

Brief Overview of Conference Program Schedule –2014 EMN Summer Meeting

<p align="center"><b>2014 EMN Summer Meeting</b>  <b>June 9-12, 2014 Cancun, Mexico</b>  <b>Brief Overview of Conference Program Schedule</b></p>						
	Room A	Room B	Room C	Room D	Room E	
June 8	<p align="center"><b>Conference Onsite Registration</b>  <b>The Westin Resort &amp; Spa</b>  <b>14:00 - 18:00 PM</b></p>					
June 9	S1	Solar cells and Photocatalysis	Topological Insulators	Iron and Iridium	Defects in Electronic & Photonic Materials	
	S2	Energy and Environmental Science	Topological Insulators	Iron and Iridium	Diluted Magnetic Oxides	
	S3	Energy and Environmental Science	Topological Insulators	Iron and Iridium	Diluted Magnetic Oxides	
June 10	S4	Solar cells and Photocatalysis	Microfluidics and Nanofluidics	Iron and Iridium	Defects in Electronic & Photonic Materials	
	S5	Magnetic Materials	Macromolecules	Iron and Iridium	Defects in Electronic & Photonic Materials	
	S6	Magnetic Materials	Nanostructured Materials	Iron and Iridium	Complex Oxide Heterostructures	
June 11	S7	Solar cells and Photocatalysis	Nano	Iron and Iridium	Nanofabrication	<b>Keynote Speech</b>
	S8	Nano	Layered Materials	Iron and Iridium	Nanomedicine and Nanobiology	
	S9	Nano	Layered Materials	Iron and Iridium	Nanomedicine and Nanobiology	
June 12	<p align="center"><b>Social Network Events</b></p>					

**2014 EMN Summer Meeting**

**June 9-12, 2014**

**The Westin Resort & Spa, Cancun, Mexico**

**Room A**

**Conference Onsite Registration**

**The Westin Resort & Spa**

**14:00 - 18:00 PM**

**June 8**

**2014 EMN Summer Meeting June 9**

<b>Monday June 9</b>	<b>ROOM A: Session 1 (Solar cells and Photocatalysis)</b>	<b>Chair: Koichi Yamashita</b>
9:00 – 9:10 AM	A1: Introduction	<b>Koichi Yamashita</b> The University of Tokyo, Japan
9:10 – 9:35 AM	A2: Photoinduced Dynamics at Organic/Inorganic Interfaces: Time-Domain Ab Initio Studies	<b>Oleg Prezhdo</b> University of Rochester, USA P35
9:35 – 10:00 AM	A3: Development of Highly Efficient All-Polymer Solar Cells Composed of Low-Bandgap Donor and Acceptor Polymers	<b>Hiroaki Benten</b> Kyoto University, Japan P37
10:00 – 10:25 AM	A4: The Origin of the Strong Interfacial Charge-Transfer Absorption in the Surface Complex between TiO <sub>2</sub> and Dicyanomethylene Compounds	<b>Ryota Jono</b> The University of Tokyo, Japan P39
10:25 – 10:50 AM	A5: Colloidal quantum dot-based depleted heterojunction solar cells utilizing ZnO nanowires	<b>Takaya Kubo</b> The University of Tokyo, Japan P40
10:50 – 11:15 AM	A6: Enhanced Photoconversion Efficiency by Upconversion and Down Conversion Phosphors: Application in Dye Sensitized Solar Cell	<b>Young Soo Kang</b> Sogang University, Korea P42

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11:15 – 11:40 AM	A7: Poriferous TiO <sub>2</sub> Nanostructure for High Efficiency DSSC	<b>Akrajias Ali Umar</b> Universiti Kebangsaan Malaysia, Malaysia P43
11:50 – 13:30 PM	<b>LUNCH BREAK</b>	
<b>Monday June 9</b>	<b>ROOM A: Session 2 (Energy and Environmental Science)</b>	<b>Chair: Alexey Glushenkov</b>
13:30 – 13:55 PM	A8: Design of advanced anode materials for solid oxide fuel cells	<b>Fanglin (Frank) Chen</b> University of South Carolina, USA P44
13:55 – 14:20 PM	A9: Effect of Mn Substitution on the Thermoelectric Properties of the Electron-doped Perovskite SrTiO <sub>3</sub>	<b>Tetsuji Okuda</b> Kagoshima University, Japan P46
14:20 – 14:45 PM	A10: Foreign Elements incorporated Indium Zinc Oxide Transparent Semiconductors/Conductors	<b>Jian Sun</b> China University of Geosciences, China P47
14:45 – 15:10 PM	A11: Er- and Tm-doped silicates and oxides as light emitting materials for broadband monolithic silicon photonics	<b>Hiroo Omi</b> NTT Nanophotonics Center, Japan P48
15:10 – 15:35 PM	A12: Development of Multifunctional Titania Nanotubes for Energy and Environmental Applications	<b>Tohru Sekino</b> Tohoku University, Japan P49
15:35 – 15:55PM	<b>SESSION BREAK</b>	
<b>Monday June 9</b>	<b>ROOM A: Session 3 (Energy and Environmental Science)</b>	<b>Chair: Fanglin (Frank) Chen</b>
15:55 – 16:20 PM	A13: Deep understanding of charge separation process within photo-excited semiconductors	<b>Vahid Jabbari</b> University of Kashan, Kashan, Iran P51
16:20 – 16:45 PM	A14: Interfacial Phenomena in Energy Conversion/Storage Studied with In Situ X-ray Spectroscopy	<b>Chungli Dong</b> National Synchrotron Radiation Research Center, Taiwan P53
16:45 – 17:05 PM	A15: Ageing of transition metal oxynitride electrode materials: implications for supercapacitors	<b>Alexey Glushenkov</b> Deakin University, Australia P54

