

THz DETECTORS TECHNOLOGY

THEMATIC WORKSHOP ON RESEARCH AND APPLIED FRONTIERS

Two-day roundtable event brings together industry professionals and researchers to explore the cutting-edge applications and research frontiers of THz technology. This workshop aims to map the state-of-the-art and foster collaboration, knowledge exchange, and innovation in the rapidly evolving field of terahertz technology. Participants will have the opportunity to engage in insightful discussions, share their latest findings, and explore potential industrial applications that leverage the unique properties of THz waves.

FEBRUARY 15-16

VENICE



SPEAKERS

Carlo Sirtori - *professor at Ecole Normale Supérieure in Paris, France*

Demonstration of first quantum cascade laser in the mid-infrared range. Active in the development of THz and mid-infrared detectors and photoreceivers based on optomechanical resonators and quantum-well-infrared photodetection in metamaterials.

Alessandro Tredicucci - *professor at University of Pisa, Italy*

Demonstration of first quantum cascade laser in the THz range. Active in the development of THz detectors based on low-dimensional materials such as graphene and semiconductor nanowires.

Alessandro Pitanti - *H-cube project coordinator*

Development of thermomechanical bolometers as THz and sub-THz detectors for hyperspectral focal-plane array imaging.

Stefano Bonetti - *professor at Ca' Foscari University of Venice, Italy*

Pioneer of the field of terahertz magnetism using intense sources. Active in the design of magnetic-field enhancing metamaterials.

SPEAKERS

Francesco M. Vitucci - *Coordinator of the Spectroscopy & Physical Science department in Crisel Instruments srl.*

Responsible for the R&D department in spectroscopy and imaging for physical science application. Expert in THz frequency and time domain imaging and multi and hyperspectral imaging in the infrared range has been PI of two EU granted R&D projects in THz Imaging and spectroscopy fields.

Nick Graham-Rack - *CTO of Thruvision, the leading provider of passive terahertz imaging systems for screening.*

He has particular interests in signal and image processing and sensor fusion for machine vision in the terahertz band. Previously he was CTO of Detica, which is now BAE Systems Digital Intelligence.

Yang Hao - *Professor at Queen Mary University of London.*

Active in communications, sensing and detection using electromagnetics, antennas, phased arrays and metasurfaces for microwave to THz applications

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