

PROGRAM CONFERENCE & EMERGENCY PREPAREDNESS INTERNATIONAL

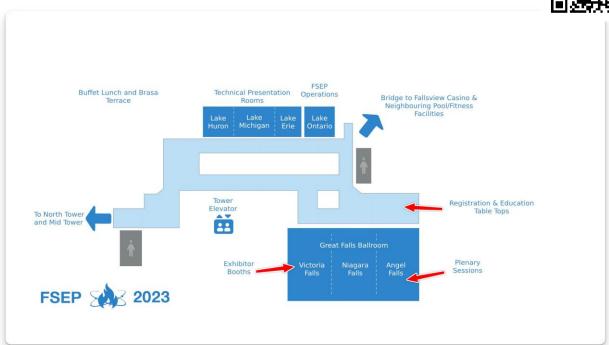
FALLS VIEW HILTON HOTEL, NIAGARA FALLS, CANADA



AGENDA CNS - FSEP 2023 / 4th International Conference on Fire Safety & Emergency Preparedness Previous Day - October 17 Toronto Airport Pick-up: Shuttle from Toronto Pierson Airport to HILTON Hotel for pre-registered delegates only **Airport Shuttle no: TORONTO PIERSON AIRPORT (contact Walter.Hew@OPG.com by 04 OCT 2023) (Pick up at Terminal 1 - Post #4)** Shuttle leaves from Terminal 1 - Post #4 between 15:30 and 15:35 (no waiting) Time - 15:15 ****Airport Shuttle TORONTO PIERSON AIRPORT Shuttle leaves from Terminal 1 - Post #4 between 21:00 and 21:05 (no waiting) (Pick up at Terminal 1 - Post #4)**** Time 20:45 HILTON HOTEL Foyer (LEVEL E) Registered Attendee Check-in (Name Tag & Conference Bag pick up Desk) 18:00 - 20:00 FSEP Exhibitor Hall Set up by Exhibitor (Alternate time: 18 OCT 7:00 -7:30 AM) VICTORIA FALLS

Agenda & Details are available at YAPP
APP. SCAN This QR Code





**SHUTTLE #1 on 17 OCT 2023 - Please proceed to the arrival level of Terminal 1. Proceed to Door A. Please note, you do not need to register with the pre-arranged desk as this has been completed. Close to the departure time please proceed outside to Post #4. To access this post please cross the first roadway to the outside road area and look to the posts for numbers. The shuttle will arrive between 15:30-15:35 and leave immediately, so please be sure to be at the post before 15:300m

If you arrive in Terminal 3 there is a terminal link train to get you to Terminal 1.

 $\underline{\ \ }.\ https://www.torontopearson.com/en/transportation-and-parking/terminal-link-train$

*****SHUTTLE #2 on 17 OCT2023 - Please proceed to the arrival level of Terminal 1. Proceed to Door A. Please note, you do not need to register with the pre-arranged desk as this has been completed. Close to the departure time please proceed outside to Post #4. To access this post please cross the first roadway to the outside road area and look to the posts for numbers. The shuttle will arrive between 21:00 – 21:05 and leave immediately so please be sure to be at the post before 21:00pm