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17:05 – 17:30 PM	A16: Correlating Hierarchical Nanomorphologies to Device Performance of Polymer:Fullerene Bulk Heterojunction Solar Cells	<b>Wei Chen</b> Argonne National Laboratory, USA P55
17:30 – 17:55 PM	A17: Interface depolarizing field in PZT ferroelectric thin films : a common origin for polarization fatigue and size effect?	<b>Rachid Bouregba</b> Université de Caen Basse-Normandie, France P56
<b>2014 EMN Summer Meeting June 10</b>		
<b>Tuesday June 10</b>	<b>ROOM A: Session 4 (Solar cells and Photocatalysis)</b>	<b>Chair: Oleg Prezhdo</b>
9:00 – 9:25 AM	A18: Mask-less formation of anti-reflecting inverted-pyramids to single-crystal Si solar cell by N-fluoropyridinium salts	<b>Kentaro Kawai</b> Osaka University, Japan P57
9:25 – 9:50 AM	A19: How does electron-hole pair separate into free carriers at donor-acceptor interfaces overcoming the Coulomb attraction? Theoretical analysis for clarifying the mechanism	<b>Hiroyuki Tamura</b> Tohoku University, Japan P59
9:50 – 10:15 AM	A20: Insights obtained from large scale molecular dynamics simulations of P3HT:PCBM active layers	<b>Rajeev Kumar</b> Oak Ridge National Laboratory, USA P61
10:15 – 10:40 AM	A21: Additive Improves the Hierarchical structures in the Bulk Heterojunction Polymer/fullerene Solar Cells	<b>Kung-Hwa Wei</b> National Chiao Tung University, Taiwan P62
10:40 – 11:05 AM	A22: Conjugated Polyelectrolytes as an interfacial modifier for Organic Optoelectronic Devices	<b>Han Young Woo</b> Pusan National University, South Korea P63
11:05 – 11:30 AM	A23: Exciton Coherence in Natural and Synthetic Light-Harvesting Systems	<b>Jasper Knoester</b> University of Groningen, The Netherlands P64
11:30 – 11:55 AM	A24: A role of photon absorbing exciplex at organic bulk heterojunctions consisting of diketopyrrolopyrrole derivatives and PCBM	<b>Mikiya Fujii</b> The University of Tokyo, Japan P66
11:55 - 13:30 PM	<b>LUNCH BREAK</b>	

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<b>Tuesday June 10</b>	<b>ROOM A: Session 5 (Magnetic Materials)</b>	<b>Chair: S.L. Dudarev</b>
13:30 – 13:55 PM	A25: Structural, electronic and magnetic properties of thin iron oxide films and bilayers	<b>Karsten Kuepper</b> Osnabrück University, Germany P68
13:55 – 14:20 PM	A26: Field effect control of thermoelectric and magnetic properties	<b>Sunao Shimizu</b> RIKEN Center for Emergent Matter Science (CEMS), Japan P70
14:20 – 14:45 PM	A27: Newly found multiferroic properties of hydroxyl salts $\text{Co}_2(\text{OD})_3\text{X}$ (X=Cl, Br)	<b>X.G. Zheng</b> Saga University, Japan P72
14:45 – 15:10 PM	A28: Electronic structure, superconductivity, and magnetism in nickelate superlattices	<b>M. J. Han</b> Department of Physics, KAIST, Korea P73
15:10 – 15:35 PM	A29: Ferroelectric Control Magnetism in Oxide Heterostructures	<b>Shuai Dong</b> Southeast University, China P74
15:35-15:55 PM	<b>SESSION BREAK</b>	
<b>Tuesday June 10</b>	<b>ROOM A: Session 6 (Magnetic Materials)</b>	<b>Chair: Karsten Kuepper</b>
15:55 – 16:20 PM	A30: Transparent magnets: Glasses with magnetic nanoparticles. EMR spectroscopy	<b>Janis Kliava</b> Université Bordeaux -1, France P75
16:20 – 16:45 PM	A31: Magnetically interacting nanostructures incorporated within porous silicon	<b>Klemens Rumpf</b> Karl-Franzens-University Graz, Austria P77
16:45 – 17:10 PM	A32: Structure and dynamics of nano-defects in magnetic and non-magnetic transition metals	<b>S.L. Dudarev</b> Culham Centre for Fusion Energy (CCFE), UK P79
17:10 – 17:35 PM	A33: Spin Dynamics in Magnetic Materials Observed by Pump-Probe Technique and THz-TDS	<b>Takeshi Moriyasu</b> Kobe University, Japan P81

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<b>2014 EMN Summer Meeting June 11</b>		
<b>Wednesday June 11</b>	<b>ROOM A: Session 7 (Solar cells and Photocatalysis)</b>	<b>Chair: Kung-Hwa Wei</b>
9:15 – 9:40 AM	A34: Organic cation role in the MAPbI <sub>3</sub> (MA=CH <sub>3</sub> NH <sub>3</sub> <sup>+</sup> ) organic-inorganic halide perovskite	<b>Giacomo Giorgi</b> The University of Tokyo, Japan P83
9:40 – 10:05 AM	A35: Free Charge Generation in Polymer Solar Cells with Crystalline Donors	<b>Yasunari Tamai</b> Kyoto University, Japan P85
10:05 – 10:30 AM	A36: Water oxidation catalysts for artificial photocatalysis: From biomimetics to economic solids	<b>Greta R. Patzke</b> University of Zurich, Switzerland P87
10:30 – 10:55 AM	A37: Rare earth doped silicon oxynitride thin films: light-emitting devices and photovoltaic applications	<b>Labbé Christophe</b> UMR 6252, CNRS-CEA-ENSICAen et Université de Caen, France P89
10:55 – 11:20 AM	A38: Nano-textured Silicon for Solar Cell Application	<b>PK Singh</b> National Physical Laboratory, India P91
11:20 – 11:45 AM	A39: Modeling Materials and Processes in Hybrid/Organic Photovoltaics: From Dye-sensitized to Perovskite Solar Cells	<b>Filippo De Angelis</b> Istituto di Scienze e Tecnologie Molecolari del CNR, Italy P92
11:45 – 12:10 PM	A40: To be determined	<b>Simona Fantacci</b> Istituto di Scienze e Tecnologie Molecolari del CNR, Italy P94
12:10 - 13:30 PM	<b>LUNCH BREAK</b>	
<b>Wednesday June 11</b>	<b>ROOM A: Session 8 (Nano)</b>	<b>Chair: Yoshitaka Fujimoto</b>
13:30 – 13:55 PM	A41: Growth of Ge/Si(001) heterostructures with quantum dot chains	<b>Vladimir Yuryev</b> A. M. Prokhorov General Physics Institute of RAS, Russia P95

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13:55 – 14:15 PM	A42: Nanostructured mixed oxides of titanium, silicon and aluminum as efficient dye adsorbing materials	<b>Umapada Pal</b> Autonomous University of Puebla, Mexico P97
14:15 – 14:40 PM	A43: 5d iridium oxide as a material for spin-current detection	<b>Jobu Matsuno</b> RIKEN, Japan P99
14:40 – 15:00 PM	A44: Electrical and optical properties of transition metal oxynitride epitaxial thin films	<b>Yasushi Hirose</b> The University of Tokyo, Japan P100
15:00 – 15:25 PM	A45: Defects in metal-oxide semiconductors	<b>Rafael Ferragut</b> Polytechnic University of Milan, Italy P102
15:35 – 15:55 PM	<b>SESSION BREAK</b>	
<b>Wednesday June 11</b>	<b>ROOM A: Session 9 (Nano)</b>	<b>Chair: Vladimir Yuryev</b>
15:55 – 16:20 PM	A46: Computational screening of topical carbon nanostructures	<b>Filip Uhlik</b> Charles University, Prague, Czech Republic P103
16:20 – 16:45 PM	A47: Bismuth nanostructured materials	<b>David Díaz</b> Universidad Nacional Autonoma de Mexico, Mexico P104
16:45 – 17:10 PM	A48: Electronic Structures of Hexagonal Boron-Nitride Atomistic Sheets	<b>Yoshitaka Fujimoto</b> Tokyo Institute of Technology, Japan P106
17:10 – 17:35 PM	A49: ZnO Nanoparticles/Nanowires Synthesized on a Transparent and Flexible Substrate Using Ultraviolet-light-assisted Decomposition Processes	<b>Jyh Ming Wu</b> National Tsing Hua University, Taiwan P107
17:35 – 18:00 PM	A50: Molecular Beam Epitaxy Grown Nanowires with Embedded InGaN Quantum Disks	<b>Tien Khee Ng</b> King Abdullah University of Science and Technology, Saudi Arabia P108
<b>Thursday June 12</b>	<b>Social Network Events</b>	

