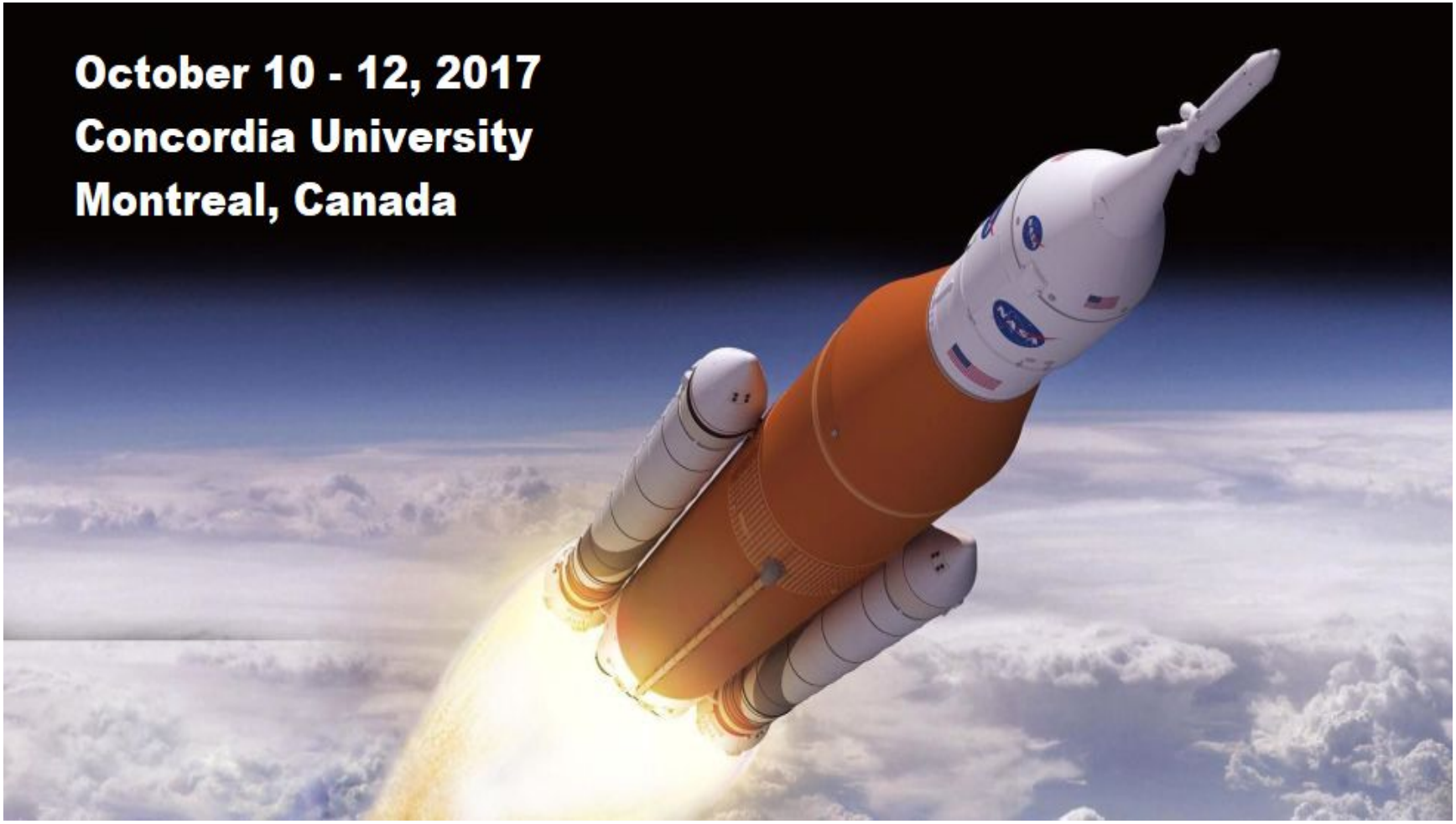
WiSEE 2017 Final Program



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WiSEE 2017 Final Program

Day/ Time	Tuesday 10 October	Wednesday 11 October	Thursday 12 October
8:30	Opening Remarks	Opening Remarks	Opening Remarks
8:45	Keynote: Chris Singer	Keynote: Fassi Kafyeke	Keynote: Sterling Rooke
9:30	Networking Break	Networking Break	Networking Break
10:00	SSP S1 (Tutorial)	WiSEE S3 / SSP S4	Posters and Demos Session
	PWS S1: Users	PWS S4: Providers	PWS S7 Users
12:00	Lunch (EV2.260)	Lunch (EV2.260)	Lunch (EV2.260)
12:30	Keynote: Panagiotis Tsiotras	Keynote: Jim Lyke	12:15-13:00 Keynote: Obadiah Kegege
13:30	WiSEE S1 / SSP S2 (Panel 1)	STINT S1	13:00-15:00 - PWS S8 – One-on-One Sessions
	PWS S2: Providers	PWS S5: Providers	
15:30	Networking Break	Networking Break	Tour of the Canadian Space Agency (registered paid attendees that selected this tour) Bus leaves from Concordia towards CSA at 15:00 Bus leaves CSA towards Sheraton at 17:30
16:00	WiSEE S2 / SSP S3 (Panel 2)	MISS S1 / STINT S2	
	PWS S3: Providers	PWS S6: Providers	
18:30	18:30-20:00 - Reception (EV2.260)		
19:00		Banquet/Awards at the Sheraton Hotel	

Detailed Program

Keynote Sessions — Tue/Wed/Thu at 08:45 and 12:30

Chair: Amir Aghdam — Concordia University

Room: EV2.260

#	Subslot	Number	Title	Presenters
1	08:45	Tue	The Engine of Possibility Accelerating Development	**Chris Singer** (Former NASA Deputy Chief Engineer & Marshall Space flight Center Engineering Director)
2	12:30	Tue	The Next Frontier: The Challenges in Developing Truly Autonomous Space Robot	**Dr. Panagiotis Tsiotras** (College of Engineering Dean's Professor, School of Aerospace Engineering, Georgia Institute of Technology)
3	08:45	Wed	The Growing Use of Sensors in Business and Commercial Jet Aircraft	**Dr. Fassi Kafyeke** (Senior Director, Strategic Technology & Innovation, Bombardier Aerospace)
