



Scientific Program

Advanced Materials

World Congress

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Venue : Baltic Sea
(Stockholm-Helsinki-Stockholm)

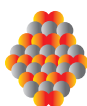
on

Viking Line Cruise, Stockholm, Sweden
23-26 August 2015

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IAAM
International Association of Advanced Materials



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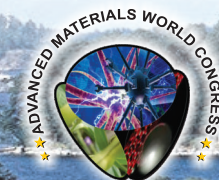
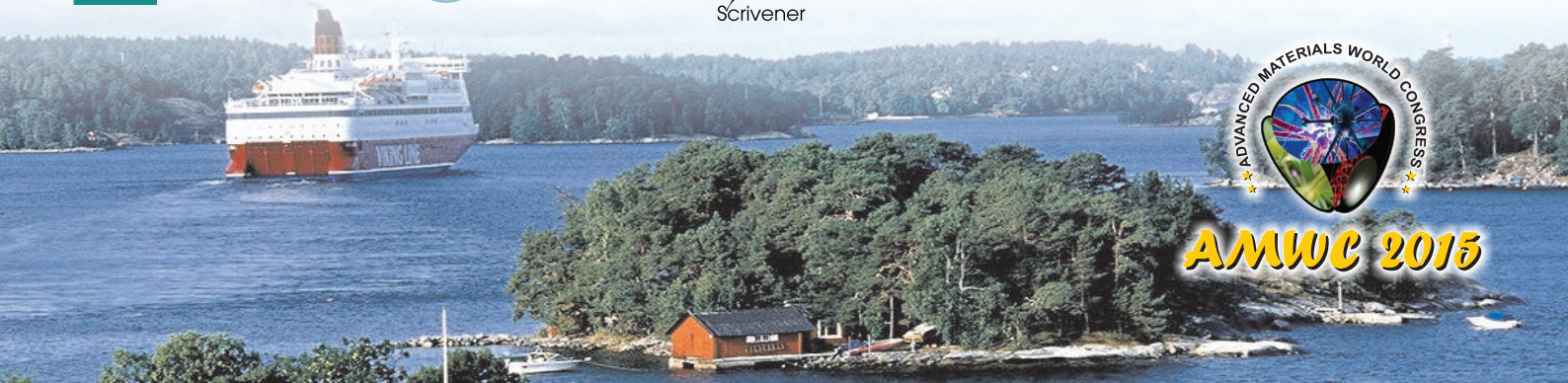


Scrivener

simpleware



Tekidag
Intelligent technology



AMWC 2015

Important Information

1. **The program will be running as per Swedish time**
2. **Drop your luggage** in Music Meister behind the inauguration hall (Deck 7). You will get cabin access after lunch (check-in time of cabin: 13:30 – 14:00) on 23rd August.
3. **Notepad and pen** will be provided in each session during the congress.
4. Please collect **the bag and conference materials** from AMWC office after opening ceremony (Time: 12:00 - 13:45) at conference deck 8.
5. **If you need receipt of your payment, presentation and participation certificate**, please ask AMWC office on 23rd before 20:30.
6. If you have booked for **congress gala dinner** and the **trip to Helsinki and Stockholm**, please collect your tickets from AMWC office on 23rd August before 20:30.
7. Please **download AMWC detailed program, abstract and proceedings** from our website - www.vbripress.com/amwc/pages/page/program
“Save environment and Green practices” **We appreciate to use digital copy!!** However, if you need print (hard copy) you can manage by yourself before the congress. Congress organizers will not provide any hard copy.
8. Poster pins will be available at **poster help desk besides preparation room, conference deck 8**. If you need any assistance to hang your poster on poster board, you can ask AMWC staff at poster help desk.
9. **The copy of presentation (power point or PDF)** will be uploaded to computer intranet of **Preparation Room at conference deck 8**. Please provide/upload your presentations on following schedule:
 - **23rd August** (after-noon sessions) **during 12.00-13.30.**
 - **24th August** any time before **8.30 morning.**
 - **25th August** any time before **8.30 morning.**
10. The **children’s club** will be accessible for your kids.
11. **Accompanying persons can enjoy health club, tax-free shopping, etc.** on board.
12. **We have also exclusive cultural activities during 23rd and 24th August until 02.00 both days in the fun club at deck 7.**

23rd August, Sunday (Day - 1)

09.00-10.30 Check-in and Registration at Viking Line Terminal, Stadsgården, 116 30 Stockholm, Sweden
10.30-11.00 Boarding at M/S Mariella Viking Cruise and Drop Luggage in Fun club
11.00-12.00 **Main Session, Venue: Seaside Auditorium, Deck 7**
Chair(s): Hisatoshi Kobayashi, Japan and Ashutosh Tiwari, Sweden
11.00-11.15 Welcome Ceremony and Felicitation
11.15-12.00 **AMWC Opening Lecture: Anthony P.F. Turner, Sweden** - Print on paper – still advanced material
Lunch to the restaurant “Buffet”, Deck 7
12.00-13.30 Poster Setup, Conference Centre, Deck 8
13.30-14.00 Cabin access
14.00-16.30 **Parallel Sessions 1-2-3-4-5, Venue: Conference Centre, Deck 8**

