

EAMC and parallel events at a glance

Summary of Program

Day - 1: Tuesday 22 August 2017 Port of Stockholm, Sweden		Day - 2: Wednesday 23 August 2017 Port of Helsinki, Finland		Day - 3: Thursday 24 August 2017 Port of Stockholm, Sweden	
Registration	09.00-10.30	Breakfast	07.30-08.45	Breakfast	07.30-08.45
Boarding	10.30-10.45	Plenary Session	09.00-10.30	Check Out	08.00-08.30
Plenary Session	10.45-12.30	Coffee Break	10.45-11.00	Parallel Session	09.00-10.30
Lunch & Poster Setup	12.00*-13.30	Parallel Session	11.00-12.30	Coffee Break	10.30-10.45
Cabin Access	13.30-14.00	Lunch	12.00*-13.30	Plenary Session	10.45-12.30
Parallel Session	14.00-16:30	Sightseeing in Helsinki	13.30-15.30	Lunch	12.00*-13.30
IAAM Felicitation and Welcome Ceremony	16.30-17.30	Parallel Session	16.00-17.30	Parallel Session	13.30-15.00
Poster Session & Parallel Session	18.00-19.30	IAAM Awards and Farewell Drink	17.30-18.30	Closing Ceremony	15.00-15.30
Dinner	20.00-21.30	Dinner	20.00-21.30	Disembark from the Viking Cruise	15:30
Entertainment**	21.30-22.30	Entertainment**	21.30-22.30	Sightseeing in Stockholm	16.00-18.00

*Accompanying person can start their Lunch at 12.00

**A variety of entertainment is available each evening

Venue Chart

	Club Mar, Deck-7		Conference Center, Deck-8					Session VII - HOB
	Session I - Club Mar	Session II - Auditorium A	Session III - Auditorium B	Session IV - B51-52	Session V - B31-32	Session VI - S22-23		
Day - 1: Tuesday 22 August 2017 Port of Stockholm, Sweden	Plenary Session	NP	NN	ESAS	BB	EHM	CM	
			EMCC	EMCC	ETFCMTS	EMCC		
Day - 2: Wednesday 23 August 2017 Port of Helsinki, Finland	Plenary Session	NP	NN	GGF: GSC	BBM	EHM	WTF	Delegates Gallery
	NP		NN	GCN	EMNS	CCM	WTF	
Day - 3: Thursday 24 August 2017 Port of Stockholm, Sweden	NP	Plenary Session	EGM	GIBSS	STP	CSEM	WTF	
	NP		EGM	GGF: GA	OEMM	AMI		

Abbreviations	NP	Nanogenerators and Piezotronics	GIBSS	Graphene Interfacing Biological Systems Symposium	CCM	Composite and Ceramic Materials
	GGF: GSC	Global Graphene Forum: Growth, Synthesis and Characterizations	GCN	Growth of Carbon Nanomaterials	GGF: GA	Global Graphene Forum: Graphene Applications
	NN	Nanomaterials and Nanotechnology	BB	Biomaterials and Biodevices	CSEM	Constructional, Structural and Engineering Materials
	EGM	Environmental and Green Materials	BBM	Biosensor and Bioelectronic Materials	AMI	Advanced Materials Innovations in the Baltic Sea Region
	EMCC	European Medical and Clinical Conference	EMNS	European Microfluidics And Nanofluidics Summit	CM	Computational Materials
	ESAS	European Sensors & Actuators Summit	STP	Science and Technology of Polymers	ETFCMTS	European Thin Film & Coating Materials Technology Summit
	EHM	Energy and Harvesting Materials	OEMM	Optical, Electronic and Magnetic Materials	WTF	World Technology Forum

Day - 1: Tuesday, 22 August 2017, M/S Mariella, Viking Line, Sweden

22 - 24 August 2017

- 09.00-10.30** Registration at Viking Line Terminal, Stadsgården, 116 30 Stockholm, Sweden
- 10.30-10.45** Boarding at M/S Mariella Viking Cruise and Drop Luggage in Music Meister
- 10.45-11.00** Opening Ceremony
- EAMC Chair(s):** Ashutosh Tiwari, Institute of Advanced Materials, Sweden and Zhong Lin Wang, Georgia Institute of Technology, USA
- President IAAM:** Hisatoshi Kobayashi, National Institute for Materials Science, Japan and Viking Line: Per-Olof Wahlin, Sweden
- 11.00-12.30** Plenary Session at Club Mar, Deck 7
- Chair(s):** Ashutosh Tiwari, Institute of Advanced Materials, Sweden and Hisatoshi Kobayashi, National Institute for Materials Science, Japan
- 11.00-11.40** Advanced Materials Laureate Lecture: Luis M. Liz-Marzán, CIC biomaGUNE, Spain - Advanced nanomaterials for plasmonic sensing
- 11.40-12.10** European Advanced Materials Award Lecture: Liberato Manna, Istituto Italiano di Tecnologia, Italy - Halide perovskites: Synthesis, transformations and their application in devices
- 12.10-12.30** IAAM Medal Lecture: Lucia Hegedusova, European Commission, Belgium - The european research council
- 12.00-13.30** Lunch at Viking Buffet, Deck 7
- Poster Setup at Conference Centre, Deck 8
- 13.30-14.00** Cabin Access
- 14.00-16.30** Parallel Sessions 1-2-3-4-5-6, Venue: Club Mar, Deck 7 and Conference Centre, Deck 8

Session I
Venue: Club Mar, Deck 7
Nanogenerators and Piezotronics: Fundamental Materials and Prospects

- Chair:** **Co-Chair:**
- 14.00-14.30** Nanogenerators and Piezotronics Award Lecture: Yue Zhang, University of Science and Technology Beijing, China - Triboelectric nanogenerators as self-powered biomechanical motion sensors
- 14.30-15.00** IAAM Medal Lecture: Sang-Woo Kim, Sungkyunkwan University, South Korea - Piezoelectric and triboelectric properties in 2D materials for nanogenerators and tribotronics
- 15.00-15.20** Invited Lecture: Christian Falconi, University of Rome Tor Vergata, Italy - Nanoscale piezoelectricity and triboelectricity: Challenges and opportunities
- 15.20-15.40** Invited Lecture: Sangmin Lee, Chung-Ang University, South Korea - Development of triboelectric nanogenerator as a sustainable energy harvester
- 15.40-16.00** Invited Lecture: Yan Zhang, University of Electronic Science and Technology of China, China - Theoretical model of quantum piezotronics
- 16.00-16.10** Oral: Hanjun Ryu, Sungkyunkwan University, South Korea - High performance triboelectric nanogenerators based on solid polymer electrolytes with asymmetric ion pairing effect
- 16.10-16.20** Oral: Tae Yun Kim, Sungkyunkwan University, South Korea - Quantitative study of triboelectric charge trapped in graphene-metal heterojunction by triboelectrification
- 16.20-16.30** Oral: Yi Xi, Chongqing University, China - Multifunctional TENG for blue energy scavenging and self-powered wind speed sensor

Session II
Venue: Auditorium A, Conference Centre, Deck 8
Nanomaterials and Nanotechnology

- Chair:** **Co-Chair:**
- 14.00-14.30** IAAM Medal Lecture: Zhongfu Zhou, China - Synthesis of a hedgehog-like ZnO/Bi₂O₃CO₃ heterojunction and its enhanced photocatalytic performance
- 14.30-14.50** Invited Lecture: Jinho Ahn, Hanyang University, South Korea - Characterization of nano-scale membrane for EUV pellicle applications
- 14.50-15.10** Invited Lecture: Xiaoyu Yang, Wuhan University of Technology, China - Hierarchical self-assembly materials with high activity and stability
- 15.10-15.30** Invited Lecture: Nils Almqvist, Lulea University of Technology, Sweden - Towards nanolithography with starch and α -amylase
- 15.30-15.40** Oral: Stefan Andersson, SINTEF Materials and Chemistry, Norway - Synthesis and modelling of materials for chemical looping reforming
- 15.40-15.50** Oral: Zhong Fuxin, Guilin University of Technology, China - Preparation and photoelectric properties of Cu₂O thin film by anodic oxidation method
- 15.50-16.00** Oral: Avtandil Tavkhelidze, Ilia State University, Georgia - Experimental study of geometry-induced doping in Si
- 16.00-16.10** Oral: Florent Pourcin, Aix-Marseille University, France - Aggregation control of nanoparticles embedded in thin layers for hybrid materials with tunable optical properties
- 16.10-16.20** Oral: Risa Suryana, Sebelas Maret University, Indonesia - Simple models of interaction of hydrocarbon gases with Si(111)-7x7 surfaces to obtain SiC

- 16.10-16:20 **Oral: Tseung-Yuen Tseng, National Chiao Tung University, Taiwan** - Enhanced electrochemical properties of nanocomposite supercapacitors by using graphene
- 16.20-16:30 **Oral: Yu-Shen Chen, National Cheng Kung University, Taiwan** - Synthesis WS₂ nanosheets from lithium intercalation for hydrogen evolution

Session III

Venue: Auditorium B, Conference Centre, Deck 8

European Sensors & Actuators Summit

Chair:

Co-Chair:

- 14.00-14:20 **IAAM Medal Lecture: Dongmei Chen, The University of Texas at Austin, USA** - A novel identification algorithm for physiological signal sensing
- 14.20-14:40 **Invited Lecture: Zhi-Mei Qi, Chinese Academy of Sciences, China** - Mirrorless miniature fourier transform spectrometer with algorithmic enhancement of spectral resolution
- 14.40-14:50 **IAAM Scientists Medal Lecture: Mauro Callejas-Cuervo, Pedagogical and Technological University of Colombia, Colombia** - Emotion recognition from physiological signals and videogames to detect personality traits
- 14.50-15:00 **IAAM Scientists Medal Lecture: Tapas Maiti, Hiroshima University, Japan** - Ground-condition detection with pressure sensor to drive two-leg robot
- 15.00-15:10 **IAAM Scientists Medal Lecture: Shubhajit Roy Chowdhury, Indian Institute of Technology Mandi, India** - Design and simulation of helmholtz coil for a low cost and low magnetic field MRI system
- 15.10-15:20 **Oral: Kira Astakhova, University of Southern Denmark, Denmark** - Amplification-free liquid biopsy by fluorescence microscopy
- 15.20-15:30 **Oral: Chu-Sing Yang, National Cheng Kung University, Taiwan** - Signal enhancement using PVDF sensor arrays via blind source separation
- 15.30-15:40 **Oral: Patryk Kot, Liverpool John Moores University, UK** - Electromagnetic sensor for the detection of alpha-cypermethrin on walls
- 15.40-15:50 **Oral: Xingjian Jing, Hong Kong Polytechnic University, Hong Kong** - A bio-inspired sensor system in vibration measurement
- 15.50-16:00 **Oral: Guy Ayissi Eyebe, Université du Québec à Trois-Rivières, Canada** - CPWG-based humidity sensor with TEMPO oxidized cellulose nanofibers as sensitive dielectric
- 16.00-16:10 **Oral: Vytautas Ostasevicius, Kaunas University of Technology, Lithuania** - Innovative sensors and actuators for health support
- 16.10-16:20 **Oral: Samir Haddad, Balamand University, Lebanon** - Multi-source energy based routing protocol in sensor networks
- 16.20-16:30 **Oral: Anton Klimenko, The University of Utah, USA** - On the coffee ring effect in pseudo-evaporative and non-evaporative diffusive systems

Session IV

Venue: B51-52, Conference Centre, Deck 8

Biomaterials and Biodevices

Chair:

Co-Chair:

- 14.00-14:20 **IAAM Medal Lecture: Henry Li, University of Manchester, UK** - An implantable and controllable drug-release silk fibroin nanofibrous matrix for smart treatment of cancer
- 14.20-14:40 **Invited Lecture: Lu Wang, Donghua University, China** - Design and mechanical behaviors of sutureless prototype composite NiTi stent-grafts
- 14.40-14:50 **IAAM Scientists Medal Lecture: Fiona Waefer, National University of Ireland, Ireland** - Therapy transport into ischemic heart tissue from an implantable reservoir device
- 14.50-15:00 **Oral: Tiantian Wu, College of Biosystems Engineering and Food Science, China** - Formation and characterization of nano/micro particles based on chitosan and alginate for biomaterial delivery
- 15.00-15:10 **Oral: Bogdan Parakhonskiy, Ghent University, Belgium** - Calcium carbonate based platforms for theranostic application
- 15.10-15:20 **Oral: Fujun Wang, Donghua University, China** - Novel structure of PLA fabric combined with PCL to form a composite structure vascular graft
- 15.20-15:30 **Oral: Maria Isabel Pividori, Autonomous University of Barcelona, Spain** - Rapid diagnostic test for celiac disease based on deamidated magnetic peptide as a novel biomarker
- 15.30-15:40 **Oral: Praveen Kumar S, Saveetha Engineering College, India** - Selective adsorption of low density lipoprotein from blood using porous silicon
- 15.40-15:50 **Oral: Jing Lin, Donghua University, China** - The preparation and properties of an innovative stent-graft fabric with a local reinforced zone
- 15.50-16:00 **Oral: Andres Bernal, Universidad Manuela Beltrán, Colombia** - PVA-chitosan-ampicillin: A new bio-artificial polymeric material with reinforced antibacterial activity
- 16.00-16:10 **Oral: Joel Espino, Cinvestav - Unidad Saltillo, Mexico** - Sol-gel synthesis of mixed ferrites for biomedical applications
- 16.10-16:20 **Oral: Lin Ye, Beijing Institute of Technology, China** - The small diameter TEVG scaffold based on heparin modified PCL
- 16.20-16:30 **Oral: Doha Berraouan, Laboratory of Physical Chemistry of Natural Resources and Environment, Morocco** - Effect of calcium chloride on rheological behavior of sodium alginate

Session V

Venue: B31-32, Conference Centre, Deck 8

Energy and Harvesting Materials

Chair:

Co-Chair:

- 14.00-14:20 **IAAM Scientists Medal Lecture: Zhe Li, Swansea University, UK** - Non-fullerene acceptors: A promising solution for more stable, efficient organic solar cells?
- 14.20-14:40 **Invited Lecture: Jiazhao Wang, University of Wollongong, Australia** - Free-standing S-PPy fiber@PPy film cathode for lithium-sulfur batteries
- 14.40-15:00 **Invited Lecture: Jianxin Geng, Chinese Academy of Science, China** - Graphene-based composites with controlled structures for high-performance energy storage materials
- 15.00-15:10 **IAAM Scientists Medal Lecture: Haining Tian, Uppsala University, Sweden** - Organic semiconducting polymer nano-dots as efficient photocatalysts for light driven proton reduction
- 15.10-15:20 **IAAM Medal Lecture: Karen Gambaryan, Yerevan State University, Armenia** - Narrow bandgap diode heterostructures and photoconductive cells with quantum dots for thermophotovoltaic and other mid-infrared applications

- 15.20-15.30 **IAAM Scientists Medal Lecture: I.N.G. Wardana, Brawijaya University, Indonesia** - Hybrid effect of the activated carbon and the CuO catalyst on vegetable oil steam reforming
- 15.30-15.40 **Oral: Isaac Sanchez, University of Texas, USA** - Energy saturation: An alternative mechanism for the glass transition
- 15.40-15.50 **Oral: Kazuki Wakita, Chiba Institute of Technology, Japan** - Photovoltaic CuInS_2 films by PLD method
- 15.50-16.00 **Oral: Po Yen Kung, National Cheng Kung University, Taiwan** - Width absorption spectrum excitation plasmonic gold/silver nanoparticles on Fe/ZnO nanorods assisting the enhancement of generate hydrogen by water splitting photochemistry
- 16.00-16.10 **Oral: Ioannis Tsiaoussis, Aristotle University Thessaloniki, Greece** - Structural investigation of carbon morphology on Ni/cerium-zirconium oxide catalysts used for the biogas dry reforming reaction
- 16.10-16.20 **Oral: Bahman Amini Horri, University of Surrey, UK** - Gelling synthesis of NiO/YSZ nanocomposite powder for solid oxide fuel cells
- 16.20-16.30 **Oral: Zhuo Kang, University of Science and Technology Beijing, China** - Interface engineering for charge carrier behavior modulation in ZnO photoelectrochemical water splitting

Session VI

Venue: S22-23, Conference Centre, Deck 8

Computational Materials

- | Chair: | Co-Chair: |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 14.00-14:20 | IAAM Medal Lecture: Hong Seok Kang, Jeonju University, South Korea - Electronic structures and energy applications of inorganic and organometallic layered materials |
| 14.20-14:40 | IAAM Scientists Medal Lecture: Shawqi Al Dallal, Ahlia University, Bahrain - Size dependent nonlinear absorption and refractive index coefficients of PbS quantum dots dispersed in toluene |
| 14.40-15:00 | IAAM Scientists Medal Lecture: Nirupam Chakraborti, Indian Institute of Technology Kharagpur, India - Data-driven evolutionary optimization in materials science |
| 15.00-15:10 | IAAM Scientists Medal Lecture: Luis Villamagua, Universidad Técnica Particular de Loja, Ecuador - Change of the electrical and magnetic properties of SnO_2 when doped with increasing concentrations of Zn and Sb atoms |
| 15.10-15:20 | Oral: Reyes Flores, National Autonomous University of Mexico, Mexico - High-spin graphene nanoflakes for molecular-magnets |
| 15.20-15:30 | Oral: Yun-I Ho, National Cheng Kung University, Taiwan - Electronic transport properties in transition-metal oxide based heterostructures: First-principles calculations |
| 15.30-15:40 | Oral: Zhang Min, Xi'an University of Technology, China - Simulation on dendrite growth during solidification of Ti-45%Al alloy in the weld pool |
| 15.40-15:50 | Oral: Zhi - Yi Wang, National Cheng Kung University, Taiwan - Geometric and electronic properties of Sn-based organic-inorganic hybrid perovskite solar cell: A first-principles analysis |
| 15.50-16:00 | Oral: Eivind Bering, Norwegian University of Science and Technology, Norway - A simulation approach to creep in extended and nanometric polymeric fibres |
| 16.00-16:10 | Oral: Lin Kuan Bo, National Cheng Kung University, Taiwan - Interface effects on quantum transport through ultrathin dielectric films: A First-principle study |
| 16.10-16:20 | Oral: Hyunsu Moon, Yonsei University, South Korea - Prediction of deflection distribution from strains using artificial neural network and optimization of sensor placement using genetic algorithm |
| 16.20-16:30 | Oral: Javid Butt, Anglia Ruskin University, UK - Finite element modelling and thermomechanical analysis of layered aluminium parts made by composite metal foil manufacturing |
| 16.30-17.30 | IAAM Felicitation and Welcome Ceremony at Club Mar, Deck-7 |
| 18.00-19.30 | Poster Session at Conference Center, Deck-8 |
| 18.00-19.30 | Parallel Sessions 1-2-3, Venue: Conference Centre, Deck 8 |