FALLS VIEW HILTON H	PAGE 1 OF 5				
	Program & Speaker info - Available at				
Time	Venue	Day 1 - October 18 Event		YAPP APP (FSEP 2023)	
7:00 - 12:00 #1-1	REGISTRATION LEVEL E - FOYER	Registered Attendee Check-in Open (Sharon Cronk) (Collect name tags sponsored by EPM Inc and conference bag sponsored by OPG)			
07:00-07:45 (45 Min) #1-2	BREAKFAST BRASA TERRACE	Delegate Breakfast (includes all) (Pre-job opportunity for Technical Presenters and Session Chairs - Amer Al Merabi)			
08:00 - 08:25 (25 Min) #1-3		Welcome by Co-Chairs Ru Intro of FSEP 2023 con Mor Introduction of			
08:25 - 08:47 (22 Min) #1-4	PLENARY PROGRAM	Peter Elder Vice-President and Chief Science Officer Canadian Nuclear Safety Commission (CNSC)	Land Acknowledgement & Opening Remarks (20 Min)		
08:47 - 08:50 (3 Min) #1-5	ANGEL + NIAGARA FALLS	Introduction of Key Note Speaker by Platinum and Gold Sponsors - Bruce Power and PLC (3 Min)	Bruce Power Innovation at work	FIRE SAFETY ENGINEERING	
08:50- 09:50 (60 Min) #1-6		Key Note Speaker - Andy Owen Vice President, Emergency Services and Training Ontario Power Generation, Canada	ONTARIOPOWER GENERATION Conference Bag & Students Sponsor	Key Note Speech, Operational Focus (50 Minutes + 10 min Q&A)	
09:50– 10:15 (25 Min) #1-7	VICTORIA FALLS	Break			
10:15 – 11:00 (45 Min) #1-8	PLENARY PROGRAM	Dr. Marina Röwekamp Senior Chief Expert & Head Federal German nuclear Technical Safety Organization, Germany	International Operating Experience With Fire Events in Nuclear Power Plants and Lessons Learned (35 Min + 10 Min Q&A)		
11:00- 11:45 (45 Min) #1-9	ANGEL + NIAGARA FALLS	Dr. James A. Milke, P.E Professor and Chair, Department of Fire Protection Engineering (Retired) University of Maryland, USA	Design Fire and Material Performance Database Project (35 Min + 10 Min Q&A)		
11:45 – 12:30 (45 Min) #1-10	LUNCH BRASA TERRACE	Lunch			
11:45 – 13:00 (75 Min) #1-11	TRADE SHOW VICTORIA FALLS	TAPREPORT MIRI		EPP See See Bally Lab Bull Links Stinghouse San Canada	
13:00 -13:45 (45 Min) #1-12	PLENARY PROGRAM	Derek Mullin Superintendent, Safety Analysis New Brunswick Power, Canada		cy Planning Activities in New Brunswick in + 10 Min Q & A)	
13:45 - 14:30 (45 Min) #1-13	ANGEL + NIAGARA FALLS	Dr. Abderrazzaq (Zaq) Bounagui Director (Act), Engineering Assessment Design Div Canadian Nuclear Safety Commission	Fire Safety Assessment Principles for Advanced Reactors (35 Min + 10 Min Q & A)		
14:30 - 14:45 (15Min) #1-14	BREAK VICTORIA FALLS	Break / Travel to Break-out Rooms for Technical Presentations - 3 concurrent sessions. Each presentations are 20 Min + 5 Min Q&A TECHNICAL SESSIONS Begin AT 14:45 - TRAVEL TO ROOMS: LAKE HURON, MICHIGAN OR ERIE			