Session I	Session II	Session III	Session IV	Session V
Venue: Auditorium Marina A	Venue: Auditorium Marina B	Venue: Seaside Auditorium A	Venue: Seaside Auditorium B	Venue: Seaside Auditorium C
Nanomaterials and Nanotechnology	Biomaterials and Biodevices	Smart Energy Technologies	Computational Materials	Biosensors and Bioelectronics
Chair: Ingemar Lundstrom, Sweden Co-chair: Xuemei Wang, China 14.00-14.30 - IAAM Medal Lecture: Jeong-Woo Choi, Korea - Bioprocessing device based on metalloproteins/DNA/nanoparticle hybrid material 14.30-14.50 - Invited Lecture: Mohammad Alenezi, Kuwait - Enhancing photocatalytic properties of nanostructures by controlling their exposed facets 14.50-15.10 - Invited Lecture: Jannie Swarts, South Africa - Silver and platinum catalysts for oxidation hydrogenation and aromatisation: From two dimensional models on silicon wafers to three-dimensional zeolite-supported systems 15.10-15.30 - Invited Lecture: Filiz Kuralay, Turkey - Stimuli responsive surfaces for biomedical applications 15.30-15.45 - Oral: Abdullah Khalil, UAE - Electrospun copper oxide nanostructures: Synthesis and applications 15.45-16.00 - Oral: Sofia Iconomopoulou, Greece - Carbon nanotube based textiles for high risk professions 16.00-16.15 - Oral: Ruslan Mariychuk, Slovakia - Synthesis of silver and gold nanoparticles by using of extracts of selected medicinal plants 16.15-16.30 - Oral: Sudhir Chandra, India - Synthesis of nanostructured tungsten oxide by thermal oxidation method and its integration in sensor for VOCs detection	Chair: Kazunori Kataoka, Japan Co-chair: Ivo Safarik, Czech Republic 14.00-14.30 - Keynote Lecture: Hisatoshi Kobayashi, Japan - New material concept for corneal stromal regeneration 14.30-14.50 - Invited Lecture: Bora Garipcan, Turkey - The effect of Imoc-Amino acid modification of reduced graphene oxide/Ti surfaces on osteoblast functions 14.50-15.10 - Invited Lecture: Ales Iglic, Slovenia - Electrostatic interactions of proteins and cells with titanium dioxide nanostructures 15.10-15.30 - Invited Lecture: Suryyani Deb, Sweden - Smart nano-theranostics for arterial thrombosis 15.30-15.45 - Oral: Ewa Kijea aezska, Poland - Nano-engineered co-electrospun fibrous matrices as a model of bio-active molecules releasing scaffolds for bone tissue engineering 15.45-16.00 - Oral: Halil Aydin, Turkey - PU/TCP bone adhesives and substitutes for load bearing applications 16.00-16.15 - Oral: Tomoko Hashimoto, Japan - Immobilization of antibacterial peptides to silk fibrin-based biomaterials 16.15-16.30 - Oral: Memed Duman, Turkey - Characterization of modified gold nanoparticles for competitive affinity chromatography method	Chair: Li-Chyong Chen, Taiwan Co-chair: Andrii Rybalochka, Ukraine 14.00-14.30 - IAAM Medal Lecture: Bingqing Wei, USA - Carbon nanostructures for energy storage applications 14.30-14.50 - IAAM Scientist Award Lecture: Chee Wee Liu, Taiwan - High mobility Ge channel transistors 14.50-15.10 - Invited Lecture: Mikael Syväjärvi, Sweden - Silicon carbide as platform for energy applications 15.10-15.30 - Invited Lecture: Koushik Biswas, India - Doped LaGaO ₃ as electrolyte for SOFC 15.30-15.45 - Oral: R. Vasant Kumar, UK - High energy density lithium batteries using 3-D carbon scaffolds 15.45-16.00 - Oral: Erkan Aydin, Turkey - Spray deposition of copper indium sulfide based thin film solar cells on flexible steel foil 16.00-16.15 - Oral: Z. Q. Ma, China - Ultra-thin inversion layer and quantum tunneling in silicon-based heterojunction solar cells 16.15-16.30 - Oral: Odireleng Ntwaeaborwa, South Africa - Synthesis and characterization of multicolour and white light emitting R ₂ SiO ₃ :Dy ³⁺ (R = La Gd Y) phosphors	Chair: Rajeev Ahuja, Sweden Co-chair: Poomani Penny Govender, South Africa 14.00-14.30 - IAAM Medal Lecture: Hans Ågren, Sweden - Modeling the optical, electronic and magnetic properties of molecules in heterogeneous environment 14.30-15.00 - IAAM Scientist Award Lecture: Maytal Caspary Toroker, Israel - Recent advances in modeling transition metal oxides for solar energy applications 15.00-15.30 - Keynote Lecture: Natarajan Murugan, Sweden - Computational health-care materials 15.30-16.00 - Keynote Lecture: Klaudio Bari, United Kingdom - CFD simulation to the performance composite impeller using star CCM+ software 16.00-16.15 - Oral: Tarun Kundu, India - First-principle study of the optical properties of pure and doped LaNO ₃ 16.15-16.30 - Oral: Chengyuan Wang, China - Modelling on the young's modulus of ZnO NWs	Chair: Anthony P. F. Turner, Sweden Co-chair: Jih-Jen Wu, Taiwan 14.00-14.30 - IAAM Scientist Award Lecture: Soon Gil Yoon, Korea - Zinc nanoparticles for antibacterial activity of smart-phone panels 14.30-15.00 - IAAM Scientist Award Lecture: Keon Jae Lee, Korea - Self powered flexible electronic systems 15.00-15.30 - Keynote Lecture: Onur Parlak, Sweden - Stimuli-encoded bioelectronic systems 15.30-15.45 - Oral: Volodymyr Chegel, Ukraine - Plasmonic nanochips for biosensors applications 15.45-16.00 - Oral: Nidhi Chauhan, India - Construction of an amperometric glycated hemoglobin biosensor based on Au-Pt bimetallic nanoparticles and poly(indole-5-carboxylic acid) modified Au electrode 16.00-16.15 - Oral: Hazim EL-Sharif, UK - On site detection of biologicals using MIP-based sensors 16.15-16.30 - Oral: Namrata Pal, India - Impedance-based immunosensor for rapid detection of bacterial cells

