

**PAST WORKSHOP AND SHORT COURSE ORGANIZERS:** Please note that the workshop and short course details and proposal submission process has changed for IMS2018. The changes are shown in **red font**.

## **CALL FOR PROPOSALS WORKSHOPS AND SHORT COURSES**

The IEEE Microwave Theory and Techniques Society's (MTT-S) 2018 International Microwave Symposium (IMS2018) will be held 10 – 15 June 2018 at the Pennsylvania Convention Center, Philadelphia, PA, USA. IMS2018 is the centerpiece of the Microwave Week 2018, which offers technical sessions, interactive forums, plenary and panel sessions, workshops, short courses, application seminars, and industrial and historical exhibits. In addition, a wide variety of other technical and social networking activities including guest programs are offered at IMS2018. Microwave Week 2018 will also host for the first time the 2018 IMBioC conference ([www.imbioc-ieee.org](http://www.imbioc-ieee.org)), in addition to the RFIC Symposium ([www.rfic-ieee.org](http://www.rfic-ieee.org)) and the ARFTG Conference ([www.arftg.org](http://www.arftg.org)).

The workshops and short courses, offered at IMS2018, provide a unique forum for the exchange of ideas and technical information, and are distinct from regular conference oral presentations. Workshop proposals should focus on topics of high topical interest to the MTT-S community, and should encompass a coherent theme that is presented by selected experts in the field. The short courses are meant to be primarily tutorial and instructional. The IMS2018 Workshops and Short Courses Committee welcomes, from domain experts, proposals that meet the following **criteria** and are endorsed by the MTT-S Technical Committees (TCs), RFIC, ARFTG, and/or IMBioC.

**Multiple experts are encouraged to collaborate in planning the workshop and the workshop proposal. The workshop should start with a 15 to 20-minute introduction to the workshop. The introduction should be followed by several 40 to 45-minute talks, by technical experts, that are educational and informative by delving deep into the workshop topic. A panel discussion of 30 to 45-minute duration may also be planned at the end of each workshop, to debate various points of view and to wrap up the workshop. Workshops should be structured and moderated by the organizer such that the audience is actively engaged and, where appropriate, include tutorial or review materials to assist the attendees who may not have current knowledge of the subject.**

**Short course proposals should focus on comprehensive instructional content guided by a set of defined learning objectives, with the opportunity for software and/or hardware demonstrations. The distinctive feature of a short course is its educational value to engineers, scientists, and technicians who may not have an in-depth familiarity with the subject area. The assumption should be that the attendees will learn from fundamentals without prior exposure to the field. Short courses may have one or more instructors.**

The workshop or short course notes, specific to the attendee's registration, are distributed via a link to a cloud distribution service. **Workshop and short course attendees, who register in advance, also receive a paper copy of the notes specific to their registration.** The workshop and short course organizers should ensure that their speaker's final presentation material match the distributed notes.

Workshops and short courses are solicited from all technical areas within MTT-S, including but not limited to:

- Next-generation 5G wireless systems and components (5G, 100 Gigabit and beyond)
- Massive MIMO Antenna Systems and Components
- Radios for increasing personal connectivity and security in PAN, NFC, PoS payment links, and IoT
- RF technologies and applications for autonomous and distributed vehicles and drones
- Wireless power transfer and power harvesting
- Power amplifier technology (GaN, high efficiency, nonlinear modeling, linearization techniques)
- THz and MMW technology and applications
- CMOS circuit technology and applications (BiCMOS, SiGe, SOI)
- Tunable and reconfigurable circuits
- Microwaves and MMW for medical and biological applications
- Microwave/millimeter-wave frequency synthesizers and mixed signal circuits
- Reliability and radiation-hard analysis and design for space applications
- Packaging, interconnects, and MCMs
- 3D chip stacking (wafer scale integration, heterogeneous integration)
- Use of 3D printing in microwave design
- Flexible/wearable electronics
- Design methods for filters and passive structures
- Basic device, circuit, and system design methods
- Materials and metamaterials
- Acoustic devices, control materials, ferroelectrics, ferrites, multiferroics, phase change materials
- Microwave photonics
- System integration
- Emerging microwave technologies