**2014 EMN Summer Meeting**

**June 9-12, 2014**

**The Westin Resort & Spa, Cancun, Mexico**

**ROOM B**

**Conference Onsite Registration**

**The Westin Resort & Spa**

**14:00 - 18:00 PM**

**June 8**

**2014 EMN Summer Meeting June 9**

<b>Monday June 9</b>	<b>ROOM B: Session 1 (Topological Insulators)</b>	<b>Chair: Holger L. Meyerheim</b>
9:00 – 9:25 AM	B1: Novel topological insulator and graphene analogs in 1D and 3D discovered by ARPES	<b>Sergey V. Borisenko</b> IFW Dresden, Germany P110
9:25 – 9:50 AM	B2: Spin-chirality enhanced transport properties of topological surface states	<b>Joseph Dufouleur</b> IFW Dresden, Germany P111
9:50 – 10:15 AM	B3: Unconventional superconductivity in topological insulators: In search for Majorana fermions	<b>Ewelina Hankiewicz</b> Universitaet Wuerzburg, Germany P112
10:15 – 10:40 AM	B4: Tuning the Surface and Quantum Well States of Topological Insulator Films	<b>Jianxin Zhong</b> Xiangtan University, China P113
10:40 – 11:05 AM	B5: In Hot Pursuit of Majorana Fermions	<b>Ken Burch</b> Boston College, USA P114
11:05 – 11:30 AM	B6: Strongly correlated electrons with Rashba spin-orbit coupling: a journey to fractional topological insulators	<b>Predrag Nikolic</b> George Mason University Fairfax, USA P115



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11:30 – 11:55 AM	B7: SmB6: a topological insulator driven by an electron spin	<b>Maxim Dzero</b> Kent State University, USA P116
11:55 – 13:30 PM	<b>LUNCH BREAK</b>	
<b>Monday June 9</b>	<b>ROOM B: Session 2 (Topological Insulators)</b>	<b>Chair: Ewelina Hankiewicz</b>
13:30 – 13:55 PM	B8: Axionic Antiferromagnetic Insulator Phase in a Correlated and Spin-Orbit Coupled System	<b>Akihiko Sekine</b> Tohoku University, Japan P117
13:55 – 14:20 PM	B9: Theory of superconducting topological insulator	<b>Yukio Tanaka</b> Nagoya University, Japan P119
14:20 – 14:45 PM	B10: Atomic Structure and Properties of Magnetic Adsorbates on the Topological Insulator Bi <sub>2</sub> Se <sub>3</sub> (0001)	<b>Holger L. Meyerheim</b> Max-Planck-Institut für Mikrostrukturphysik, Germany P121
14:45 – 15:10 PM	B11: Topological Insulators with Spin-Polarized Edge Current	<b>Xiao Hu</b> National Institute for Materials Science (NIMS), Japan P123
15:10 – 15:35 PM	B12: Weyl/Dirac semimetals and topological phase transitions	<b>Shuichi Murakami</b> Tokyo Institute of Technology, Japan P124
15:35 – 15:55 PM	<b>SESSION BREAK</b>	
<b>Monday June 9</b>	<b>ROOM B: Session 3 (Topological Insulators)</b>	<b>Chair: Yukio Tanaka</b>
15:55 – 16:20 PM	B13: Real-space imaging of Dirac-Landau orbits in Bi <sub>2</sub> Se <sub>3</sub>	<b>Yingshuang Fu</b> RIKEN Center for Emergent Matter Science, Japan P126
16:20 – 16:45 PM	B14: Materials Issues regarding Topological Insulators: Defects, Growth, and Interfaces	<b>Shengbai Zhang</b> Rensselaer Polytechnic Institute, USA P127
16:45 – 17:10 PM	B15: Transport through topological states of matter	<b>Patrik Recher</b> Technical University Braunschweig, Germany P128
17:10 – 17:35 PM	B16: Magnetic order in topological insulators	<b>Dong Qian</b> Shanghai Jiao Tong University, China P129

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17:35 – 18:00 PM	B17: First-principles studies of bismuth chalcogenide topological insulators	<b>Oleg Yazyev</b> Ecole Polytechnique Federale de Lausanne (EPFL),Switzerland P130
18:00 – 18:25 PM	B18: Magnetic Perturbations in Topological Insulator Transistor Devices	<b>Abhinav Kandala</b> The Pennsylvania State University, USA P131
<b>2014 EMN Summer Meeting June 10</b>		
<b>Tuesday June 10</b>	<b>ROOM B: Session 4 (Microfluidics and Nanofluidics)</b>	<b>Chair: Kakkattukuzhy Mathai Isaac</b>
9:00 – 9:25 AM	B19: Computational Fluid Dynamics Simulations of Redox MHD-based Microfluidics	<b>Kakkattukuzhy Mathai Isaac</b> Missouri University of Science and Technology, USA P133
9:25 – 9:50 AM	B20: Simple and High Performance On-Chip Bioanalysis	<b>Takayuki Kawai</b> RIKEN, Japan P135
9:50 – 10:15 AM	B21: Trapping, stretching, and separating single DNA molecules on a chip	<b>Daisuke Onoshima</b> Nagoya University, Japan P137
10:15 – 10:40 AM	B22: Gene detection based on direct PCR of the gene in isolated single cells on a microfluidic device	<b>Izumi Kubo</b> Soka University, Japan P139
10:40 – 11:05 AM	B23: Autonomous microfluidic systems based on electrochemical principles	<b>Hiroaki Suzuki</b> University of Tsukuba,Japan P141
11:05 – 11:30 AM	B24: Microfluidic Devices in Totally Glass Microchips Using Flexible Ultra Thin Glass	<b>Yo Tanaka</b> RIKEN, Japan P143
11:30 – 11:55 AM	B25: To be determined	<b>Dora Flores</b> Centro de Investigación en Biotecnología, Instituto Tecnológico de Costa Rica, Cartago, Costa Rica P144
12:00 - 13:30 PM	<b>LUNCH BREAK</b>	

