

Program for EMN Orlando Meeting

October 2-6, 2017, Orlando, USA

Monday October 2, 2017

14:00-17:00

Onsite registration & Sign up

Tuesday October 3, 2017

Room A

8:20-8:30

Opening Ceremony

Session: Keynote(Ultrafast)

Chair: Katharine Moore Tibbetts

8:30-9:05

A01: Photon handling of extreme-ultraviolet and x-ray ultrashort pulses

Luca Poletto
National Research Council - Institute of Photonics and Nanotechnologies, Italy

9:05-9:40

A02: Electron/Hole Transformation between Two Atomic Layers

Junrong Zheng
Peking University, China

Session: Ultrafast General I

Chair: Michael J. Abere

9:40-10:05

A03: Dissociation Dynamics of Dimethyl Methylphosphonate (DMMP) Radical Cation Driven by Ultrafast Wavepacket Motion and Isomerization

Katharine Moore Tibbetts
Virginia Commonwealth University, USA

10:05-10:30

A04: Theory of Ultrafast Electron Emission

Peng Zhang
Michigan State University, USA

10:30-10:45

Session Break

Session: Ultrafast General II

Chair: Luca Poletto

10:45-11:10

A05: Two-temperature Modelling in Femtosecond Laser Ignition of Reactive Nanolaminates

Michael J. Abere
Sandia National Laboratories, USA

11:10-11:35

A06: Real space observation of multiferroic domain control in spin-driven ferroelectrics

Masakazu Matsubara
Tohoku University, Japan

11:35-12:00	A07: High-resolution tomographic imaging using hard x-rays from compact laser-driven accelerators	Daniel Symes GEMINI Laser Group, Central Laser Facility, Rutherford Appleton Laboratory, UK
12:00-14:00	Lunch Break	

Tuesday October 3, 2017		
Room A		
Session: Supramolecular General I		Chair: Kei Ohkubo
14:00-14:35	A08: To be announced	Kim R. Dunbar Texas A&M University, USA
14:35-15:00	A09: To be announced	Takahiro Ichikawa Tokyo University of Agriculture and Technology, Japan
15:00-15:25	A10: To be announced	Eugenia Kharlampieva University of Alabama at Birmingham, UK
15:25-15:40	Session Break	
Session: Sensors General I		Chair: Isabelle Leray
15:40-16:05	A11: Next generation integrated SiC-sensors based on advanced SiC semiconductor technology	Christian Matthus University of Erlangen-Nuremberg, Germany

16:05-16:30	A12: Monolayer TMDC phototransistor array for manufacturing prototype monolithic 3D image sensor	Chih-Chao Yang National Nano Device Laboratories (NDL), Taiwan
Session: Environment and Materials General I		Chair: Emanuele Mandanici
16:30-16:55	A13: Construction and demolition waste – a huge material resource for the building industry	Christian J. Engelsen SINTEF Building and Infrastructure, Norway
16:55-17:20	A14: Nondestructive 3D hard material characterization with high energy synchrotron X-ray phase-tomography	Huiqiang Liu Xinjiang Medical University, China
17:40	Dinner Social	

Wednesday October 4, 2017		
Room A		
Session: Ultrafast General III		Chair: Michael J. Abere
8:30-8:55	A15: Magneto-optics in the 25 T Split-Helix Magnet	Stephen McGill National High Magnetic Field Laboratory in Tallahassee (Florida), USA
8:55-9:20	A16: Ultrafast Optical Sampling and Its Applications in Imaging, Spectroscopy and Lidar	Lingze Duan The University of Alabama in Huntsville, USA

9:20-9:45	A17: Ultrafast terahertz spectroscopy	Masaaki Ashida Osaka University, Japan
9:45-10:10	A18: Experimental Demonstration for High Efficiency Optical Parametric Chirped Pulse Amplification in SGII-5PW System	Meizhi Sun Shanghai Institute of Optics and Fine Mechanics, CAS, China
10:10-10:25	Session Break	
Session: Sensors General II Chair: Jingtao Sun		
10:25-10:50	A19: Microfluidic fluorescent sensors for the detection of toxic cations	Isabelle Leray ENS Paris Saclay, Laboratory PPSM, France
10:50-11:15	A20: Smart Sensors for the Internet of Things	Xing Liu Kwantlen Polytechnic University, Canada
11:15-11:40	A21: Visible sensor guided drug delivery and targeting	Shiguo Sun Northwest A&F University, China
11:40-12:05	A22: Hall sensor based microsystem for accurate micromagnetometry measurements	Vincent Mosser Research & Engineering Advisor, France
12:05-14:00	Lunch Break	

