



BWAC IAB MEETING

November 9-10, 2020

Virtual Meeting Via Zoom

Online Registration: bwac.arizona.edu

MONDAY, NOVEMBER 9

NOTE: TIMES SHOWN BELOW ARE CENTRAL

| TIME | | TITLE | PRESENTER |
|--|----------------|--|--|
| 10:00 AM | 10:10 AM | Opening Remarks, Meeting Logistics, and Center Status Update | Vish Viswanathan, UM, Marwan Krunz, UA |
| 10:10 AM | 11:20 AM | Keynote Talk: “5G-Era and Beyond: Small Cell Industry Perspective” | Prabhakar Chitrapu Chair, Small Cell Forum |
| 11:25 AM | 11:40 AM | NSF I/UCRC Program Updates | Behrooz Shirazi , NSF I/UCRC Program Director |
| Projects Updates – Session I, Chair: Marwan Krunz (presenter’s name indicated with ‘*’) | | | |
| TIME | | TITLE | PRESENTER |
| 11:40 | 11:50 | Explanation of LIFE Forms | Vish Viswanathan, UM |
| 11:50 AM | 12:10 PM | Machine-Learning Based Waveform Classification in Shared Spectrum | Wenhan Zhang* and Marwan Krunz, UA |
| 12:10 PM | 12:30 PM | Machine Learning based Low-latency Decoders for Short Blocklength Codes | S. Adiga*, Ravi Tandon, and Tamal Bose, UA |
| 12:30 PM | 12:50 PM | Decoupling and Cloaking of Interleaved Planar Phased Antenna Arrays for 5G Application | Alexander Yakovlev*, UM |
| 12:50 PM | 1:15 PM | Lunch Break (for attendees on MT, CT, and ET) | |

**Projects Updates, Session II, Chair: Lei Cao
(presenter's name indicated with '*')**

| TIME | | TITLE | PRESENTER |
|---------|---------|---|---|
| 1:15 PM | 1:35 PM | Evaluation of 3D-Printed Substrates and RF Devices | Bibek Kattel* , Elliott Hutchcraft, and Richard Gordon, UM |
| 1:35 PM | 1:55 PM | Receiver Localization in M-MIMO Beamforming Networks | Sharif Khalil* , Nader Namazi, CUA |
| 1:55 PM | 2:15 PM | Multi-Beam Power Allocation in Dynamic Massive MIMO Cloud Radio Access Networks | Son Dinh* and Hang Liu, CUA |
| 2:15 PM | 2:50 PM | Design and Optimization for Mobile Edge Computing Networks (<i>collaborative project</i>) | Eric Hsieh* , Hang Liu, CUA, Mingjie Feng*, Marwan Krunz, UA |
| 2:50 PM | 3:05 PM | Short Break | |

**Projects Updates – Session III, Chair: Hang Liu
(presenter's name indicated with '*')**

| TIME | | TITLE | PRESENTER |
|---------|---------|---|---|
| 3:05 PM | 3:15 PM | Beam Tracking and Localization in Mobile mmWave Networks | Sopan Sarkar* , Irmak Aykin, and Marwan Krunz, UA |
| 3:15 PM | 3:35 PM | Unsupervised Machine Learning Techniques for Beamforming in Millimeter-Wave Networks | Ture Peken* , Tamal Bose & Ravi Tandon, UA |
| 3:35 PM | 3:55 PM | Base Station and Reflector Placement for mmWave Networks | Fatih Erden* , Chethan Kumar Anjinappa, Haluk Celebi, and Ismail Guvenc NCSU |
| 3:55 PM | 4:05 PM | Progress Updates on the NSF AERPAW Advanced Wireless Infrastructure Project at NC State | Ismail Guvenc* , NCSU |
| 4:05 PM | 5:10 PM | Poster Session- Breakout Rooms | |
| 5:10 PM | 5:20 PM | Announcement- Poster Session Awards | |

TUESDAY, NOVEMBER 10

NOTE: TIMES SHOWN BELOW ARE CENTRAL

| IAB Business Meeting Chair: Mark Pierpoint/ James Gigrich | | |
|---|-----------------|---|
| 10:00 AM | 11:00 AM | IAB Business Meeting (<i>only IAB members</i>) |
| IAB Meeting Assessment (<i>only IAB members, site directors, and BWAC faculty</i>) | | |
| 11:00 AM | 11:30 AM | LIFE Feedback Review Chair: John Daigle |
| 11:30 AM | Noon | IAB Summary of Meeting Proceedings, Conclusion: Chair: Mark Pierpoint/ James Gigrich |