Conference Program Schedule Room B –2014 EMN Summer Meeting

<b>Tuesday June 10</b>	<b>ROOM B: Session 5 (Macromolecules)</b>	<b>Chair: Dukjoon Kim</b>
13:30 – 13:55 PM	B26: Polymer electrolyte membranes based on poly(ether ether ketone) multi-block copolymers for fuel cell application	<b>Dukjoon Kim</b> Sungkyunkwan University, Korea P145
13:55 – 14:20 PM	B27: Electrospinning of Polymer Nanofibers and their applications	<b>T. S. Natarajan</b> Indian Institute of Technology, Madras, India P146
14:20 – 14:45 PM	B28: Sonosynthesis of Gold Nanoparticles Using Different Stabilizers	<b>Lourdes Cabrera</b> Universidad Nacional Autónoma de México, Mexico P147
14:45 – 15:05 PM	B29: To be determined	<b>Francesca Cavaliere</b> University of Rome Tor Vergata, Italy P148
15:05 – 15:30 PM	B30: AFM characterization and cytotoxic effects induced by multiwalled carbon nanotubes on human breast adenocarcinoma cell line	<b>Silvia Bistarelli</b> Istituto Nazionale di Fisica Nucleare, Italy P149
15:35-15:55 PM	<b>SESSION BREAK</b>	
<b>Tuesday June 10</b>	<b>ROOM B: Session 6 (Nanostructured Materials)</b>	<b>Chair: Lourdes Cabrera</b>
15:55 – 16:20 PM	B31: 'Green' functionalization of carbon nanomaterials	<b>Elena V. Basiuk</b> Universidad Nacional Autonoma de Mexico, Mexico P150
16:20 – 16:45 PM	B32: The promoting effect of carbon surfaces on H <sub>2</sub> dissociation on Al <sub>n</sub> clusters by first principle calculations	<b>Francesca Costanzo</b> Leiden University, Netherlands P151
16:45 – 17:10 PM	B33: Positron annihilation and tribological studies of nano-embedded Al-alloys	<b>Jerzy Dryzek</b> Opole University, Poland P153
17:10 – 17:35 PM	B34: Metallic Nanocavities with High Q Resonance	<b>Ikuo Suemune</b> Hokkaido University, Japan P154

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17:35 – 18:00 PM	B35: Complex Chalcogenide Semiconductor Nanocrystals: Electron Microscopy Study	<b>Reza Zamani</b> Georg-August-Universität Göttingen, Germany P156
<b>2014 EMN Summer Meeting June 11</b>		
<b>Wednesday June 11</b>	<b>ROOM B: Session 7 (Nano)</b>	<b>Chair: Young Jae Song</b>
9:15 – 9:40 AM	B36: ZnO-Si nanocomposites for White light LEDs	<b>Chhaya Ravi Kant</b> Indira Gandhi Delhi Technical University P158
9:40 – 10:05 AM	B37: Fabrication and electronic and optoelectronic experiments on single nanowire devices of functional materials	<b>Arup Kumar Raychaudhuri</b> S.N.Bose National Center for Basic Sciences, India P166
10:05 – 10:30 AM	B38: Cholesteric liquid crystalline core-shell emulsion droplets	<b>Yoshiaki Uchida</b> Osaka University, Japan P167
10:30 – 10:55 AM	B39: Silicon and Metal Oxide Based Nanowires: Synthesis, Integration and Characterization	<b>Chang Fu Dee</b> National University of Malaysia, UKM, Malaysia P169
10:55 – 11:20 AM	B40: Nanostructures based on Al, B-nitride materials: From graphene-like structure to nanowires	<b>Catherine Journet</b> Université Claude Bernard Lyon 1 - University of Lyon, France P170
11:20 – 11:45 AM	B41: Oxide semiconductor-nano carbon hybrid quantum dots based optoelectronic devices	<b>Won-Kook Choi</b> Korea Institute of Science and Technology(KIST), Korea P171
11:55 - 13:30 PM	<b>LUNCH BREAK</b>	
<b>Wednesday June 11</b>	<b>ROOM B: Session 8 (Layered Materials)</b>	<b>Chair: Catherine Journet</b>
13:30 – 13:55 PM	B42: Probing cleanliness of graphene with small organic molecules	<b>Christian Teichert</b> Montanuniversität Leoben, Austria P172

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13:55 – 14:20 PM	B43: Growth and structural/electronic properties of epitaxial graphene on SiC	<b>Wataru Norimatsu</b> Nagoya University, Japan P174
14:20 – 14:45 PM	B44: Defect-Induced Metal-Insulator Transition in Graphene	<b>Shu Nakaharai</b> National Institute for Materials Science (NIMS), Japan P176
14:45 – 15:10 PM	B45: Atomic and Electronic Properties of Graphene-based Heterostructure	<b>Young Jae Song</b> Sungkyunkwan University, Korea P178
15:10 – 15:35 PM	B46: Geometric phases of quantum trajectories in bi-layer graphene and related 2D materials under strong THz fields	<b>Renbao Liu</b> The Chinese University of Hong Kong, Hong Kong P179
15:35 – 15:55 PM	<b>SESSION BREAK</b>	
<b>Wednesday June 11</b>	<b>ROOM B: Session 9 (Layered Materials)</b>	<b>Chair: Wataru Norimatsu</b>
15:55 – 16:20 PM	B47: Graphene/block copolymer “smart” nanostructured hybrids	<b>Constantinos Tsitsilianis</b> University of Patras, Greece P180
16:20 – 16:45 PM	B48: Graphene plasmonic thermoelectric THz detectors and emitters	<b>Andrei B. Sushkov</b> University of Maryland, USA P182
16:45 – 17:10 PM	B49: Chemical vapor deposition of single-crystalline molybdenum disulfide monolayers	<b>Bo Hsu</b> University of Illinois at Chicago (UIC), USA P184
17:10 – 17:35 PM	B50: First principle study of point defects and edge irregularities in graphene nanoribbon devices	<b>M. Manoharan</b> Japan Advanced Institute of Science and Technology, Japan P186
17:35 – 18:00 PM	B51: Solvent Dispersible Functionalized Graphene by Covalently Grafting Ethylene Diamine	<b>Songmin Shang</b> The Hong Kong Polytechnic University, Hong Kong P188
<b>Thursday June 12</b>	<b>Social Network Events</b>	