16.30-17.00 Coffee Break and Poster Session, Venue: Conference Centre, Deck 8

17.00-19.30 **Parallel Sessions 1-2-3-4-5, Venue: Conference Centre, Deck 8**

Session I	Session II	Session III	Session IV	Session V
Venue: Auditorium Marina A	Venue: Auditorium Marina B	Venue: Seaside Auditorium A	Venue: Seaside Auditorium B	Venue: Seaside Auditorium C
Nanomaterials and Nanotechnology	Biomaterials and Biodevices	Smart Energy Technologies	Optical, Electronic and Magnetic Materials	Advanced Hybrid Materials
Chair: Jeong-Woo Choi, Korea Co-chair: Sub Reddy, UK 17.00-17.30 - IAAM Scientist Award Lecture: Xixiang Zhang, Saudi Arabia - Magneto transport properties of three-dimensional flexible and conductive interconnected graphene networks 17.30-17.45 - Oral: Priyadarshini Thiyam, Sweden - Effect of anisotropy on CO ₂ and CH ₄ adsorption on atomically thin gold films 17.45-18.00 - Oral: Alice Tesarikova, Czech Republic - Selected properties of LDPE PP and surlyn/clay nanocomposites barrier films 18.00-18.15 - Oral: Byeong-Soo Bae, Korea - Metal nanowire embedded flexible transparent conducting composite film with robust performance stability 18.15-18.30 - Oral: Pravin More, India - Classification and study of near-surface region of active material for gas detection using X-ray photoelectron spectroscopy 18.30-18.45 - Oral: Shuqin Li, China - MWNTs/PVDF Nanocomposites with high dielectric properties 18.45-19.00 - Oral: Yuvraj Malghe, India - Synthesis of G/ZnO/CdS nano composite with enhanced visible light photo catalytic activity 19.00-19.15 - Oral: Anil Incel, Turkey - Fabrication of stress sensitive polymeric nanofibers and fibrous films 19.15-19.30 - Oral: Pankaj Tripathi, India - Dynamical behavior of quantum dots (QDs) dispersed in nematic liquid crystal	Chair: Hisatoshi Kobayashi, Japan Co-chair: Mehrdad Rafat, Sweden 17.00-17.30 - Keynote Lecture: Tetsuji Yamaoka, Japan - Small diameter acellular vascular grafts with 2mm inner diameter and 30cm length 17.30-18.00 - Keynote Lecture: HIRAK Patra, Sweden - Translational theranostics: Keys and regulators 18.00-18.15 - Oral: Xiaoli Liu, China - Hybrid carbon nanodots-Fe ₃ O ₄ nanoparticles as a triple fluorescent-CT-MRI probe 18.15-18.30 - Oral: Mehmet Corman, Turkey - Molecularly imprinted cryogel cartridges for specific filtration and rapid separation of interferon alpha 18.30-18.45 - Oral: Jennifer Deignan, Ireland - Wearable textile strain sensors for measurement of spinal flexion 18.45-19.00 - Oral: Yoshiaki Hirano, Japan - Design of hybrid materials with peptide-synthetic polymer-silica 19.00-19.15 - Oral: Vito Rizzi, Italy - Insertion of photoactive chlorophyll-a on chitosan based biofilms opening new horizon in antimicrobial food packaging 19.15-19.30 - Oral: Abbas Teimouri, Iran - Nano-composite of silk fibrin-chitosan/nano diopside for tissue engineering application: Fabrication and morphology	Chair: Bingqing Wei, USA Co-chair: Keon Jae Lee, Korea 17.00-17.30 - Keynote Lecture: Rajeev Ahuja, Sweden - Role of catalysts in hydrogen storage materials 17.30-17.50 - IAAM Medal Lecture: Jih-Jen Wu, Taiwan - Oxide nanoarchitectures for solar cells 17.50-18.10 - Invited Lecture: Subhash Kondawar, India - Ternary polymer nanocomposites: Novel electrodes for supercapacitors 18.10-18.30 - Invited Lecture: Andrii Rybalochka, Ukraine - Metrology of energy efficient lighting systems 18.30-18.45 - Oral: Sofie Haldrup, Denmark - High electrokinetic energy conversion efficiency in charged polymeric membranes 18.45-19.00 - Oral: Levent Semiz, Turkey - Hydrogen generation from chemical hydrides with fast kinetics 19.00-19.15 - Oral: Michitaka Ohtaki, Japan - Selective phonon scattering in ZnO-based bulk thermoelectric oxides 19.15-19.30 - Oral: Emre Kaan Can, Turkey - Photoelectrochemical properties of pyrolytically grown Indium Sulfide thin films	Chair: D. Kurt Gaskill, USA Co-chair: S. J. Dhole, India 17.00-17.30 - Keynote Lecture: Hendrik Swart, South Africa - Practical applications of phosphor materials 17.30-17.50 - Invited Lecture: Zidan Wang, Hong Kong - Topological metals and semimetals 17.50-18.10 - Invited Lecture: Sergiy Valyukh, Sweden - Liquid crystal diffractive optical elements 18.10-18.30 - Invited Lecture: Ivo Safarik, Czech Republic - Magnetically responsive biological materials and their applications 18.30-18.45 - Oral: Monika Wyszomirska, Australia - Electric discharge assisted mechanical milling (EDAMM) in complex oxides synthesis 18.45-19.00 - Oral: Jen-Sue Chen, Taiwan - Dual-polarity bipolar resistive switching characteristics of thermally oxidized copper thin films 19.00-19.15 - Oral: Abhijit Roy, India - Design of soft optofluidics devices using solid-fluid interfacial and bulk properties 19.15-19.30 - Oral: Yin-Gang Wang, China - Zero biased and resonant magnetoelectric effect in magnetostriuctive/piezoelectric multilayered composites	Chair: Li-Chyong Chen, Taiwan Co-chair: Yongmei Zheng, China 17.00-17.30 - Keynote Lecture: Yogendra Mishra, Germany - Fabrication of porous and flexible 3D ceramic nanonetworks by flame transport synthesis approach 17.30-17.45 - Oral: Pushpendra Tripathi, India - Thermal and optical properties of Ni doped ZNO nanoparticles 17.45-18.00 - Oral: Nuno Gama, Portugal - Acoustic and sound absorption properties of crude glycerol and coffee grounds derived polyurethane foams 18.00-18.15 - Oral: Aleksandrs Marinins, Sweden - Induced anisotropy of poly-3-hexylthiophene nanofibers 18.15-18.30 - Oral: Erdogan Ozgur, Sweden - Porous functional nanofilms for designing bioinspired sensor surfaces 18.30-18.45 - Oral: Jafarsadegh Moghaddas, Iran - Thermal conductivities of silica aerogel composite insulating material 18.45-19.00 - Oral: Tarek Bedair, Korea - Improvement of in-vivo restenosis inhibition of biodegradable coated drug-eluting stent through surface modification 19.00-19.15 - Oral: Nishant Kumar, India - Enhanced visible emission from nanocrystalline Nd doped ZnO thin films 19.15-19.30 - Oral: Seksak Asavavisithchai, Thailand - Structure and mechanical properties of different Al foam polymer interpenetrating phase composites

