

## 9<sup>th</sup> EGYPlasma School

Port Said, Egypt on 2–5 March 2024



Prof. Dr. Waleed Moslem  
The British University in Egypt  
Port Said University

Prof. Dr. Amr El-Zant  
The British University in Egypt

2 March 2024		
Saturday   Opening and Introduction		
Time	Title	Speaker
12:00 – 02:00	Registration and check-in rooms	
02:00 – 03:30	Lunch	
05:00 – 05:30	Opening	Waleed Moslem
05:30 – 06:30	Introduction to plasma physics	Ibrahim Elkamash
06:30 – 08:30	Ice breaking	EGYPlasma Team
08:30 – 9:30	Dinner	
3 March 2024		
Sunday   Fundamentals of Plasma Physics & Plasma Applications		
07:00 – 09:00	Breakfast	
09:00 – 10:00	From nature to plasma physics	Waleed Moslem
10:00 – 11:00	Introduction to plasma models	Ibrahim Elkamash
11:00 – 12:00	Low temperature plasma and its applications	Mohamed Shihab
12:00 – 12:30	Coffee break	
12:30 – 01:30	Physics between the beauty of experimentation and the magnificence of ideas	Mohsen Zahran
01:30 – 02:30	On the self-similar approach to solve differential equations	Mourad Djebli
02:30 – 03:00	Difference between the plasma in the tokamak, stellarator, and reversed field pinsh (I)	Azza Talab
03:00 – 05:00	Lunch	
05:00 – 05:30	Difference between the plasma in the tokamak, stellarator, and reversed field pinsh (II)	Azza Talab
05:30 – 07:30	Unlock plasma surprises	Azza Talab
08:30 – 09:30	Dinner	

4 March 2024	Monday   Fundamentals of Plasma Physics & Plasma Applications	
07:00 – 09:00	Breakfast	
09:00 – 10:00	Plasma in the earth's ionosphere	Mourad Dejebli
10:00 – 11:00	Quantum plasma	Mohamed Shihab
11:00 – 12:00	Rogue waves from optics and oceanography to plasma physics	Ibrahim Elkamash
12:00 – 12:30	Coffee break	
12:30 – 01:30	Dense plasma focus and its applications	Mohamed Ismaiel
01:30 – 02:30	Turbulence, with applications to gas in galaxies	Amr El-Zant
02:30 – 03:00	Plasma regimes and plasma approximations (I)	Waleed Moslem
03:00 – 05:00	Lunch	
05:00 – 05:30	Plasma regimes and plasma approximations (II)	Waleed Moslem
05:30 – 07:30	Group work	EGYPlasma Team
08:30 – 09:30	Dinner	
5 March 2024	Tuesday   The 6 <sup>th</sup> One Day Plasma Conference	
07:00 – 09:00	Breakfast	
09:00 – 09:30	Deposition of metallic thin films via DC and RF discharges	Sara Mohamed
09:30 – 10:00	The excited electronic states of ionospheric molecular nitrogen	Cirta Tanssaout
10:00 – 10:30	Degradation of some bacteria colonies using low temperature plasma	Sama Salah
10:30 – 11:00	Solar wind effect on the ionic escaping from Titan ionosphere via plasma wakefield	Nora Elshafey
11:00 – 11:30	DFT calculations of ferreits	Esraa Khedr
11:30 – 12:00	Plasma textile treatment: an introduction	Alaa Alashry
12:00 – 12:30	Coffee break	
12:30 – 01:00	The effect of Enceladus's space debris on DAWs in Saturn's E ring in the presence of suprathermal particles	Ibrahim Ezzat

01:00 – 01:30	Kinetic and fluid simulation of soliton like structures in plasma jets	Aya Albadawy
01:30 – 02:00	Degradation of pharmaceutical materials via low temperature plasma	Yara Saad
02:00 – 02:30	On the propagation of electrostatic nonlinear 3D ion-acoustic waves in the ionospheric plasma of Venus	Belal Farouk
02:30 – 03:00	Ion-acoustic waves in magnetized plasma in the ionosphere of Venus: nonlinear phenomena	Aya Elmandoh
03:00 – 05:00	Lunch	
05:00 – 06:00	Advice on how to get ready for a fellowship	Ahmed Abdelkader & Mohamed Gamal
06:00 – 06:15	The prize for the best teamwork and talks	Waleed Moslem
06:15 – 07:00	Finding an idea for your MSc or PhD and writing a research paper	EGYPlasma group
07:00 – 07:00	Closing	