<p><b>2014 EMN Summer Meeting</b></p> <p><b>June 9-12, 2014</b></p> <p><b>The Westin Resort &amp; Spa, Cancun, Mexico</b></p> <p><b>ROOM C</b></p>		
<p><b>Conference Onsite Registration</b></p> <p><b>The Westin Resort &amp; Spa</b></p> <p><b>14:00 - 18:00 PM</b></p> <p><b>June 8</b></p>		
<p><b>2014 EMN Summer Meeting June 9</b></p>		
<p><b>Monday June 9</b></p>	<p><b>ROOM C: Session 1 (Iron and Iridium)</b></p>	<p><b>Chair: Hiroshi Kontani</b></p>
<p>8:55- 9:00 AM</p>	<p>Opening remarks</p>	<p><b>W. Yin / G. Xu</b> Brookhaven National Laboratory, USA</p>
<p>9:00 – 9:30 AM</p>	<p>C1: An unified effective theory for unconventional superconductivity</p>	<p><b>Dung-Hai Lee</b> University of California, Berkeley, USA P190</p>
<p>9:30 – 10:00 AM</p>	<p>C2: Electron Correlations and Superconductivity in Iron Pnictides and Chalcogenides</p>	<p><b>Qimiao Si</b> Rice University, USA P191</p>
<p>10:00 – 10:30 AM</p>	<p>C3: Spin/Orbital correlation and glide translational symmetry of Fe-based superconductors</p>	<p><b>Wei Ku</b> Brookhaven National Laboratory, USA P192</p>
<p>10:30 – 11:00 AM</p>	<p>C4: Orbital or Spin physics in the Iron Pnictide Superconductors</p>	<p><b>Philip Phillips</b> University of Illinois at Urbana-Champaign, USA P193</p>
<p>11:00 – 11:30 AM</p>	<p>C5: Search for the mechanism responsible for pairing in the iron-based superconductors</p>	<p><b>Thomas A. Maier</b> Oak Ridge National Laboratory, USA P194</p>

Conference Program Schedule Room C –2014 EMN Summer Meeting

11:30 – 12:00 PM	C6: Study of the Nematic State of the Pnictides Based on a Spin Fermion Model with Spin, Charge, and Lattice Degrees of Freedom	<b>Adriana Moreo</b> University of Tennessee, Knoxville, USA P195
12:00 – 13:30 PM	<b>LUNCH BREAK</b>	
<b>Monday June 9</b>	<b>ROOM C: Session 2 (Iron and Iridium)</b>	<b>Chair: Adriana Moreo</b>
13:30 – 14:00 PM	C7: Electronic structure and spin fluctuations in iron pnictides	<b>Vladimir Antropov</b> Ames Laboratory, USA P196
14:00 – 14:30 PM	C8: The orbital-selective Mott phase of one-dimensional multiorbital systems	<b>Julian Rincon</b> University of Tennessee, Knoxville, USA P197
14:30 – 15:00 PM	C9: Orbital Fluctuation Induced Nematicity and Superconductivity	<b>Hiroshi Kontani</b> Nagoya University, Japan P198
15:00 – 15:30 PM	C10: Effects of Orbital Fluctuation on Lattice System of Fe-based Superconductors	<b>Masatoshi Sato</b> Comprehensive Research Organization for Science and Society, Japan P199
15:30 – 16:00PM	<b>SESSION BREAK</b>	
<b>Monday June 9</b>	<b>ROOM C: Session 3 (Iron and Iridium)</b>	<b>Chair: Philip Phillips</b>
16:00 – 16:30 PM	C11: Identifying the ‘Fingerprint’ of Antiferromagnetic Spin-fluctuations in Iron-Pnictide Cooper Pairing	<b>Kyungmin Lee</b> Cornell University, USA P201
16:30 – 17:00 PM	C12: Orbital ordering in Iron-based superconductors observed by angle-resolved photoemission spectroscopy	<b>Takahiro Shimojima</b> University of Tokyo, Japan P203
17:00 – 17:30 PM	C13: Orbital order and its fluctuation in the nematic phase of Ba(Fe <sub>1-x</sub> Co <sub>x</sub> ) <sub>2</sub> As <sub>2</sub> revealed by X-ray absorption spectroscopy	<b>Yeongkwan Kim</b> Yonsei University, Korea P204
17:30 – 18:00 PM	C14: Mystery of high-temperature superconductivity in bismuthates, cuprates, and pnictides	<b>Guo-Meng Zhao</b> California State University at Los Angeles, USA P205
<b>2014 EMN Summer Meeting June 10</b>		

Conference Program Schedule Room C –2014 EMN Summer Meeting

<b>Tuesday June 10</b>	<b>ROOM C: Session 4 (Iron and Iridium)</b>	<b>Chair: Christopher Homes</b>
9:00 – 9:30 AM	C15: Short-range cluster spin glass near optimal superconductivity in $\text{BaFe}_{2-x}\text{Ni}_x\text{As}$	<b>Pengcheng Dai</b> Rice University, USA P206
9:30 – 10:00 AM	C 16: Low energy magnetic excitations from $\text{Fe}_{1+y-d}(\text{Ni/Cu})_d\text{Te}_{1-x}\text{Sex}$ superconductors	<b>Guangyong Xu</b> Brookhaven National Laboratory, USA P207
10:00 – 10:30 AM	C17: Perspectives for Neutron-Spectroscopy Experiments on Detwinned Iron-Arsenide Single Crystals	<b>Dmytro Inosov</b> TU Dresden, Germany P208
10:30 – 11:00 AM	C18: Persistent high-energy spin excitations in iron pnictide superconductors investigated with resonant inelastic x-ray scattering	<b>Thorsten Schmitt</b> Paul Scherrer Institute, Switzerland P209
11:00 – 11:30 AM	C19: ARPES on iron-based superconductors: recent results and current understanding	<b>Sergey Borisenko</b> IFW Dresden, Germany P211
11:30 – 12:00 AM	C20: ARPES investigation of the bad metallic behavior in $\text{Fe}_{1.06}\text{Te}$	<b>Veronique Brouet</b> University Paris-Sud, France P212
12:00 - 13:30 PM	<b>LUNCH BREAK</b>	
<b>Tuesday June 10</b>	<b>ROOM C: Session 5 (Iron and Iridium)</b>	<b>Chair: Athena S. Sefat</b>
13:30 – 14:00 PM	C21: Superconductivity in FeSe with Extremely Small Fermi Energy	<b>Shigeru Kasahara</b> Kyoto University, Japan P214
14:00 – 14:30 PM	C22: Optical properties of iron-based multiband conductors and superconductors	<b>Christopher Homes</b> Brookhaven National Laboratory, USA P215
14:30 – 15:00 PM	C23: Transport near a quantum critical point in $\text{BaFe}_2(\text{As}_{1-x}\text{P}_x)_2$	<b>James Analytis</b> University of California, Berkeley, USA P217
15:00 – 15:30 PM	C24: Design of Iron-based Superconductors using the Arsenic Bond Making and Breaking	<b>Minoru Nohara</b> Okayama University, Japan P218
15:30-16:00 PM	<b>SESSION BREAK</b>	