4	12:30	Wed	Energy Consequences of Information as It Relates to Spacecraft and Space Missions	**Dr. Jim Lyke** (Research Program Manager, Space System Branch, Air Force Research Laboratory, Space Vehicles Directorate, AFRL Fellow)
5	08:45	Thu	Translational Awareness: at the Nexus of Physics and Cyber-in-Space	**Dr. Sterling Rooke** (Founder Brixon, Inc., & Director-Elect ISA Communications Division (2018-2019))
6	12:15	Thu	User Needs and Advances in Space Wireless Sensing & Communications	**Dr. Obadiah Kegege** (NEN Development Manager, Exploration & Space Communications Projects Division, NASA /GSFC)

WiSEE S1 Tue 13:30-15:30

Chair: Hadi Alasti Indiana Univ. Purdue Univ. Fort Wayne

Room: EV2.260

#	Subslot	Number	Title	Authors
1	13:30	9	Dynamic Reconfigurability of Wireless Sensor and Actuator Networks in Aircraft	Aglargoz, Aysegul (German Aerospace Center) Bierig, Andreas (German Aerospace Center) Reinhardt, Andreas (Clausthal University of Technology)
2	14:00	14	Link Performance Improvement via Design Variables Optimization in LED-Based VLC System for Inter-satellite Communication	Amanor, David Narh (North Carolina A&T State University) Edmonson, William (NC A&T State University) Afghah, Fatemeh (Northern Arizona University)
3	14:30	15	Intersatellite Communication Based on Non-cooperative Game Theory Using a Best Response Approach with Pricing Algorithm	Moghassem Hamidi, Milad (North Carolina A&T State Univ) Edmonson, William (NC A&T State University) Afghah, Fatemeh (Northern Arizona University)
4	15:00	22	Multi-Resolution Multiplexing for 5G Wireless Spectral Efficiency Enhancement in Strong Noise	Alasti, Hadi (Indiana University-Purdue Univ Fort Wayne)

WiSEE S2 Tue 16:00-18:00

Chair: Gregory Durgin Georgia Tech.