14:30 - 14:45	FALLS VIEW HILTON HOTEL , NIAGAKA FALLS, CANADA				PAGE 2 OF 5
(15Min) #1-14	BREAK VICTORIA FALLS	Break / Travel to Break-out Rooms for Technical Presentations - 3 concurrent sessions. Each presentation 20 min + 5 Min Q&A			
#1-15			TECHNICAL SESSIONS BEGIN AT 14:45 - TRAVEL TO ROOMS: LAKE HURON, MICHIGAN OR ERIE		
14:45 - 15:12	TECHNICAL PRESENTATIONS A1, A2, A3 (20 min + 5 min Q&A)	Lake Huron	Anca McGee	Ontario Power Generation	CSA N293:23, Fire protection for nuclear power plants – What has changed?
		Lake Michigan	Gary Gan (New)	Ontario Power Generation	OPEXs/Lessons Learned from Darlington Refurb Project — Aerosol fire suppression system design, installation and commissioning
		Lake Erie	INYOUNG Jeon	Korea Institute of Nuclear Safety	Post-Fukushima Safety Measures in the context of Radiological Protection during Severe Accidents
15:12 - 15:15 3 Min	Audience travel between rooms as needed				
	TECHNICAL PRESENTATIONS A4, A5, A6 (20 min + 5 min Q&A)	Lake Huron	James Blum	Engineering, Planning, & Management Inc. , US	50-Year Sprinkler Testing
15:15 - 15:42		Lake Michigan	Elizabeth Kleinsorg	Jensen Hughes Consulting Canada Ltd.	One-True Model to Reduce Operator / Original Equipment Manufacturer Fire Protection Costs
		Lake Erie	Taylor Kidd-Milne	Calian	Exercise Maritime Integration – Testing Canada's ability to respond a nuclear submarine accident
15:42 - 15:45 3 Min	Audience travel between rooms as needed				
	TECHNICAL PRESENTATIONS	Lake Huron	Cherie Zou, Vanessa Mitchell	CSA Group	CSA Group Nuclear Standards Program
15:45 - 16:12	TECHNICAL PRESENTATIONS A7, A8, A9 (20 min + 5 min Q&A)	Lake Michigan	Lindsay Ranger	Canadian Nuclear Laboratories	Fire Safety of Mass Timber Buildings
		Lake Erie	Patrick Ho	Kinectrics	Modernizing Current Emergency Management Frameworks to Reflect New Small Modular Reactor (SMR) Technologies
16:12 - 16:15 3 Min	Audience travel between rooms as needed				
	TECHNICAL PRESENTATIONS A10, A11, A12 (20 min + 5 min Q&A)	Lake Huron	Dominic Esposito, Cherie Zou	Jensen Hughes and Canadian Standards Association	Changes to CSA N393:22 New Edition, Fire protection for facilities that process, handle, or store nuclear substances
16:15 - 16:42		Lake Michigan	Steven Prescott Mark Schairer	-Idaho National Lab, USA -EPM Inc	A Pilot Study of using Fire Risk Investigation in 3D (FRI3D) Software for Performing Fire Analysis of Plant Modifications
		Lake Erie	(Repeat of A1) Anca McGee	Ontario Power Generation	CSA N293:23, Fire protection for nuclear power plants – What has changed?
16:42 - 16:45 3 Min	Audience travel between rooms as needed				
	TECHNICAL PRESENTATIONS A13, A14, A15 (20 min + 5 min Q&A)	Lake Huron	James Eduful Abderrazzaq Bounagui	Canadian Nuclear Safety Commission	Fire Protection Regulations for Advanced Reactors - A Study of Canada and the United States.
16:45 - 17:12		Lake Michigan	Nicole Ruehle	Westinghouse Electric Company	Fire Protection System Equipment Obsolescence and Upgrades
		Lake Erie	Lovell Gilbert Mark Sparan	Bruce Power and Canadian Standards Association	Recent and Planned Updates to CSA N1600, General Requirements for Nuclear Emergency Management Programs
17:15 - 19:00 (1 Hr. 45 Min)	TRADE SHOW	FOYER: DISPLAY OF PROMOTIONAL MATERIALS BY CNL, CNS, CSA (WATERLOO, CARLETON, SENECA, CONESTOGA)			distributes GROUP (F)
#1-16	VICTORIA FALLS	TRADE SHOW	oratoires Nucléaires		
					Scholarship sponsored by:
18:45 - 19:00 (15 Min) #1-17	LAKE HURON, MICHIGAN + ERIE	Chance to win \$1	POSTERS FOR JUDGING. 000 scholarship for winner and \$200 gift car	d for runner-up	ONTARIO POWER GENERATION
19:00 - 20:30 #1-18	LAKE HURON, MICHIGAN + ERIE	(Students may of		t Poster Presentation & Cheese Reception	&