Conference Program Schedule Room C –2014 EMN Summer Meeting

<b>Tuesday June 10</b>	<b>ROOM C: Session 6 (Iron and Iridium)</b>	<b>Chair: Minoru Nohara</b>
16:00 – 16:30 PM	C25: Some of the superconductivity research at ORNL	<b>Athena S. Sefat</b> Oak Ridge National Laboratory, USA P219
16:30 – 17:00 PM	C26: Crystal growth and superconductivity of Fe-Te base materials	<b>Genda Gu</b> Brookhaven National Laboratory, USA P220
17:00 – 17:30 PM	C27: Interplay between magnetism and superconductivity in iron chalcogenides	<b>Zhiqiang Mao</b> Tulane University, USA P221
17:30 – 18:00 PM	C28: Superconductivity of indirectly electron-doped and isovalent-doped 122-type epitaxial films	<b>Hidenori Hiramatsu</b> Tokyo Institute of Technology, Japan P222
<b>2014 EMN Summer Meeting June 11</b>		
<b>Wednesday June 11</b>	<b>ROOM C: Session 7 (Iron and Iridium)</b>	<b>Chair: Gang Cao</b>
9:15 – 9:45 AM	C29: Superconductivity and Metal-Insulator Transition in $\text{Sr}_2\text{IrO}_4$	<b>Seiji Yunoki</b> RIKEN ASI, Japan P224
9:45 – 10:15 AM	C30: Magnetic order and excitations in spin-orbit coupled Mott insulators	<b>George Jackeli</b> MPI-FKF, Stuttgart, Germany P226
10:15 – 10:45 AM	C31: Magnetic and crystal structures in square-lattice iridate $\text{Sr}_2\text{Ir}_{1-x}\text{Rh}_x\text{O}_4$ ( $0 \leq x \leq 0.17$ )	<b>Feng Ye</b> Oak Ridge National Laboratory, USA P227
10:45 – 11:15 AM	C32: Evolution of Magnetic Structure and Dynamics in Doped Iridates	<b>James Patrick Clancy</b> University of Toronto, Canada P228
11:15 – 11:45 AM	C33: Novel quantum phenomena in digital heterostructures of iridates	<b>Satoshi Okamoto</b> Oak Ridge National Laboratory, USA P230
11:50 - 13:30 PM	<b>LUNCH BREAK</b>	
<b>Wednesday June 11</b>	<b>ROOM C: Session 8 (Iron and Iridium)</b>	<b>Chair: George Jackeli</b>

Conference Program Schedule Room C –2014 EMN Summer Meeting

13:30 – 14:00 PM	C34: Spin-Orbit Coupling Is Not Everything	<b>Gang Cao</b> University of Kentucky, USA P231
14:00 – 14:30 PM	C35: Slater and Mott insulating states in Os- and Ir-based transition metal oxides	<b>Andrew Christianson</b> Oak Ridge National Laboratory, USA P232
14:30 – 15:00 PM	C36: Magnetic excitations in cuprates and iridates probed by resonant inelastic x-ray scattering	<b>Mark Dean</b> Brookhaven National Laboratory, USA P233
15:00 – 15:30 PM	C37: A novel gold-based superconductor SrAuSi <sub>3</sub>	<b>Masaaki Isobe</b> National Institute for Materials Science, Japan P234
15:30 – 14:00 PM	<b>SESSION BREAK</b>	
<b>Wednesday June 11</b>	<b>ROOM C: Session 9 (Iron and Iridium)</b>	<b>Chair: Guangyong Xu</b>
16:00 – 16:30 PM	C38: Effect of electron-phonon coupling on unconventional superconductivity: Comparison between iron-based and C60 superconductors	<b>Ryotaro Arita</b> University of Tokyo, Japan P235
16:30 – 17:00 PM	C39: Charge ordering in FeTe	<b>Weiguo Yin</b> Brookhaven National Laboratory, USA P236
17:00 – 18:00 PM	Discussions	
<b>Thursday June 12</b>	<b>Social Network Events</b>	

**2014 EMN Summer Meeting**

**June 9-12, 2014**

**The Westin Resort & Spa, Cancun, Mexico**

**ROOM D**

**Conference Onsite Registration**

**The Westin Resort & Spa**

**14:00 - 18:00 PM**

**June 8**

**2014 EMN Summer Meeting June 9**

<b>Monday June 9</b>	<b>ROOM D: Session 1 (Defects in Electronic &amp; Photonic Materials)</b>	<b>Chair: Jan Kuriplach</b>
9:00 – 9:25 AM	D1: The ground states structure and spin-orbit coupling for lithium donor centers in monoisotopic <sup>28</sup> Si	<b>Alexander A. Ezhevskii</b> Lobachevsky State University of Nizhni Novgorod, Russia P237
9:25 – 9:50 AM	D2: Graphene Optoelectronic Devices	<b>Yongzhe Zhang</b> North China Electric Power University, China P239
9:50 – 10:15 AM	D3: Silicon in AlGa <sub>N</sub> and AlN: transition from a shallow donor to DX centers	<b>Nguyen Tien Son</b> Linköping University, Sweden P240
10:15 – 10:40 AM	D4: A single electron spin bound to an iodine donor immersed in a CdTe quantum well : a promising spin-qubit candidate	<b>Maria Chamarro</b> Institut des NanoSciences de Paris – Universités Paris -VI et Paris-VII, CNRS UMR 7588, France P241
10:40 – 11:05 AM	D5: Defect elimination and implant activation in SiC and GaN via multicycle rapid thermal annealing	<b>Marko Tadjer</b> U.S. Naval Research Laboratory, USA P243

Conference Program Schedule Room E –2014 EMN Summer Meeting

11:05 – 11:30 AM	D6: Novel ion-conductive solid polymer electrolytes and composites	<b>Yoichi Tominaga</b> Tokyo University of Agriculture and Technology, Japan P245
11:30 – 11:45 AM	D7: Defect formation energies due to hydrogen and helium-dopants on interstitial sites in a pyrochlore-type $Y_2Ti_2O_7$ oxide	<b>Bun Tsuchiya</b> Meijo University, Japan P246
11:45 – 12:10 PM	D8: Combining state-of-the-art experimental and computational methods in identification of defects in ZnO with positron annihilation spectroscopy	<b>Filip Tuomisto</b> Aalto University, Finland P247
11:45 – 13:30 PM	<b>LUNCH BREAK</b>	
<b>Monday June 9</b>	<b>ROOM D: Session 2 (Diluted Magnetic Oxides)</b>	<b>Chair: Roman Engel-Herbert</b>
13:30 – 13:55 PM	D9: $EuTiO_3$ : an almost multiferroic perovskite	<b>Annette Bussmann-Holder</b> Max-Planck-Institut für Festkörperforschung, Germany P248
13:55 – 14:20 PM	D10: Electronic structure and spin-polarized momentum density of magnetic oxides: computational studies	<b>Shoji Ishibashi</b> National Institute of Advanced Industrial Science and Technology (AIST), Japan P249
14:20 – 14:45 PM	D11: Taming electronic phase transition through advances in thin film synthesis	<b>Roman Engel-Herbert</b> Penn State University, USA P250
14:45 – 15:10 PM	D12: Magnetocaloric effect near room temperature in composites based on $La_{1-x}Ca_x-yA_yMnO_3$ manganites (A=K, Na)	<b>Abdelwaheb Cheikhrouhou</b> Centre de Recherches en Informatique, Tunisie P251
15:10 – 15:35 PM	D13: Magnetic properties and magnetocaloric effect of field-induced ferromagnet $BaFeO_3$	<b>Kenji Yoshii</b> Japan Atomic Energy Agency, Japan P252
15:35 – 15:55PM	<b>SESSION BREAK</b>	
<b>Monday June 9</b>	<b>ROOM D: Session 3 (Diluted Magnetic Oxides)</b>	<b>Chair: Roman Engel Herbet</b>
15:55 – 16:20 PM	D14: Dynamically Created Nanostructures and d0 Ferromagnetism in Metal Oxides	<b>Masayoshi Seike</b> Osaka University, Japan P254