Room: EV2.260

#	Subslot	Number	Title	Authors
1	16:00	12	Optical Orthogonal Codes for DS-CDMA in OWLS	Arruego, Ignacio (INTA) Lopez-Hernandez, Francisco Jose (UPM)
2	16:24	18	Improving 802.11 Video Transport Air Efficiency with AL-FEC	Osunkunle, Biodun Isaac (Univ of Calgary)
3	16:48	19	Analysis of Error in Time Difference of Arrival Measurements Introduced by the Motion of Satellite-Based Receivers	Dumas, Stephen (Georgia Tech) Lovell, Alan (Air Force Research Lab) Sinclair, Andrew (Air Force Research Lab) Durgin, Gregory (Georgia Tech)
4	17:12	35	Wireless Sensor Systems in an Extreme Environment: CyberSpace	Fuhr, Peter (Oak Ridge National Lab)
5	17:36	39	Predictive Routing for Dynamic UAV Networks	Arnau Rovira-Sugranes (N. Arizona Univ) Abolfazl Razi (N. Arizona Univ)

WiSEE S3 Wed 10:00-12:00

Chair: Jean-Marc Collignon Storkcom

Room: EV2.260

#	Subslot	Number	Title	Authors
1	10:00	7	RF Energy Harvester Optimized for Wireless Sensor Network in Launcher Application	COLLIGNON, Jean-Marc (STORKCOM) QUEMENT, Alexis (Storkcom) BARON, Bruno (STORKCOM) RMILI, Badr (CNES)
2	10:24	8	Microsecond-Precision Time Stamping in a Deterministic Distributed Sensor Network Utilizing Openpowerlink	Schalk, Kevin Vincent (Univ of Applied Sci. Bremerhaven) Müller, Kai (University of Applied Sciences Bremerhaven) Karsten, Peter (Univ of Applied Sciences Bremerhaven) Sebald, Johannes (ArianeGroup GmbH)
3	10:48	11	EMC characterization of the UWB-based wireless positioning and communication experiment (wireless Compose) for the ISS	Drobczyk, Martin (German Aerospace Center (DLR)) Lehmann, Marcus (German Aerospace Center (DLR))
4	11:12	13	Routing in Ring Road Networks: Leveraging Spots of Maximum Knowledge	Feldmann, Marius (Technische Universität Dresden)
5	11:36	21	Snow Covered Forest Channel Modeling for Near-Ground Wireless Sensor Networks	Zekavat, Seyed (Michigan Technological University)

MISS S1 Wed 16:00-18:00

Chair: Christoph Degen Hochschule Niederrhein - Univ of Applied Sciences

Room: EV2.204

#	Subslot	Number	Title	Authors
1	16:00	24	Power Allocation for Orthogonally-Observed Multi-Target Sensor Network	Zandi, Ehsan (Electrical Engineering and Information Technology) Vieting, Peter (Electrical Engineering and Information Technology) Taghizadeh, Omid (Institute for Theoretical Information Technology, RWTH Aachen University) Mathar, Rudolf (RWTH Aachen University)
2	16:24	27	Optimal Linear MMSE Design for Passive Distributed Radar Sensor Network Systems	Taghizadeh, Omid (Institute for Theoretical Information Technology, RWTH Aachen Un) Radhakrishnan, Vimal (RWTH Aachen university) Alirezaei, Gholamreza (RWTH Aachen University) Zandi, Ehsan (Electrical Engineering and Information Technology) Mathar, Rudolf (RWTH Aachen University)
3	16:48	32	An On-Demand Compressed Sensing Approach for Spatial Monitoring of Correlated Big Data Using Multi-Contours in Dense Wireless Sensor Network	Alasti, Hadi (Indiana University-Purdue University Fort Wayne)
4	17:12	37	On Single Snapshot Direction-Of-Arrival Estimation	Degen, Christoph (Hochschule Niederrhein - University of Applied Sciences)
5	17:36	38	Wireless Powering of Drone-Based MANETs for Disaster Zones	Leon Calvo, Jose Angel (RWTH Aachen University) 28139 Alirezaei, Gholamreza (RWTH Aachen University) 30537 Mathar, Rudolf (RWTH Aachen University) 16883

STINT S1 Wed 13:30-15:30

Chair: Edward Birrane Johns Hopkins Univ. Applied Physics Lab.