19.30-20.15 Poster Session, Venue: Conference Centre, Deck 8

20.15-21.30 Dinner to the restaurant “Buffet”, Deck 7

24th August, Monday (Day - 2)

06.30-08.00	Sea Breakfast, Deck 7			
08.00-08.30	Poster Setup, Venue: Conference Centre, Deck 8			
08.30-10.00	Main Session, Venue: Seaside Auditorium, Deck 7			
08.30-09.15	Felicitation and Award Ceremony by IAAM bearers - Hisatoshi Kobayashi and Ashutosh Tiwari			
09.15-10.00	Advanced Materials Award Lecture: Kazunori Kataoka, Japan - Supramolecular nanosystems from functionalized block copolymer for smart targeted therapy of intractable diseases			
	Chair: Anthony P. F. Turner, Sweden			
10.00-10.30	Coffee Break and Poster Session, Venue: Conference Centre, Deck 8			
10.30-12.00	Parallel Sessions 1-2-3-4, Venue: Conference Centre, Deck 8			
	Session I	Session II	Session III	Session IV
	Venue: Auditorium Marina A	Venue: Auditorium Marina B	Venue: Seaside Auditorium A	Venue: Seaside Auditorium B
	Nanomaterials and Nanotechnology	Biomaterials and Biodevices	Environment and Green Materials	European Graphene Forum
	Chair: Xixiang Zhang, Saudi Arabia Co-chair: Byeong-Soo Bae, Korea 10.30-10.50 - IAAM Scientist Award Lecture: Xuemei Wang, China - Ultrasensitive in vivo bio-imaging of cancers based on novel nanoscaled probes	Chair: Ales Iglic, Slovenia Co-chair: Bora Garipcan, Turkey 10.30-10.45 - IAAM Scientist Award Lecture: Yasushi Tamada, Japan - Changes of the outermost surface of silk fibroin films by ethanol treatments	Chair: Ingemar Lundstrom, Sweden Co-chair: Chee Wee Liu, Taiwan 10.30-10.45 - Oral: Sanhita ray, India - Green immobilization of graphene using biofilms	Chair: Ashutosh Tiwari, Sweden Co-chair: Jannie Swarts, South Africa 10.30-10.40: Opening remarks by EGF chairmans - Prof. Ashutosh Tiwari and Prof. Mikael Syväjärvi
	10.50-11.10 - Invited Lecture: Fulong Tian, Ireland - Surface enhanced raman scattering with gold nanostar as an early diagnostic tool for oral cancer	10.45-11.00 - Oral: Mehrdad Rafat, Sweden - Rational development of a bioengineered carbon nanotube-reinforced cardiac patch	10.45-11.00 - Oral: Dai Yaodong, China - Nuclear emergency wastewater treatment with prussian blue / carbon nanotube sponge absorbing material and performance	10.30-11.00 - Keynote Lecture: D. Kurt Gaskill, USA - Applications driven development of graphene for sensors
	11.10-11.30 - Invited Lecture: Haruhisa Kato, Japan - Characterization of secondary nanoparticle structure using pulsed field gradient nuclear magnetic resonance	11.00-11.15 - Oral: Laura Cordoba, Portugal - Hybrid bi-layered multifunctional coatings to control biodegradation of commercial Mg alloys	11.00-11.15 - Oral: Ana Marta-nez-Hernandez, Mexico - Membranes based on polyurethane and keratin materials obtained from chicken feathers to remove Cr (VI) of water	11.00-11.30 - Keynote: Aleksandr Lebedev, Russia - Epitaxial graphene grown on 6H-SiC (0001) substrate: size confinement effect
	11.30-11.45 - Oral: Ulviya Bunyatova, Turkey - Multifunctional PVA/ODA-MMT-poly (MA-alt-1-octadecene)-g-graphene oxide e-spun nanofiber semiconductors and their response to bone cancer cells	11.15-11.30 - Oral: Masaya Yamamoto, Japan - Design of a sugar-responsive sacrificial template to create cell scaffolds with vascularized channel structures	11.15-11.30 - Oral: Manoj Pandey, India - Copper and iron exchanged montmorillonite clay: A promising catalyst for benzoyloxylation of N N-Dimethylaniline	11.30-11.45 - Oral: Byeong-Ju Park, Korea - Wrinkle-free monolayer graphene transferred onto the Ti adhesion layer
	11.45-12.00 - Oral: Yongmei Zheng, China - Bioinspired multi-gradient surfaces with smart wettability for water collection/repellency	11.30-11.45 - Oral: Krishna Bisetty, South Africa - Construction of chymotrypsin and L-amino acid oxidase dual enzyme based biosensor for the detection of neotame	11.30-11.45 - Oral: Arenst Andreas Arie, Indonesia - Activated carbons from KOH activation of salacca peels as low cost potential adsorbents for dye removal	11.45-12.00 - Oral: Chong-yun Park, Korea - Fabrication and characterization of graphene transistor with gate dielectrics of h-BN/graphene/h-BN structure
