



# BWAC IAB MEETING

Nov 8-9, 2021

*Hybrid (in-person and Zoom)*

*Venue: Talley Student Union, NC State University*

**Online Registration:** [bwac.arizona.edu](http://bwac.arizona.edu)

**NOTE: TIMES SHOWN ARE BASED ON EASTERN STANDARD TIME (EST)**

## SUNDAY, NOV. 7

TIME		TITLE
6:00 PM	8:00 PM	Welcome Reception (StateView Hotel – Outdoor Patio)

## MONDAY, NOV. 8 (MOUNTAINS AND PIEDMONT BALLROOM)

TIME		TITLE	PRESENTER
9:00 AM	10:00 AM	Registration & Breakfast	
10:00 AM	10:10 AM	Opening Remarks and Meeting Logistics	<b>Marwan Krunz, UA</b> , Center Director & <b>Ismail Guvenc</b> , NCSU, Site Director
10:10 AM	10:20 AM	Welcome from NC State University	<b>Jon Horowitz</b> , Associate Vice Chancellor of Research Infrastructure and Development, NCSU
10:20 AM	10:40 AM	Center Updates	<b>Marwan Krunz, UA</b> , Center Director
10:40 AM	11:25 AM	<b>Keynote 1: “mmWave: Evolving Toward 5G-Advanced and Beyond”</b>	<b>Dr. Ozge Koymen</b> , Qualcomm Technologies
11:25 AM	11:35 PM	Coffee Break	
<b>Projects Update– Session I, Chair: Hang Liu, CUA (presenters’ names indicated with ‘*’)</b>			
TIME		TITLE	INVESTIGATORS
11:35 AM	11:50 AM	Edge-Assisted Cooperative Perception and Augmented Reality	Li-Tse Hsieh*, Cheng-Yu Cheng, Hang Liu*, and Marwan Krunz (CUA and UA)

11:50 AM	12:05 PM	Adaptive 3D Point Cloud Compression and Transmission	Mai Bui*, Lin-Ching Chang*, and Hang Liu (CUA)
12:05 PM	12:20 PM	Machine Learning Based Localization and Beamwidth Adaptation in Multi-BS Scenarios	Sopan Sarkar* and Marwan Krunz* (UA)
12:20 PM	12:35 PM	Multi-Modal Communications for Reliable UAV and UGV Connectivity ( <i>New Project Proposal</i> )	Anil Gurses, Mihail Sichitiu*, Ismail Guvenc, Brian Floyd (NCSU)
<b>12:35 PM</b>	<b>1:35 PM</b>	<b>Lunch Break</b>	
<b>1:35 PM</b>	<b>2:15 PM</b>	<b>Keynote 2: “Enabling 5G Innovation Through Use Case-Driven Collaboration”</b>	<b>Dr. Leila Z. Ribeiro,</b> Mitre Engenuity Open Generation
<b>Projects Updates– Session II, Chair: Ismail Guvenc, NCSU (presenter’s name indicated with ‘**’)</b>			
<b>TIME</b>		<b>TITLE</b>	<b>INVESTIGATORS</b>
2:15 PM	2:30 PM	Ongoing Investigation of 3D-Printing RF Devices	Bibek Kattel*, W. Elliott Hutchcraft, and Richard K. Gordon (UMiss)
2:30 PM	2:45 PM	Miniaturized GRIN Lenses Using 3D Printed Ceramics	Yongduk Oh* and Jacob Adams (NCSU)
2:45 PM	3:00 PM	Metasurface Cloaks for Reduction of Mutual Coupling in Printed and Slotted Antennas and Antenna Arrays	Shefali Pawar* and Alexander Yakovlev (UMiss)
3:00 PM	3:25 PM	Propagation Measurements and Modeling with Transparent Reflectors at Sub-6 (3.6-6 GHz) and mmWave (28 GHz) in Indoor Environments	Ashwini Ganesh*, Kris Ridenour, Ozgur Ozdemir, Chethan K. Anjinappa*, Ismail Guvenc (NCSU)
<b>3:25 PM</b>	<b>3:40 PM</b>	<b>Coffee Break</b>	
<b>Projects Updates and Proposal– Session III, Chair: Tamal Bose, University of Arizona (presenter’s name indicated with ‘**’)</b>			
<b>TIME</b>		<b>TITLE</b>	<b>INVESTIGATORS</b>
3:40 PM	3:55 PM	Distributed Massive MIMO for 6G Applications	Noel Teku, Tamal Bose*, and Ravi Tandon (UA)
3:55 PM	4:10 PM	Machine-Learning Based Waveform Classification in Shared Spectrum	Wenhan Zhang* and Marwan Krunz* (UA)
4:10 PM	4:25 PM	Machine Learning-based Fast and Reliable Decoders for URLLC	Sudarshan Adiga*, Ravi Tandon*, Tamal Bose (UA)
<b>4:25 PM</b>	<b>4:35 PM</b>	<b>Short Break</b>	

4:35 PM	6:00 PM	Poster Session- Breakout Rooms
6:00 PM	7:00 PM	Dinner and Best Poster Awards

## TUESDAY, NOV 9, 2021

9:00 AM	10:00 AM	Breakfast
10:00 AM	11:00 AM	IAB Business Meeting (closed session, Room: TSU 4132)
11:00 AM	12:00 PM	IAB Technical Input on Presented Projects and Feedback to BWAC Leadership (IAB members, BWAC directors, NSF Program Director, and BWAC faculty) Room: TSU BR-Piedmont-Mountains Ballroom)
12:00 PM	1:00 PM	Lunch and Adjourn*

(\* After lunch, *AERPAW Fall 2021 Event* will start with a tour of the Lake Wheeler Field Labs and a drone demo. For details of the *AERPAW* event, please check [aerpaw.org](http://aerpaw.org)