Room: EV2.260

#	Subslot	Number	Title	Authors
1	13:30		**Invited Speech** Selected Innovations for Space-based Optical Communication	**Dr. Nelli Mosavi** Senior Professional Staff, RF Group of the Space Department, Johns Hopkins University - Applied Physics Lab
2	14:30	10	A Machine Learning Concept for DTN Routing	Dudukovich, Rachel (NASA Glenn Research Center) Hylton, Alan (NASA Glenn Research Center) Papachristou, Christos (Case Western Reserve University)
3	15:00	36	Routing in Ring Road Networks with Limited Topological Knowledge	Feldmann, Marius (Technische Universität Dresden) Walter, Felix (Technische Universität Dresden) Böhm, Ricardo (Technische Universität Dresden)

STINT S2 Wed 16:00-17:30

Chair: Edward Birrane Johns Hopkins Univ. Applied Physics Lab.

Room: EV2.260

#	Subslot	Number	Title	Authors
1	16:00	28	Preliminary Results from a Model-Driven Design Approach for Development of an Event-Driven Autonomous Space Communications Service Concept	Roberts, Christopher (NASA Goddard Space Flight Ctr)
2	16:30	29	Enhancing First-hop Probability Estimations in Ring Road Networks via Node Collaboration	Walter, Felix (Technische Universität Dresden)
3	17:00	34	The Path to Space-Terrestrial Internetworking	Birrane, Edward (Johns Hopkins University Applied Physics Laboratory) Copeland, David (Johns Hopkins University Applied Physics Laboratory) Ryschkewitsch, Michael (Johns Hopkins University Applied Physics Laboratory)

SSP S1 (Tutorial) Tue 10:00-12:00

Chair: Seyed Reza Zekavat Michigan Tech. Univ.

Room: EV2.204

#	Subslot	Number	Title	Presenters
1	10:00		An Introduction to Space Solar Power	Reza Zekavat (Michigan Tech) Paul Jaffe (NRL) Greg Durgin (Georgia Tech) Darel Preble (Space Solar Power Institute)

SSP S2 (Panel-1) Tue 13:30-15:30

Co-Chairs: Gary Barnhard and Avram Bar-Cohen XISP Inc. and Raytheon

Room: EV2.204

#	Subslot	Number	Title	Panelists
1	13:30		Robotics as a resource for assembly, operation, and maintenance of Space Solar Power systems	Deana Smith, & Danielle Cormie (CSA ISS Operations) Paul Jaffe (NRL) Avram Bar-Cohen (Raytheon) Panos Tsiotras (Georgia Tech)
2	15:00		Space-to-Space Power Beaming (SSPB) mission	Avram Bar-Cohen (Raytheon)

SSP S3 (Panel-2) Tue 16:00-18:00

Chair: Tatiana Vinogradova Northrop Grumman

Room: EV2.204

#	Subslot	Number	Title	Panelists
1	16:00		Space Solar Power Initiative, Ultralight Approach: Research, Technology Development and Maturation. Space Environment for SSP	Harry A. Atwater (Caltech), Michael Kelzenberg (Caltech), Pilar Espinet (Caltech), Tatiana Vinogradova (Northrop Grumman)

SSP S4 Wed 10:00-12:00

Chair: Darel Preble Space Solar Power Inst.