Session I

Venue: Auditorium A, Conference Center, Deck-8

European Medical and Clinal Conference

- | Chair: | Co-Chair: |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 18.00-18.20 | IAAM Scientists Medal Lecture: Rohidas Arote, Seoul National University, South Korea - Receptor mediated endocytosis of multifunctional polylactitol-based gene transporter with siOPA1 for liver cancer therapy |
| 18.20-18.40 | Invited Lecture: Hui Lan, Chinese University of Hong Kong, Hong Kong - Diverse role of smads in cardiac remodeling: Mechanisms and therapeutic implications |
| 18.40-18.50 | Oral: Hui Lan, Chinese University of Hong Kong, Hong Kong - Smad3 is essential for the development of type 2 diabetic kidney disease |
| 18.50-19.00 | Oral: Yunfeng Zhou, Shenzhen University, China - Cytochrome P450 4A14, a target for the treatment of renal fibrosis |
| 19.00-19.10 | Oral: Liang Chu, Huazhong University of Science and Technology, China - SNORD126 promotes hepatocellular carcinoma and colorectal cancer cell growth by activating the PI3K-AKT pathway through FGFR2 |
| 19.10-19.20 | Oral: Yogesh Shukla, Maharashtra University of Health Sciences, India - Conundrum of right atrial mass |
| 19.20-19.30 | Oral: Grace George, Walter Sisulu University, South Africa - Functional nutrition to modulate oxidative stress in Type 2 diabetes and its complications in South Africa |

Session II

Venue: Auditorium B, Conference Center, Deck-8

European Medical and Clinal Conference

- | Chair: | Co-Chair: |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 18.00-18.10 | Oral: Biao Lu, Santa Clara University, USA - Engineering dual-tagged transmembrane reporters for exosome tracking |
| 18.10-18.20 | Oral: Jaroslav Kristof, Shizuoka University, Japan - Feasibility of transdermal delivery by microplasma discharge |
| 18.20-18.30 | Oral: Jostein Grip, University of Tromso, Norway - Development of a novel wound healing spray: soluble beta-1,3/1,6-glucan as an active ingredient in Carbopol matrix in a db/db wound model |
| 18.30-18.40 | Oral: Petra Perner, Institute of Computer Vision and Applied Computer Sciences IBA, Germany - Health monitoring by automated probe handling, microscopic imaging and image interpretation system – A system for airborne fungi identification |

- 18.40–18.50 **Oral: Mohammad Agha, University of Toronto, Canada** - Congenital abnormalities in newborns of women with pre-gestational diabetes: A time-trend analysis, 1994-2009
- 18.50–19.00 **Oral: Suyan Shan, Wenzhou Medical University, China** - Functionalized graphene hybrids as highly targeted drug delivery carriers towards choroidal melanoma
- 19.00–19.10 **Oral: Yulia Svenskaya, Saratov State University, Russia** - Porous biodegradable submicron particles for efficient transdermal drug delivery
- 19.10–19.20 **Oral: Mohammadreza Kolahdouz, University of Tehran, Iran** - Diabetes diagnosis through human respiratory using field emission of Al:ZnO nanorods
- 19.20–19.30 **Oral: Bhupen Kalita, Girijananda Chowdhury Institute of Pharmaceutical Science, India** - Essential oils loaded polymeric dermal patch for prolonged repellent effect against mosquitoes

Session III

Venue: B51-52, Conference Center, Deck-8

European Thin Film & Coating Materials Technology Summit

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| Chair: | Co-Chair: |
| 18.00–18.20 IAAM Medal Lecture: Stephan Armyanov, Bulgaria - Electroless deposited ternary alloys: Third element chemical state, localization, and influence on the properties | |
| 18.20–18.40 IAAM Scientists Medal Lecture: Shauna Robbenolt, Autonomous University of Barcelona, Spain - Structural and magnetic properties of Fe-based nanoporous thin films | |
| 18.40–19.00 Invited Lecture: Biplab Paul, Linköping University, Sweden - Fully inorganic flexible $\text{Ca}_3\text{Co}_4\text{O}_9$ thin films for wearable thermoelectric applications | |
| 19.00–19.20 Invited Lecture: Miki Hasegawa, Aoyama Gakuin University, Japan - Molecular design strategies for the enhancement of the on-demand luminescence of rare earth compounds | |
| 19.20–19.30 Oral: Iryna Smokovych, Otto-von-Guericke University Magdeburg, Germany - Particle-filled polysilazane-type PDC coatings on titanium metal | |

Session IV

Venue: B31-32, Conference Center, Deck-8

European Medical and Clinical Conference

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| Chair: | Co-Chair: |
| 18.00–18.20 IAAM Scientists Medal Lecture: Zeev Zalevsky, Bar Ilan University, Israel - Nano-particles based novel schemes for super-resolved imaging, medical diagnosis & treatment | |
| 18.20–18.40 Invited Lecture: Abbas Abbas, Cairo University, Egypt - Use of differentiated mesenchymal stem cells in treatment of experimental diabetes type I | |
| 18.40–18.50 Oral: Muhammad Ansari, Bahauddin Zakariya University, Pakistan - Preparation and characterization of ternary complexes of gliclazide with hydroxypropyl- β -cyclodextrin and sodium taurocholate | |
| 18.50–19.00 Oral: Seyed Masoud Arzaghi, Tehran University of Medical Sciences, Iran - Type II diabetes and personality; a study to explore other psychosomatic aspects of diabetes | |
| 19.00–19.10 Oral: Barkat Khan, Gomal University, Pakistan - Optimizing the role of polymer blend, preparation and evaluation of acyclovir controlled-release tablets by wet granulation technique | |

20.00-21.30 Dinner at Viking Buffet, Deck 7

21.30-22.30 Entertainment at Club Mar, Deck 7

Day - 2: Wednesday, 23 August 2017, M/S Mariella, Viking Line, Sweden

07.30-08.45 Breakfast at Viking Buffet, Deck 7

09.00-10.30 Plenary Session, Venue: Club Mar, Deck 7

Chair(s): Luis Manuel Liz Marzán, CIC biomaGUNE, San Sebastián, Spain and Liberato Manna, Istituto Italiano di Tecnologia, Italy

09.00-09.40 **European Advanced Materials Award Lecture: Andrew Ewing, University of Gothenburg, Sweden** - The chemical structure of cell membranes and nanometer vesicles in cells09.40-10.20 **Graphene Award Lecture: Robert Hurt, Brown University, USA** - Graphene-based breathable barriers for multifunctional fabrics10.20-10.45 **IAAM Medal Lecture: H. Purushotham, Ministry of Science & Technology, Gov. of India, India** - Commercializing advanced materials technologies from Indian R&D institutions to industry: Challenges and case studies

10.45-11.00 Coffee Break at Conference Center, Deck-8

11.00-12.30 Parallel Sessions 1-2-3-4-5, Venue: Club Mar, Deck 7 and Conference Centre, Deck 8

Session I

Venue: Club Mar, Deck 7

Nanogenerators and Piezotronics: Semiconductor and Ferroelectric Nanomaterials

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| Chair: | Co-Chair: |
| 11.00-11.30 IAAM Scientists Medal Lecture: Nelson Sepulveda, Michigan State University, USA - The ferro electret nano generator | |
| 11.30-11.50 Invited Lecture: Chi Zhang, Chinese Academy of Sciences, China - Tribotronics a new field by coupling triboelectricity and semiconductor | |
| 11.50-12.00 IAAM Medal Lecture: Weiguo Hu, Beijing Institute of Nanoenergy and Nanosystems, China - Piezotronic and piezo-phototronic effects in III-Nitrides | |
| 12.00-12.10 Oral: Xuedong Bai, Chinese Academy of Sciences, China - Lateral piezopotential-gated field-effect transistor of ZnO nanowires | |
| 12.10-12.20 Oral: Chunhua Du, Chinese Academy of Science, China - Piezo-phototronic effect controlled visible light communication (PVLC) using InGaN/GaN light-emitting diodes | |

12.20-12.30 **Oral: Sung Soo Kwak, SungKyunKwan University, South Korea** - Large electric power generation from a single droplet on monolayer graphene on triboelectrified polytetrafluoroethylene

Session II

Venue: Auditorium A, Conference Center, Deck-8

Nanomaterials and Nanotechnology

11.00-11.20 **IAAM Medal Lecture: Ya Ding, China** - Drug-conjugated gold nanoparticles and their hybrid liposomes for liver tumor treatment

11.20-11.40 **Invited Lecture: Hisatoshi Kobayashi, National Institute for Materials Science, Japan** - PGA/collagen composite nanofiber scaffold for chronic wound care

11.40-12.00 **Invited Lecture: Gil Rosenman, Tel Aviv University, Israel** - Visible peptide nanodots: Nanotechnology, physics and biomedical applications

12.00-12.20 **Invited Lecture: Valerio Voliani, Istituto Italiano di Tecnologia, Italy** - From biological to catalysis applications of biodegradable inorganic nano-architectures

12.20-12.30 **Oral: Tomaz Einfalt, University of Basel, Switzerland** - Catalytic nanocompartments as artificial cell organelles

Session III

Venue: Auditorium B, Conference Center, Deck-8

Global Graphene Forum: Growth, Synthesis and Characterizations

Chair:

Co-Chair:

11.00-11.10 **Introduction of Symposium Organisers: Ashutosh Tiwari, Mikael Syväjärvi, J. Andreas Larsson and Camilla Coletti**

