

Detailed Meeting Program of 2016 EMN Phuket Meeting & Collaborative Conference on Robotics

Thursday Nov. 3 Afternoon	
14:00-17:30PM	Onsite Registration & Sign up (at lobby)

Friday Nov. 4		
Room A		
Session: Nanocomposites for Advanced Technologies		
9:00-9:30AM	A01: Nanocomposites of boron nitride nanotubes/nanosheets for energy applications (Keynote)	Yoshio Bando National Institute for Materials Science, Japan
9:30-9:55AM	A02: The Impact of As-Grown Carbon Nanotubes Assembly Structure to Design its Dispersion State for Advanced Composites	Kazufumi Kobashi National Institute of Advanced Industrial Science and Technology, Japan
Session: Graphene		
9:55-10:20AM	A03: Graphene-based porous carbons for energy applications	Takashi Kyotani Tohoku University, Japan
10:20-10:45AM	A04: Valley-symmetric quasi-1D transport in ballistic mono- and bi-layer graphene	Hu-Jong Lee Pohang University of Science and Technology, Korea
10:45-11:00AM	SESSION BREAK	
11:00-11:25AM	A05: 2D MoS ₂ and Graphene layers for novel junction and solar cell applications	Bodh Raj Mehta Indian Institute of Technology Delhi, India

11:25-11:50AM	A06: Relationships between and environmental effects on the optical and Raman behavior of van Hove singularity in twisted bi- and fewlayer graphenes	Sang-Yong Ju Yonsei University, Korea
11:50-12:15PM	A07: Energy efficient ultra-conductive and covetic materials	Mehmet Ertugrul Ataturk University, Turkey
12:00-14:30	LUNCH BREAK	
Session: Robotics General I		
14:30-14:55PM	A08: Robotic Preprocessor for Generating Cutter Location Source Data from Stereolithography Data	Fusaomi Nagata Tokyo University of Science, Japan
14:55-15:20PM	A09: The Evolution of Microsurgery: Robot Assisted Microsurgical Vasectomy Reversal	Parviz K. Kavoussi The University of Texas at Austin, USA
15:20-15:45PM	A10: Image analysis and training model in robotic thyroid surgery	Hyungju Kwon Ewha Womans University, Korea
15:45-16:00PM	SESSION BREAK	
16:00-16:25PM	A11: Advanced techniques of BABA robotic surgery	Kyu Eun Lee Seoul National University, Korea
16:25-16:50PM	A12: Robotic assisted Surgery for Endometrial Cancer. The Real Challenge for Gynecologic Oncology & The Future Perspectives of Robotic Surgery for Cervical Cancer	Ioannis G. Papanikolaou University of Athens, Greece

Saturday Nov. 5

Room A

Session: Phuket General I

9:00-9:25AM	A13: Quantum Chemical Molecular Dynamics Simulations on Control of Tribochemical Reaction Dynamics for Design of Super Low Friction System	Momoji Kubo Tohoku University, Japan
9:25-9:50AM	A14: Coupled Maxwell-Schrödinger approach to light-nanomaterial interaction	Tokuei Sako Nihon University, Japan
9:50-10:15AM	A15: Energy Storage by Tuning Adsorption	Michael Probst University of Innsbruck, Austria
10:15-10:30AM	SESSION BREAK	
10:30-10:55AM	A16: Fabrication and evaluation of LSCF-SDC carbonate for intermediate-low temperature solid oxide fuel cells	Hamimah Abd. Rahman Universiti Tun Hussein Onn Malaysia, Malaysia
10:55-11:20AM	A17: On the crystallographic characterization of sub-micron size, truncated gold pyramids by TEM's electron precession diffraction	Miguel Avalos-Borja IPICyT, Mexico
11:20-11:45AM	A18: A novel concept of capturing industrial carbon to keep atmosphere pollution free	Dilip K. De Covenant University, Nigeria
11:45-14:00	LUNCH BREAK	
Session: Surface and Interface Analysis		
14:00-14:25PM	A19: In situ elucidation of the surface chemistry of colloidal nanoparticles with NMR: principles and applications	Jose Martins Ghent University, Belgium