Room: EV2.204

#	Subslot	Number	Title	Presenters
1	10:00	26	Criteria for Comparing Power Beaming Demonstrations	Paul Jaffe (NRL)
2	10:24	30	Using Inkjet Printed Circuits on a Transparent Substrate for Microwave Energy Harvesting for Space Based Solar Power	Greg Durgin (Georgia Tech)
3	10:48	23	CASSIOPeiA Solar Power Satellite	Ian Cash (SICA Design Ltd)
4	11:12	25	Concepts for Near-Term Provision of Power via Space Solar to Remote Areas	Paul Jaffe (NRL)
5	11:36	-	The Approaching US Energy Economic Crisis	Gail Tverberg (Space Solar Power Inst.)

PWS S1 Tue 10:00-12:00

Chair: Omar Torres NASA LaRC/NESC

Room: EV2.184

#	Subslot	Number	Title	Presenters
1	10:00	PWS S1-1	PWS Workshop Summary: Technology Library and User Trends	George Studor (NASA Engineering and Safety Center)
2	10:30	PWS S1-2	Wireless Applique for Spacecraft Integration and Test	Norm Lay (NASA/Jet Propulsion Laboratory)
3	11:00	PWS S1-3	Entry Instrumentation in the Next Decade: a NASA Perspective	Brandon Smith (NASA/Ames Research Center))
4	11:30	PWS S1-4	Technologies for high temperature (500 C) Electronics, Sensors, Actuators, Power and Comm Systems to Enable Long-lived Missions to Venus and the Gas Giants	Viet Nguyen (NASA/HQ/HIgh Operating Temperature Program)

PWS S2 Tue 13:30-15:30

Chair: George Studor NASA/NESC

Room: EV2.184

#	Subslot	Number	Title	Presenters
1	13:30	PWS S2-1	Passive Wireless Vibration Sensing for Measuring Aerospace Structural Flutter	William “Cy” Wilson (NASA/Langley Research Center)
2	14:00	PWS S2-2	Passive Wireless Sensor System for Structural Health Monitoring	Viorel Olariu (Albido Corp)
3	14:30	PWS S2-3	Passive Wireless Sensing Using Ultrasonic Channels	Taimur Aftab (Univ of Freiburg/IMTEK, Germany)
4	15:00	PWS S2-4	Practical Considerations for SAW Sensor and Tag Deployment	Jackie Hines (Sensanna Corporation)

PWS S3 Tue 16:00-18:00

Chair: Omar Torres NASA LaRC/NESC

Room: EV2.184

#	Subslot	Number	Title	Presenters
1	16:00	PWS S3-1	Passive Radio Technologies from the UW Sensor Systems Lab	Joshua Smith (Jeeva Wireless/University of Washington)
2	16:30	PWS S3-2	Recent Developments in Wireless SAW Sensor Systems	Art Weeks (Univ of Central Florida)
3	17:00	PWS S3-3	Recent SAW Wireless Sensor and Systems -Successes, Opportunities, and Boundaries	Don Malocha (Pegasense, LLC)
4	17:30	PWS S3-4	Demonstration Session	

PWS S4 Wed 10:00-12:00

Chair: George Studor NASA/NESC

Room: EV2.184

#	Subslot	Number	Title	Presenters
1	10:00	PWS S4-1	Recent Investigations into Potential Applications for Wireless Technologies at NASA/MSFC	Darren Boyd (NASA/Marshall Space Flight Center)
2	10:30	PWS S4-2	Ultra-low Power Wireless Sensing System for Multi-metric, Self-Powered Monitoring of Structural Components	Nizar Lajnef (Michigan State University - DOT/FHWA)
3	11:00	PWS S4-3	Enabling Wireless Structural Electronics and Sensors: From Additively Manufactured mm-Wave Circuits to Novel Sensing Systems	Eduardo Rojas (Embry-Riddle University)
4	11:30	PWS S4-4	Smart RFID Sensing for Wide Range of Environments	Matthew Pfeiffer (Omni-ID)

