

PIERS 2019 Rome

Photonics & Electromagnetics Research Symposium
also known as Progress In Electromagnetics Research Symposium

Program

June 17–20, 2019
Rome, ITALY

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- 10:00 Interband Cascade Lasers Frequency Noise Characterization and Stabilization
Invited
Simone Borri (CNR-INO, Istituto Nazionale di Ottica); Mario Siciliani De Cumis (ASI Agenzia Spaziale Italiana — Centro di Geodesia Spaziale); Silvia Viciani (CNR-INO, Istituto Nazionale di Ottica); Francesco D'Amato (CNR-INO, Istituto Nazionale di Ottica); Paolo De Natale (CNR-INO, Istituto Nazionale di Ottica);
- 10:20 Strategies for Frequency Stabilization and Noise Reduction in Dual-QCL-comb Spectroscopy
Invited
Stephane Schilt (Université de Neuchâtel); Pierre Brochard (Université de Neuchâtel); Atif Shehzad (Université de Neuchâtel); Renaud Matthey (Université de Neuchâtel); Andreas Hugi (IRsweep AG); Pierre Jouy (IRsweep AG); Filippos Kapsalidis (Institute for Quantum Electronics, ETH Zurich); Mehran Shahmohammadi (Institute for Quantum Electronics, ETH Zurich); Michele Gianella (Laboratory for Air Pollution/Environmental Technology); Jerome Faist (ETH Zurich); Lukas Emmenegger (Laboratory for Air Pollution/Environmental Technology); Thomas Sudmeyer (Université de Neuchâtel);
- 10:40 Vernier Superstructure Grating Quantum Cascade Lasers with Gain Compensation and Non-uniform Channel Spacing
Nicolas Villa (Alpes Lasers SA); Gregory Strubi (Alpes Lasers SA); Stephane Blaser (Alpes Lasers SA); Tobias Gresch (Alpes Lasers SA); Jeremy Butet (Alpes Lasers SA); Antoine Muller (Alpes Lasers SA);
- 11:00 **Coffee Break**
- 11:30 Quantum Cascade Lasers and Frequency Combs
Keynote
Jerome Faist (ETH Zurich);
- 12:00 Spectrally Tunable Germanium-on-silicon Photodetectors: Design and Simulations
Andrea De Iacovo (University Roma Tre); Andrea Ballabio (Politecnico di Milano and L-NESS); Jacopo Frigerio (Politecnico di Milano and L-NESS); Lorenzo Colace (University Roma Tre); Giovanni Isella (Politecnico di Milano);
- 12:15 QCLs and QCDs: On-chip and Remote Sensing
Invited
Gottfried Strasser (Vienna University of Technology (TU Wien)); B. Hinkov (Technische Universitaet Wien); Rolf Szedlak (Technische Universitaet Wien); H. Detz (Technische Universitaet Wien); A. M. Andrews (Technische Universitaet Wien); W. Schrenk (Technische Universitaet Wien); B. Schwarz (Technische Universitaet Wien);
- 12:35 Germanium Quantum Wells for Far-infrared Lasers Assembled Using Silicon-based Heterostructures (FLASH)
Chiara Ciano (Università Roma Tre); Michele Virgilio (Università di Pisa); Michele Montanari (Università Roma Tre); Luca Persichetti (Università Roma Tre); Luciana Di Gaspare (Università Roma Tre); Michele Ortolani (Sapienza University of Rome); Leonetta Baldassarre (Sapienza University of Rome); Luigi Bagolini (Università Roma Tre); Marvin H. Zoellner (IHP — Leibniz-Institut für Innovative Mikroelektronik); Oliver Skibitzki (IHP — Leibniz-Institut für Innovative Mikroelektronik); David Stark (Institute for Quantum Electronics); Giacomo Scaliari (ETH Zurich); Jerome Faist (Eidgenössische Technische Hochschule); Douglas J. Paul (University of Glasgow); Kirsty Rew (University of Glasgow); Mario Scuderi (Istituto per la Microelettronica e Microsistemi (CNR-IMM)); Giuseppe Nicotra (Istituto per la Microelettronica e Microsistemi (CNR-IMM)); Thomas Grange (Nextnano GmbH); Stefan Birner (Nextnano GmbH); Giovanni Capellini (Università Roma Tre); Monica De Seta (Università Roma Tre);
- 12:50 Long Path Optical Absorption Spectroscopy for Measurement of Greenhouse Gases and Dissolved Gases
Invited
Jiajin Chen (Anhui Institute of Optics & Fine Mechanics, Chinese Academy of Sciences); Yang Dong (Anhui Institute of Optics & Fine Mechanics, Chinese Academy of Sciences); Jingjing Wang (Anhui Institute of Optics & Fine Mechanics, Chinese Academy of Sciences); Kunyang Wang (Anhui Institute of Optics & Fine Mechanics, Chinese Academy of Sciences); Mingsi Gu (Anhui Institute of Optics & Fine Mechanics, Chinese Academy of Sciences); Xingyu Zhou (Anhui Institute of Optics & Fine Mechanics, Chinese Academy of Sciences); Kun Liu (Anhui Institute of Optics & Fine Mechanics, Chinese Academy of Sciences); Tu Tan (Anhui Institute of Optics & Fine Mechanics, Chinese Academy of Sciences); Guishi Wang (Anhui Institute of Optics & Fine Mechanics, Chinese Academy of Sciences); Xiaoming Gao (Anhui Institute of Optics and Fine Mechanics, Chinese Academy of Sciences);