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16:20 – 16:45 PM	D15: Effect of <i>sp</i> -d exchange interaction on the optical properties of diluted oxide semiconductors	<b>Antonio Ruotolo</b> City University of Hong Kong, Hong Kong P255
16:45 – 17:10 PM	D16: Polypyrrole/Manganese Dioxide And Their Applications	<b>Bahloul Ahmed</b> Université de Ferhat Abbas, Algeria P257
17:10 – 17:35 PM	D17: To Be determined	<b>Ashutosh Tiwari</b> University of Utah, USA P259
17:35 – 18:00 PM	D18: Resistive switching based on perovskite transition-metal oxides	<b>Jun-Ming Liu</b> Nanjing University, China P260
18:00 – 18:25 PM	D19: Defect Induced ferromagnetism in MgO and alteration of defects by swift heavy ion irradiation	<b>Jitendra Pal Singh</b> Krishna Engineering College, India P262
<b>2014 EMN Summer Meeting June 10</b>		
<b>Tuesday June 10</b>	<b>ROOM D: Session 4 (Defects in Electronic and Photonic Materials)</b>	<b>Chair: Leonard Brillson</b>
9:00 – 9:25 AM	D20: Vacancies and small polarons in SrTiO <sub>3</sub>	<b>Anderson Janotti</b> University of California Santa Barbara, USA P263
9:25 – 9:50 AM	D21: Defects Driven Phenomena in Complex Oxides	<b>Farida Selim</b> Bowling Green State University, USA P264
9:50 – 10:15 AM	D22: La-Doped SrTiO <sub>3</sub> Perovskites as SOFC interconnectors	<b>Toshihiro Moriga</b> The University of Tokushima, Japan P265
10:15 – 10:40 AM	D23: Compensating intrinsic defects in Cu(In,Ga)Se <sub>2</sub> and Cu <sub>2</sub> ZnSn(S,Se) <sub>4</sub> solar cell absorbers	<b>Clas Persson</b> University of Oslo, Norway P267
10:40 – 11:05 AM	D24: Complex Behavior of Point Defects in Functional Oxides and Nitrides: Insights from First Principles	<b>Fumiyasu Oba</b> Kyoto University, Japan P269
11:05 – 11:30 AM	D25: Electronic structure of disordered solids	<b>David Drabold</b> Ohio University, USA P271

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11:30 – 11:55 AM	D26: Understanding the conductivity and magnetism at the interfaces between LaAlO <sub>3</sub> and SrTiO <sub>3</sub>	<b>Liping Yu</b> University of Colorado at Boulder, USA P272
11:55 - 13:30 PM	<b>LUNCH BREAK</b>	
<b>Tuesday June 10</b>	<b>ROOM D: Session 5 (Defects in Electronic and Photonic Materials)</b>	<b>Chair: Farida Selim</b>
13:30 – 13:55 PM	D27: Control of Native Point Defects in Complex Oxides by Electromechanical Forces	<b>Leonard Brillson</b> The Ohio State University, USA P273
13:55 – 14:20 PM	D28: Probing Extended Defects in Oxides by Positrons: A Computational Study	<b>Jan Kuriplach</b> Charles University, Prague, Czech Republic P274
14:20 – 14:45 PM	D29: Sodium doping of bulk ZnO crystals	<b>Kelvin Lynn</b> Washington State University, USA P276
14:45 – 15:10 PM	D30: Low Temperature Ge on Si Epitaxy by High Density Plasma Chemical Vapor Deposition	<b>Erica Douglas</b> Sandia National Laboratories, USA P277
15:10 – 15:35 PM	D31: Novel elasticoluminescence materials with multifunctions	<b>Chao-Nan Xu</b> National Institute of Advanced Industrial Science and Technology (AIST), Japan P279
15:35-15:55 PM	<b>SESSION BREAK</b>	
<b>Tuesday June 10</b>	<b>ROOM D: Session 6 (Complex Oxide Heterostructures)</b>	<b>Chair: Kelvin Lynn</b>
15:55 – 16:20 PM	D32: The influences of a biased tip on oxide surfaces	<b>Arthur P. Baddorf</b> Oak Ridge National Laboratory, USA P280
16:20 – 16:45 PM	D33: Crystallization kinetics of phase change materials from nanosecond-scale time-resolved TEM studies	<b>Melissa K. Santala</b> Lawrence Livermore National Laboratory, USA P282
16:45 – 17:10 PM	D34: Physical Properties and Deposited Condition of Sol-Gel Derived Metal Oxide for Transparent Conductive Film	<b>Tohru Sugahara</b> Osaka University, Japan P284

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17:10 – 17:35 PM	D35: Silica and zirconia complex oxide shaped as protective coating to prevent polycarbonate degradation	<b>Bérangère Toury</b> Université Claude Bernard Lyon 1 - University of Lyon, France P285
17:35 – 18:00 PM	D36: New Superionic Conducting Glass-Ceramics of Silicophosphates	<b>Toshinori Okura</b> Kogakuin University, Japan P287
<b>2014 EMN Summer Meeting June 11</b>		
<b>Wednesday June 11</b>	<b>ROOM D: Session 7 (Nanofabrication)</b>	<b>Chair: Eva Hemmer</b>
9:15 – 9:40 AM	D37: Fabrication and Optical-Electrical Properties of Inorganic/Organic Hybrid Nanomaterials	<b>Huibiao Liu</b> Institute of Chemistry, CAS, China P289
9:40 – 10:05 AM	D38: An EHD-assisted UV nanoimprint lithography process and its applications	<b>Hongbo Lan</b> Qingdao Technological University, China P290
10:05 – 10:30 AM	D39: Synthesis and Properties of large-area ordered Nano-structures of Some Molecular Materials	<b>Yuliang Li</b> Institute of Chemistry, CAS, China P291
10:30 – 10:50 AM	D40: Quantum interactions at surfaces and materials design	<b>Sheng Meng</b> Institute of Physics, Chinese Academy of Sciences, China P292
10:50 – 11:15 AM	D41: Electronic Structure Investigation of Doping C60 with Metal Oxide by Bulk Doping and Ultra-thin layer Doping	<b>Chenggong Wang</b> University of Rochester, USA P293
11:15 – 11:40 AM	D42: To be determined	<b>Luisa Campagnolo</b> University of Rome Tor Vergata, Italy P294
12:10 - 13:30 PM	<b>LUNCH BREAK</b>	
<b>Wednesday June 11</b>	<b>ROOM D: Session 8 (Nanomedicine and Nanobiology)</b>	<b>Chair: Petra Granitzer</b>
13:45 – 13:55 PM	Introduction	<b>Massimo Bottini</b> Sanford-Burnham Medical Research Institute, USA
13:55 – 14:20 PM	D43: Multiscale modeling of Supported and Tethered Lipid Bilayers	<b>Roland Faller</b> University of California Davis, USA P295

