



BWAC IAB MEETING

May 23-24, 2019

The Catholic University of America
Washington DC

bwac.arizona.edu

7:00 PM – 9:00 PM WEDNESDAY, MAY 22

TIME		TITLE
7:00 PM	9:00 PM	Welcome Reception Courtyard Washington DC/US Capitol, Congressional Monuments Room 1325 2nd Street NE, Washington, DC 20002

THURSDAY, MAY 23 (Pryzbyla University Center, Great Rooms A/B The Catholic University of America 620 Michigan Ave., N.E., Washington, DC 20064)

TIME		TITLE	PRESENTER
8:00 AM	9:00 AM	Registration & Breakfast	
9:00 AM	9:10 AM	Opening Remarks & Meeting Logistics	Hang Liu , Catholic Univ.
9:10 AM	9:15 AM	Welcome Remarks	John Judge , Dean of the School of Engineering, Catholic Univ.
9:15 AM	9:30 AM	BWAC Center Overview and Updates	Marwan Krunz , Center Director, Univ. Arizona
9:30 AM	10:30 AM	Keynote Speech 1 - “Reinventing Wi-Fi: Technologies Supporting the Applications & Trends of the Future”	Carlos Cordeiro , Senior Principal Engineer & Senior Director, Intel Corporation
10:30 AM	10:45 AM	Coffee Break	

10:45 AM	11:00 AM	NSF IUCRC Program	Dmitri Perkins , Program Director, NSF
11:00 AM	11:10 AM	Explanation of LIFE Forms and Project Feedback/Voting Process	Denis Gray , NSF Evaluator
11:10 AM	11:30 AM	Adaptive Multi-lobe Analog Beamforming for Blockage-resistant 5G Millimeter-wave Communications	Irmak Aykin , Univ. Arizona
11:30 AM	12:00 PM	Hybrid Beamforming for Massive MIMO in Millimeter-Wave Networks	Ture Peken , Univ. Arizona, Hang Liu , Catholic Univ.
12:00 PM	1:10 PM	Lunch	
1:10 PM	2:00 PM	Keynote Speech 2	Sal D'Itri , the Chair of the National Spectrum Consortium
2:00 PM	2:20 PM	Cognitive/Adaptive Equalization for HF Channels	Noel Teku , Univ. Arizona
2:20 PM	2:40 PM	Metasurface Cloaks for Decoupling Phased Antenna Arrays at 28 GHz and 39 GHz for 5G Wireless Applications	Alexander Yakovlev , Univ. Mississippi
2:40 PM	3:00 PM	Investigation and Manufacturing of 3D-Printed RF Devices,	W. Elliott Hutchcraft , Univ. Mississippi
3:00 PM	3:20 PM	Coffee Break	
3:20 PM	3:40 PM	Further Study of Mutual Coexistence of Wi-Fi and Bluetooth-BLE in Industrial Environment,	John Daigle , Univ. Mississippi
3:40 PM	4:00 PM	Intelligent Network Infrastructure Sharing for Harmonious Coexistence of 5G NR and Wi-Fi Systems over Unlicensed Bands	Marwan Krunz , Univ. of Arizona
4:00 PM	4:20 PM	Receiver Localization in Massive MIMO Beamforming Networks	Sharif Khalil , Catholic University of America
4:20 PM	4:40 PM	Evolution of Radio Access Technologies for V2X Communications	Jerry Park , Virginia Tech
4:40 PM	6:00 PM	Poster Sessions – Pryzbyla University Center, Great Rooms B	

6:00 PM	7:30 PM	Dinner and Best Poster Awards – Pryzbyla University Center, Great Rooms B
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FRIDAY, MAY 24

8:00 AM	9:00 AM	Breakfast	
9:00 AM	9:20 AM	Ad hoc Cooperative Edge Computing: Architecture and Algorithms	Hang Liu , Catholic Univ.
9:20 AM	9:40 AM	Machine-learning Algorithms for Latency Prediction and Task Offloading in Delay-sensitive V2X Applications	Mingjie Feng , Univ. Arizona
9:40 AM	10:00 AM	Potential Projects for NCSU BWAC Site	Ismail Guvenc , North Carolina State University
10:00 AM	11:00 AM	IAB Business Meeting (<i>closed session</i>) *	
11:00 AM	11:10 AM	Coffee Break	
11:10 AM	11:40 AM	IAB Technical Input on Presented Projects (<i>closed session</i>) *	
11:40 AM	12:30 PM	IAB Feedback to BWAC Leadership Team (<i>closed session</i>) *	
12:30 PM	1:30 PM	Box Lunch	

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