

WiSEE 2015 Chairs' Welcome

On behalf of the Organizing Committee of the 2015 IEEE International Conference on Wireless for Space and Extreme Environments we welcome you to WiSEE 2015, here at the University of Central Florida in Orlando, Florida. This conference will provide a forum for space agency, academic, and industry researchers to meet and discuss problems related to applications of wireless technology in the space and aerospace arenas as well as in related extreme environments.

The conference history dates back to the late 90's with the inauguration of an informal series of NASA workshops called "Fly by Wireless" to address the important topics of wireless communication and sensing in the context of space applications. Later "Fly by Wireless" Workshops sponsored by CANEUS resulted in meetings with an expanded focus. Finally, beginning in 2010, IEEE brought all these activities under one umbrella with the 2010 Fly by Wireless Workshop in Maine and the 2011 Workshop in Montreal.

Noting the successful series of similar workshops in Europe called "Wireless Workshops" and then "WiSense4Space" organized by the European Space Agency (ESA) and similar events hosted by the Canadian Space Agency (CSA), the IEEE decided to create a more inclusive international conference covering the use of wireless technologies in space and extreme environments. This new conference, bringing NASA, CSA, and ESA together resulted in the IEEE WiSEE 2013 conference in Baltimore, Maryland. The success of this inaugural international conference convinced the organizing committee to continue the series and led to the IEEE WiSEE 2014 conference in Noordwijk, Netherlands and the success of that conference has led to the 2015 edition of WiSEE here in Orlando, Florida.

Creating this conference would not have been possible without the generous support, both financial and technical, of the IEEE USA, the IEEE Canada, the IEEE Ultrasonic, Ferroelectrics and Frequency Control Society (UFFC), the IEEE Aerospace & Electronic Systems Society (AESS), the IEEE Council on RFID (CRFID), the IEEE Antenna and Propagation Society (APS), Michigan Tech, the University of Central Florida, and Concordia Institute of Aerospace Design and Innovation (CIADI).

We invite you to fully participate in all of the opportunities provided by this conference. In addition to the technical conference presentations, there will be eight plenary presentations provided by invited keynote speakers. There are four workshops; Space Solar Power, Passive Wireless Sensor Technology, Space-Terrestrial Internetworking, and Wireless Sensor Systems being run in parallel with the primary session. In addition, there is a poster session, networking opportunities, and one-on-one stakeholder user sessions. We hope you find the conference rewarding, that you enjoy your stay in Central Florida, and that you take the opportunity to go on the tour of the Kennedy Space Center.

General Co-Chairs: Donald Malocha (UCF) and Robert Youngquist (NASA)

Executive Co-Chairs: Charles Rubenstein (IEEE USA) and Amir Aghdam (IEEE Canada)

Technical Program Chairs: Ali Abedi (U of Maine), Dirk Thumes (ESA), Azadeh Vosoughi (UCF)