**IMS2018 Workshop and Short Course Days:**

- Sunday, 10 June 2018
- Monday, 11 June 2018
- Friday, 15 June 2018

**(Initial) Proposal Submission:** If interested in submitting a proposal for a workshop or short course, please review the updated instructions, sample templates, and other proposal details posted at [www.ims2018.org](http://www.ims2018.org). All proposal submissions must be made electronically at the workshop and short course submission website. IMS2018 Workshop and Short Course Committee will not accept or review proposals that are sent directly to the IMS2018 steering committee members. The (initial) proposal submission deadline is 5:00 PM MDT (UTC – 6:00) on Friday, 15 September 2017.

Please note the following additional information should be submitted with the initial proposal.

- Organizers should provide their contact information, title of the workshop or short course, an abstract (500-words maximum), preferred duration (full-day or half-day), list of potential speakers and their contact information, and details of MTT-S TCs, RFIC, ARFTG, or IMBioC endorsements.
- **The endorsement of at least one MTT-S TC, RFIC, ARFTG, or IMBioC is required prior to the proposal submission. It is highly recommended that organizers seek the relevant TC's endorsement weeks before the proposal submission deadline.** Endorsements from more than one TCs or conferences would strengthen the proposal and be viewed favorably.
- **Organizers should ensure that the speakers in their proposed workshop or short course do not present the same or similar topic with a set of similar notes at more than one IMS2018 workshop or short course.**

**(Initial) Proposal Disposition:** Decisions and notifications of accepted proposals will be completed by **Wednesday, 1 November 2017**. Organizers will be notified by email of acceptance of proposal (accepted “as is” or recommended for combining with another proposal) and the approved duration (full-day or half-day).

**(Final) Summary Submission:** The “accepted” proposal’s final summary submission deadline is 5:00 PM MDT (UTC – 6:00) on Friday, 15 December 2017. The summary shall include the abstract (500 words maximum) and the **confirmed** speakers contact information, affiliation, and presentation title. Late submissions are not accepted.

**Speaker Notes Submission:** The workshop and short course speaker notes submission deadline is 5:00 PM MDT (UTC – 6:00) on Saturday, 14 April 2018. Speakers are required to upload both, the electronic (one slide per page) and the print (2 slides per page) versions of the notes at the workshop and short course notes submission website.

- The speaker presentations and notes are required to be fully compliant with the IMS2018 workshop and short course presentation template. There are no exceptions to this requirement.
- The presented material, on the day of the workshop or short course, should be identical to the notes that are submitted on 14 April 2018. In the event, the presentation slides are modified after the 14 April 2018 deadline, the speaker is responsible for bringing copies of the updated slides for distribution to the attendees at the workshop or short course.
- **Workshop and short course organizers are responsible for the verification of the speaker notes’ compliance with the IMS2018 presentation template.** This is in addition to their responsibilities for uploading the workshop or short course agenda; list of speakers, their biographical information, and contact information.
- Registration fee waivers for the specific (organized) workshop or short course will be given to the organizers (maximum two), and to those speakers who submit notes by the 14 April 2018 and in the correct format. The fee waiver does not apply to other workshops or short courses. Fee waivers will not be granted to those who submit the required materials past the deadlines.

**IMS2018 Workshops and Short Courses Committee:**

J.-C. Chiao, Amir Mortazawi, Ahmad Hoorfar, Tony Ivanov

**Contact Information:**

Please submit suggestions or questions (not proposals) to [IMS2018workshops@gmail.com](mailto:IMS2018workshops@gmail.com) or [IMS2018shortcourses@gmail.com](mailto:IMS2018shortcourses@gmail.com).