

**NSF WORKSHOP – MONDAY, OCTOBER 21<sup>ST</sup>, 2024 (1<sup>ST</sup> DAY OF WORKSHOP)**

Time		
8:30 AM - 9:00 AM	Workshop & Conference Check-in (Main Hall)	
9:00 AM – 9:30 AM	Opening Remarks (Room Atlas III) Prof. Samir El-Ghazaly et al.	
9:30 AM – 12:40 PM	Workshop 1: Advancements in Power Amplifier Design and High-Frequency Electronic Devices for Modern Communication Systems ((Room Atlas III) Includes Coffee Break (10:10 AM -10:30 AM) Ali Darwish, Hua Wang, Slim Boumaiza, Dimitris Pavlidis, Gamal Hegazi, Zacharia Ouairi, Telesphor Kamgaing	
12:40 PM – 1:40 PM	Lunch	
1:40 PM – 3:40 PM	Workshop 1 (continued)	Workshop 2 Satellite Communications (Room Atlas IV) Justin Stambaugh Ramesh Gupta, Goutam Chattopadhyay Tim Lee,
3:40 PM – 4:00 PM	Coffee Break (Main Hall)	
4:00 PM – 6:00 PM	Workshop 1 (continued)	Workshop 2 (continued)
	End of the DAY	

**The Workshop Organizers:**

Prof. Samir El-Ghazaly (University of Arkansas)

Prof. Aly Fathy (University of Tennessee, Knoxville)

Prof. Ali Darwish (Group Leader, U.S. Army Research Laboratory)

## DAY 1 – TUESDAY, OCT. 22<sup>ND</sup>, 2024

Time	Program				
8:30 AM-9:00 AM	Registration				
9:00 AM - 9:45 AM	<b>Conference Opening (Room Atlas III)</b> IMAS2024 Chairs, IEEE-MTTS president, IEEE-APS president				
9:45 AM - 10:30 AM	<b>Invited talk 1 : Novel Solutions for Microwave Sensors (Room Atlas III)</b> Prof. Maurizio Bozzi, IEEE-MTTS president, Italy				
10:30 AM - 11:00 AM	Coffee Break (Main Hall)				
11:00 AM - 11:45 AM	<b>Invited talk 2: Antennas and microwave computational and design methodologies and interdisciplinary applications (Room Atlas III)</b> Prof. Branislav M. Notaros IEEE-APS president, USA				
11:45 AM – 12:30 PM	<b>Invited Talk 3: Net ZERO Radio Communications Use of SWIPT for IoT applications (Room Atlas III)</b> Prof. Nuno Borges Carvalho University of Aveiro, Portugal				
12:30 PM – 1:30 PM	Lunch				
1:30 PM – 3:00 PM	<b>Session (Room Atlas IV)</b> Antennas and related Topics 1	<b>Session (Room Atlas II)</b> RF/Microwave Circuits and Systems 1	<b>Young Professionals (Room Atlas III)</b> Panel Discussions & Meet up	<b>Poster session1 (Main Hall)</b>	<b>MTT-S Chapter Chairs Meeting (Room Atlas I)</b>
3:00 AM – 3:30 AM	Coffee Break (Main Hall)				
3:30 PM – 5:00 PM	<b>Session (Room Atlas IV)</b> Antenna and related topics 2	<b>Session (Room Atlas II)</b> RF/Microwave Circuits and Systems 2	<b>Session (Room Atlas I)</b> Measurements	<b>Young Professionals Research Activities (Main Hall)</b>	<b>Tutorial 1</b> Design of Broadband Matching Networks and Microwave Amplifiers via Real Frequency Techniques (RFT)
5:00 PM – 5:40 PM	<b>Opportunities for Research Funding (Room Atlas II)</b>				