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14:20 – 14:45 PM	D44: Lanthanide-based Upconverting Nanoparticles as Nanothermometers	<b>Eva Hemmer</b> Centre Energie Materiaux Telecommunications, Canada P296
14:45 – 15:10 PM	D45: Phytotoxicity of Carbon Nanomaterials in Long-Term Assays with Cactaceae plants	<b>Vladimir Basiuk</b> Universidad Nacional Autonoma de Mexico, Mexico P298
15:10 – 15:35 PM	D46: Spontaneous formation of heterogeneous patches on polymer-lipid core-shell particle surfaces during self-assembly	<b>Carolina Salvador-Morales</b> George Mason University, USA P300
15:35 – 15:55 PM	<b>SESSION BREAK</b>	
<b>Wednesday June 11</b>	<b>ROOM D: Session 9 (Nanomedicine and Nanobiology)</b>	<b>Chair: Vladimir Basiuk</b>
15:55 – 16:20 PM	D47: Self-decomposable nanoparticle carrier based nanomedicine--controlled drug release and safe carrier excretion	<b>Quan Li</b> The Chinese University of Hong Kong, Hong Kong P301
16:20 – 16:45 PM	D48: Assessment of cytocompatibility and magnetic properties of nanostructured silicon loaded with superparamagnetic iron oxide nanoparticles	<b>Petra Granitzer</b> Karl-Franzens-University Graz, Austria P302
16:45 – 17:10 PM	D49: Effects of using two different types of CNTs in the growth of blackberry (Rubus adenotrichos) in vitro	<b>Randall Chacón</b> Centro de Investigación en Biotecnología, Instituto Tecnológico de Costa Rica, Cartago, Costa Rica P304
17:10 – 17:35 PM	D50: PEG-modified carbon nanotubes in biology and medicine: past, present and future	<b>Massimo Bottini</b> Sanford-Burnham Medical Research Institute, USA P306
17:35 – 18:00 PM	D51: Human insulin fibril-assisted synthesis of fluorescent gold nanoclusters	<b>Roger M. Leblanc</b> University of Miami, USA P307
18:00 – 18:25 PM	D52: Computer simulation of lysine dendrimers and dendrigrafts for biomedical applications	<b>Igor Neelov</b> NIU, ITMO, Russia P308
<b>Thursday June 12</b>	<b>Social Network Events</b>	



**2014 EMN Summer Meeting**

**June 9-12, 2014**

**The Westin Resort & Spa, Cancun, Mexico**

**Room E**

**Keynote Speech**

**2014 EMN Summer Meeting June 11**

<b>Wednesday June 11</b>	<b>ROOM E: Session 1</b>	<b>Chair: Farida Selim</b>
Keynote 8:30 – 9:10 AM	Femtosecond-Laser Hyperdoping and Texturing of Silicon for Advanced Non-equilibrium Materials	<b>Eric Mazur</b> Harvard University, USA
<b>Thursday June 12</b>	<b>Social Network Events</b>	

## 2014 EMN Summer Meeting

June 9-12, 2014

The Westin Resort & Spa, Cancun, Mexico

### Conference Onsite Registration

The Westin Resort & Spa

14:00 - 18:00 PM

June 8

#### Posters

P1	Impact on the photoluminescent behavior due to interface defects formation and structural modifications on spin-on glass coated silicon nanocrystals after different annealing treatments	<b>Orlando Cortazar</b> Instituto Nacional de Astrofísica Óptica y Electrónica, México
P2	Chemical Bath Deposition of $\text{Cu}_2\text{ZnSnS}_4$ Thin Films on Substrates for Solar Cell Applications	<b>Eui-Tae Kim</b> Chungnam National University, Korea
P3	Numerical studies of Anderson impurity models on the honeycomb lattice	<b>Tomonori Shirakawa</b> Computational Condensed Matter Physics Laboratory, RIKEN, Japan
P4	Sol-gel vs sputtering ITO films as TCO materials	<b>Fiz. Mariuca Gartner</b> Ilie Murgulescu Institute of Fizical Chemistry of the Romanian Academy, Romanian
P5	Ce-doped barium titanate one-dimensional nanostructures prepared by colloidal chemistry	<b>Eng. Catalina Vasilescu</b> University Politehnica Bucharest, Romania
P6	Nano-scale properties of $\text{BaTi}_{1-x}\text{Zr}_x\text{O}_3$ ceramics prepared by spark plasma sintering	<b>Eng. Adelina Carmen Ianculescu</b> University Politehnica Bucharest, Romania

Conference Program Schedule Poster – 2014 EMN Summer Meeting

P7	Investigation of Sc influence on the characteristics of bismuth ferrite ceramics derived from nanopowders prepared by combustion method	<b>Mihai Calugaru</b> University Politehnica Bucharest, Romania
P8	Temperature evolution of the crystal structure of $MnTiO_3$	<b>Rajiv Kumar Maurya</b> School of basic sciences, iit mandi, India
P9	Inverse photoemission spectroscopic studies on electron doped large bandwidth system	<b>Navneet Singh</b> Indian Institute of Technology Mandi, India
P10	Sonosynthesis of Gold Nanoparticles	<b>A. Laura González -Mendoza</b> Universidad Autónoma del Estado de México, Mexico
P11	Synthesis and design of a photoanode for Schottky barrier solar cells	<b>C. Carina Pareja-Rivera</b> Universidad Autónoma del Estado de México, Mexico
P12	Electronics and optical properties of anion alloys $ZnO_{1-x}Y_x$ (Y = S and Se)	<b>Clas Persson</b> University of Oslo, Norway
P13	Application of carbon nano materials in bone tissue regeneration	<b>Se-Kwon Kim</b> Pukyong National University, Korea

## 2014 EMN Summer Meeting Abstracts