		11.45-12.00 - Oral: Yuichi Ohya, Japan - Functionalization of biodegradable polymeric micelles by coating with polystyrene complex	11.45-12.00 - Oral: Parag Nimish, India - Photoluminescence study of novel LiLa (WO ₄) ₂ :Pr ³⁺ red emitting phosphor for eco-friendly LEDs	12.00-12.15 - Oral: Gao Feng Zeng, China - Sharp dehydration of alcohols over graphene oxide framework (GOF) hybrid membrane
12.00-13.20	Lunch to the restaurant "Buffet", Deck 7			
13.30-15.30	Sightseeing to Helsinki Parliament Building, Museum of Modern Art The stunningly designed Rock Church Olympic Stadium from the 1952 games Helsinki Lutheran and Uspenski Orthodox Cathedrals			
15.30-16.30	Coffee Break and Poster Session, Venue: Conference Centre, Deck 8			
16.30-19.30	Parallel Sessions 1-2-3-4, Venue: Conference Centre, Deck 8			
	Session I	Session II	Session III	Session IV
	Venue: Auditorium Marina A	Venue: Auditorium Marina B	Venue: Seaside Auditorium A	Venue: Seaside Auditorium B
	Nanomaterials and Nanotechnology	World Technology Forum	Structural, Constructional and Engineering Materials	European Graphene Forum
	Chair: Debes Bhattacharyya, New Zealand Co-chair: R. Vasant Kumar, UK 16.30-17.00 - Keynote Lecture: Li-Chyong Chen, Taiwan - Graphene oxides and their nano-hybrids with metals and metal sulfides for solar fuels and CO ₂ conversion	Chair: Anthony P. F. Turner, Sweden Co-chair: Jiuzhou Zhao, China 16.30-17.00 - Keynote Lecture: S. J. Dhole, India - Synthesis of power saving materials for near UV excited LED applications	Chair: Rosario Gerhardt, USA Co-chair: Koushik Biswas, India 16.30-17.00 - Keynote Lecture: Istvan Halasz, USA - Elucidating causes of hydrophobicity difference between siliceous Y zeolites	Chair: Seong-Chan Jun, Korea Co-chair: Mohammad Alenezi, Kuwait 16.30-16.55 - Graphene Award Lecture: Ashutosh Tiwari, Sweden - Smart graphene materials - tools for super-thin biotechnology
	17.00-17.15 - Oral: Yimin Chao, UK - Effects of ligand doping on the electrical conductivity of organic- silicon nanocomposite materials based on terthiophene capped silicon nanoparticles	17.00-17.20 - Invited Lecture: Biopl Paul, Sweden - Tailoring electronic and phononic properties: Towards ideal thermoelectricity	17.00-17.15 - Oral: Nicola Everitt, UK - Nanoindentation investigates the effect of grain size and chemical composition across melt-pools produced during selective laser manufacture of aluminium alloy	16.55-17.15 - Invited Lecture: Debes Bhattacharyya, New Zealand - Influence of surface topology and thickness of reduced graphene oxide film on its electrical conductivity
	17.15-17.30 - Oral: Sandra Noehren, Germany - Structural characterization of Si microwave anodes by in-situ synchrotron radiation	17.20-17.40 - Invited Lecture: Yasushi Iwata, Japan - EELS imaging studies for the electronic states of silicon cluster superlattice	17.15-17.30 - Oral: Nawawi Chouw, New Zealand - Dynamic behaviour of natural fibre reinforced polymer-concrete bridge piers	17.15-17.30 - Oral: Carlos Velasco-Santos, Mexico - Thermo-mechanical properties of nylon 6,6 polymer nanocomposites with functionalised carbon materials of 1 and 2 Dimensions: Electrospinning and injection molding
	17.30-17.45 - Oral: Xiaodan Hu, China - The synthesis and characterization of Fe ₃ O ₄ /bentonite nanocomposite	17.40-18.00 - Invited Lecture: Pramod Kumar Jain, India - Improvement of durability of hot mix asphalt by chromium containing solid wastes from leather industry	17.30-17.45 - Oral: Ami Kohri, Japan - Experimental investigation of X-rays stress measurement device for expansion joints	17.30-17.45 - Oral: Won Ho Jo, Korea - High performance supercapacitor electrode from conducting polymer/graphene composite
