IMS 2012, Montreal: The Wireless Connection

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The International Microwave Symposium (IMS2012) program book arrived in mail the other day, a clear signal that the upcoming 2012 Montreal conference (June 17-22) is not far away. As I leafed through the colorful information package, I was quite impressed not only with the quality, diversity and scope of the technical program, but also the visible attention to detail. The choice of colors for the program book, technical tracks, each represented with a unique flower, and informational footnotes added to the experience (In case you did not receive your print copy in mail, the book is available online at: http://www.printxoffice.com/IMS2012 [1]). While reviewing the contents of the program book, I was more focused on the actual process of creating a high-quality, technical program and symposium in just one year (since IMS2011 in Baltimore). The IMS2012 technical contents represent more than 1000 presentations encompassing 38 technical areas showcasing over a millennia's worth of effort by authors and presenters from around the world, and several decades worth of effort by the steering committee, the TPC and the reviewers. They all deserve a pat on the back for a job well done.

As a wireless professional, one may ask – what is in it for me? The answer is that almost every page of the program book and every day of IMS2012 offer something special and unique for attendees. The opening plenary session talk – '3G/4G Chipsets and the Mobile Data Explosion—and the closing ceremony talk – 'The Fourth Age of Wireless and the Internet of Everything'—will address opportunities and challenges of microwave, wireless and internet technologies. One of the RFIC plenary session talks on Sunday, June 17, 2012 entitled – 'Towards the 5G Smartphone: Greater system Capacity, More Bands, Faster Data Rates, Advanced Applications and Longer Battery Life' goes into issues and challenges beyond 4G.

Workshop and short courses topics will provide a comprehensive treatment of focused issues and include: • Advancements in Front End Modules for Mobile and Wireless applications • Digital Transmitters and PAs for Wireless applications • Wireless Energy Transfer and scavenging Techniques • Broadband PAs for wireless Communications • White Space Technologies – Future emerging Technology Needs • The Development of Precision GPS Solutions in 4G • A Look at Some of the Principles of Wireless Communications from Maxwellian Viewpoint

As we all know, wireless systems and applications continue to be a key component of growth for microwave technologies. Almost every technical session, Interactive Forum (IF) and student paper offers relevant research with direct or indirect wireless system applications.

Examples of some of the key sessions dedicated to Wireless systems include: • Advances in Broadband Communications systems • Power Harvesting related to

Communications systems • RF Devices for Wireless Health Care Applications and Bio-sensing • RFID technologies and Applications • Unconventional RFIDs • Tunable Systems: Enabling Future Handset Technologies • Rectifiers for Microwave Wireless Power Transmission • Advanced Transceiver Architectures for Wireless Communications systems • Novel Technologies and Components The Micro-Apps presentations cover measurement, simulation and system design aspects of wireless technologies among other excellent topics. The IMS2012 program offers content for everyone- novices, and students and those who want to learn the basics, can do so through short courses. Engineers and practitioners on the other hand can get a lot from Workshops and various papers in technical tracks of interest , whereas leading edge researchers in the microwave, millimeter and wireless technologies can expect in-depth analysis and results to stimulate thinking for follow-on work. For graduate students, there is an opportunity to participate in the graduate student challenge, brain storm and propose new ideas and applications. It is now time to make plans, show up in Montreal at IMS2012, participate, and enjoy the show. As you do, look for a strong wireless connection...

www.ims2012.org [2]

May 29, 2012

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