



IMAS 2023

1st IEEE International Microwaves & Antennas Symposium 7-9 February 2023 GUC, Cairo, Egypt. IEEE Conf. # 55807.



NSF WORKSHOPS – MONDAY, FEBRUARY 6TH, 2023

Time	Microwave Technology for Humanity Workshop Program
8:30 AM - 9:00 AM	Conference Check-in (Main Hall (C1.0))
9:00 AM – 9:20 AM	Opening Remarks (Main Hall (C1.0)) Prof. Samir El-Ghazaly et al.
9:20 AM – 12:40 PM	Workshop (1): Satellite and Space Communications (Main Hall (C1.0)) Prof. Aly Fathy Includes Coffee Break (Main Hall (C1.0): 10.40-11AM)
12:40 PM – 1:40 PM	Lunch Break (D1.0)
1:40 PM – 3:40 PM	Workshop (2): Recent Advances in Radars and Their Applications (Main Hall (C1.0)) Prof. John Papapolymerou
3:40 PM – 4:00 PM	Coffee Break (Main Hall (C1.0))
4:00 PM – 6:00 PM	Workshop (3): High-Power Microwave Technologies (Main Hall (C1.0)) Prof. Ayman El-Tager
	End of the DAY

The Workshop Organizers:

Prof. Samir El-Ghazaly (University of Arkansas)

Ms Sara Ghayouraneh (University of Arkansas)





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NSF WORKSHOPS – TUESDAY, FEBRUARY 7TH, 2023

Time	Microwave Technology for Humanity Workshop Program (Cont.)
01:00 PM – 2:00 PM	Lunch Break (D1.0)
02:00 PM – 3:40 PM	(Room T (H.11)) NSF Workshop (4): Technology for smart villages and smart cities in Africa Prof. Edward Rezek
03:40 PM – 4:00 PM	Coffee Break
04:00 PM – 5:40 PM	(Room T (H.11)) NSF Workshop (4) (Cont.): Technology for smart villages and smart cities in Africa Prof. Edward Rezek
	End of the DAY

The Workshop Organizers:

Prof. Samir El-Ghazaly (University of Arkansas)

Ms Sara Ghayouraneh (University of Arkansas)





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DAY 1 – TUESDAY, FEBRUARY 7TH, 2023

Time	Program		
8:30 AM-9:30 AM	Registration		
9:30 AM - 10:15 AM	Conference Opening (Main Hall (C1.0)) IMAS2023 Chairs, IEEE-MTT president, IEEE-APS president, and GUC president		
10:15 AM - 11:00 AM	Invited talk (Main Hall (C1.0)) Self-complementary and duality in Meta-surfaces Prof. Stefano Maci, IEEE-APS president, Italy Chairs: Prof. Ahmed El Mahdy and Prof. Hany Hammad		
11:00 AM - 11:30 AM	Coffee Break (Main Hall (C1.0))		
11:30 AM - 12:15 PM	Invited talk (Main Hall (C1.0)) Microwave and Millimeter-Wave Phase Change Material (PCM) Devices for Future Communication Systems Prof. Rafaat Mansour, University of Waterloo, CA Chair: Prof. Hadia El-Hennawy		
12:15 PM – 01:00 PM	Invited Talk (Main Hall (C1.0)) Microwave Water Cut Sensors for Oil Industry: From Design to Deployment in the Field Prof. Atif Shamim, KAUST, KSA Chair: Prof. Osman Lotfy		
01:00 PM – 2:00 PM	Lunch Break (D1.0)		
02:00 PM – 4:15 PM	Session (Room A:(H.08)) Advanced RF Techniques Chairs: Prof. Nuno Carvalho and Prof. Ayman El Tager	Session (Room B:(H.09)) Antenna Array Chairs: Prof. Stefano Maci and Prof. Marco Antonio Brasil Terada	Young Professionals (Main Hall (C1.0)) Panel Discussions & Meet up Chairs: Prof. George Shaker, Prof. Qammer Abbasi Dr. Minar El Aasser and Dr. Mohamed Saeed
	End of the DAY		

Young Professionals' Dinner





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DAY 2 – WEDNESDAY, FEBRUARY 8TH, 2023

