

Program for EMN Meeting on Terahertz 2016

Saturday May 14

14:00-18:00 **Onsite registration & Sign up**

Sunday May 15

Room A

Keynote **Chair: Hiroshi Okamoto**

09:00-09:35	A01: Opening and closing the terahertz gap	Roger Lewis University of Wollongong, Australia
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Session: General I **Chair: Yuriy Divin**

09:35-10:00	A02: Generation of THz Waves by Using Intense Laser-Plasma Interaction	Hyyong SUK Gwangju Institute of Science and Technology, Korea
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10:00-10:25	A03: Terahertz-field-induced ferroelectricity and insulator-metal transition in correlated electron materials	Hiroshi Okamoto University of Tokyo, Japan
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10:25-10:50	A04: Non-thermal effect of sub THz waves on human lung cancer cells: mortality and senescence effects	Asher Yahalom Ariel University, Israel
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10:50-11:15	A05: Sub-Cycle Multiterahertz Quantum Optics	Denis Seletskiy Universitaet Konstanz, Germany
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11:15-11:40	A06: Development of tellurium based glasses for mid and far infrared sensing	Bruno Bureau Universit éde Rennes 1, France
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11:40-11:55 **Session Break**

Session: General II **Chair: Hiroshi Okamoto**

11:55-12:20	A07: Generation and Characterization of Sub-Cycle Mid-Infrared Pulses Using THz Technologies	Takao Fuji Institute for Molecular Science, Japan
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12:20-12:45	A08: Terahertz Detection and Spectral Analysis with High-Tc Josephson Junctions	Yuriy Divin Institute of Radio Engineering and Electronics, RAS, Russia
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12:45-13:10	A09: Amplification of THz waves in semiconductor heterostructures	Juraj Darmo Technische Universiteit Wien, Austria
13:10-13:35	A10: When Can We Say That Terahertz IC's Have Become Mainstream?	Don Smith NXP Semiconductors, USA
13:35-14:00	A11: New Methods of Amplification and Lasing of SubTHz – VUV Radiation in Plasma Channels Formed in Gases by a High Intensity Femtosecond Laser Pulse	Bogatskaya Anna Moscow State University, Russia
14:00	Lunch Break	

Sunday May 15

Room B

Session: Terahertz Sources I Chair: Christian Caspers

15:30-15:55	B01: Room-Temperature Resonant-Tunneling-Diode THz Oscillators and Their Functions for Various Applications	Masahiro Asada Tokyo Institute of Technology, Japan
15:55-16:20	B02: Intense terahertz radiation from plasmas irradiated by relativistic laser pulses	Yutong Li Institute of Physics, CAS, China
16:20-16:45	B03: A Compact, Room Temperature THz Source Based on Difference Frequency Generation	Aleksej Majkic University of Ljubljana, Slovenia
16:45-17:10	B04: Control of THz transients emitted via ionization of gases in strong multicolor fields	Ihar Babushkin Leibniz University of Hannover, Germany
17:10-17:35	B05: Tunable Circularly Polarized Terahertz Radiation from Magnetized Gas Plasma	Wei-Min Wang Institute of Physics, CAS, China
17:35-17:50	Session Break	
Session: General III Chair: Yutong Li		

17:50-18:15	B06: Enhanced THz Guiding Properties of Wire Waveguides	Tae-In Jeon Korea Maritime and Ocean University, Korea
18:15-18:40	B07: Quasioptical High Field ESR – Key to Functional Oxide Surfaces	Christian Caspers École Polytechnique Fédérale de Lausanne EPFL, Switzerland
18:40-19:05	B08: Breaking the resolution limits of aperture-type THz near-field microscopy	Oleg Mitrofanov University College London, UK
19:05-19:30	B09: Silicon- and Silicone-Based Passive Terahertz Devices	Sharath Sriram RMIT University, Australia
19:30-19:55	B10: Absorption-Induced Transparency Metamaterials at Terahertz Regime	Sergio Gutiérrez Rodrigo Universidad de Zaragoza, Spain
20:00	Dinner Social	

