



2014 IEEE MTT-S International Microwave Workshop Series on RF and Wireless Technologies for Biomedical and Healthcare Applications (IMWS-Bio 2014)

8 – 10 December 2014 | Canary Wharf Hilton, London, UK

www.imws2014.org

Call for Papers

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Conference Secretary:

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The 2014 IEEE MTT-S International Microwave Workshop Series on RF and Wireless Technologies for Biomedical and Healthcare Applications (IMWS-Bio 2014) will be held on 8-10 December, 2014, in London, UK. The conference is technically co-sponsored by the **IEEE** Microwave Theory and Techniques Society (**MTT-S**) and Antennas and Propagation Society (**APS**), with Queen Mary, University of London (**QMUL**) being the main organising institute. The meeting is intended to provide an international forum for the exchange of information on state-of-the-art research in bio-electromagnetic, RF and wireless technologies for medical systems and healthcare services and ICT initiatives bridging the science of microwaves and EM with biomedical applications. For more information, please visit the conference website at: www.imws2014.org

IMWS-Bio 2014 will bring together world-renowned expertise, industrial stakeholders and distinguished speakers who will be invited to deliver keynote speeches on technology trends and significant advances in relevant topics.

The IMWS is an initiative promoted by the MTT-S Members & Geographic Committee, to complement the existing workshops of the MTT-S International Microwave Symposium. The purpose of this new platform is to boost and promote MTT-S technical and educational activities, as well as MTT-S international exchanges and collaboration.

General Topics

The topics of IMWS-Bio 2014 include (but are not limited to) the following technical areas:

- RF and wireless techniques for implants and body-centric communications
- Numerical techniques for bio-electromagnetic applications and research challenges
- RF, antennas and body channel modelling for off/on/in-body communications
- Microwave imaging for medical applications
- Wireless localisation and positioning in medicine and healthcare services
- Community-oriented healthcare services for bio-signals and remote patient monitoring
- Electromagnetic fields' interaction with molecular structures moving to nano-communication.
- Millimetre-wave and THz characterization of biological materials and living systems
- RF/microwave methods and hardware for high-field MRI
- Therapeutic and diagnostic applications of RF/microwave technologies
- Issues in governing standards, regulations, compliance, and safety

Paper Submission

Prospective authors are invited to submit manuscripts in electronic (PDF) format only. All papers must be written in English and limited to 4 pages, including text, references, and figures. The template is available on the IMWS-Bio 2014 website. Papers submitted will be peer reviewed and all presented papers at the conference will be submitted to be included in IEEE Xplore pending quality review.

Best Paper Awards

Awards for Best Paper(s) and Best Student Paper(s) will be presented to the winners at the conference. The Awards Committee will judge the papers primarily on originality, significance, technical soundness, presentation, and reviewers' reports. To qualify for the Best Student Paper, the first author must be a full-time student who presents the paper at the conference.

Important Dates

Research/project Demonstrator Proposal Deadline

Paper Submission Deadline

Notification of Acceptance

Final Paper Deadline

7th July 2014

28th July 2014

15th September 2014

8th October 2014

Exhibits/Sponsors/Demonstrators

IMWS-Bio 2014 presents a unique opportunity for industrial and academic stakeholders to exhibit their work and products. This also applies to publishers and research groups interested in demonstrating their scientific advances and state-of-the-art progress within the main topics of the conference. For more information and options, please contact info@imws2014.org