14:25-14:50PM	A20: In situ hard x-ray photoemission spectroscopy of barrier-height control at metal/PMN-PT interfaces	Hermann Kohlstedt University of Kiel, Germany
14:50-15:15PM	A21: Enantiotopic Surfaces of Chiral and Achiral Crystals Trigger Asymmetric Autocatalysis with Amplification of Enantiomeric Excess. Implications in the Origin of Homochirality of Biomolecules	Kenso Soai Tokyo University of Science, Japan
15:15-15:45PM	POSTER (P01-P04) & SESSION BREAK	
15:45-16:10PM	A22: Superconductivity in Topological & Related Spin Orbital Coupling Compounds Tuned via Pressure	Changqing Jin Institute of Physics, CAS, China
16:10-16:35PM	A23: Studies of surface and interface structures of complex functional materials using synchrotron radiation soft-X ray spectroscopies	Junfa Zhu University of Science and Technology of China, China

POSTER

Saturday November 5th 15:15-15:45PM

P01: Enhancement of Solar-Induced Water Electrolysis Using Aligned WO ₃ -TiO ₂ Nanotube Arrays Film	Chin Wei Lai University of Malaya, Malaysia
P02: Asymmetric Autocatalysis on Enantiotopic Surface of Achiral Mineral Gypsum	Arimasa Matsumoto Tokyo University of Science, Japan
P03: Synthesis of high surface area magnetic nanocomposite from graphene nanoplatlets and ferrite prepared from spent Zn-C batteries and its application for removal of organic dye from water	M.A. Gabal King Abdulaziz University, Jeddah, KSA
P04: Crystal Surface of Chiral Triglycine Sulfate Triggers Asymmetric Autocatalysis with Amplification of Enantiomeric Excess	Seiya Shimada Tokyo University of Science, Japan

Sunday Nov. 6 Room A		
Session: Robotics General II		
9:00-9:25AM	A24: Design and Analysis of Collaborative Automated Fiber Placement Machine	Wen Fang Xie Concordia university, Canada
9:25-9:50AM	A25: Wearable Systems to the Hand for Virtual Reality	Joonbum Bae Ulsan National Institute of Science and Technology, Korea
9:50-10:15AM	A26: Recent achievements in bionic robot hand for prosthesis	Kyung-Soo Kim Korea Advanced Institute of Science & Technology, Korea
10:15-10:30AM	SESSION BREAK	
10:30-10:55AM	A27: The interlaced continuum robot: towards follow-the-leader flexible tools	Edoardo Sinibaldi Italian Institute of Technology, Italy
10:55-11:20AM	A28: Twisted String Actuators: All You Need to Know	Igor Gaponov Korea University of Technology and Education, Korea
11:20-14:30	LUNCH BREAK	
Session: Phuket General II		
14:30-14:55PM	A29: Catalytic applications of novel structured bimetallic nanocatalysts for conversion of renewables to chemicals	Raghunath V. Chaudhari The University of Kansas, USA
14:55-15:20PM	A30: Utilizing Nanostructuring and Novel Materials to Develop Viable Thermoelectric Materials	Takao Mori National Institute for Materials Science, Japan

15:20-15:35PM	SESSION BREAK	
15:35-16:00PM	A31: Millimeter-Wave Multiband RFIC Chips for Next-Generation Communications and Sensing Systems	Cam Nguyen Texas A&M University, USA
16:00-16:25PM	A32: Synthesis and applications of various oxide-based nanostructures with controlled morphologies	Cengiz Kaya Sabancı University, Turkey
16:25-16:50PM	A33: Local Structure, Optical, Transport and Magnetic Properties of (Mn/Ga,N) codoped ZnO films	Rodica Plugaru National Institute for R&D in Microtechnologies-IMT Bucharest, Romania