	17.45-18.00 - Oral: Kaho Kamada, Japan - Control of charging energy in carbon nanotube single electron transistor by electric-double-layer gate with ionic liquid	18.00-18.15 - Oral: Rui Wang, China - Bamboo charcoal/Fe ₃ O ₄ -KNO ₃ composite as efficient and recoverable catalyst for biodiesel production	17.45-18.00 - Oral: Basem Alsawy, UK - Multiscale deformation and failure in aluminium alloy 6082-T6: Experiments and modelling	17.45-18.00 - Oral: Timofey Chekalkin, Russia - Effect of gases on the surface formation of gradient structure in porous TiNi-based alloy
	18.00-18.15 - Oral: Hyung-Jin Choi, Korea - Finding of new materials for both electromagnetic shielding and antibacterial effect using multi-layer thin films	18.15-18.30 - Oral: Hiroshi Endo, Japan - Bioinspired multifunctional wrinkle surface	18.00-18.15 - Oral: Osama Hassan, Sweden - Experimental verification of static buckling of partially composite beams and beam columns	18.00-18.15 - Oral: Sibel Ozkaya, Turkey - Polypyrrole on graphene a density functional theory study
	18.15-18.30 - Oral: Yoko Matsuzawa, Japan - Reversible tuning of solubility of single-walled carbon nanotubes using a photofunctional dispersing agent	18.30-18.45 - Oral: Rafael Torres Mendieta, Spain - Fabrication of high stable gold nanofluid by pulsed laser ablation in liquids	18.15-18.30 - Oral: Erkut Findik, Turkey - Fracture toughness of talc filled polypropylene block copolymer composites stored long term without any daylight	18.15-18.30 - Oral: Po-Yuan Teng, Taiwan - Ultrasensitive graphene image sensor
	18.30-18.45 - Oral: Evgen Prokhorov, Mexico - Determination of optimum concentration of conductivity nanoparticles in polymer nanocomposites	18.45-19.00 - Oral: Jagriti Narang, India - Electrochemical impedimetric detection of anti-HIV drug taking gold nanorods as a sensing interface	18.30-18.45 - Oral: Jitendra Ramekte, India - Ultrasonic investigation of excess thermo acoustic parameters in binary liquid mixture at various temperatures	18.30-18.45 - Oral: Mahesh Matt, India - Thickness optimization of As ₂ Te ₃ thin film as back contact for CdTe solar cell
	18.45-19.00 - Oral: Danushika Manatunga, Sri Lanka - Facile synthesis and characterization of natural polysaccharide hydroxyapatite nanobiocomposite	19.00-19.15 - Oral: Nitika thakur, India - Effect of organic manures and biofertilizers in combination with technological intervention through different systems of cultivation on quality attributes of tomato (cv. <i>Solan lalima</i>) grown under mid-hill conditions of Himachal Pradesh	18.45-19.00 - Oral: Zdenka Prochazkova, Czech Republic - Recycled plastic material properties defined by nanoindentation	18.45-19.00 - Oral: Stefanie Freitag, Germany - Engineered graphene characterized by means of highly sensitive and 3D microscopic methods
	19.00-19.15 - Oral: Alexander Schoth, Germany - Tailoring the structure of polymer/inorganic hybrid nanomaterials	19.15-19.30 - Oral: Wu Weite, Taiwan - Effects of different refining slag and CaO content on desulfurization and dephosphorization during steelmaking process	19.00-19.15 - Oral: Levent Sozen, Turkey - Effect of calcium carbonate filler content on the hoop stress of high density polyethylene pipes	19.00-19.15 - Oral: Néstor David Espinosa-Torres, Mexico - Theoretical survey of luminescence observed in nanostructured silicon rich oxide films attributed to annealing processes
	19.15-19.30 - Oral: Naoki Toyama, Japan - Control of pore size of hollow silica-alumina composite spheres prepared using L(+)-arginine and their activity for hydrolytic dehydrogenation of ammonia borane		19.15-19.30 - Oral: Rajendra Sonkawade, India - Fabrication of organo-metallic composites as a radiation sensor	19.15-19.30 - Oral: Mohsen Adeli, Iran - A facial method for controlled functionalization and post functionalization of graphene in ambient conditions to produce a wide range of nanodevices
19.30-20.30	Coffee Break and Poster Session, Venue: Conference Centre, Deck 8			
20.30-23.30	Gala dinner to the restaurant "Buffet", Deck 7			