Sunday May 15

Room C

Session: Terahertz Spectroscopy I Chair: Wojciech Knap

15:30-15:55	C01: Photocarrier Dynamics in Pure Wurtzite InP Nanowires probed by optical-pump terahertz-probe measurements	Denis Morris Université de Sherbrooke, Canada
15:55-16:20	C02: Terahertz Electro-Reflectance Spectroscopy on Mott Insulators	Tatsuya Miyamoto The University of Tokyo, Japan
16:20-16:45	C03: THz Spectroscopy of Carbon Materials: Carbon Nitride, Graphite, Graphene, etc.	Roberto Dante 2Dto3D S.r.l.s., Italy
16:45-17:10	C04: Using Ultrafast Terahertz Spectroscopy to Study Low Energy Excitations in Quantum and Dirac Materials	Rohit Prasankumar Los Alamos National Laboratory, USA
17:10-17:35	C05: Study of Phase transition dynamics of W-doped VO ₂ film by optical-pump THz-probe spectroscopy	Zhaohui Zhai Institute of Fluid Physics, China Academy of Engineering Physics, China
17:35-17:50	Session Break	
Session: Terahertz Measurements and Imaging I Chair: Rohit Prasankumar		

17:50-18:15	C06: 3D Tomographic Measurements of Temperature and Concentration in THz Domain	Christophe Pradere Université Bordeaux 1, France
18:15-18:40	C07: Funneling of terahertz waves through Angstrom-sized van der Waals gaps	DaiSik Kim Seoul National University, Korea
18:40-19:05	C08: Physics and Applications of Field Effect Transistors for Terahertz Imaging	Wojciech Knap Université Montpellier 2, France
19:05-19:30	C09: Terahertz Phase Imaging: Capabilities of Pulse Time Domain Holography	Nikolay Petrov ITMO University, Russia
19:30-19:55	C10: Probing the THz Response of Biological Cells using Photonic Crystal Resonators	Stephen Hanham Imperial College London, UK
20:00	Dinner Social	

Sunday May 15

Room D

Session: General IV Chair: Hiroshi Ito

15:30-15:55	D01: Detection of Coherent Terahertz Radiation of HTS Josephson Junction by a Semiconductor Quantum Dot Detector	Vladimir Antonov Royal Holloway University of London, UK
15:55-16:20	D02: Pyroelectric Detectors for Precise THz Metrology	Andreas Steiger German Metrology Institute, Germany
16:20-16:45	D03: The prospects for fibre lasers for high power and efficient emission in the mid-infrared	Stuart Jackson Macquarie University, Australia
16:45-17:10	D04: All optical modulation of terahertz quantum cascade lasers	Yohei Sakasegawa National Institute of Information and Communications Technology, Japan
17:10-17:35	D05: Design and Development of Terahertz Extended Interaction Oscillator at IECAS	Wenxin Liu Institute of Electronics, CAS, China
17:35-17:50	Session Break	

Session: Terahertz Emitters and Detectors I Chair: Andreas Steiger

17:50-18:15	D06: Terahertz Emitters, Detectors and Modulators Based on AlGaIn/GaN 2DEG	Hua Qin Suzhou Institute of Nanotech and Nanobionics, CAS, China
18:15-18:40	D07: Terahertz-Wave Emission and Detection by InP-Based Heterostructure Diodes	Hiroshi Ito Kitasato University, Japan
18:40-19:05	D08: Toward Terahertz Emission with Planar GaN Gunn Diodes	Susana Perez Universidad de Salamanca, Spain
19:05-19:30	D09: Fully Integratable THz Transmitters in Nanometer CMOS	Wouter Steyaert KU Leuven, ESAT-MICAS, Belgium
19:30-19:55	D10: Visualization of millimeter and terahertz waves emitted from free-running devices	Shintaro Hisatake Osaka University, Japan
20:00	Dinner Social	

