



BWAC IAB MEETING

August 8-9, 2022

Venue: Jackson Avenue Center (JAC), University of Mississippi

Online Registration: bwac.arizona.edu

NOTE: TIMES SHOWN ARE BASED ON CENTRAL TIME (CT)

SUNDAY, AUG. 7

TIME		TITLE
6:00 PM	8:00 PM	Welcome Reception (Rafters on the Square)

MONDAY, AUG. 8 (JAC)

TIME		TITLE	PRESENTER
7:30 AM	8:00 AM	Registration & Breakfast	
8:00 AM	8:10 AM	Opening Remarks and Meeting Logistics	Ramanarayanan “Vish” Viswanathan , UM, Site Director
8:10 AM	9:00 AM	Updates from Center and Site Directors	Marwan Krunz , UA, Center Director, Ismail Guvenc , NC State, Hang Liu , CAU Vish Viswanathan , UM
9:00 AM	10:00 AM	Keynote 1: Radio Technology Evolution toward Beyond 5G and 6G	Charlie Zhang, Samsung
10:00 AM	10:15 AM	Coffee Break	
Projects Proposal– Session I, Chair: Ismail Guvenc (presenters’ names indicated with ‘*’)			
TIME		TITLE	INVESTIGATORS
10:15 AM	10:35 AM	Spectrum Sharing and Coexistence With Passive Devices Above 100 GHz	Sopan Sarkar*, Arush Sharma, and Marwan Krunz (UA)
10:35 AM	10:55 AM	Stochastic Modeling for Virtual Network Function Processing in small-cell based Open RAN	John Daigle* (UM)

10:55 AM	11:15 AM	New Algorithms and Fundamental Limits of Machine Learning Based Decoders	Sudarshan Adiga*, Ravi Tandon, and Tamal Bose (UA)
11:15 AM	11:35 AM	Reinforcement Learning for Efficient Resource Allocation in Cell-Free MIMO	Noel Teku*, Tamal Bose, and Ravi Tandon (UA)
11:35 AM	12:35 PM	Keynote 2: NOAA NESDIS - Active Spectrum Management with Passive RF Bands	Beau Backus, NOAA
12:35 PM	1:35 PM	Lunch Break	
Projects Proposal– Session II, Chair: Ramanarayanan “Vish” Viswanathan (presenter’s name indicated with ‘*’)			
TIME		TITLE	INVESTIGATORS
1:35 PM	1:55 PM	Metasurface Cloaks for Reduction of Mutual Coupling in Printed and Slotted Antennas and Antenna Arrays	Shefali Pawar* and Alexander Yakovlev (UMiss)
1:55 PM	2:15 PM	Widely Tunable Receivers and Filters for Next-Generation Communications	Jacob Dean*, Cody Ellington, and Brian Floyd (NCSU)
2:15 PM	2:35 PM	Game-Theoretic, Secure Resource Allocation for Integrated Satellite-Terrestrial Networks	Roghieh Mahdavi* and Alexandra Duel-Hallen (NCSU)
2:35 PM	2:55 PM	3D Media Compression, Delivery, and Interaction over Next-generation Wireless Networks	Vincent Cheng/Lin-Ching Chang*, Hang Liu, and Lin-Ching Chang (CUA)
2:55 PM	3:10 PM	Coffee Break	
Projects Proposal– Session III, Chair: Alexander Yakovlev (presenter’s name indicated with ‘*’)			
TIME		TITLE	INVESTIGATORS
3:10 PM	3:30 PM	Phase Prediction using Real-time Adaptive Machine Learning for Space Based Arrays	Sharif Khalil*, George Nehmetallah, Hang Liu, and Richard LaFontaine (CUA)
3:30 PM	3:50 PM	Stealthy Adversarial Attacks on Machine Learning Classifiers in Wireless Communications	Wenhan Zhang and Marwan Krunz* (UA)
3:50 PM	4:00 PM	Short Break	
4:00 PM	5:15 PM	Poster Session	
5:30 PM	7:00 PM	Dinner and Best Poster Awards	

TUESDAY, AUG. 9 (JAC)

8:00 AM	9:00 AM	Breakfast
9:00 AM	9:30 AM	BWAC-Future Plan (IAB members, BWAC directors, NSF Program Director, and BWAC faculty)
9:30 AM	10:30 AM	IAB Business Meeting (closed session)
10:30 AM	11:30 AM	IAB Technical Input on Presented Projects and Feedback to BWAC Leadership (IAB members, BWAC directors, NSF Program Director, and BWAC faculty)
11:30 AM	12:30 PM	Box Lunch and Adjourn