25th August, Tuesday (Day - 3)

07.00-08.00 Sea Breakfast, Deck 7
 08.00-08.30 Poster Setup, Venue: Conference Centre, Deck 8
 08.30-09.00 Check out from Cabins and store luggage in music meister, Deck 7
 09.00-10.00 Main Session, Venue: Seaside Auditorium, Deck 7
 Chair: Kazunori Kataoka, Japan
 AVI Award Lecture: Ingemar Lundström, Sweden - The Nobel Prize
 10.00-10.30 Coffee Break and Poster Session, Venue: Conference Centre, Deck 8
 10.30-12.30 Parallel Sessions 1-2-3-4, Venue: Conference Centre, Deck 8

Session I	Session II	Session III	Session IV
Venue: Auditorium Marina A	Venue: Auditorium Marina B	Venue: Seaside Auditorium A	Venue: Seaside Auditorium B
Nanomaterials and Nanotechnology	Biomaterials and Biodevices	Composite and Ceramic Materials	European Graphene Forum
Chair: Furong Tian, Ireland Co-chair: Mohammad Alenezi, Kuwait 10.30-11.00 - Keynote Lecture: Ravindra Pandey, USA - Stability and electronic properties of phosphorene-based 2D materials 11.00-11.15 - Oral: Jingwen Wang, China - Electroactive strain properties of acrylic resin elastomer based nanocomposite films 11.15-11.30 - Oral: Anand Krishnan, South Africa - Copper boron nitride catalyzed three component coupling reaction: A convenient synthesis of α -aminophosphonates 11.30-11.45 - Oral: Yihua Zhu, China - Iron carbide nanoparticles encapsulated in porous N-doped carbon hybrids as efficient oxygen reduction electro catalysts in acid media 11.45-12.00 - Oral: Tapas Laha, India - Understanding the effect of multi-phase microstructure on mechanical properties of Al based bulk metallic glass nanocomposites 12.00-12.15 - Oral: Jianhua Shen, China - Preparation and oxygen reduction reaction catalytic performance of nitrogen/sulfur double doped hollow carbon microspheres 12.15-12.30 - Oral: Refaat Mahfouz, Egypt - Effects of surfactant and gamma irradiation on the synthesis of CdO nanoparticles by thermal decomposition of anhydrous cadmium acetate	Chair: Tetsuji Yamaoka, Japan Co-chair: HIRAK Patra, Sweden 10.30-11.00 - Keynote Lecture: Lokman Uzun, Sweden - Bioinspired biomaterials surfaces for improved biocompatibility and recognition capability 11.00-11.15 - Oral: Nurefsan Gokalp, Turkey - Immobilization of <i>Candida antarctica</i> lipase onto an amorphous silica support by cross-linking method for ring-opening polymerization of ϵ -caprolactone 11.15-11.30 - Oral: Md. Ashaduzzaman, Sweden - On/off-switchable dual responsive bioelectrode 11.30-11.45 - Oral: Tomohiko Yamazaki, Japan - G-quadruplex structure improved immunostimulatory effects of CpG oligodeoxynucleotides 11.45-12.00 - Oral: Taira Sato, Japan - Preparation of hydroxyapatite/collagen anti-decay paste using 3-glycidioxypropyltrimethoxysilane 12.00-12.15 - Oral: Mostafa Mabrouk, South Africa - Effect of dopamine on the physicochemical bioactivity and biodegradation of PVA-PCL-PEG hollow porous microspheres prepared by a double emulsion solvent evaporation technique 12.15-12.30 - Oral: Cansu Ulker, Turkey - Poly (ϵ -caprolactone) synthesis by a novel enzymatic catalyst: <i>Candida antarctica</i> lipase (CALB L) immobilized on a modified silica-based material by physical adsorption	Chair: Hendrik Swart, South Africa Co-chair: Subhash Kondawar, India 10.30-11.00 - IAAM Medal Lecture: Rosario Gerhardt, USA - Detection of interfaces via impedance spectroscopy analysis 11.00-11.15 - Oral: Surya Veerendra Prabhakar Vattikuti, Korea - Al_2O_3 supported MoO_3 , MoS_2 composite catalysts synthesized by induce wetness impregnation route 11.15-11.30 - Oral: Dagmar Merinska, Czech Republic - The influence of the clay and compatibilizer concentration on the PE PP and PE/EVA copolymer properties 11.30-11.45 - Oral: Deoram Nandanwar, India - Synthesis and characterization of silver nanoparticles embedded conducting polymer nanocomposites 11.45-12.00 - Oral: Prantasi Tjahjanti, Indonesia - Analysis of mechanical testing of composite material with reinforcement natural fibre water hyacinth (<i>Eichhornia crassipes</i>) 12.00-12.15 - Oral: B. Sudhakar Reddy, India - Emission analysis of the Eu^{3+} ions doped strontium yttrium tungstate powder ceramics 12.15-12.30 - Oral: Talha Kesemenli, Turkey - Effect of particle size of talc on the fracture toughness of high density polyethylene stored long term without any daylight	Chair: Mikael Syväjärvi, Sweden Co-chair: Klaudio Bari, UK 10.30-10.55 - IAAM Scientist Award Lecture: Seong-Chan Jun, Korea - The new growth technique for ZnO nanorods/graphene hybrid structures for photocatalyst 10.55-11.10 - Oral: Umit Ertem, Turkey - An Analogue 'black hole' model in graphene 11.10-11.25 - Oral: Subimal Majee, Sweden - Printable graphene ink produced by liquid-phase shear ex-foliation of graphite 11.25-11.40 - Oral: Norbert Nickel, Germany - Large area CVD grown graphene for silicon based solar cells 11.40-11.55 - Oral: Meryem Derya Ozdemir, Turkey - Transport properties of intrinsic and dirty graphene: The role of interface roughness scattering 11.55-12.10 - Oral: Baki Ozdincer, UK - Graphene-activated carbon hybrid material as a catalyst support for low temperature polymer electrolyte fuel cells 12.10-12.25 - Oral: Felix Rösicke, Germany - Electrochemical maleimidation of graphene quantified by QCM and vibrational spectroscopies
Lunch to the restaurant "Buffet", Deck 7			
Poster Session, Venue: Conference Centre, Deck 8			
Parallel Sessions 1-2-3, Venue: Conference Centre, Deck 8			