Monday May 16		
Room B		
Session: Terahertz Spectroscopy II		Chair: Peter Weightman
09:00-09:25	B11: Spin, Lattice and Cooper Pairs Dynamics in Ba(Fe,Co)2As2 Seen by Ultrafast Pulses	Kyungwan Kim Chungbuk National University, Korea
09:25-09:50	B12: Probing Ultrafast Charge Carrier Dynamics in Advanced Semiconductor Nanowires Using Time-Resolved Terahertz Spectroscopy	Hannah Joyce University of Cambridge, UK
09:50-10:15	B13: Measurement of Dielectric Property in Terahertz Region Using Far-Infrared Ellipsometer	Takuya Hoshina Tokyo Institute of Technology, Japan
10:15-10:40	B14: Broadband spectroscopy of dipole-dipole correlations in an ordered system of water molecules in beryl	Elena Zhukova A.M. Prokhorov General Physics Institute, RAS, Russia
10:40-11:05	B15: Terahertz radiation from grating-gated plasmonic AlGaIn/GaN HEMT structures	Irmantas Kasalynas Center for Physical Sciences and Technology, Vilnius, Lithuania
11:05-11:20	Session Break	
Session: General V		Chair: Elena Zhukova

11:20-11:45	B16: Liquid Crystalline Polymer Based THz Microstrip Patch Antenna Array Design with Improved Gain and Fabrication Tolerance	Muhammad Saqib Rabbani University of Birmingham, UK
11:45-12:10	B17: Efficient Terahertz Emission, Detection, and Ultrafast Modulation Using Microcavity Type One-Dimensional Photonic Crystal	Noriaki Tsurumachi Kagawa University, Japan
12:10-12:35	B18: The role of THz modes of vibration in DNA organisation and gene expression	Peter Weightman University of Liverpool, UK
12:35-13:00	B19: Intense Terahertz pulses for controlling magnetization dynamics on the ultrafast time scale	Christoph Peter Hauri Paul Scherrer Institut, Switzerland
13:00-13:25	B20: The TeraFERMI beamline at the FERMI free-electron-laser: status report and first commissioning results	Andrea Perucchi Elettra Sincrotrone Trieste, Italy
14:00	Lunch Break	

Monday May 16

Room C

Session: Terahertz Emitters and Detectors II

Chair: Riccardo Degl'Innocenti

09:00-09:25	C11: Terahertz homodyne self-mixing and its application to two-dimensional tomographic terahertz imaging	Wolfgang Elsaesser Darmstadt University of Technology, Germany
09:25-09:50	C12: Terahertz Detection Using Strained Silicon MODFET and Application for Imaging	Yahya Moubarak MEZIANI Universidad de Salamanca, Spain
09:50-10:15	C13: THz fast detectors and THz metadevices based on type-II superconductors	Sara Cibella Istituto di Fotonica e Nanotecnologie - CNR, Italy
10:15-10:40	C14: Tera Hertz (THz) Sources and Detectors using C-irradiated SI-GaAs	Shriganesh Prabhu Tata Institute of Fundamental Research, India
10:40-11:05	C15: THz detectors based on silicon MOSFETs integrated with planar antennas for spectroscopy applications	Jerzy Lusakowski University of Warsaw, Poland

11:05-11:20	Session Break	
Session: Terahertz Plasmonics I Chair: Yahya Moubarak MEZIANI		
11:20-11:45	C16: Terahertz Sensors and Splitters Using Surface Plasmon Polariton Propagation Properties	Jun Shibayama Hosei University, Japan
11:45-12:10	C17: Fast Modulation of THz Quantum Cascade Lasers Using Graphene Loaded Plasmonic Antennas	Riccardo Degl'Innocenti University of Cambridge, UK
12:10-12:35	C18: Plasmonic THz Devices Based on InP HEMTs and Graphene FETs	Akira Satou Tohoku University, Japan
12:35-13:00	C19: Photoelectron trajectory control in THz near-fields at metal nanotips	Lara Wimmer Georg-August University, Germany
13:00-13:25	C20: Electromagnetic Modelling of Terahertz Plasmons in Two-Dimensional Semiconductors	Oleksiy Sydoruk Imperial College London, UK
14:00	Lunch Break	