## DAY 2 – WEDNESDAY, OCT. 23<sup>RD</sup>, 2024

Time	Program			
9:00 AM - 9:45 AM	Invited talk 4 : NASA Technologies to Explore The Universe (Room Atlas III) Prof. Goutam Chattopadhyay, NASA's Jet Propulsion Laboratory (JPL), California Institute of Technology			Tutorial 2 Understanding Quantum Computing Prof. Abbas Omar (Room Atlas II)
9:45 AM - 10:30 AM	Invited Talk 5: Additive Manufacturing: Emerging Opportunities for Microwave Components (Room Atlas III) Prof. Cristiano Tomassoni, University of Perugia, Perugia, Italy			
10:30 AM -11:00 AM	Coffee Break			
11:00 Am - 11:45 AM	Invited Talk 6: UWB HOLOGRAPHIC ELECTROMAGNETIC IMAGING FROM MICROWAVES TO THZ (Room Atlas III) Prof. Luis Jofre-Roca, Technical University of Catalonia (UPC), Barcelona, Spain			Workshop 3 Quantum Computing Abbas Omar Raafat Mansour (Room Atlas II)
11:45 AM - 12:30 PM	Invited talk 7: Compact Circularly Polarized Stepped-Reflectarray for Broadband Enhancement (Room Atlas III) Prof. Ahmed A. Kishk Concordia University, Montréal, Québec, Canada			
12:30 PM - 1:15 PM	Lunch			
01:15 PM – 2:00 PM	Invited Talk 8: How to Bring 6G to Reality? (Room Atlas III) Prof. Qammer Abbasi, University of Glasgow, UK			Poster Session 2 (Main Hall)
02:00 PM – 3:30 PM	Workshop 4 (Room Atlas III) AI and GPR tools for landmine detection Prof. Yahia Antar & Prof. Jose Felix Vega	Session (Room Atlas II) RF/Microwave Circuits and Systems 3	WIE Panel Session (Atlas I) Moderator Prof. Aznabet & Prof. Olga Boric-Lubecke	Session (Room Atlas IV) propagation and related topics
03:30 PM - 3:50 PM	Coffee Break			
03:50 PM - 5:20 PM	Workshop 4 (Continued)	Session (Room Atlas II) RF/Microwave Circuits and Systems 3	IEEE AP-S SIGHT COPE Panel Session (Room Atlas I) Ajay Poddar, Yahia Antar, Jawad Siddiqui, Anisha M. Apte, M. Essaïdi	Session (Room Atlas IV) Antennas and related topics3
7 PM	Gala Dinner			

## DAY 3 – THURSDAY, OCT. 24<sup>TH</sup>, 2024

Time	Program		
9:00 AM - 9:45 AM	<b>Invited Talk 9: Flexible, Wearable, Disposable Wireless Communication and Sensing Systems Through Additive manufacturing</b> (Room Atlas III) Prof. Atif Shamim, KAUST, Saudia Arabia		
9:45 AM – 10:30 AM	<b>Invited Talk 10: THz Heterodyne Receivers: Challenges and Current Status</b> (Room Atlas III) Pr. Imran Mehdi Jet Propulsion Laboratory, California Institute of Technology		
10:30 AM -10:50 AM	Coffee Break		
10:50 AM - 12:20 AM	<b>Session (Room Atlas IV)</b> Antennas and related topics	<b>Workshop 5 (Room Atlas III)</b> Biomedical Applications Aly E. Fathy, Victor Lubecke, George Shaker, Rong Zheng	<b>Tutorial 3</b> How to Write a Paper for IEEE Journals and Navigate the Review Process Prof. George E. Ponchak (Room Atlas II)
12:20 AM – 1:40 PM	<b>Session (Room Atlas IV)</b> Antennas and related topics		
01:40 PM – 2:30 PM	Lunch		
2:30 PM- 3:15 PM	<b>Invited Talk 11:</b> <b>Key Technological Innovations for Next Generation (Terrestrial/ Submarine) Optical Transport Networks</b> (Room Atlas III) Prof. Hatem Abdelkader MITRE Corporation, USA		
3:15 PM- 4:30 PM	<b>Closing Session (Room Atlas III)</b> IMAS2024 Chairs Talk, Awards Distribution		
	End of the DAY		