11.10-11.30 **Invited Lecture: Wei Li, The University of Texas at Austin, USA** - Roll-to-roll transfer and adhesion energy measurement of As-grown graphene

11.30-11.40 **IAAM Scientists Medal Lecture: Valentina Cantatore, Chalmers University of Technology, Sweden** - Boron-doped graphene for multifunctional coating

11.40-11.50 **Oral: Lilia Woods, University of South Florida, USA** - Interlayer interactions in the graphene family

11.50-12.00 **Oral: Xiaojing Yang, Beijing Normal University, China** - Graphene formation in the interlayer of LRHs

12.00-12.10 **Oral: Maria Rosaria Acocella, University of Salerno, Italy** - Graphene functionalization as efficient tool to improve the thermomechanical stability and crystallization rate of biodegradable polyester nanocomposites

12.10-12.20 **Oral: Angela Gallardo-Lopez, University of Seville, Spain** - Enhancing processing, microstructure and properties of graphene/3YTZP ceramic composites

12.20-12.30 **Oral: Michal Baranowski, University of Szczecin, Poland** - Copper powder coated with graphene

Session IV

Venue: B51-52, Conference Center, Deck-8

Biosensor and Bioelectronic Materials

Chair:

Co-Chair:

11.00-11.20 **IAAM Medal Lecture: Gou-Jen Wang, National Chung-Hsing University, Taiwan** - A novel biosensor electrode with self-assembled gold nanoparticles on a micro hemisphere array

11.20-11.40 **Invited Lecture: Yaroslav Korpan, Institute of Molecular Biology and Genetics NAS, Ukraine** - Metabolomics on electrodes a new evolutionary step in sensing and sensitivity

11.40-11.50 **IAAM Scientists Medal Lecture: Chaitanya Indira, CMR Institute of Technology, India** - Amperometric catechol biosensor based on metal-oxide nanocrystal sensitized graphite electrodes

11.50-12.00 **Oral: Jin Ouyang, Beijing Normal University, China** - Application of novel nanomaterials in bioanalysis and biosensing

12.00-12.10 **Oral: Miyuki Tabata, Tokyo Medical and Dental University, Japan** - Label-free nucleic acid amplification detection using micro pH devices

12.10-12.20 **Oral: Zeynep Altintas, Cranfield University, Germany** - Electrochemical sensing of computationally simulated disease biomarkers using epitope imprinting

12.20-12.30 **Oral: Saad Ramadhan, University of Exeter, UK** - Fast and highly sensitive ionic polymer gated WS₂-graphene photodetectors

Session V

Venue: B31-32, Conference Center, Deck-8

Energy and Harvesting Materials

Chair:

Co-Chair:

11.00-11.20 **IAAM Medal Lecture: Zaiping Guo, University of Wollongong, Australia** - Hybrid nanostructures for lithium and sodium storage

11.20-11.40 **IAAM Scientists Medal Lecture: Santanu Das, IIT BHU, India** - Graphene nanocomposites for energy harvesting and storage applications

11.40-11.50 **Oral: Rui Liu, Harbin Engineering University, China** - Enhanced conversion efficiency of dye-sensitized solar cells using Sm₂O₃-modified TiO₂ nanotubes

11.50-12.00 **Oral: Mickael Pruvost, ESPCI Paris, France** - Materials with variable permittivity for vibrational energy harvesting

12.00-12.10 **Oral: Mario Vebber, Universidade de Caxias do Sul, Brazil** - Hydrogen production by photocatalytic water-splitting using PAH/PAA/TiO₂/chlorophyllin self-assembled thin films

12.10-12.20 **Oral: Yingfei Yao, Soochow University, China** - A self-powered smart wireless sensing network for identifying vibration events based on hybrid energy harvesters

12.20-12.30 **Oral: Taehun Kim, Chung-Ang University, South Korea** - Energy amplifying gate via marriage of graphene and conducting polymer for enhancing triboelectric efficiency

Session VI

Venue: S22-23, Conference Center, Deck-8

World Technology Forum

SCIENTIFIC PROGRAM

22 - 24 August 2017

Chair:

Co-Chair:

- 11.00-11.20 **Invited Lecture: Xiong Pu, Chinese Academy of Science, China** - Textile-based energy harvesting and energy storage
- 11.20-11.30 **Oral: Mark Opitz, German Aerospace Center, Germany** - Are low-cost foam materials suitable for RTM large-scale production? - A method for material characterization under real boundary process conditions
- 11.30-11.40 **Oral: Mahamadou Seydou, Paris Diderot University, France** - Energetics and electronic properties of graphene decorated by functional conjugated molecules
- 11.40-11.50 **Oral: Faai Zhang, Guilin University of Technology, China** - Confinement effect of mesoporous silicas on bulk ARGET ATRP of styrene
- 11.50-12.00 **Oral: Anand Balaji, The University of Nottingham, Malaysia** - Investigation of ethylene vinyl acetate (EVA)/ ethylene propylene diene monomer (EPDM)/polypropylene (PP) ternary polymer mixture using simplex centroid design
- 12.00-12.10 **Oral: Farong Huang, East China University of Science & Technology, China** - The synthesis and characterization of a heat-resistant Si-containing arylether arylacetylene resin
- 12.10-12.20 **Oral: Carlos Arrambide Cruz, Institute of Separative Chemistry of Marcoule, France** - Superchelating resins for extraction and recycling of elements of interest
- 12.20-12.30 **Oral: Kalun Dong, Wenzhou Medical University, China** - Magnetic graphene hybrids promote neurite outgrowth via magnetic stimulation
- 12.00-13.30 **Lunch at Viking Buffet, Deck 7**
- 13.30-15.30 **Sightseeing in Helsinki**
Parliament Building, Museum of Modern Art
The Stunningly designed Rock Church
Olympic Stadium from the 1952 games
Helsinki Lutheran and Uspenski Orthodox Cathedrals
- 16.00-17.30 **Parallel Sessions 1-2-3-4-5, Venue: Club Mar, Deck 7 and Conference Centre, Deck 8**

Session I

Venue: Club Mar, Deck 7

Nanogenerators and Piezotronics: Harvesting Multiscale Energies

Chair:

Co-Chair:

- 16.00-16.30 **IAAM Scientists Medal Lecture: Chunwen Sun, Beijing Institute of Nanoenergy and Nanosystems, China** - Efficient storing energy harvested by triboelectric nanogenerators using a safe and durable all-solid-state sodium-ion battery
- 16.30-16.50 **Invited Lecture: Junyi Zhai, Beijing Institute of Nanoenergy and Nanosystems, China** - Piezophotonics devices and applications
- 16.50-17.00 **Oral: Jihye Kim, Sungkyunkwan University, South Korea** - Enhanced output performance of P(VDF-TrFE) based energy harvesters using high dipole moment solvent
- 17.00-17.10 **Oral: Jihoon Chung, Chung-Ang University, South Korea** - Harvesting high-speed rotational energy through portable triboelectric nanogenerator
- 17.10-17.20 **Oral: Banseok Kim, Chung-Ang University, South Korea** - Roll-type sheet driven triboelectric nanogenerator
- 17.20-17.30 **Oral: Seong Min Kim, SungKyunKwan University, South Korea** - Analytical study on piezoelectric effects on exciton generation

Session II

Venue: Auditorium A, Conference Center, Deck-8

Nanomaterials and Nanotechnology

Chair:

Co-Chair:

- 16.00-16.20 **IAAM Medal Lecture: Leon Chua, University of California, USA** - Ten things you didn't know about memristors
- 16.20-16.40 **IAAM Medal Lecture: Stoyko Fakirov, IAAM Medal Lecture, New Zealand** - The "converting instead of adding concept" for preparation of polymer nanocomposites
- 16.40-17.00 **IAAM Scientists Medal Lecture: Maria Elena Fragala, University of Catania, Italy** - ZnO based nanostructured mats for application in AOP water treatments
- 17.00-17.20 **Invited Lecture: Kalawati Saini, University of Delhi, India** - Green synthesis of ZnO nanoparticles by using azadirachta indica and their photocatalytic, anti-bacterial, anti-fungal and anti-diabetic activity
- 17.20-17.30 **Oral: Martina Garni, University of Basel, Switzerland** - Visualization of enzymatic reactions inside the cavities of synthetic giant unilamellar vesicles (GUVs)

Session III

Venue: Auditorium B, Conference Center, Deck-8

Growth of Carbon Nanomaterials

Chair:

Co-Chair:

- 16.00-16.20 **Invited Talk: Alister Page, The University of Newcastle, Australia** - Catalysts, etchants and magnetic fields: How can carbon nanostructure growth be controlled?
- 16.20-16.40 **Invited Talk: Mihkel Koel, Tallinn University of Technology, Estonia** - Carbon aerogels - cheap smart materials
- 16.40-16.50 **IAAM Scientists Medal Lecture: Aristides Bakandritsos, Palacky University in Olomouc, Czech Republic** - From fluorographene to cyanographene and graphene-acid
- 16.50-17.00 **Oral: Daniel Hedman, Lulea University of Technology, Sweden** - Linking stability of single-walled carbon nanotubes with growth products
- 17.00-17.10 **Oral: Toma Susi, University of Vienna, Austria** - Single-atom spectroscopy of phosphorus dopants implanted into graphene
- 17.10-17.20 **Oral: Dimitrios Chronopoulos, Palacky University in Olomouc, Czech Republic** - High-yield alkylation and arylation of graphene via grignard reaction with fluorographene
- 17.20-17.30 **Oral: Christian Wenger, IHP GmbH - Leibniz Institute for Innovative Microelectronics, Germany** - Towards graphene-based vertical transistors for microelectronic applications