Monday May 16		
Room D		
Session: Terahertz Sources II Chair: Lucien Saviot		
09:00-09:25	D11: Extreme THz Optics at the Canadian Advanced Laser Light Source	Tsuneyuki [John] Ozaki Institut National de La Recherche Scientifique, Canada
09:25-09:50	D12: Filling the THz gap with high-Tc superconducting emitters of various shapes	Richard A. Klemm University of Central Florida, USA
09:50-10:15	D13: Generation of Coherent Terahertz Radiation based on Laser-electron Interaction in an Electron Storage Ring	Masahiro Katoh Institute for Molecular Science, Japan
10:15-10:40	D14: High performance Integrated Terahertz Graphene Modulator with Quantum Cascade Lasers	Qijie Wang Nanyang Technological University, Singapore
10:40-11:05	D15: Optimization of Tilted-Pulse-Front Excited THz Sources	László Pálfalvi University of Pecs, Hungary

11:05-11:20	Session Break	
Session: Terahertz Materials and Devices I Chair: Richard A. Klemm		
11:20-11:45	D16: Numerical Simulation of Terahertz Semiconductor Devices	Christoph Jungemann Institut für Theoretische Elektrotechnik, Germany
11:45-12:10	D17: Fabrication of Liquid Crystal Grating for Terahertz Wave	Ryota Ito Akita Prefectural University, Japan
12:10-12:35	D18: THz acoustic vibrations of nanoparticles probed by low-frequency Raman scattering	Lucien Saviot CNRS-Université Bourgogne Franche-Comté, France
12:35-13:00	D19: Modulation Active Structure Design Indirect Injection Scheme THz QCLs	Tsung-Tse Lin RIKEN Center for Advanced Photonics, Japan
13:00-13:25	D20: Terahertz Passive Components Based on Micromachining Technique	Yong Zhang University of Electronic Science and Technology of China, China
14:00	Lunch Break	

Monday May 16		
Room B		
Session: Terahertz Materials and Devices II Chair: Karthik KrishneGowda		
15:30-15:55	B21: Rare Earth Doped Semiconductors for THz Sources, Detectors and Applications	Sascha Preu Technische Universität Darmstadt, Germany
15:55-16:20	B22: Development of Organic Nonlinear Optical Crystals for High-Output THz Source	Takeshi Matsukawa Ibaraki University, Japan
16:20-16:45	B23: Sub-THz Ultrastrong Light-Matter Coupling with Landau Levels in Semiconductors and Superconducting Metasurfaces	Giacomo Scalari Institute of Quantum Electronics, Switzerland
16:45-17:10	B24: Crystalline State of Low-Temperature-Grown InGaAs on InP Substrate	Yoriko Tominaga Hiroshima University, Japan

17:10-17:35	B25: Frequency Selective Surfaces and Metasurfaces for THz sensing	Pablo Rodriguez Ulibarri Universidad P ublica de Navarra, Spain
17:35-17:50	Session Break	
Session: Terahertz Wireless Communications I Chair: Giacomo Scalari		
17:50-18:15	B26: InP-HEMT Based MMIC Design and Packaging Techniques for Wireless Communications	Shoichi Shiba Fujitsu Laboratories Ltd, Japan
18:15-18:40	B27: PHY Layer Design for THz Communication	Karthik KrishneGowda Leibniz-Institut Fuer Innovative Mikroelektronik, Germany
18:40-19:05	B28: Terahertz Communication and Related Applications Enabled by Advanced Photonics Technology	Atsushi Kanno National Institute of Information and Communications Technology, Japan
19:05-19:30	B29: Statistical Channel Modeling for Terahertz Communications	Anamaria Moldovan Institute for Digital Communications, Friedrich-Alexander-University Erlangen-N urenberg, Germany
20:00	Dinner Social	