AGENDA CNS - FSEP 2023 / 4th International Conference on Fire Safety & Emergency Preparedness

Day 2 - October 19

7:00 - 7:45 #2-1	Venue Event Check-in Desk Open (Sharon Cronk) REGISTRATION LEVEL E - FOYER (Collect name tags sponsored by EPM Inc and conference bag sponsored by OPG)				
07:00 - 07:45 (45 Min) #2-2		Delegate Breakfast (includes all) (Pre-job opportunity for Technical Presenters and Session Chairs - Amer Al Merabi)			
7:10-7:20 (2 X 5 Min)	BREAKFAST	Introduction of SILVER SPONSORS: Mark Peters, Director, Westinghouse Elizabeth Kleinsorg, Senior Vice President, Jensen Hughes SILVER SPONSORS (2 X 5 Min) Westinghouse JENSEN HUGHES			
7:20 -7:35 (3 X 5 Min)	NIAGARA + ANGEL FALLS (Served in VICTORIA FALLS)	Introduction of Companies - BRONZE SPONSORS: Cindy Leber, President, Building Reports Canada Paul Amendola, Co-founder, Tap Report Scott Brian Worden - Fire Chief, Point Lepreau Nuclear Generating Station	BRONZE SPONSORS (3 X 5 Min) TAPREPORT Énergie NB Power		
7:35 - 7:45 (2 X 5 Min)		Introduction of BREAKFAST SPONSORS: Cherie Zou & Mark Sparano, Canadian Standards Association Loïc Gauliard, Daniel McCormick, Paradigm Dry Flo Services	BREAKFAST SPONSORS (2 X 5 Min)		
07:50 – 08:00 (10 Min) #2-3		Morning Brief - Don Trylinski			
08:00- 08:10 (10 Min)		Jennifer Edey	Bruce Power Introduction of Platinum sponsor Innovation at work (10 Min)		
08:10- 08:55 (45 Min) #2-4	PLENARY PROGRAM NIAGARA + ANGEL	Senior Vice President, Operational Services & Business Development Bruce Power, Canada	Bruce Power's Social Responsibilities (35 Min + 10 Min Q&A)		
08:55- 09:05 (10 Min)	FALLS	Grant Roach P. Eng. Regional Director, Principal Engineer PLC Fire Safety Engineering, Canada	INTRODUCTION OF GOLD SPONSOR FIRE SAFETY ENGINEERING (10 Min)		
09:05-09:50 (45 Min) #2-5			Insights from a Fire Protection Engineer (35 Min + 10 Min Q&A)		
09:50 – 10:05 (15 Min) #2-5	VICTORIA FALLS	Break			
10:05 - 10:50 (45 Min) #2-6	PLENARY PROGRAM	Roger Shepard Manager New Brunswick Emergency Measures Organization, Canada	Point Lepreau Nuclear Generating Station (PLNGS) Off-site Emergency Plan (35 Min + 10 Min Q&A)		
10:50 - 11:35 (45 Min) #2-7	NIAGARA + ANGEL FALLS	Gary McIntosh Area Lead WANO Paris Center, France	Fire Safety Management Arrangements – A Presentation from WANO Paris Center (35 Min + 10 Min Q&A)		
11:35 – 12:00 (25 Min) #2-8	TRADE SHOW VICTORIA FALLS	TAPREPORT MIR TAPREPORT AIMLITE DRY FLO	Λ		
12:00 – 12:45 (45 Min) #2-9	LUNCH BRASA TERRACE	Lunch			
12:45 - 13:30 #2-10	PLENARY PROGRAM	Jeff Steven (Div Manager) & Steve Shute (Dept Manager) supported by Dave Teeple (Section Manager) Emergency Protective Services Bruce Power, Canada	Emergency Management & Live Fire Training at Bruce Power (35 Min \pm 10 Min Q & A)		
13:30 - 14:15 #2-11	GREAT FALLS BALL ROOM	Richard Tennant Director, Emergency Services Canadian Nuclear Safety Commission (CNSC)	Update on the Regulatory Landscape of Emergency Management and Fire Response (35 Min + 10 Min Q $\&$ A)		
14:15 - 14:30 (15 Min) #2-12	VICTORIA FALLS	Break			
14:25 - 14:30 #2-13	TECHNICAL SESSIONS BEGIN - TRAVEL TO ROOMS: LAKE HURON, MICHIGAN OR ERIE				

