

Workshop on Plasma Simulation and Diagnostics

Sponsored by IEEE Toronto Section - NPSS Chapter

Chair: Dr. Hossam A.Gabbar, UOIT

22-Apr-2015, Time: 1-5pm, Room (UA3130)

2000 Simcoe Street North, Oshawa, L1H7K4 ON

The workshop will provide forum to discuss advances in plasma simulation, experimentations, and diagnostics, and applications on clean & fusion energy technologies.

Speakers from Academia, Industry, and Students are encouraged to join.

For registration, please contact: Dr. Sayf Elgriw (Email: Sayf.GamudiElgriw@uoit.ca), Tel: 905-809-2560

**Workshop on Plasma Simulation and Diagnostics –
UOIT, Ontario, Canada**

22-Apr-2015, Time: 1:00pm to 5:00pm, Room (UA3130)

Speaker's Name	Time	Title
Dr. Hossam A.Gabbar, Professor, UOIT	1:00pm - 1:20pm	Plasma Simulation & Experimentation Research at ESCL-UOIT
Dr. Henry Xianjun Zheng, Chief Scientist, HOPE Innovations Inc.	1:20pm - 1:45pm	HOPE Innovations' Fusion Concept - Theory and Simulation
Dr. Toshiki Takahashi, Gunma University - Japan	1:45pm - 2:10pm	Plasma Simulation Project at Gunma University, and Fusion Research in Japan
Dr. Sayf Elgriw, Postdoctoral Fellow, UOIT	2:10pm - 2:30pm	MHD Analyses and Numerical Simulations of Four Intersecting Plasma Beams
Break	2:30pm - 3:00pm	
Daniel Bondarenko, MSc Student, UOIT	3:00pm– 3:15pm	Plasma MHD Simulations Using ELMER Multi-Physics Manual with Background Theory
Luping Zhang, MSc Student, UOIT	3:15pm - 3:30pm	Calculation of the D-D Fusion Reaction Important Parameters Using MCNP
Pranavan Sambavalingam, Undergraduate Student, UOIT	3:30pm - 3:45pm	Implementing the Design of a Miniaturized Thomson Scattering Device to Measure the Temperature and Density of Electrons in Plasma
Ravi Patel, Undergraduate student, UOIT	3:45pm– 4:00pm	Numerical Simulation of Thomson Scattering Spectrum with UOIT setup
Anas Abdelrihem, Undergraduate Student, UOIT	4:00pm-4:15pm	Theoretical Innovation for Waste-to-Energy Plasma Gasification
Open Discussions		
Dr. Hossam A.Gabbar – Closing		