Monday May 16		
Room C		
Session: Terahertz Measurements and Imaging II Chair: Daryoosh Saeedkia		
15:30-15:55	C21: THz Time-Domain Spectroscopy Using a Phase Shifter based on the Stacked Metal Plates	Masaya Nagai Osaka University, Japan
15:55-16:20	C22: A Low-Cost Approach for THz Active Imaging with Silicon Technologies	Janusz Grzyb University of Wuppertal, Germany
16:20-16:45	C23: Investigation of the Hydration States of Water Solved Bio-Medical Polymers Using Terahertz Time-Domain Spectroscopy	Hitoshi Tabata The University of Tokyo, Japan
16:45-17:10	C24: Broadband Terahertz Detection	Matteo Clerici University of Glasgow, UK

17:10-17:35	C25: Anomalous Visualization of Low Frequency THz on CCD and CMOS Imaging Sensors	Mostafa Shalaby Paul Scherrer Institute, Switzerland
17:35-17:50	Session Break	
Session: Terahertz Measurements and Imaging III Chair: Hitoshi Tabata		
17:50-18:15	C26: THz Tomography Imaging with Solid-State Electrical Source and Detector	Jae-Sung Rieh Korea University, Korea
18:15-18:40	C27: Applications of Terahertz Technology for Plastic Industry	Daryoosh Saeedkia TeTechS Inc., Canada
18:40-19:05	C28: Synchrotron Based THz Spectroscopy: Probing Magneto-Electric Excitations in Multiferroic Compounds	Sophie Debrion Université Grenoble - Alpes, France
19:05-19:30	C29: Evaluation of Terahertz Transmission and Reflection of Elastomer Products mixed with Various Filler Material Amounts	Yasuyuki Hirakawa Kurume College, Japan
19:30-19:55	C30: THz Holography with Micro-Bolometers	Peter Zolliker EMPA, Switzerland
20:00	Dinner Social	

Monday May 16		
Room D		
Session: General VI Chair: Gergely Katona		
15:30-15:55	D21: Low-loss flexible THz Polymer-lined Hollow Metallic Waveguides: Mode Imaging and Dispersion	Miguel Navarro-Cá University of Birmingham, UK
15:55-16:20	D22: Impact Ionization in InSb Induced by Intense Ultrashort Terahertz Pulses	Steponas Asmontas Center for physical Sciences and Technology, Lithuania
16:20-16:45	D23: Terahertz Beam Shaping	Maciej Sypek Warsaw University of Technology, Poland
16:45-17:10	D24: Radiation-induced resistance oscillations in the Terahertz band: Theoretical proposal	Jesus Inarrea Universidad Carlos III de Madrid, Spain

17:10-17:35	D25: Terahertz Guided and Free-Space Filters and Their Fabrications	Yi Wang University of Greenwich, UK
17:35-17:50	Session Break	
Session: Terahertz Spectroscopy III Chair: Steponas Asmontas		
17:50-18:15	D26: Hydrogen bonding network between molecules detected with terahertz spectroscopy	Masae Takahashi Tohoku University, Japan
18:15-18:40	D27: Non-Thermal Effect of Terahertz Radiation in Protein Crystals	Gergely Katona University of Gothenburg, Sweden
18:40-19:05	D28: Development of THz High Field ESR Under High Pressure and Its Applications	Hitoshi Ohta Kobe University, Japan
19:05-19:30	D29: Surface electronic states of topological insulators investigated by nonlinear optical techniques	Jongseok Lee Gwangju Institute of Science and Technology, Korea
19:30-19:55	D30: Intermolecular Conformation and Macromolecular Properties Studied by Terahertz Spectroscopy	Hikomichi Hoshina RIKEN, Japan
20:00	Dinner Social	

Tuesday May 17

Room B

Session: Terahertz Emitters and Detectors III Chair: Matthew Cliffe		
09:00-09:25	B30: Broadband Sub-THz Direct Detection by Planar Nano-Channels: from Monte Carlo Modelling to Experimental Measurements	Ignacio Íñiguez de la Torre Mulas Universidad de Salamanca, Spain
09:25-09:50	B31: Landau-Level Emission and Detection in Two-Dimensional Electron Systems	Kenji Ikushima Tokyo University of Agriculture and Technology, Japan
09:50-10:15	B32: Carbon nanotube based devices for terahertz applications	Georgy Fedorov Moscow State Pedagogical University, Russia