Time	Venue	Event			PAGE 4 Ur 5
14:30 - 15:27	TECHNICAL PRESENTATIONS B16, B17, B18 (20 min + 5 min Q&A)	Lake Huron	Loïc Gauliard, Daniel McCormick	Paradigm Group	Eliminating the Need for Water-Based Deluge Testing of Fire Suppression Systems Using Digital Dry-Flo Technology.
		Lake Michigan	Mike Clouthier	Xtralis By Honeywell	Advanced Smoke Detection in Power Generation Applications
		Lake Erie	Regan Geertsma (New)	Bruce Power	Creating an on-call Emergency Response Organization
15:27 - 15:30 3 Min	Audience travel between rooms as needed				
	TECHNICAL PRESENTATIONS	Lake Huron	Grant Roach	PLC Fire Safety Engineering	Fire Protection Water Supplies for Permanently Shut down Nuclear Power Plants
15:00 - 15:27	B19, B20, B21 (20 min + 5 min Q&A)	Lake Michigan	Amer Al Merabi	Jensen Hughes Consulting Canada Ltd.	Innovation of Fire Protection with Small Modular Reactors
		Lake Erie	Scott Preston	Ontario Power Generation	Building a culture of innovation in a mature Emergency Preparedness program
15:27 - 15:30 3 Min	Audience travel between rooms as needed				
		Lake Huron	Mohamed Mushantat	PLC Fire Safety Engineering	Application of Gaseous Fire Extinguishing Agents
15:30 - 15:57	TECHNICAL PRESENTATIONS B22, B23, B24 (20 min + 5 min Q&A)	Lake Michigan	Khaled Joober	AtkinsRealis	Implementation Feasibility of NUREG-2262 "High Energy Arcing Fault Frequency and Consequence Modeling" to CANDU NUCLEAP Power Plant Probabilistic Safety Assessments: Potential Gains and Challenges
		Lake Erie	(Repeat of A7) Cherie Zou	CSA Group	CSA Group Nuclear Standards Program
15:57 - 16:00 3 Min	Audience travel between rooms as needed				
3 Willi	TECHNICAL PRESENTATIONS B25, B26, B27 (20 min + 5 min Q&A)	Lake Huron	Connie Melidy	Westinghouse Electric Company	A Review of Video Imaging Detection Technology and Operating Experience in Canadian Facilities
16:00 - 16:27		Lake Michigan	(Repeat of A13 - to be confirmed. See YAPP for up to date information) James Eduful , Abderrazzaq Bounagui	Canadian Nuclear Safety Commission	Fire Protection Regulations for Advanced Reactors - A Study of Canada and the United States.
		Lake Erie	Ann Turney	Canadian Nuclear Laboratories	"Ontario Hazard Identification and Risk Assessment (HIRA) as a Planning Basis, Pros & Cons"
16: 27 - 16: 30 3 Min	Audience travel between rooms as needed				
	TECHNICAL PRESENTATIONS B28, B29, B30 (20 min + 5 min Q&A)	Lake Huron	Amer Al Merabi	Jensen Hughes Consulting Canada Ltd.	Revisiting the Concept of Fire Protection Programs
16:30 - 16:57		Lake Michigan	Sylvain SUARD, Philippe March	IRSN, France	FAIR: A new OECD/NEA research project on fire hazards as a follow-up to the PRISME programs
16:57 - 17:00		Lake Erie	Omar El-Fitiany	Westinghouse Electric Company	Toxicity of Fire Extinguishing Agents and Retardants and pending/enacted environmental bans
3 Min	Audience travel between rooms as needed				
	TECHNICAL PRESENTATIONS B31, B32, B33 (20 min + 5 min Q&A)	Lake Huron	Aaron Lee	AtkinsRealis	CAN/ULC-S1001 Understanding the Standard (Standard for Integrated System Testing)
17:00 - 17:27		Lake Michigan	Liama Kuriena Markus Bielmann (New)	ANVS OECD/NEA	Recent Enhancements and Extensions of the OECD Nuclear Energy Agency FIRE Database
		Lake Erie	(Repeat of A15 - to be confirmed. See YAPP for up to date information) Lovell Gilbert, Mark Sparano	Bruce Power and Canadian Standards Association	Recent and Planned Updates to CSA N1600, General Requirements for Nuclear Emergency Management Programs
17:30 - 19:00 (1 Hr. 30 Min) #2-14	FOYER & VICTORIA FALLS	NETWORK / TRADE SHOW / FOYER DISPLAYS			
19:00 - 21:00 (2 Hr) #2-15	BRASA RESTAURANT	Banquet			

