

CALL for PARTICIPATION

Workshop on THz Research, Technology and Applications
Organized by Hermes Partnership and IMEC Academy
May 18, 2017, Leuven, Belgium

Scope of the Workshop

THz-technology is expanding beyond the confines of theoretical of physics into the world of technical research, applied engineering and application developers. Today, technologies offer mmW / sub-THz range, to increase the power and performance of such devices and make THz-applications possible in many sectors that were previously not possible. With the prospect of real commercial exploitation, the engineering Hermes Partners and other are involved in many THz research projects. Technology demonstrators have been developed.

Hermes Partnership, together with the IMEC Academy will jointly organize a workshop on current scientific and applied research in the MmW / THz domain with a focus on THz-sensing and THz-telecommunications. A strong emphasis will be on application needs and requirements. Aim of the workshop is to bridge research and the needs of industry and SME. As such, the participation of Industry and SME companies is highly appreciated. Expert researchers, are invited to make a condensed presentation of their results and end-users are invited to present a concise overview their needs and requirements. Presentations are sought in the following areas:

Health, Bio sensing, advanced sensors Vital Signs Monitoring Assisted living Stress sensing Skin sensing, sensing for health purposes	THz communications Tbit communications D-band communications (e.g. 5G backhaul) Miniature and high performance antennas
Security Food: Detection of foreign objects in dry food Liquid Sensing, Environment Chemical Analyses Applications Pollution detection	Other applications and applied THz in practice mmW / sub-THz radar THz technology, electronics, demonstrators THz applications, design requirements, technology demands

Invited expert talks

The workshop discussions will be accompanied by two invited expert presentations.

Key note talk: The M3TERA project. Speaker: *** M3TERA envisions the wide-spread use of low-cost THz technology, enabled by a micro machined heterogeneous integration platform. This provides an unprecedented way to highly-integrated, volume-manufacturable, reliable, reconfigurable, cost- and energy-efficient submillimeter-wave and terahertz (THz) systems. www.m3tera.eu	Invited presentation 2 To decide
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Workshop Organization and participation

The workshop focuses on the development of new research directions and application development in the THz domain. Active participation of industries / SME's active –or interested- in the THz area is highly appreciated. The number of participants is limited to 30. Research groups, industries, SME's and other interested to join the workshop are requested to contact the workshop organization by email or via the workshop website. The workshop will cover one day, --to decide --. Venue will be at IMEC Academy, Belgium. Registration information and more information on the workshop will be via IMEC-Academy --- link to establish --- This site is also addressable via the Hermes website: www.hermes-europe.com/THz