10:15-10:40	B33: Terahertz Planar Gunn Diodes: Signal Detection Technology Developments	Ata Khalid University of Glasgow, UK
10:40-11:05	B34: Time-domain Measurement of Electric Field Emitted from Electron Beam Using Photoconductive Antenna	Koichi Kan Osaka University, Japan
11:05-11:20	Session Break	
Session: Terahertz Sources III Chair: Ignacio Íñiguez de la Torre Mulas		
11:20-11:45	B35: Laser Driven Longitudinally Polarised Terahertz Radiation	Matthew Cliffe The University of Manchester, UK
11:45-12:10	B36: Polarization Control of THz Wave from High-Tc Superconducting Emitters	Shiro Kawabata National Institute of Advanced Industrial Science and Technology, Japan
12:10-12:35	B37: Room Temperature THz Emission by Difference Frequency Generation in Quantum Cascade Lasers	Demmerle Frederic Walter Schottky Institut, Germany
12:35-13:00	B38: GaN-based Resonant Tunneling Diodes and Their Application to THz Sources	Masanori Nagase National Institute of Advanced Industrial Science and Technology, Japan
13:00-13:25	B39: CEP-Stable Tunable THz-Emission from Laser Induced Plasma	Dusan Lorenc International Laser Centre, Slovakia
14:00	Lunch Break	

Tuesday May 17		
Room C		
Session: Terahertz Sources IV Chair: Viacheslav V. Popov		
09:00-09:25	C31: Effective Removal of Hot Spots for High Power Terahertz Emission from High-Tc Cuprate Superconductors	Manabu Tsujimoto University of Tsukuba, Japan
09:25-09:50	C32: Efficient Metallic Spintronic Emitters of Ultrabroadband Terahertz Radiation	Tom Seifert Fritz-Haber-Institute of the Max Planck Society, Germany

09:50-10:15	C33: Coherent Terahertz pulses emitted in synchrotron radiation facilities: analysis using time-stretch electro-optic sampling at SOLEIL	Serge Bielawski Universit�Lille 1, France
10:15-10:40	C34: Development of a Table-Top THz Radiation Source Driven by an RF Thermionic Electron Gun	Alexei Smirnov Radiabeam Technologies, LLC, USA
10:40-11:05	C35: Terahertz Vortex Generation by Using a Tsurupica Spiral Phase Plate	Katsuhiko Miyamoto Chiba University, Japan
11:05-11:20	Session Break	
Session: Graphene and Other 2D Materials for Terahertz Technology Application I Chair: Serge Bielawski		
11:20-11:45	C36: IR and THz Near-Field Nanoscopy of 2D Materials	Rainer Hillenbrand CIC nanoGUNE Consolider, Spain
11:45-12:10	C37: Terahertz Optical Activity of Graphene Nanostructure without Magnetic Field	Viacheslav V. Popov Kotelnikov Institute of Radio Engineering and Electronics (Saratov Branch), RAS, Russia
12:10-12:35	C38: Emission and detection of terahertz radiation in graphene-based van der Waals heterostuctruels	Taiichi Otsuji Tohoku University, Japan
12:35-13:00	C39: Linear and Non-Linear Terahertz Properties of Bi2Se3 Topological Insulator	Stefano Lupi Sapienza University of Rome, Italy
13:00-13:25	C40: Nonlinear Electrodynamic Effects in Graphene for Terahertz Applications	Sergey Mikhailov University of Augsburg, Germany
14:00	Lunch Break	

Tuesday May 17		
Room D		
Session: Terahertz Metamaterials I Chair: James Lloyd-Hughes		
09:00-09:25	D31: Permittivity-Near-Zero (ENZ) Meta-devices at THz Frequencies	Victor Pacheco Pe�a Universidad P�blica de Navarra, Spain
09:25-09:50	D32: Liquid Terahertz Metamaterials	Ilya Shadrivov Australian National University, Australia