Session IV

Venue: B51-52, Conference Center, Deck-8

European Microfluidics And Nanofluidics Summit

Chair:

Co-Chair:

- 16.00-16.20 **IAAM Medal Lecture: Andrea Barbeta, University of Rome "La Sapienza", Italy** - Highly tailorable and monodisperse porous beads via microfluidics
- 16.20-16.40 **Invited Lecture: Oleksandr Denisov, Harbin Institute of Technology, China** - Millimeter wave discriminator for the detection stealth objects
- 16.40-16.50 **IAAM Scientists Medal Lecture: Virginia Pensabene, University of Leeds, UK** - Innovative microfluidic approaches in reproductive biology
- 16.50-17.00 **Oral: Masashi Mizukami, Tohoku University, Japan** - Characterization of nano-confined liquids using resonance shear measurement
- 17.00-17.10 **Oral: Christina Danny, Indian Institute of Technology Madras, India** - Design and fabrication of PMMA based microfluidic device for plasmonic U-bent plastic optical fiber sensors
- 17.10-17.20 **Oral: Vera Faustino, Universidade do Minho, Portugal** - Preliminary evaluation of a microfluidic device for blood separation and deformation assessment
- 17.20-17.30 **Oral: Majid Ndoye, University of British Columbia, Canada** - Substrate integrated cavity circular resonator filled with nano-fibrillated cellulose for humidity detection

Session V

Venue: B31-32, Conference Center, Deck-8

Composite and Ceramic Materials

Chair:

Co-Chair:

- 16.00-16.10 **Oral: Sandra Gelbrich, TU Chemnitz, Germany** - Function-integrative textile reinforced concrete shells
- 16.10-16.20 **Oral: Huazhang Zhai, Beijing Institute of Technology, China** - High-temperature microwave dielectric properties of boron nitride ceramics without additives
- 16.20-16.30 **Oral: Guven Turgut, Erzurum Technical University, Turkey** - The deposition of NiO thin films via sol-gel spin coating; molarity effect
- 16.30-16.40 **Oral: Rajiv Gupta, Birla Institute of Technology and Science, India** - Evaluation of use of bottom ash in cement masonry and concrete regarding their mechanical properties
- 16.40-16.50 **Oral: Jinhua Jiang, Donghua University, China** - Effect of fiber bending structure on the permeability of non-crimp fabric in LCM
- 16.50-17.00 **Oral: Pragya Shandilya, MNNIT Allahabad, India** - Experimental study on performance characteristics of Ni-rich NiTi shape memory alloy in wire electric discharge machining
- 17.00-17.10 **Oral: Liangyu Chen, Jiangsu University of Science and Technology, China** - Calculation of the planar disregistry between zirconium and its oxide under the effect of stress by using modified Turnbull-Vonnegut equation
- 17.10-17.20 **Oral: Ze-Xin Wang, Jiangsu University of Science and Technology, China** - Degradation behavior of micro-arc oxidized ZK60 magnesium alloy in simulated blood fluid
- 17.20-17.30 **Oral: Andris Berzins, Latvia University of Agriculture, Latvia** - Softwood surface compatibility with inorganic geopolymer

Session IV

Venue: S22-23, Conference Center, Deck-8

World Technology Forum

Chair:

Co-Chair:

- 16.00-16.20 **Invited Lecture: Giuseppe Barbieri, ITM-CNR, Italy** - CO₂ separation with thermally rearranged polymer membranes: Separation properties, aging and restoring
- 16.20-16.40 **Invited Lecture: Raju Gupta, Indian Institute of Technology Kanpur, India** - Enhanced photocatalytic activity of sensitized/doped electrospun titanium dioxide nanofibers for degradation of organic compounds
- 16.40-16.50 **IAAM Scientists Medal Lecture: Mohd Abdullah, Malaysia** - Bio/nanotechnology and the integrated biorefinery based on microalgal cultivation and palm oil milling for sustainable production of biofuels and bioproducts
- 16.50-17.00 **Oral: Insang Yang, Ewha Womans University, South Korea** - Selective probe of spin excitations in the Mn³⁺ layers of hexagonal RMnO₃
- 17.00-17.10 **Oral: Lu Yan, Wenzhou Medical University, China** - Polypyrrole/graphene nanofibers for cell stimulation
- 17.10-17.20 **Oral: Kate Kotlhao, Vaal University of Technology, South Africa** - Synthesis, characterization of Ag doped TiO₂ nanocomposites for photodegradation of chlorophenols
- 17.20-17.30 **Oral: Yuan Li, Zhejiang University, China** - Preparation and characterization of citrus essential oil loaded in chitosan microcapsules by using different emulsifiers
- 17.30-18.30 **IAAM Awards and Farewell Drink at Club Mar, Deck 7**
- 20.00-21.30 **Dinner at Viking Buffet, Deck 7**
- 21.30-22.30 **Entertainment at Club Mar, Deck 7**

Day - 3: Thursday, 24 August 2017, M/S Mariella, Viking Line, Sweden

- 07.30-08.45 **Breakfast at Viking Buffet, Deck 7**
- 08.00-08.30 **Check Out from the Cabins and Store luggage in the Music Meister, Deck 7**
- 09.00-10.30 **Parallel Sessions 1-2-3-4-5, Venue: Club Mar, Deck 7 and Conference Centre, Deck 8**

Session I

Venue: Club Mar, Deck 7

Nanogenerators and Piezotronics: Integrated nanosystems

Chair:

Co-Chair:

- 09.00-09.30 **IAAM Scientists Medal Lecture: Renyun Zhang, Mid Sweden University, Sweden** - Nanogenerators based on ZnO nanosheet networks
- 09.30-09.50 **Invited Lecture: Chenguo Hu, Chongqing University, China** - Self-powered triboelectric micro liquid/gas flow sensor for microfluidics

- 09.50-10.10 **Invited Lecture: Kaushik Parida, Nanyang Technological University, Singapore** - Self-polarized PVDF-TrFE films for ultra large range self-powered pressure sensor
- 10.10-10.20 **Oral: Giuseppe Melilli, CEA, France** - Promoting the piezoelectric response in poly(vinylidene fluoride) by radiation sources
- 10.20-10.30 **Oral: Hyungseok Yong, Chung-Ang University, South Korea** - Omnidirectional wind-rolling triboelectric nanogenerator

Session II

Venue: Auditorium A, Conference Center, Deck-8

Environmental and Green Materials

- Chair:** **Co-Chair:**
- 09.00-09.20 **IAAM Medal Lecture: Bin Fei, Hong Kong Polytechnic University, Hong Kong** - Enhanced photocatalytic efficiency of hybrid perovskite in organic solvents
- 09.20-09.40 **IAAM Medal Lecture: Urszula Narkiewicz, West Pomeranian University of Technology, Poland** - Adsorption of carbon dioxide on solid sorbents
- 09.40-10.00 **IAAM Scientists Medal Lecture: Chad Ulven, North Dakota State University, USA** - Photodegradable and recyclable bio-based composites
- 10.00-10.10 **Oral: Kao-Shuo Chang, National Cheng Kung University, Taiwan** - Photocatalytic and photoelectrochemical performance of Ta₃N₅ microcolumn films fabricated using facile reactive sputtering
- 10.10-10.20 **Oral: Alejandro Zuleta Gil, Universidad Pontificia Bolivariana, Colombia** - Mechanical, microstructural characterization and redesign of a BMX bicycle frame
- 10.20-10.30 **Oral: Djoko Gabriel, Universitas Indonesia, Indonesia** - Design for material value conservation of plastic packaging with integrated stakeholders role support using interpretive structural modelling

Session III

Venue: Auditorium B, Conference Center, Deck-8

Graphene Interfacing Biological Systems Symposium

- Chair:** **Co-Chair:**
- 09.00-09.20 **IAAM Medal Lecture: Silvia Dante, Istituto Italiano di Tecnologia, Italy** - Cell properties on patterned SLG
- 09.20-09.40 **Invited Lecture: David Estrada, Boise State University, USA** - Applications of atomically thin materials from biomolecules to engineered tissue
- 09.40-10.00 **Invited Lecture: Zari Tehrani, Swansea University, UK** - Graphene sensors for protein detection
- 10.00-10.10 **Oral: Valerio Voliani, Istituto Italiano di Tecnologia, Italy** - Early detection of neoplasms by graphene-based sensors
- 10.10-10.20 **Oral: Domenica Convertino, Istituto Italiano di Tecnologia, Italy** - Peripheral neuron survival and outgrowth on graphene
- 10.20-10.30 **Oral: Xinjian Chen, University of Utah, USA** - Association of antitumor antibodies with graphene oxide substantially enhances the antibodies' antitumor activities

Session IV

Venue: B51-52, Conference Center, Deck-8

Science and Technology of Polymers

- Chair:** **Co-Chair:**
- 09.00-09.20 **IAAM Medal Lecture: Jiping Wang, Zhejiang Sci-Tech University, China** - Smart textiles with soft thermal responsive polymers
- 09.20-09.40 **IAAM Scientists Medal Lecture: Bianca Pistillo, Luxembourg Institute of Science and Technology, Luxembourg** - Prap-CVD: UP-Scalable process for the deposition of pedot thin films
- 09.40-10.00 **Invited Lecture: Chenxu Wu, Xiamen University, China** - Static and dynamic properties of polymer brush with topological structures
- 10.00-10.10 **Oral: Tatsuya Koumoto, Saga, Japan** - Production method of high compressive strength geopolymers by taking into account the chemical components of fly ash or ground slag
- 10.10-10.20 **Oral: Kunli Xiong, Chalmers University of Technology, Sweden** - Plasmonic metasurfaces with conjugated polymers for electronic paper in color
- 10.20-10.30 **Oral: Giuseppe Montella, Naval Research Laboratory, USA** - Exfoliation of clay particles in polymer nanocomposites through melt extrusion