AGENDA CNS - FSEP 2023 / 4th International Conference on Fire Safety & Emergency Preparedness





Time	Venue	Event		
07:15 - 08:00 (45 Min) #3-1	BRASA TERRACE	Delegate Breakfast (includes all) (Head Table seating for a delegate from Sponsors)		
08:15- 08:30 (15 Min) #3-2		Morning Brief - Don Trylinski		
08:30 - 09:15 #3-3	PLENARY PROGRAM NIAGARA + ANGEL FALLS	Dr Diego Fernandez Lisbona Principal Inspector and ONR's acting Professional Lead for Internal Hazards and Site Safety Office of Nuclear Regulation, UK	Fire Safety Regulation on Great Britain Nuclear Sites (35 Min + 10 Min Q&A)	
09:15 - 10:00 (45 Min) #3-4		Dr. Koji SHIRAI Eng., Distinguished Research Scientist Nuclear Risk Research Center (NRRC) Japan	Development of an evaluation method for predicting zone of influence (ZOI) induced by high energy arcing fault (HEAF) (35 Min + 10 Min Q&A)	
10:00 – 10:15 (15 Min) #3-5	VICTORIA FALLS	Break		
10:15 – 11:00 (45 Min) #3-6	PLENARY PROGRAM	Dr. Sylvain Suard Head, Fire Experimental Lab. IRSN France	Main outcomes of the OECD/NEA PRISME 3 Project (35 Min + 10 Min Q&A)	
11:00 – 11:45 (45 Min) #3-7	NIAGARA + ANGEL FALLS	Lovell Gilbert Deterministic Safety Analysis Manager Bruce Power, Canada	Canadian Emergency Mitigating Equipment (EME) Strategy (35 Min + 10 Min Q&A)	
11:45 – 13:00 (75 Min) #3-8	LUNCH / TRADE SHOW NIAGARA + ANGEL FALLS (Served in VICTORIA FALLS)	TAPREPORT MIRION TAPREPORT MIRION AIMLITE DRY FLO JENSEN HUGHES	CETAULIC PEPM SEE BUILDING B	
13:00 – 13:30 (30 Min) #3-9	NIAGARA + ANGEL FALLS	Conference Close-out	Check out pictures and details at YAPP APP SCAN QR Code	
13:45 - 15:00 #3-10	VICTORIA FALLS	Vendor booth tear down and clean up		
15:00 - 15:15 #3-11 (only for pre- registered air travelers)	HOTEL LOBBY	Shuttle to Toronto Pierson Airport for pre-registered delegates (contact walter.hew@OPG.com by 05	RecockTrave	