09:50-10:15	D33: Terahertz Metamaterials Utilizing Organic and Inorganic Semiconductor Hybrid System	Tatsunosuke Matsui Mie University, Japan
10:15-10:40	D34: Efficient selective detection of millimeter and terahertz waves using ultra-thin metasurface absorbers	Sergei Kuznetsov Novosibirsk State University, Russia
10:40-11:05	D35: Extraordinary Transmission-Based Metasurfaces and Metamaterials for THz Applications	Miguel Beruete Public University of Navarre, Spain
11:05-11:20	Session Break	
Session: Terahertz Spectroscopy IV Chair: Ilya Shadrivov		
11:20-11:45	D36: Terahertz Signatures of Dynamic Arrest in Paint: From Basic Science to an Industrial Application	Dook van Mechelen ABB Corporate Research, Switzerland
11:45-12:10	D37: Spin-split Terahertz Cyclotron Resonances in Ge Quantum Wells	James Lloyd-Hughes University of Warwick, UK
12:10-12:35	D38: Terahertz Emission Spectroscopy of Thermoelectric Materials	Kouhei Takahashi Panasonic Corporation, Japan
12:35-13:00	D39: Light-Induced Primary Charge Translocation Processes Generating Coherent Terahertz Radiation in Bacteriorhodopsin	Géza Groma Hungarian Academy of Sciences, Hungary
13:00-13:25	D40: Terahertz conductivity in semiconductor nanostructures: the role of depolarization fields and charge confinement	Hynek Nemeč Institute of Physics, Academy of Sciences of the Czech Republic, Czech Republic
14:00	Lunch Break	

Tuesday May 17**Room B****Session: General VII****Chair: Shin'ichiro HAYASHI**

15:30-15:55	B40: Rapid THz OSCAT Spectroscopy with Phase-Locked Loop Stabilization	Rafal Wilk Menlo Systems GmbH, Germany
15:55-16:20	B41: High-Resolution Inspection of Large-Area Conductive Microstructures Using a Terahertz Near-Field Microprobe Scanning System	Michael Nagel Protemics GmbH, Germany
16:20-16:45	B42: Beyond Chipless RFID, the Terahertz Identification	Etienne Perret Institut Universitaire de France, France
16:45-17:10	B43: Nonlinear Optical Wavelength-Conversion using periodically poled LiNbO3 for Sensitive Terahertz-Wave Detection	Kouji Nawata Tera-Photonics Laboratory, RIKEN, Japan
17:10-17:35	B44: Tools and Methods for the Development of Tera Hertz Transmission Line and Its Detection	Aharon Friedman Ariel University, Israel
17:35-17:50	Session Break	
Session: Terahertz Sources V		
Chair: Michael Nagel		
17:50-18:15	B45: Variable Polarized Narrowband THz Source Based on Undulator Super-radiances	Hiroyuki Hama Tohoku University, Japan
18:15-18:40	B46: THz Beam interactions with an Electron beam Bunch: Coherent Emission, Acceleration, Bunching, Streaking	Avraham Gover Tel Aviv University, Israel
18:40-19:05	B47: Terahertz-wave parametric wavelength conversion	Shin'ichiro HAYASHI RIKEN Center for Advanced Photonics, Japan
19:05-19:30	B48: Super-Resolution Discrete Fourier Transform Spectroscopy Beyond Time Window Size Limitation Using Precisely Periodic THz Pulse Train	Takeshi Yasui The University of Tokushima, Japan
19:30-19:55	B49: THz electro-optic modulation of visible light by THz radiation	Vincent Juvé Université du Maine, France

