierre Lebel and Kristopher Jones, Atomic Energy of Canada Limited
- 16:30 **Obtaining Third-Party CRNS For N285.0 Class 6 Components**
Gerald Waterhouse, Nuclear Logistics Inc.

Monday, November 17, 2008

Designing for Maintainability 1

- 15:30 **Maintainability – A Means to Improve the Maintenance and Availability Performance of Nuclear Power Plants**
Jan Krasnodebski, JK Quality Associates; and Mohinder Grover, Atomic Energy of Canada Limited
- 16:00 **Designing for Maintainability: Use of Operating Experience and Feedback to Improve Performance of the ACR-1000; Detailing the Specific Case of Power Operated Valves**
Dennis McQuade, Atomic Energy of Canada Limited
- 16:30 **AECL's Use of FMEA and OPEX for Field Service Tooling and Process Development, Implementation and Improvement: A Model for the Future**
Elizabeth Cox, Richard Dam and Eric Wilson, Atomic Energy of Canada Limited

Inspection Techniques 1

- 15:30 **Eddy Currents Inspection of Steam Generators' Tubes at Cernavoda NPP**
Luiza Vladu, Mihai Cretu, Mihai Gologanu, COMPCONTROL ING.; and Scott Tromba, ZETEC
- 16:00 **Inspection of Circumferential IGA/SCC in Bruce Unit 4 SGs**
Stephen Fluit, Henry Myderwyk, Peter King, Babcock & Wilcox Canada; David Durance and Ken Sedman, Bruce Power
- 16:30 **Inspection of Tube Support Plate Degradation**
Stephen Fluit, Paul Shipp, Daniel Gammage, Paul Fung, Babcock & Wilcox Canada; Ken Sedman and Greg Galan, Bruce Power

Tuesday, November 18, 2008

Maintaining Water Chemistry During Lay-Up

- 09:15 **Integrating Chemistry with Maintenance During CANDU Reactor Lay-Up for Retubing Outages**
Craig Stuart, Gordon Burton and Erin Szumsky, Atomic Energy of Canada Limited
- 09:45 **An Electrochemical Study of the Corrosion of Alloy 600 Steam Generator Material Under Lay-Up Conditions –The Effect of Hydrazine Concentration**
Jared Smith and Guylaine Goszczynski, Kinectrics Inc.
- 10:15 **A Technique for Assessing the Abrasion Resistance of Steam Generator Internal Tube Oxide**
Vivian Chew, Clive Morton and Aamir Husain, Kinectrics Inc.
- 10:45 Break

Applying Probabilistic Assessments To Maintenance 1

- 09:15 **An Inspection Model for Probabilistic Safety Evaluation, Life Prediction, and Life Management of CANDU Feeders Subject to Three Degradation Mechanisms**
Manou Hosseini, AMEC Nuclear Safety Solutions
- 09:45 **Reliability Analysis for Inspections of CANDU Components and Systems**
Dag Horn, Atomic Energy of Canada Limited
- 10:15 **Probabilistic Assessment of Fuel Channel Bearing Travel and End of Bearing Time**
Fernando Camacho, DAMOS Inc.; Rex Lam, AMEC Nuclear Safety Solutions; Jason Goldberg, Larry Micuda and David Cho, Bruce Power
- 10:45 Break

Tuesday, November 18, 2008

Designing For Maintainability 2

- 09:15 **AECL's Advanced CANDU Reactor – Maintenance Based Design and Equipment Reliability**
Dan Meraw, Atomic Energy of Canada Limited
- 09:45 **Flow-Induced Vibration and Fretting-Wear Specifications to Ensure Steam Generator and Heat Exchanger Lifetime Performance**
Victor Janzen, Yingke Han, Atomic Energy of Canada Limited; and Michel Pettigrew, École Polytechnique
- 10:15 **Plasmabond: Soft-Metal Engineered Surfaces**
Steve Greenwell, CWFCN – Nova Machine Products
- 10:45 Break

Inspection Techniques 2

- 09:15 **High Resolution X-Probe for 12.9 mm Diameter I600 Tubing**
Joe Renaud, Laura Obrutsky and Richard Lakhani, Atomic Energy of Canada Limited
- 09:45 **The Effects of ID Magnetite Deposits on Steam Generator Tube Eddy Current Signals**
Brian Lepine and Laura Obrutsky, Atomic Energy of Canada Limited
- 10:15 **Video Inspection of Lattice Tube Rolled Joint Area with Structured Lighting for Enhanced Surface Profiling**
Paul Rochefort, Marc Bouchard, Andrew Kittmer and Mitch King, Atomic Energy of Canada Limited
- 10:45 Break

Technical Sessions

Tuesday, November 18, 2008

Computer Aided Maintenance 1

- 11:00 **A Study of an Intelligent FME System for SFCR Tools**
Hassan Hassan, Ontario Power Generation
- 11:30 **Utilization of Handheld Computing to Trend Improvements in Compliance**
Gord Galvin, Adam Haines and Jeremy Rasmussen, Industrial Audit Corporation
- 12:00 **Remote Tool Monitoring System**
Jacqueline Cherevaty, Chris Rambaran and Sylvia Cheong, Atomic Energy of Canada Limited
- 12:30 Luncheon

Applying Probabilistic Assessments To Maintenance 2

- 11:00 **Development of Risk-Informed In-Service Inspection Methodology for Piping in CANDU Nuclear Power Plants**
Arnold Yuan, Ben Hryciw, Keith Dinnie and Aman Usmani, AMEC Nuclear Safety Solutions
- 11:30 **Case Studies in Root Cause Analysis: Opportunities for Improved Maintenance of CANDU Fuelling Machines**
Keith Ellison, Michelle Schippke, Allan Jarvine, Kinectrics Inc.; and Kevin Pickles, Bruce Power
- 12:00 **A Method for CT-LIN Time-to-Contact Predictions in CANDU 6 Reactors**
Paul Sedran, Canadian Power Utility Services; and Bill Rankin, New Brunswick Power
- 12:30 Luncheon

