

8th EGYPlasma School

Port Said, Egypt on 4–7 March 2023



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

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

4 March 2023		
Saturday Opening and Introduction		
Time	Title	Speaker
12:00 – 02:00	Registration and check-in rooms	
02:00 – 03:30	Lunch	
03:30 – 04:00	Opening	Waleed Moslem
04:00 – 05:00	Introduction to plasma physics	Ibraheem Elkamash
05:00 – 07:00	Ice breaking	EGYPlasma Team
08:00 – 09:00	Dinner	
5 March 2023		
Sunday Fundamentals of Plasma Physics & Plasma Applications		
07:00 – 09:00	Breakfast	
09:00 – 10:00	Observation of electrostatic waves in plasma	Mahmoud Afify
10:00 – 11:00	Plasma models	Ibraheem Elkamash
11:00 – 12:00	Plasma Drilling: introduction and modeling	Mohamed Ezzat
12:00 – 12:30	Coffee break	
12:30 – 01:30	Plasma for surface functionalization	Shrouk Elashry
01:30 – 02:30	Introduction to technical plasma: theoretical side	Mohamed Shihab
02:30 – 03:30	Surface waves and quantum plasma	Bahaa Mohamed
03:30 – 05:00	Lunch	
05:00 – 06:00	Plasma in life	Azza Talab
06:00 – 07:00	Group work	Azza Talab
09:00 – 10:00	Dinner	
6 March 2023		
Monday Fundamentals of Plasma Physics & Plasma Applications		
07:00 – 09:00	Breakfast	
09:00 – 10:00	Introduction to technical plasma: experimental side	Mohamed Shihab

10:00 – 11:00	Plasma Drilling (PPGD) under High Pressure and Temperature	Mohamed Ezzat
11:00 – 12:00	Wave packet and dispersion	Ibraheem Elkamash
12:00 – 12:30	Coffee break	
12:30 – 01:30	Planetary space plasma	Samy Salem
01:30 – 02:30	Plasma regimes and plasma approximations (I)	Waleed Moslem
02:30 – 03:30	Galaxy formation in a cosmological context	Amr El-Zant
03:30 – 05:00	Lunch	
05:00 – 07:00	Group work	EGYPlasma Team
09:00 – 10:00	Dinner	

7 March 2023	Tuesday The 5 th One Day Plasma Conference	
07:00 – 09:00	Breakfast	
09:00 – 10:00	Plasma regimes and plasma approximations (II)	Waleed Moslem
10:00 – 10:30	Linear analysis of electrostatic waves in the Earth's magnetopause	Atef Bassyouni
10:30 – 11:00	Microwave plasma-induced changes in optical properties of PVA films	Huda Yakout
11:00 – 11:30	Observational study of double layers in Mars	Eslam Sultan
11:30 – 12:00	Detection of Magnetosonic waves in Mars	Ahmed Abdelkader
12:00 – 12:30	Coffee break	
12:30 – 01:00	On the study of wave-particle interaction effects in opposite polarity dusty plasmas discharge	Gehad Hany
01:00 – 01:30	Dynamical properties of DAWs in space plasma and its application in image encryption	Ahmed Wagdy
01:30 – 02:00	Non neutral plasma discharges: existence of soliton structures	Aya Elbadawy
02:00 – 02:30	The effect of plasma on water microorganisms	Samaa Salah
02:30 – 03:00	Plasma electrical models and water distalization	Yara Saad
03:00 – 03:30	Potentials of a moving test charge during the solar wind interaction with dusty magnetosphere of Jupiter	Khaled Elzend

03:30 – 05:00	Lunch	
05:00 – 06:00	How to prepare yourself for a fellowship	EGYPlasma Team
06:00 – 06:15	The best group works and presentations awards	EGYPlasma group
06:15 – 07:30	How to think an idea for your MSc & PhD and how to write a research paper	EGYPlasma group
07:30 – 07:30	Closing	