PWS S5 Wed 13:30-15:30

Chair: Omar Torres NASA LaRC/NESC

Room: EV2.184

#	Subslot	Number	Title	Presenters
1	13:30	PWS S5-1	Wireless with Strong Industrial Noise, Solving the Power Substation Case	François Gagnon (École de Technologie Supérieure (ETS), Montreal/Dept of EE)
2	14:00	PWS S5-2	Optically-enabled RFID tracking system	Stephen Kupiec & Vladimir Markov (Advanced Systems & Technologies)
3	14:30	PWS S5-3	Fast FEM 2D Simulation of Multi-layered SAW Devices	Bob Hammond (Resonant, Inc, California)
4	15:00	PWS S5-4	UWB Passive SAW Sensors Based on Hyperbolic Frequency Modulation	Victor Plessky (Resonant, Inc, Switzerland)

PWS S6 Wed 16:00-18:00

Chair: George Studor NASA/NESC

Room: EV2.184

#	Subslot	Number	Title	Presenters
1	16:00	PWS S6-1	Remote Sensing in Turbid Environments with Spatial Phase Imaging	Preston Bornman (Photon-X) - Remote
2	16:30	PWS S6-2	Advantages of IR-based Communication and Sensing in Severe Environments	Rainer Martini (Stevens Institute)
3	17:00	PWS S6-3	Semi-Transparent Solar Cell LiFi Responses and LiFi-Application Optimization	Emilie Bialic (Sun Partners, France)
4	17:30	PWS S6-4	Demonstration Session	

PWS S7 Thu 10:00-12:00

Chair: Omar Torres NASA LaRC/NESC

Room: EV2.184

#	Subslot	Number	Title	Presenters
1	10:00	PWS S7-1	Integration of WAIC Systems into Aircraft	Jan Mueller (Airbus Operations GMbH, Germany)
2	10:30	PWS S7-2	Opportunities for Wireless Technology in the field of Aircraft Landing Gear Systems	Grant Minnes (Safran Landing Systems, Canada)
3	11:00	PWS S7-3	Wireless Instrumentation Systems for Flight Testing at NASA AFRC	Richard Hang (NASA Armstrong Flight Research Center)
4	11:30	PWS S7-4	Wireless Avionic Intra-Communications (WAIC) Status Update	Michael Franceschini (Honeywell International)

PWS S8 - One on one sessions Thu 13:00-15:00

Chair: George Studor NASA/NESC

Room: EV2.260

Note: Wireless Technology Providers may sign up for time slots below during the conference

Table #	User Organizations (pending)	1300-1315	1315-1330	1330-1345	1345-1400	1400-1415	1415-1430	1430-1445	1445-1500
Keynote	Singer (Retired NASA)								
Keynote	Georgia Tech								
Keynote	ISA Comm Div/Brixton								
Keynote	NASA/GSFC								
S1-1	NASA/NESC Wireless & PWS								
S1-2	NASA/JPL								
S1-3	NASA/ARC								
S1-4	NASA/HQ/HOTP								
S4-1	NASA/MSFC & WiSEE 2018								
S7-1	WAIC								
S7-2	Airbus								
S7-3	SAFRAN								
S7-4	NASA/AFRC								
	Others								

Poster Session — Thu 10:00-12:00

Chair: Ali Abedi — Univ of Maine

Room: EV2.260

#	Subslot	Number	Title	Presenters
1		16	Air Leak Material Identification in Pressurized Space Vehicles using a Convolutional Neural Network	Bundy, Kenneth R (University of Maine) Abedi, Ali (UMaine)
2		17	Stochastic Modelling of Wireless Energy Transfer	Veilleux, Shaun (University of Maine) Almaghasilah, Ahmed (University of Maine) Abedi, Ali (UMaine)
3		20	Toward Agile and Reliable Wireless Sensing Architecture for Space Habitats	Choi, Baek-Young (Univ of Missouri - Kansas City)