Time	Program			
9:00 AM - 10:45 AM	IEEE AP-S SIGHT Panel Discussions (Main Hall (C1.0)) Prof. Y.M.M. Antar and Prof. Jawad Y. Siddiqui RMC, Canada			Special Session (Room T#(H.11)) Microwave Applications in Space Chairs: Prof. Samy Shedied EGSA, and Prof. Imran Mehdi, NASA, USA
10:45 AM -11:00 AM	Coffee Break (Main Hall (C1.0))			
11:00 Am - 11:45 AM	Invited Talk (Main Hall (C1.0)) A next wave of Wireless Communication is Here: How 6G will Evolve? Prof. Qammer Abbasi, University of Glasgow, UK Chairs: Prof. Mohamed Ashour and Prof. Sherif Kishk			Session (Room C#(H.10)) Reconfigurable Antennas Chairs: Prof. Ali Fathi and Prof. Hend Malhat
11:45 AM - 12:30 PM	Invited Talk (Main Hall (C1.0)) Health and Safety Aspects of Millimeter-wave Radiation in 5G and beyond Prof. Abbas Omar, University of Magdeburg, Germany Chairs: Prof. Ezz El din Soliman and Prof. Tallal El Shabrawy			
12:30 PM - 1:15 PM	Lunch Break (D1.0)			
01:15 PM - 3:15 PM	Session (Room A#(H.08)) RF Components Chairs: Prof. Waleed Khalil and Prof. Tamer Abou El Fadl	WIE Session 1 (Room B#(H.09)) Bridging The Gap between Industry and Academia Chairs: Dr. Bassant Abd El Hamid, Dr. Iman Azab, and Dr. Maggie Ezzat	Session (Room C#(H.10)) MIMO Antennas Chairs: Prof. Jawad Siddiqui and Prof. Amr Talaat	Special Session (Room T#(H.11)) EM for Biomedical Applications Chairs: Prof. Aly Fathy, UTK, USA and Prof. George Shaker, Waterloo, CA
01:30 PM - 3:30 PM	Young Professional Poster Session (C7.01) Chairs: Prof. Samir El Ghazaly, Prof. Raafat Mansour Prof. Aly Fathy, Dr. Yasmine Zaghloul, and Dr. Minar El Aasser			
03:15 PM - 3:30 PM	Coffee Break (Main Hall (C1.0))			
03:30 PM - 5:30 PM	Session (Room A#(H.08)) RF Transceivers Front-End Chairs: Prof. Imran Mehdi and Prof. Islam Eshrah	WIE Session 2 (Room B#(H.09)) Women in Microwave Engineering Chairs: Dr. Dalia Nashat and Dr. Angie El Damak	Session (Room C#(H.10)) Planar and Wearable Antennas Chairs: Prof. Hamdi El Mikati and Prof. Abbas Omar	Tutorial (Room T#(H.11)) AI Enabled Nanoscale Communication and Sensing at Terahertz for Future Healthcare Chairs : Prof. Said El Khamy and Prof. Qammer Abbasi, U. of Glasgow, UK
7 PM	Gala Dinner			





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DAY 3 – THURSDAY, FEBRUARY 9TH, 2023

Time	Program			
9:00 AM - 11:00 AM	Session (Room A:(H.08)) Wireless & Cellular Circuits Chairs: Prof. Samir El Ghazaly and Prof. Medhat Mokhtar	Session (Room B:(H.09)) RFID antennas and WPT Systems Chairs: Prof. Ibrahim Salem and Prof. Ahmed Kishk	Session (Room C:(H.10)) Measurements Chairs: Prof. Amr Safwat and Prof. Atif Shamim	Tutorial (Room T:(H.11)) Digital Pre-Distortion and Calibration for 5G Millimeter-Wave Active Phased Arrays Analog Devices Incorporation Chair : Prof. Abdelmegid Allam
11:00 AM -11:15 AM	Coffee Break (Main Hall (C1.0))			
11:15 AM - 12:00 PM	Invited Talk (Room A:(H.08)) Disaggregated Open Optical Transport Networks Prof. Hatem Abdelkader, MITRE Corporation, USA Chairs: Prof. Mahmoud Hanafi and Prof. Ahmed Hisham Morshed		Technical Lecture (Room B:(H.09)) MHz to mm-Wave WPT and Harvesting in Electromagnetically Harsh Environments using Large-Area Electronics Prof. Mahmoud Wagih, University of Glasgow, UK Chairs: Prof. Kamel Hassan and Prof. Hesham N. Ahmed	
12:00 PM - 2:00 PM	Session (Room A:(H.08)) Photonics, Sensors & THz Applications Chairs: Prof. Diaan Khalil and Prof. Hatem Abdelkader	Session (Room B:(H.09)) Propagation & related Topics Chairs: Prof. Ahmed M. Attiya and Prof. Mahmoud Wagih	Session (Room C:(H.10)) Non-planar Antennas Chairs: Prof. Raafat Mansour and Prof. Mahmoud Abdallah	Special Session (Room T:(H.11)) Reconfigurable intelligent surfaces for wireless communications Chairs: Prof. Afshin Daryoush, Drexel, USA, and Prof. Saber H. Zainud-Deen, EG
02:00 PM - 3:00 PM	Lunch Break (D1.0)			
3:00 PM- 3:45 PM	Invited talk (Main Hall (C1.0)) Backscatter Radios Prof. Nuno Carvalho, IEEE-MTT president, Portugal Chair: Prof. Esmat Abdallah			
3:45 PM- 5:00 PM	Closing Session (Main Hall (C1.0)) IMAS2023 Chairs Talk, Awards Distribution			
	End of the DAY			