Technical Sessions

Tuesday, November 18, 2008

Designing For Maintainability 3

- 11:00 **Development of Methods for Detection and Repositioning of Snug-Fitting Annulus Spacers**
Paul Feenstra, Bruce A.W. Smith and Mitch King, Atomic Energy of Canada Limited
- 11:30 **Heavy Water Upgrader Improvements**
Ian Bonnett, GE Hitachi Nuclear Energy Canada; Tony Busigin, Special Separations Applications, Inc.; Graham Tucker and Andy Lashford, GE Healthcare
- 12:00 **Hydraulic Nuts (Hydranuts) for Critical Bolted Joints**
Steve Greenwell, CWFCN-Nova Machine Products
- 12:30 Luncheon

Inspection Techniques 3

- 11:00 **Fret Replica Inspection Laser Scanner (FRILS)**
Stephen Kretz and Kelly Hanley, Ontario Power Generation
- 11:30 **A Review of Digital Radiography Technology for Valve Inspection**
Krassimir Stoev, Fabrice Guerout and Dag Horn, Atomic Energy of Canada Limited
- 12:00 **Phased Array Ultrasonic Technology (PAUT) Contribution to Detection and Sizing of Microbially Influenced Corrosion (MIC) of Service Water Systems and Shut Down Coolers Heat Exchangers in OPG CANDU Stations**
Peter Ciorau, Lou Pullia, Trek Hazelton, Ontario Power Generation; and Wence Daks, CADWIRE
- 12:30 Luncheon

Technical Sessions

Tuesday, November 18, 2008

Computer Aided Maintenance 2

- 14:00 **Software Simulation Development: Best Practices and Lessons Learned**
Beatrice Sze, Fang Tong, Jean Wang and Guy Rigway, GE Hitachi Nuclear Energy Canada
- 14:30 **Fatigue Analysis Through Automated Cycle Counting Using ThermAND™**
Gordon Burton, Yuqing Ding, Metin Yetisir, Atomic Energy of Canada Limited; and Anthony Scovil, New Brunswick Power
- 15:00 **PIPO-FE: An Updated Computer Code to Evaluate Heat Exchanger Flow-Induced Vibration**
Yingke Han and Victor Janzen, Atomic Energy of Canada Limited

Applying Probabilistic Assessments to Maintenance 3

- 14:00 **A Risk Based Approach to Determine Inspection Sample Size for the Evaluation of Flaws for DHC Initiation in Pressure Tubes**
Anup Sahoo and Mahesh Pandey, University of Waterloo
- 14:30 **Predictions of the Onset Times for Spacer Nip-Up in Point Lepreau**
Paul Sedran, Canadian Power Utility Services; and Bill Rankin, New Brunswick Power

Technical Sessions

Tuesday, November 18, 2008

Advanced Tooling For Maintenance 1

- 14:00 **Pickering-A Calandria Vault Inspection Project – Edges of the Envelope**
Derek Bilyk, Ontario Power Generation; Marc Paiment, MacDonald Dettwiler and Associates Inc.
- 14:30 **Hydro-Québec Inspection Robot RIT-LRG**
Dominique Champagne and Yves G. Bourgault, Hydro-Québec
- 15:00 **Darlington TMM**
Patrick Brennan, GE Hitachi Nuclear Energy Canada

Inspection Techniques 4

- 14:00 **Development of Non-Destructive Condition Monitoring Techniques for Low-Voltage Cables**
Fabrice Guerout, Ladji Cisse, Richard Boor, Atomic Energy of Canada Limited; and Alain Blouin, National Research Council Canada
- 14:30 **Measurement of Wall Thickness Under the Weld Cap in Feeder Piping**
Hélène Hébert, Ken Chaplin, Michel Gaudet and Glenn Longhurst, Atomic Energy of Canada Limited
- 15:00 **A Contribution to Phased Array Ultrasonic Inspection of Welds: Defect Patterns and Sizing Capability**
Peter Ciorau, Ontario Power Generation

Technical Sessions

Tuesday, November 18, 2008

Computer Aided Maintenance 3

- 15:30 **Analysis of Feeder Wall Thickness Inspection Data with FAATS-COG**
Ken Chaplin, Stuart Craig, David Dunford and Hélène Hébert, Atomic Energy of Canada Limited

Station Maintenance OPEX

- 15:30 **Damage to Moderator Heat Exchanger Tubesheet Face**
Steve Valois, Hydro-Québec; and David Hartwick, Babcock & Wilcox Canada
- 16:00 **Cooling and Unloading of 12 Spent Fuel Bundles with a Damaged Fuelling Machine**
Alain Gélinas, Hydro-Québec
- 16:30 **Foreign Material Intrusion in 3211-HX1, November 2007**
Pascal Corbeil, Hydro-Québec

Advanced Tooling For Maintenance 2

- 15:30 **Rack and Pinion Based Fuelling Machine of 540 MWe Indian PHWR**
Vivek Gupta, Rama Mohan N., Bharath Kumar M., Muralidhar G. and Bhambra H.S., Nuclear Power Corporation of India Limited
- 16:00 **Advanced Robotics for Inspection and Maintenance Applications**
Ben Fisher, Mark Toffolon and Jeff Hulcoop, Intech International Inc.



Conference Registration Form

November 16-18, 2008
Metro Toronto Convention Centre
Toronto, Ontario, Canada

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In all cases, after submission of form, fee payment may be made by phone if desired.

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