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WiSEE 2017

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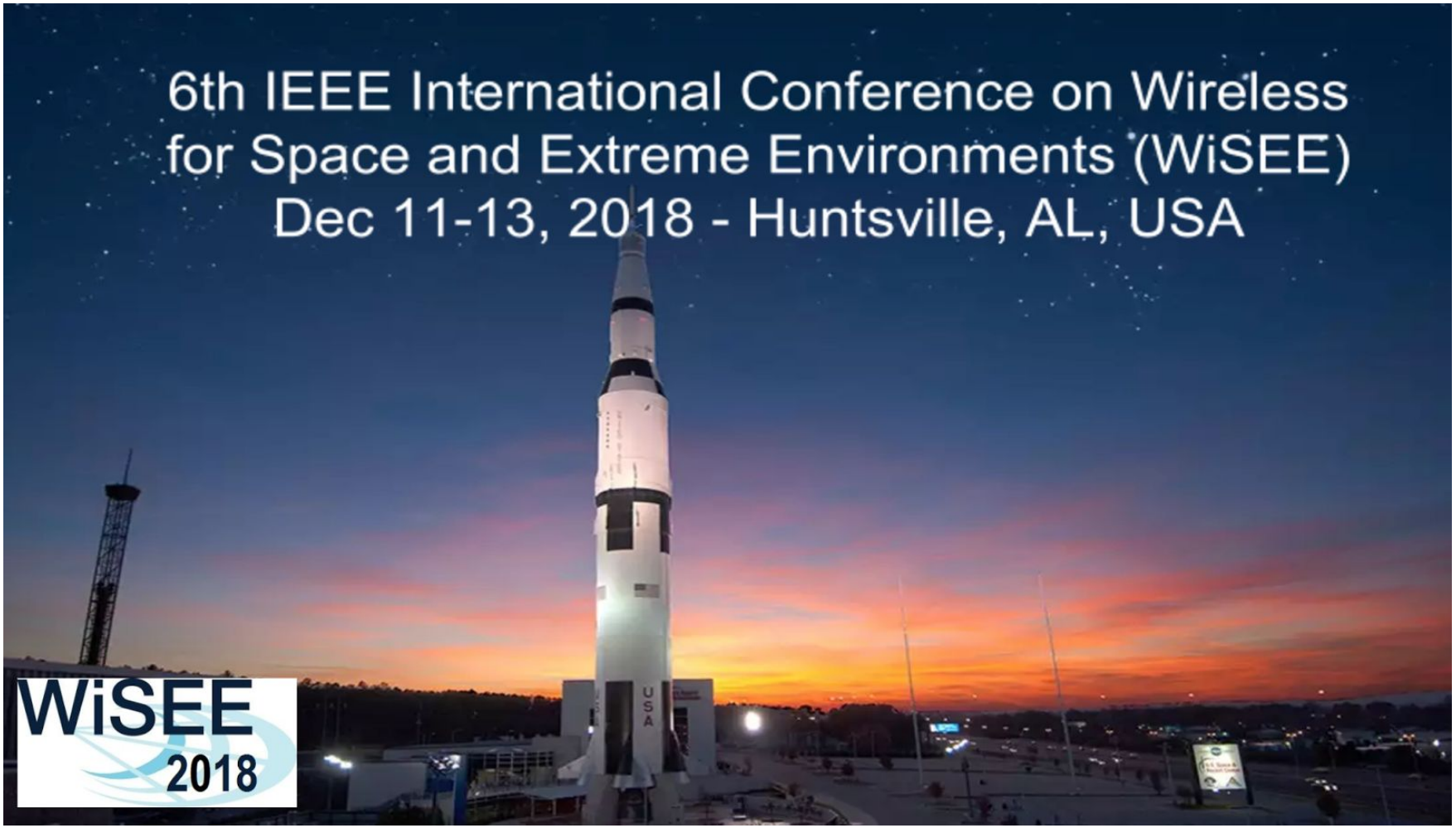

General Chairs: DeLisa Wilkerson, NASA and Ravi Gorur, UAH
TPC Chairs: Laurie Joiner, UAH and Ali Abedi, UMaine
Paper submission deadline: July 1, 2018

7th IEEE International Conference on Wireless for Space and Extreme Environments (WiSEE), Oct 8-10, 2019 - Ottawa, Canada

General Chairs: Abbas Yongacoglu, Univ of Ottawa and Mohsen Kavehrad, Penn State Univ.
TPC Chairs: Ali Abedi, UMaine and Melike Erol-Kantarci, Univ of Ottawa
Paper submission deadline: July 1, 2019