Session V

Venue: B31-32, Conference Center, Deck-8

Constructional, Structural and Engineering Materials

- Chair:** **Co-Chair:**
- 09.00-09.10 **IAAM Scientists Medal Lecture: Elena Brandaleze, National Technological University, Argentina** - Correlation between structural aspects and mechanical properties of an Interstitial Free steel for automotive application
- 09.10-09.20 **Oral: Josephin Enz, Helmholtz-Zentrum Geesthacht, Germany** - Characterisation of laser additive manufactured magnesium components
- 09.20-09.30 **Oral: Ioan Iorga, IFIN-HH, Romania** - VVR-S research reactor block concrete analysis in preparation for the decommissioning
- 09.30-09.40 **Oral: Zhang Min, Xi'an University of Technology, China** - Effect of heat treatment process on microstructure and properties of explosive welding clad plate of TA1/Q345
- 09.40-09.50 **Oral: Mohammadreza Kolahdouz, University of Tehran, Iran** - A multi-switch fabrication based on dielectrophoresis using Ni nanoparticles
- 09.50-10.00 **Oral: Morad Benjabrou, Mohammed V University, Morocco** - Evaluation of the tsunamic vulnerability of an existing structure in metallic framework by combining of the time history method and capacity curves analysis with interpretation of the results according to Risk UE
- 10.00-10.10 **Oral: Adnan Zaid, University of Applied Sciences, Algeria** - Effect of hafnium addition to zinc aluminum alloy 5, ZA5, on its resistance to wear: A three-dimensional approach
- 10.10-10.20 **Oral: Sergey Shkarovskiy, CERN, Russia** - The straw tubes for NA62 tracker: Production, assembly and operation in vacuum
- 10.20-10.30 **Oral: Elhadj Benachour, University of Bechar, Algeria** - New optimization method for advanced materials design of walls in buildings

Session VI

Venue: S22-23, Conference Center, Deck-8

World Technology Forum

Chair:

Co-Chair:

- 09.00-09.10 **Oral: Josef Habdank, Graphenalloj, Denmark** - Graphene quantum tunnelling composites (GQTC) produced by new electro- and mechanochemical method
- 09.10-09.20 **Oral: Chuantong Cheng, Chinese Academy of Science, China** - A multi-mode frequency multiplier based on dual-gated GFETs
- 09.20-09.30 **Oral: Henrik Funke, TU Chemnitz, Germany** - Carbon-reinforced concrete for high performance lightweight noise barriers
- 09.30-09.40 **Oral: Jian Wang, Chinese Academy of Science, China** - Support effect of ruthenium catalysts for the catalytic oxidation of VOCs
- 09.40-09.50 **Oral: Evgeniy Zaitcev, Almaty University of Power Engineering & Telecommunications, Kazakhstan** - The research of openflow protocol for reliable management of integrated networks of complex of earth-moving and construction machines
- 09.50-10.00 **Oral: Nasrullah Shah, Abdul Wali Khan University Mardan, Pakistan** - Fabrication of biocompatible nanocomposite consisted of zinc oxide nanoparticles based poly(acrylonitrile-co-acrylic acid)
- 10.00-10.10 **Oral: Ana Proykova, Sofia University, Bulgaria** - Magnetism of bilayer graphene with vacancies

10.30-10.45 Coffee Break at Conference Center, Deck-8

10.45-12.30 Plenary Session, Venue: Club Mar, Deck 7

Chair(s): **Zhong Lin Wang**, Georgia Institute of Technology, USA and **Nils Mårtensson**, Uppsala University, Sweden

10.45-11.30 **Plenary Lecture: Zhong Lin Wang, Georgia Institute of Technology, USA** - From Maxwell's displacement current to nanogenerator driven self-powered systems and blue energy

11.30-11.45 **Keynote Lecture: Ashutosh Tiwari, Institute of Advanced Materials, Sweden** - Smart 2D bioelectronics

11.45-12.30 **Plenary Lecture: Nils Mårtensson, Uppsala University, Sweden** - The nobel prize

12.00-13.30 Lunch at Viking Buffet, Deck 7

13.30-15.00 Parallel Sessions 1-2-3-4-5, Venue: Club Mar, Deck 7 and Conference Centre, Deck 8

Session I

Venue: Club Mar, Deck 7

Nanogenerators and Piezotronics: Advanced Biosystems

Chair:

Co-Chair:

- 13.30-14.00 **IAAM Scientists Medal Lecture: Youfan Hu, Peking University, China** - Machine-washable textile triboelectric nanogenerator for human respiratory monitoring
- 14.00-14.20 **Invited Lecture: Xudong Wang, University of Wisconsin-Madison, USA** - Materials engineering for the development of flexible implantable nanogenerators
- 14.20-14.40 **Invited Lecture: Zhou Li, Beijing Institute of Nanoenergy and Nanosystem, China** - Towards the self-powered medical devices
- 14.40-14.50 **Oral: Hongjoon Yoon, SungKyunkwan University, South Korea** - Ultrasound driven triboelectric nanogenerator for powering implantable devices
- 14.50-15.00 **Oral: Qijun Sun, Beijing Institute of Nanoenergy and Nanosystem, China** - Multifunctional microsensational system based on graphene electronics

Session II

Venue: Auditorium A, Conference Center, Deck-8

Environmental and Green Materials

Chair:

Co-Chair:

- 13.30-13.40 **IAAM Scientists Medal Lecture: Jasim Salman, Al-Nisour University College, Iraq** - Fixed-bed columns for removal of pollutants and excess of free chlorine from drinking water
- 13.40-13.50 **IAAM Scientists Medal Lecture: Omar Chaalal, Abu Dhabi University, UAE** - Green water flooding of fractured and heterogeneous oil reservoirs at high salinity and high temperature
- 13.50-14.00 **Oral: Valentin Thoury, University of Montpellier, France** - Estimation of water vapour diffusivity in micro-size cellulose particles
- 14.00-14.10 **Oral: Xuezhong He, Norwegian University of Science and Technology, Norway** - Molecule-tailored carbon membranes for CO₂/CH₄ separation
- 14.10-14.20 **Oral: Yi-Sheng Lai, National Cheng Kung University, Taiwan** - Water splitting solar cells with low diffusion resistance by methyl violet halochromic pigments
- 14.20-14.30 **Oral: Alejandro Zuleta Gil, Universidad Pontificia Bolivariana, Colombia** - Coating development during electroless plating and formation of Ni-P-nanoceramic coatings on magnesium
- 14.30-14.40 **Oral: Mohammadreza Kolahdouz, University of Tehran, Iran** - Simple and cost-effective lab on a phone device for measuring the mercury concentration in water
- 14.40-14.50 **Oral: Natalia Lopez-Barbosa, Universidad de los Andes, Colombia** - Polymeric number average molecular weight in submicron films as a tool for the manipulation of water phenomena in translucent coatings
- 14.50-15.00 **Oral: Amirhossein Pakseresht, Materials and Energy Research Center, Iran** - The effect of substrate temperature on the micro-structure of sprayed coating

Session III

Venue: Auditorium B, Conference Center, Deck-8

Global Graphene Forum: Graphene Applications

Chair:

Co-Chair:

- 13.30-13.50 **IAAM Medal Lecture: Yaping Zhao, Jiao Tong University, China** - Graphene/silver nanowire/graphene sandwich-structured film with flexible and conductive
- 13.50-14.10 **IAAM Medal Lecture: Kyung-Suk Kim, Brown University, USA** - Flexo-electric crinkles of multilayer graphene

- 14.10-14.20 **IAAM Scientists Medal Lecture: Agnieszka Iwan, Military Institute of Engineer Technology, Poland** - Graphene oxide as an effective additive material for organic solar cells
- 14.20-14.30 **IAAM Scientists Medal Lecture: Adam Januszko, Military Institute of Engineer Technology, Poland** - A graphene based flexible, thermo-electrochromic sensitive sensor for military and civil monitoring
- 14.30-14.40 **Oral: Xianhui Wang, Xi'an University of Technology, China** - Microstructure and properties of silver matrix composites reinforced with few-layer graphene
- 14.40-14.50 **Oral: Xurui Mao, Chinese Academy of Sciences, China** - Concept of graphene FET monolithic integrated with silicon-based photoelectronics
- 14.50-15.00 **Oral: Toma Susi, University of Vienna, Austria** - Isotope analysis in the transmission electron microscope

Session IV

Venue: B51-52, Conference Center, Deck-8

Optical, Electronic and Magnetic Materials

- Chair:** **Co-Chair:**
- 13.30-13.50 **IAAM Medal Lecture: Eduardo Pena Cabrera, University of Guanajuato, Mexico** - Applications of the orthogonal reactivity and multicomponent reactions in the synthesis of complex BODIPY derivatives
- 13.50-14.10 **Invited Lecture: Jwo Jou, National Tsing Hua University, Taiwan** - Blue hazard free, candlelight organic light-emitting diode
- 14.10-14.20 **Oral: Dong Shen, East China University of Science and Technology, China** - Wide Temperature Range Blue Phase Induced by Bent-core Molecules
- 14.20-14.30 **Oral: Masayuki Nogami, Toyota Physical and Chemical Research Institute, Japan** - Glasses for reducing Eu³⁺ ions by reaction with H₂ gas and their fluorescence properties
- 14.30-14.40 **Oral: W Chang, National Chung Cheng University, Taiwan** - Improvement of intrinsic coercivity of hot deformed NdFeB magnets by doping Tb₈₀Ga₂₀ alloy
- 14.40-14.50 **Oral: Budhy Kurniawan, University of Indonesia, Indonesia** - The Structural, morphological and Magnetic Properties of La_{0.8}Ca_{0.1}Ag_{0.1}MnO₃ Synthesized by Sol-Gel Method
- 14.50-15.00 **Oral: Guven Turgut, Erzurum Technical University, Turkey** - The first synthesis of Sc-loaded CdO with sol-gel spin coating

