BWAC IAB MEETING

Nov. 21-22, 2019

NC State University (NCSU)
Talley Student Union (TSU)
Raleigh, NC

bwac.arizona.edu

WEDNESDAY, NOV. 20 (TSU BR-Currituck Ballroom)

TIME		TITLE
6:00 PM	8:00 PM	**Welcome Reception**

THURSDAY, NOV. 21 (TSU BR-Coastal Ballroom)

TIME		TITLE	SPEAKER
7:00 AM	8:00 AM	**Registration & Breakfast**	
8:00 AM	8:10 AM	Opening Remarks & Meeting Logistics	**Marwan Krunz,** University of Arizona & **Ismail Guvenc**, North Carolina State University
8:10 AM	8:20 AM	Welcome Remarks from the Associate Vice Chancellor of Partnerships and Economic Development, and from the Department Chair of Electrical & Computer Eng.	**Dennis Kekas & Daniel Stancil**, North Carolina State University
8:20 AM	8:30 AM	Remarks from the National Science Foundation I/UCRC Program Director	**Behrooz Shirazi**, National Science Foundation
8:30 AM	9:00 AM	BWAC Site Updates	**M. Krunz/T. Bose** (UA), **R. "Vish" Viswanathan** (UM)**, J. Park** (VT)**, H. Liu** (CUA)**, I. Guvenc** (NCSU)
9:00 AM	10:00 AM	**Keynote-1**: Bits to beams: Enabling technology for 5G base stations	**Tony Montalvo,** Analog Devices
10:00 AM	10:15 AM	**Coffee Break**	
Session I			

10:15 AM	10:20 AM	LIFE Review Process	**Denis Gray**, NSF BWAC Evaluator
10:20 AM	10:45 AM	AERPAW: Aerial Experimentation and Research Platform for Advanced Wireless	**Ismail Guvenc**, North Carolina State University
10:45 AM	11:10 AM	Adaptive Multi-lobe Analog Beamforming for Blockage-resistant 5G Millimeter-wave Communications	**Irmak Aykin**, University of Arizona
11:10 AM	11:35 AM	Impact of Wi-Fi transmissions on C-V2X performance	**Jerry Park**, Virginia Tech
11:35 AM	12:00 AM	Cognitive/Adaptive Equalization for HF Channels	**Noel Teku**, University of Arizona
12:00 AM	1:20 PM	**Lunch**	

Session II

1:20 PM	1:30 PM	Metasurface Cloaks for Cloaking and Decoupling of Interleaved Phased Antenna Arrays	**R. "Vish" Viswanathan**, University of Mississippi
1:30 PM	1:55 PM	Indoor Ray Tracing and Base Station Placement Optimization for mmWave Systems	**Fatih Erden**, North Carolina State University
1:55 PM	2:20 PM	Investigation and Manufacturing of 3-D printed RF Devices	**Elliott Hutchcraft**, University of Mississippi
2:20 PM	2:45 PM	Receiver Localization in Massive MIMO Beamforming Networks	**Sharif H. R. Khalil**, Catholic University of America
2:45 PM	3:10 PM	Unsupervised mmWave Beamforming via Autoencoders	**Ture Peken**, University of Arizona
3:10 PM	3:25 PM	**Coffee Break**	

Session III

3:25 PM	3:50 PM	Cooperative Relaying with Massive MIMO Beamforming and Non-Orthogonal Multiple Access	**Son Dinh**, Catholic University of America
3:50 PM	4:15 PM	Optimizing Bluetooth-BLE Scanning Systems	**John Daigle**, University of Mississippi
4:15 PM	4:40 PM	A Reinforcement Learning-based Framework for Resource Allocation and Task Assignment in Mobile Edge Computing Networks	**Li-Tse (Eric) Hsieh**, Catholic University of America
4:40 PM	6:00 PM	**Poster Session – TSU 3285**	

6:00 PM	7:30 PM	**Dinner and Best Poster Awards – TSU 3285**

FRIDAY, NOV. 22 (TSU 4140-Governance Chamber)

7:30 AM	8:30 AM	**Breakfast**
Session IV		
8:30 AM	9:30 AM	**Keynote-2**: Spectrum Allocation, Sharing, and Challenges for 5G and IoT Technologies **Russ Gyurek,** Cisco
9:30 AM	10:30 AM	**IAB Business Meeting** (*closed session*) *
10:30 AM	10:40 AM	**Coffee Break**
10:40 AM	11:30 AM	**IAB Technical Input on Presented Projects** (*closed session*) *
11:30 AM	12:15 PM	**IAB Feedback to BWAC Leadership Team** (*closed session*) *
12:15 PM	1:00 PM	**Lunch**

* Closed-sessions on Day 2 are limited to IAB members, Site directors and BWAC faculty.