Wednesday October 4, 2017

Room A

Session: Supramolecular General II

Chair: Kim R. Dunbar

14:00-14:35	A23: To be announced	Richard J. Spontak North Carolina State University, USA
14:35-15:00	A24: To be announced	Kei Ohkubo Osaka University, Japan
15:00-15:25	A25: Nano supramolecular photocatalytic materials for water remediation	Lorena Barrientos-Poblete Pontificia Universidad Católica de Chile, Republic of Chile
15:25-15:50	A26: To be announced	Veronika Kozlovskara University of Alabama at Birmingham, UK
15:50-16:15	Poster Session & Break	
Session: Environment and Materials General II		Chair: Lucien Velea
16:15-16:40	A27: Thermal remote sensing in urban environments	Emanuele Mandanici University of Bologna, Italy
16:40-17:05	A28: Soil Nano Materials Detection of Farming Sites by means of Visible and Near-Infrared Diffuse Reflectance Spectroscopy	Karbhari Vishwanath Kale Babasaheb Ambedkar Marathwada University, India
17:05-17:30	A29: Advanced NDE technology for aerospace application	George Dovgalenko Stratford University, USA
17:50	Dinner Social	

Thursday October 5, 2017

Room A

Session: Ultrafast General IV

Chair: Stephen McGill

8:30-8:55	A30: Recent developments in Pulse-Measurement: Coherent Artifacts, Spatiotemporal Measurement, and Algorithm Speed	Travis Jones Georgia Institute of Technology, USA
8:55-9:20	A31: Photoreactivity of functionalized dithienylethenes for supramolecular assembly: from the solution to the photoresponsive thin film	Stephane Aloise University of Lille, Sciences and Technologies - France
9:20-9:45	A32 Generation of Intense broadband THz-Coherent Transition Radiation	Wenjun Ding Institute of High Performance Computing (IHPC), A*STAR, Singapore
9:45-10:10	A33: Structural dynamics of photocatalysts observed by ultrafast time resolved XAFS	Yohei Uemura Institute for Molecular Science, Japan
10:10-10:25	Session Break	
Session: Environment and Materials General III		Chair: Chengjiao Yu
10:25-10:50	A34: Environments versus corrosion of metals: testing and interpretation of the results	Lucien Veleva CINVESTAV-IPN, Mexico
10:50-11:15	A35: High Density Vacuum Nanoelectronic Devices by Transfer Mold Method for Green Electronics	Masayuki Nakamoto Shizuoka University, Japan
Session: Sensors General III		Chair: Xing Liu
11:15-11:40	A36: Dynamic Sensor-Based Energy Sharing Framework for Distributed Residential Environment	Jingtao Sun National Institute of Informatics, Japan
11:40-12:05	A37: The Trends on Decoration of Metal Oxide by Carbon Nanotube for Gas Sensor Application	Brian Yulianto Institut Teknologi Bandung, Indonesia

12:05-12:30	A38: MEMS sensors: Applications in condition monitoring of Electrical Equipment	Vishwanath Hegde Malnad College of Engineering, India
12:40-14:25	Lunch Break	

Thursday October 5, 2017		
Room A		
Session: Ultrafast General V		Chair: Travis Jones
14:25-14:50	A39: Optoelectronic properties of implanted semiconductors investigated via time-domain Brillouin scattering	Halina Krzyzanowska Vanderbilt University, USA
14:50-15:15	A40: Ultrafast spin dynamics studied by time-resolved soft x-ray measurements	Hiroki Wadati University of Tokyo, Japan
15:15-15:40	A41: Ultrafast Protein Local Structural Dynamics Studied by 2D IR Spectroscopy	Jianping Wang ICCAS, China
15:40-15:55	Session Break	
Session: Environment and Materials General IV		Chair: Masayuki Nakamoto
15:55-16:20	A42: Development of Advanced Seal Material and Its Application in Oil and Gas Field	Chengjiao Yu Baker Hughes, USA
16:20-16:45	A43: The Impact of Ballast Water Regulation	Portia Ndlovu Massachusetts Maritime Academy, USA
17:50	Dinner Social	
October 6	Touring & Sightseeing	

Wednesday October 4, 2017

15:50-16:15

Poster Session

P01	Theoretical Aspects of Molecules Absorbed on the Surface of Nanoclusters of Gold	Fernando Mendizabal Universidad de Chile, Republic of Chile
P02	Ultrashort Molecular Dynamics and Flame Temperature Measurements by Hybrid FS/PS Cars Spectroscopy	Yuanqin Xia Harbin Institute of Technology, China
P03	The study on ionization and dissociation of oxycarbide molecule in intense femtosecond laser fields	Sheng Zhang Harbin Institute of Technology, China