



20-Aug-2025, Room SCI-1140, Ontario Tech University

General Chair: Dr. Hossam A.Gabbar, Ontario Tech University

General Co-Chair: Dr. Blair P. Bromley (Nuclear Engineering Scientist), Division Co-Chair – Canadian Nuclear Society – Fusion Energy and Accelerator Science and Technology Division (CNS-FEASTD)

Join Zoom Meeting

https://ontariotechu.zoom.us/j/91563613061?pwd=zLafohr6fjHX0AGYlOFmvHDCW4l6dN.1

Meeting ID: 915 6361 3061, Passcode: 300960

Join instructions

https://ontariotechu.zoom.us/meetings/91563613061/invitations? signature = MdQIHDLfvr4Rm6TRliRX6ZmqQSVw2Qsl29C594SYQKs. And the state of the state

Program Details

10:00	SPANS Founder and General Chair	Hossam A.Gabbar, Ontario
Opening		Tech University, Canada
10:10	Advances in Plasma-Based Radioactive Waste	Hossam A.Gabbar, Ontario
Keynote 1	Treatment	Tech University, Canada
10:30	Lives on the Edge: the Risky Daily Existence of	Lodovico Ratti, University of
Keynote 2	Radiation Instrumentation	Pavia, Italy
10:50	Perspectives of Small Modular Advanced	George Xu, CNL, Canada
Keynote 3	Reactor Used Fuel Management in Canada	
11:10	Confidence Boxes for the Fault Tree Analysis of	Adolphus Lye, National
Invited	Nuclear Reactor Systems under Uncertainty	University of Singapore,
Talk		Singapore
11:30	Investigation of Zero-Oil Pyrolysis for Low-	Mustafa Mansour, Ontario
P1	and Intermediate-Level Nuclear Waste using	Tech University, Canada
	TGA and GC-MS	
11:45	Integrated optimization framework for plasma-	Roman Stetsiuk, Ontario Tech
P2	based radioactive waste treatment process	University, Canada
12:00	Shielding Design and Simulation for Plasma-	Joao Pedro Nicolodi
P3	Based Radioactive Waste Treatment	Zimmermann, Ontario Tech
		University, Canada
12:15	Lunch	
13:15	Direct plasma potential measurements in the	J. Talbot-Pâquet (1), C. Xiao
P4	STOR-M tokamak using a Ball-Pen probe	(2), J. Morelli (1), 1:
		Department of Physics,

		Engineering Physics &
		Astronomy, Queen's
		University
		2: Plasma Physics
		Laboratory, University of
		Saskatchewan, Canada
13:30	Two-color Heterodyne Interferometry for Line-	Dan Solano, J. Morelli,
P5	Averaged Plasma Density Measurements at	Queen's University, Canada
	General Fusion	
13:45	Tokamak Plasma Confinement with Nonlinear	Oreoluwa Ajayi, Ontario Tech
P6	MPC	University, Canada
14:00	Safe Design of Plasma Confinement Systems	Oreoluwa Ajayi, Filippo
P7	using Systems Theoretic Process Analysis	Genco, Hossam A.Gabbar,
		Ontario Tech University,
		Canada
14:15	Demonstration of Digital Control Room with	Caren Eissa
P8	Human Performance Considerations	Yasir Adallah
		Nathanael Selvaraj
		Isaac Smith
		Samir Nabha
		Arzika Khan, Ontario Tech
		University, Canada
14:35	Demonstration of Resilient Micro Grid for	Similayo Ogundare
P9	Harsh Environment and Remote Communities	Manir Isham
	Traisii Environment and Remote Communities	Srivatsan Chakravarthi,
		Roman Stetsiuk
		Emmanuel Ita, Ontario Tech
14.55	Demonstration of Nuclear Demonstration 11	University, Canada Jennifer Jaen
14:55	Demonstration of Nuclear-Renewable Hybrid	
P10	Energy Systems for Regional Planning and	Emmanuel Ita
	Deployments	Natnael Kebere, Ontario Tech
15.15	D (D)	University, Canada
15:15	Demonstration of Resilient Interconnected	Emmanuel Ita, Ontario Tech
P11	Energy Infrastructures	University, Canada
15:30	Demonstration of a Thermoelectric-Integrated	John Whetham, Hao Wang,
P12	Furnace for Residential Power Generation	Mustafa Mansour, Ontario
		Tech University, Canada
15:50		Hossam A.Gabbar, Ontario
Closing		Tech University, Canada