Session V

Venue: B31-32, Conference Center, Deck-8

Advanced Materials Innovations in the Baltic Sea Region

- Chair:** **Co-Chair:**
- 13.30-13.50 **IAAM Medal Lecture: Paddy French, TU Delft, Netherlands** - Coatings for sensing and protection in silicon sensors
- 13.50-14.10 **Invited Lecture: Federico Cesano, University of Turin, Italy** - Advanced materials for innovative wastewater remediation and sustainable printed electronics: A few case studies
- 14.10-14.30 **Invited Lecture: Shinji Takeoka, Waseda University, Japan** - Luminescent nanosheets for ratiometric temperature mapping
- 14.30-14.50 **Invited Lecture: Vladimir Levchenko, Lomonosov Moscow State University, Russia** - New generation of nanostructured carbon materials for tribological applications
- 14.50-15.00 **Oral: Boris Minaev, B. Khmel'nitsky National University in Cherkasy, Ukraine** - Tetraoxa[8]circulenes and hetero[8]circulenes expedient synthesis for OLED: Excited state engineering of these conjugated organic materials by the oxygen and chain-group substitution
- 15.15-15.30 Closing Ceremony at Club Mar, Deck-7**
- 16.00-18.00 Sightseeing in Stockholm**
 Stockholm City Hall
 The Royal Palace, Östermalm
 Gamla Stan (Old Town)
 Långholmen and The Royal Djurgården
 Stockholm's islands and waters, Fjällgatan
 Stockholm is world famous for being stunningly picturesque and sits on 14 islands. It is surrounded by water and presents parkland, forest and beautiful views. During this tour you will get to know Stockholm and history of the city.

18.00 Commencement of tour at central train station, Stockholm

Poster Presentation

Day - 1: Tuesday, 22 August 2017, M/S Mariella, Viking Line, Sweden

Poster Evaluation Jury:

12.00-13.30 All Posters Setup at Conference Center, Deck-8

Poster Session - Advanced Materials Innovations, Biomaterials and Biodevices, Nanogenerators and Piezotronics, Global Graphene Forum, Computational Materials, Technology Forum, Thin Film & Coating Materials Technology, Optical, Electronic and Magnetic Materials, Biosensor and Bioelectronics, Energy and Harvesting Materials, Sensors & Actuators, Nanomaterials and Nanotechnology, Science and Technology of Polymers, Composite and Ceramic Materials, Medical and Clinical, Microfluidics And Nanofluidics, Environmental and Green Materials and Constructional, Structural and Engineering Materials

- P-01 Babak Hassanzadeh Rad, Karaj Islamic Azad University, Iran** - Orbital metastasis from breast cancer without significant changes in CT scan and MRI
- P-02 Elena Brandaleze, National Technological University, Argentina** - High deformation effects on the plasticity of ultra high carbon steel wires
- P-03 Gabriela Hernandez, Universidad Autonoma Metropolitana, Mexico** - Synthesis, characterization and evaluation of Cu/SSZ-13 catalyst for ammonia selective catalytic reduction (NH₃-SCR)
- P-04 Javaneh Atghi, Karaj Islamic Azad University, Iran** - Analysis of dentists attitudes toward carotid artery calcification diagnosis in panoramic radiograph in 2016
- P-05 Jose Miguel Hernandez, BUAP, Mexico** - Nanoporosity of hierarchical materials: MOR, HEU and ERI zeolites
- P-06 Kairat Kuterbekov, L.N.Gumilyov Eurasian National University, Kazakhstan** - Investigations of the influence of the change in the mass fractions of fuel and oxidizer on the efficiency of the hard polymer Fuel cell
- P-07 Mariano Aceves-Mijares, INAOE, Mexico** - Waveguide-detector system on silicon for sensor application

- P-08 **Maxym Vorobyov, Riga Technical University, Latvia** - Actuator device based on neodymium permanent magnets printed with 3d printer
- P-09 **Montserrat Silva Ichante, CIDETEQU, Mexico** - Electrodeposition, characterization, and antibacterial activity of zinc/silver particle composite coatings
- P-10 **Nazik Elgindy, Alexandria University, Egypt** - Spray dried rifampicin nanocomposites as a promising technology for TB therapy
- P-11 **Sergio Islas-Andrade, General Hospital of Mexico, Mexico** - Prevalence of prediabetes in Mexico
- P-12 **Seyyede Zeinab Azimi, Guilan University of Medical Sciences, Iran** - A 36-year old renal transplant recipient female with leg ulcer: A case report
- P-13 **Vladimir Parfenyuk, Russian Academy of Sciences, Russia** - Poly-porphyrin electrocatalytic films obtained via superoxide-assisted electrochemical deposition
- P-14 **Vladimir Parfenyuk, Russian Academy of Sciences, Russia** - Surface properties of titanium alloy VT 6 after plasma electrolytic treatment
- P-15 **Vladislavs Jasinskis, Riga Stradins University, Latvia** - A systematic review on the use of immune system involvement in bone reconstitution using hydroxyapatite (HAp)
- P-16 **Adnan Zaid, University of Applied Sciences, Algeria** - Superplastic blow forming of MgAZ₂
- P-17 **Alejandro Zuleta Gil, Universidad Pontificia Bolivariana, Colombia** - A material selection software for thermoplastic materials with sustainable criteria
- P-18 **Alfredo Ongaro, Heriot Watt University, UK** - Experimental investigations of CO₂ laser cut quality in poly(lactic acid) for microfluidic rapid-prototyping of sustainable devices
- P-19 **Baozhong Sun, Donghua University, China** - Thermal expansion behaviors of carbon fiber/epoxy plain woven composites
- P-20 **Berenika Hausnerova, Tomas Bata University in Zlín, Czech Republic** - Performance of gas and water atomized powders in powder injection moulding
- P-21 **Caili Yu, Guilin University of Technology, China** - Preparation of the monodispersed carboxylated polymer microspheres with disproportionated rosin moiety and adsorption of methylene blue
- P-22 **Chang Kim, Kyung Hee University, South Korea** - Numerical analysis of the TEG (thermo-electric generator) performance with contact resistances
- P-23 **Charles Mangeot, Noliac A/S, Denmark** - Performance envelope of piezoelectric actuators at high temperature
- P-24 **Chun Wei, Guilin University of Technology, China** - Preparation and electrochemical performances of cellulose nanofiber/graphene nanosheet/polyaniline composite film via in-situ polymerization
- P-25 **Diana Meza Rojas, Autonomous University of Madrid, Spain** - Novel hole transporting materials based on tetrathienylbenzene core unit for high efficiency perovskite solar cells
- P-26 **Djoko Gabriel, Universitas Indonesia, Indonesia** - Customer acceptance evaluation of design for material value conservation using structural equation Modelling: A Case Study of Plastic Packaging
- P-27 **Dominika Czycz, Wrocław University of Technology, Poland** - Properties of thermoplastics filled with powder of igneous rock Gabbro
- P-28 **Eduardo Brocchi, Pontifical Catholic University of Rio de Janeiro, Brazil** - Production, by chlorination, and characterization of titanium dioxide
- P-29 **Elena Miliutina, University of Chemistry and Technology, Czech Republic** - The development of highly sensitive sensors based on the plasmon-active optical fiber with the introduction of the principles of smart plasmonics
- P-30 **Gregoire David, University of Montpellier, France** - Eco-conversion of lignocellulosic materials in PHBV-biocomposites
- P-31 **Güven Turgut, Erzurum Technical University, Turkey** - Ta-contribution influence on properties of tin oxide
- P-32 **Güven Turgut, Erzurum Technical University, Turkey** - The effect of Y-contribution on properties of ZnO; a heterodiode application
- P-33 **Hongda Chen, Chinese Academy of Sciences, China** - Optoelectronic devices based 2D materials
- P-34 **Ikuko Nishio, Tottori University, Japan** - Treatment satisfaction using insulin pump (CGM/SAP) among Japanese adult patients with type 1 diabetes: A large-scale study
- P-35 **Ikuko Nishio, Tottori University, Japan** - Perceptions of psychosocial factors among insulin pump (CGM/SAP) users with type 1 diabetes in Japan
- P-36 **Ioan Iorga, IFIN-HH, Romania** - Radioactive inventory migration study for the VVR-S Research Reactor decommissioning project
- P-37 **Ivania Markova, University of Chemical Technology and Metallurgy-Sofia, Bulgaria** - Nanomaterials based on intermetallic Co-Ni magnetic nanoparticles for biomedical applications
- P-38 **Jan Trejbal, Czech Technical University in Prague, Czech Republic** - Study on time-depend surface properties of plasma treated polymer micro-fibers
- P-39 **Jeferson Moreto, Federal University of Triangulo Mineiro, Brazil** - Study behavior of Ca-ALG microparticles containing sulfentrazone herbicide based delivery systems for the weed control
- P-40 **Jeferson Moreto, Federal University of Triangulo Mineiro, Brazil** - Fluorescent carbon dots nanoparticles derived from natural material of "acerola" fruit for sensitive Fe (III) ions detection
- P-41 **Dongseob Kim, Korea Institute of Industrial Technology, South Korea** - Triboelectric nanogenerators for mutiaxial kinetic energy harvesting
- P-42 **Josimar Ribeiro, UFES, Brazil** - Development of quaternary PtSnNiGa/C electrocatalysts for ethanol oxidation
- P-43 **Julien Babić, CNRS, France** - A new microfluidic device for live-cell imaging experiments
- P-44 **Kyujung Kim, Pusan National University, South Korea** - A plasmon coupled whispering gallery modes biosensor for sensitivity enhancements
- P-45 **Liqian Huang, Donghua University, China** - Numerical simulation of airflow and fiber motion in air-jet texturing nozzle

