



CNR-INO
ISTITUTO NAZIONALE DI OTTICA
CONSIGLIO NAZIONALE DELLE RICERCHE

Galileo's
briefings

Recent advancements in detection principles and applications

Thursday, 10 October, 2024 | 10:00am

PROGRAM



Galileo's Briefing 2024
October 10th, 2024
CNR-INO c/o CSMT, ICH room

10:00 Welcome and Institutional Remarks

Dr. **A. Ponzoni**, CNR-INO, Galileo's Briefing 2024 Chair
Dr. **C. Baratto**, CNR-INO, Galileo's Briefing 2024 co-Chair
Prof. **F. S. Cataliotti**, CNR-INO, Director
Prof. **F. Baronio**, UNIBS-DII, Director
Dr. **R. Trichilo**, CSMT, CEO

10:20 Prof. **C. De Angelis**, UNIBS-DII and CNR-INO

Analog computing with photonic metasurfaces

10:40 Prof. **C. Giannetti**, UNICATT

Ultrafast coherent control of the insulator-to-metal Mott transition in Mottronic devices

11:00 Prof. **M. Marangoni**, POLIMI and CNR-IFN

Coherent Raman Metrology of Molecular Hydrogen

11:20 Coffee break

11:45 **Dr. G. Gagliardi**, CNR-INO

Liquid and solid whispering-gallery microresonators: a novel platform for sensing, photonics and optomechanics

12:05 Prof. **E. Sardini**, UNIBS-DII

Printing technology from innovative sensors to new smart products

12:25 Dr. **S. Borri**, CNR-INO

Investigating the sensitivity limits of cavity-enhanced photoacoustic trace-gas sensors

12:45 Lunch

14:15 Dr. **F. D'Amato**, CNR-INO

Detection using light: direct and indirect measurements

14:35 Dr. **A. Mignani**, CNR-IFAC

Pocket-Sized Optical Spectroscopy: Revolutionizing Food Analytics at Your Fingertips

14:55 Prof. **V. Ferrari**, UNIBS-DII and CNR-INO

Exploring New Detection Opportunities with ElectroMechanical Microsystems

15:15 Coffee break

15:40 Prof. **L. Sangaletti**, UNICATT

Graphene platforms for artificial olfaction: from chemiresistors to virtual electronic noses

16:00 Dr. **A. Ponzoni**, CNR-INO and UNIBS-DII

Temperature modulation based electronic nose and its application in agrifood field

16:20 Dr. **C. Baratto**, CNR-INO and UNIBS-DII

In situ Raman investigation of plant pathogens for next generation agriculture

16:40 Conclusions