20:00	Dinner Social
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Tuesday May 17		
Room C		
Session: Terahertz Measurements and Imaging IV		Chair: Pieter de Visser
15:30-15:55	C41: Frequency measurement of terahertz waves by electro-optic sampling using Mach-Zehnder-modulator based comb	Norihiko Sekine National Institute of Information and Communications Technology, Japan
15:55-16:20	C42: Review of a THz wideband camera core imaging capabilities	Alain Bergeron Institut National d'Optique, Canada
16:20-16:45	C43: An Artificial Calibration Source Based on the Photonic THz Technique for High-Frequency Radio Astronomy	Hitoshi Kiuchi National Astronomical Observatory of Japan, Japan
16:45-17:10	C44: Probing Living Cells Composition by THz Attenuated Total Reflection – Application to Quantitative Permeabilization Measurement	Marianne Grognot Ecole Polytechnique, France
17:10-17:35	C45: THz spectroscopic imaging of chemicals hidden in thick envelopes	Kosuke Murate Nagoya University, Japan
17:35-17:50	Session Break	
Session: Terahertz Spectroscopy V		Chair: Alain Bergeron
17:50-18:15	C46: Precise THz-TDS of Materials with High Absorption Peaks	Frederic GARET University of Savoy, France
18:15-18:40	C47: Ultrabroadband THz Time Domain Spectroscopy of Photo-Excited Graphene	Masatsugu Yamashita RIKEN Center for Advanced Photonics, Japan
18:40-19:05	C48: Strong suppression of magnetic circular dichroism and valley selective pumping at terahertz frequencies due to the effective mass anisotropy in bismuth	Pieter de Visser University of Geneva, Switzerland
19:05-19:30	C49: Estimation of Wood Properties by THz Time Domain Spectroscopy	Tetsuya Inagaki Nagoya University, Japan

19:30-19:55	C50: Plasma excitations in a high electron mobility GaAs/AlGaAs heterostructure	Marcin Bialek University of Warsaw, Poland
20:00	Dinner Social	

Tuesday May 17

Room D

Session: Terahertz Sources VI

Chair: Luis Martin Moreno

15:30-15:55	D41: High-frequency current oscillations in graphene-boron nitride resonant tunnel diodes	Mark Greenaway University of Nottingham, UK
15:55-16:20	D42: Dynamics of injection seeded quantum cascade lasers	Nathan Jukam Ruhr-Universität Bochum, Germany
16:20-16:45	D43: Terahertz Generation from Waveguide Nonlinear Optical Crystals Using Cherenkov Phase Matching	Kei Takeya Nagoya University, Japan
16:45-17:10	D44: Coherent Emission from Arrays of Niobium Josephson Junctions for Applications	Fengbin Song China Electronics Technology Group Corporation, China
17:10-17:35	D45: Broad-tunable terahertz radiation from over-mode waveguide driven by train of electron bunches	Weihao Liu University of Science and Technology of China, China
17:35-17:50	Session Break	

Session: Graphene and Other 2D Materials for Terahertz Technology Application II

Chair: Mark Greenaway

17:50-18:15	D46: Graphene Quantum Dots for High-Performance Terahertz Bolometers	Paola Barbara Georgetown University, USA
18:15-18:40	D47: Mechanisms for enhancing magneto-optical effects in graphene in the THz Regime	Luis Martin Moreno Universidad de Zaragoza, Spain
18:40-19:05	D48: Terahertz and Infrared Magneto-Optical Effects in Graphene	Alexey Kuzmenko Université de Genève, Switzerland
19:05-19:30	D49: Terahertz Photogalvanics and Opto-Electronic Characterization of Topological Insulators	Sergey Ganichev University of Regensburg, Germany

19:30-19:55	D50: Manipulation of THz Electromagnetic Fields with Graphene Plasmons	Alexey Nikitin CIC nanoGUNE Consolider, Spain
20:00	Dinner Social	

May 18
One day Academic exchange & Excursion

Monday May 16	
17:35-17:50	
Poster Session	
P1: Direct Measurement of the Geometric Phase of Metal Screw Hole Arrays in THz-TDS	Tetsuo Iwata Tokushima University, Japan
P2: THz components for science and real industrial applications	Itziar Maestrojuán Universidad Pública de Navarra, Spain