- P-46 **Markus Selin, University of Helsinki, Finland** - Screening of interactions between Janus dendrimer coatings and drug nanocrystals
- P-47 **Meng-Hsuan Yang, National Chung Hsing University, Taiwan** - Construction of novel fluorescence nanoparticles AIE@dots and the tunable emission progress with regulating the AIE and TICT effect
- P-48 **Min Wu, Chinese Academy of Sciences, China** - Influence of solvent polarity on cellulose nanostructures
- P-49 **Mirjana Rodosek, National Institute of Chemistry, Slovenia** - Effect of siloxane-modified epoxy resin on anticorrosion properties of coatings
- P-50 **Oleksiy Lyutokov, University of Chemistry and Technology, Czech Republic** - Flexible and biodegradable electronics on the base of laser beam written arbitrary conductive path in thin polymer films
- P-51 **Olga Guselnikova, University of Chemistry and Technology, Czech Republic** - Surface-modified gold plasmonic grating as platform for smart SERS sensors
- P-52 **Pavol Hvizdos, Slovak Academy of Sciences, Slovakia** - Development of electrically conductive SiC based composites with carbon/carbide additives
- P-53 **Praveen Kumar S, Saveetha Engineering College, India** - Porous based immunosensor for detection of LDL molecules from blood serum using array of cantilever beam
- P-54 **Praveen Kumar S, Saveetha Engineering College, India** - Bacterial nanonetwork optimization using wireless adhoc sensors
- P-55 **Puhong Zhang, Peking University Health Science Center, China** - Predictors of initiating basal-bolus regimen in type 2 diabetes patients with uncontrolled hyperglycemia by oral antidiabetic drugs in China
- P-56 **Puhong Zhang, Peking University Health Science Center, China** - The lifestyle change after initiating basal insulin in insulin naive patients with type 2 diabetes: Results from the ORBIT study
- P-57 **Qian Zhang, Donghua University, China** - Assessing the phase behavior, crystallization and mechanical properties of fully biodegradable poly(3-hydroxybutyrate-co-hydroxyvalerate) (PHBV) /poly(butylene succinate) (PBS) blends
- P-58 **Qijun Sun, Beijing Institute of Nanoenergy and Nanosystem, China** - Positively-charged reduced graphene oxide as an adhesion promoter for highly-stable silver nanowire film
- P-59 **Qijun Sun, Beijing Institute of Nanoenergy and Nanosystem, China** - Transparent, low-power pressure sensor matrix based on coplanar-gate graphene transistors
- P-60 **Qunying Wu, Guilin University of Technology, China** - Optimization for sound absorption performance of porous materials based on variance analysis
- P-61 **Ralph Tatam, Cranfield University, UK** - Multi-plane optical coherence tomography imaging for micro-fluidic velocity measurement
- P-62 **Rohidas Arote, Seoul National University, South Korea** - Selective stimulation of caveolae-mediated endocytosis and hepatocyte targeting by hyperosmotic poly(lactitol)-based gene transporter
- P-63 **Rosalía Poyato, University of Seville, Spain** - Influence of graphene nanoplatelets orientation in a ceramic matrix on its scratch behavior
- P-64 **Sang-Woo Kim, Hankyong National University, South Korea** - Fabrication of a nickel-coated optical fiber sensor and its applications
- P-65 **Santanu Das, IIT BHU, India** - Two dimensional functional nanomaterials for electronic and energy devices
- P-66 **Sheng-Lung Tu, National Cheng Kung University, Taiwan** - Optoelectronic characteristic of Al doping on GZO thin film
- P-67 **Soon-Ki Kwon, Gyeongsang National University, South Korea** - Small molecule organic solar cells high efficiency toward processing additive- and thermal annealing-free
- P-68 **Stefan Andersson, SINTEF Materials and Chemistry, Norway** - Fabrication and characterization of ilmenite particles for chemical looping
- P-69 **Stephan Armanov, Bulgarian Academy of Sciences, Bulgaria** - Selective metallization of laser irradiated biocompatible poly(dimethylsiloxane) by electroless deposition for future MEMS and medical applications
- P-70 **Tomasz Blaszczyk, Technical University of Denmark, Denmark** - Novel construction of airflow sensor with energy harvesting properties
- P-71 **Valentina Marchuk, University of Chemistry and Technology, Czech Republic** - Advanced colloidal lithography for spatially-selective surface modification - an significant expansion of self-assembling structures application
- P-72 **Vasilli Burtsev, University of Chemistry and Technology, Czech Republic** - Smart plasmonics based on graphene and precious metals for the next generation of optical modulators
- P-73 **Wei-Chao Chen, National Taiwan University, Taiwan** - Enhanced solar cell performance of $\text{Cu}_2\text{ZnSn}(\text{S},\text{Se})_4$ thin films through structural control by using multi-metallic stacked nanolayers and fast ramping process for sulfo-selenization
- P-74 **Xinhou Wang, Donghua University, China** - Elastomeric and biodegradable Poly (1, 8-octanediol-co-citric acid)/Poly(lactic acid) nano-fibrous materials
- P-75 **Xue Wang, Chongqing University, China** - Embedding variable micro-capacitors in polydimethylsiloxane for enhancing output power of triboelectric nanogenerator
- P-76 **Yeon-Tae Yu, Chonbuk National University, South Korea** - Synthesis of PdO/ZnO core-shell nanoparticles and its gas sensing mechanism
- P-77 **Yi-Hsuan Chen, National Chung Hsing University, Taiwan** - Fabrication of double emission enhancement fluorescence nanoparticle with combining the ICT and AIE effect
- P-78 **Yi-Liang Liou, National Chung Hsing University, Taiwan** - Development of a cell death biomarker based on nuclear translocation during photosensitization
- P-79 **Yuan Li, Beijing Institute of Technology, China** - Generalized predictive control for DEAP flexible bionic actuator with fuzzy model
- P-80 **Yuji Miyahara, Tokyo Medical and Dental University, Japan** - Fabrication of needle type pH sensor for quantitative caries detection
- P-81 **Yukan Dai, Chonnam National University, South Korea** - A microcantilever combining cell contraction force measurement with impedance analysis
- P-82 **Yuki Hasegawa, Saitama University, Japan** - Development of ethylene gas sensor for evaluating fruit ripening
- P-83 **Yun-Hi Kim, Gyeongsang National University, South Korea** - Facile route to control the ambipolar transport in semiconducting materials

- P-84** Zdenek Prosek, Czech Technical University in Prague, Czech Republic - Interfacial shear strength enhancement of polymeric macro-fibers via plasma treatment
- P-85** Zeynep Altintas, Cranfield University, Germany - A fully automated microfluidic-based electrochemical sensor for real-time pathogen detection
- P-86** Zhicai He, South China University of Technology, China - Study on the effect of additives on morphology of active layer in organic solar cells
- P-87** Brigitte Bouchet-Fabre, NIMBE/CEA-CNRS, France - Magnetron-sputtered Ta₃N₅ thin films for water photoelectrolysis
- P-88** Zheng Zhang, University of Science and Technology Beijing, China - Strain modulation in 2D materials based optoelectronics for their performance enhancement
- P-89** Qingliang Liao, University of Science and Technology Beijing, China - Self-recovering triboelectric nanogenerator as active multifunctional sensors
- P-90** Alba Ardila, Politecnico Colombiano Jaime Isaza Cadavid, Colombia - Nature and distribution of Cu and Pd surface species on Cu-Pd/TiO₂-Na bimetallic catalysts
- P-91** Alba Ardila, Politecnico Colombiano Jaime Isaza Cadavid, Colombia - Pt-WO_x/ZrO₂ catalyst: W content Vs type of WO_x species
- P-92** Pavel Grinchuk, A.V. Luikov Heat and Mass Transfer Institute, Belarus - Pyrolysis of various carbon precursors inside of porous silicon carbide matrix for reaction-sintered SiC substrates
- P-93** Javid Butt, Anglia Ruskin University, UK - Production of layered metallic parts with enhanced tensile properties using the process of composite metal foil manufacturing
- P-94** Wenqing Xu, Chinese Academy of Sciences, China - Catalytic oxidation of Hg⁰ from coal-fired flue gas over Mn modified montmorillonite
- P-95** Tingyu Zhu, Chinese Academy of Sciences, China - Catalytic method and catalysts for the abatement of industrial VOCs
- P-96** Boulahia Ramdane, USTHB, Algeria - New insights on the plastic deformation in multi-pass equal channel angular extrusion of semi-crystalline polymers
- P-97** Boulahia Ramdane, USTHB, Algeria - Evolution of the microstructure and mechanical properties of propylene treated by the multipasses ECAE process

19.30-19.45 Meeting of Poster Jury

Thank you for your participation!!
Look forward to seeing you at the EAMC 2018!!