Session I	Session II	Session III
Venue: Seaside Auditorium C	Venue: Seaside Auditorium B	Venue: Seaside Auditorium A
Electronic Materials	World Technology Forum	Composite and Ceramic Materials
Chair: Zidan Wang, Hong Kong Co-chair: Filiz Kuralay, Turkey 13.30-13.45 - Oral: Padma Padmanabhan, India - Factors influencing ion transport in solids: Insights from MD simulations 13.45-14.00 - Oral: Wayne Francis, Ireland - Electro-guided self-propelled ionic liquid droplets as vessels for chemical reactions 14.00-14.15 - Oral: Sungsoo Kim, Korea - Feasibility test of direct capillary-pen writing for patterning of vapor phase-polymerized poly(3,4-ethylenedioxythiophene) nanofilm 14.15-14.30 - Oral: Hou-Hsein Chu, Taiwan - Hydrogel prepared using prepolymers of siloxane-containing carbamate	Chair: Ravindra Pandey, USA Co-chair: Nicola Everitt, UK 13.30-13.45 - Oral: Khamlich Salaheddine, Morocco - Implementation of NIOS II multiprocessors in FPGA: An application of the speech processing 13.45-14.00 - Oral: Iskender Isik, Turkey - How a geomaterial nanostructure affects its performance and price 14.00-14.15 - Oral: Prasanta Kalita, India - Design and development of bioassay for detection of endotoxin in water and human serum 14.15-14.30 - Oral: Abdulazeez Lawal, Nigeria - Synthesis and utilisation of carbon nanotubes for fabrication of electrochemical biosensors	Chair: Yogendra Mishra, Germany Co-chair: Yin-Gang Wang, China 13.30-13.45 - Oral: Jiuzhou Zhao, China - Solidification of immiscible alloys under the effect of the electric current pulses 13.45-14.00 - Oral: Gnanavel B K, India - Properties of concrete manufactured using ceramic slag 14.00-14.15 - Oral: D. L. SUN, China - First-principles study of the effect of boron and phosphorus dopants on the elastic modulus of silicon crystal 14.15-14.30 - Oral: Victor Sánchez Orendain, México - Evaluation of a cellular glass ceramic produced using sludge of drinking water treatment plants for NOx reduction

15.00-15.20 Young Scientists Award, Closing Ceremony and Coffee, Venue: Conference Centre, Auditorium Marina, Deck 8
 15.30 Leave to Viking Cruise, Stockholm, Sweden

12.25-12.30 Closing remarks by EGF chairmans - Prof. Ashutosh Tiwari and Prof. Mikael Syväjärvi

26th August, Wednesday (Day - 4)

08.00-09.00 IAAM Steering Committee Meeting, Best Western Plus Time Hotel, Stockholm
 09.00-10.00 AM Satellite Meeting, Best Western Plus Time Hotel, Stockholm
 10.30-15.00 Scientific Discussion, Networking and Social Activities

Tour to Nobel Museum and Stockholm City

Guided tour to Nobel Museum

At the Nobel Museum, you will learn more about the Nobel Prize and its founder, as well as the Nobel Laureates and their creative endeavors.

12.00-01.30 Lunch at the Nobel Museum

Guided tour to Stockholm City Hall: Venue of the Nobel Prize Banquet

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. This guided sightseeing bus tour passes all the must-see attractions in Stockholm with modern, air conditioned luxury coaches. The tour is perfect for passengers who want a non-stop tour without unnecessary stops on the way. If possible we make a stop at Fjällgatan, where the view of Stockholm's islands and waters is truly wonderful. During this tour you will get to know Stockholm and history of the city.

23rd August, Sunday (Day - 1)

Poster Evaluation Jury: Ingemar Lundstrom (Sweden), Li-Chyong Chen (Taiwan), Krishna Bisetty (South Africa) and Nawawi Chouw (New Zealand)

12.00-13.30	All Posters Setup, Venue: Conference Centre, Deck 8
16:30-17:00	Poster Session I - Advanced Nanomaterials and Nanotechnology
19:30-20:15	Poster Session II - Advanced Nanomaterials and Nanotechnology
P-01	Yuvraj Malghe, India - Synthesis, characterization and gas sensing behavior of Nano sized Fe ₂ O ₃
P-02	Vito Rizzi, Italy - Photoactivity and photoprotection of chlorophyll-a based gold nanoparticles
P-03	Subhash Kondawar, India - Transport properties of multi-walled carbon nanotubes based conducting polythiophene/polyaniline nanocomposites
P-04	Hale Berber Yamak, Turkey - Synthesis of waterborne graphene/polymer nanocomposites by using in situ emulsion polymerization and investigation of colloidal and film properties of nanocomposites
P-05	Richard Haverkamp, New Zealand - Mechanical behaviour of collagen fibrils with strain
P-06	Young Sanq Lee, Korea - Fabrication and evaluations of hydrogen permeation on BZY-Pd/Aq composites membrane
P-07	Mukta Kulkarni, Slovenia - Effect of water content in the electrolyte during anodization to form different titanium dioxide nanostructures
P-08	Milos Beran, Czech Republic - Immobilization of endonuclease on polyhydroxybutyrate nanofibers
P-09	Giin-Shan Chen, Taiwan - Electroless plating of Cu-Mn alloy thin films with self-forming capacity and enhanced thermal stability
P-10	Jiri Bednar, Czech Republic - Preparation of photocatalytic core-shell lamellar nanostructures ZnO(Si)ZnO with high sorption surface
P-11	Yi-Lung Cheng, Taiwan - Effect of annealing temperature on electrical and reliability characteristics for stacked structure of HfO ₂ and porous low-k films
P-12	Nelcy Mohallem, Brazil - Synthesis of γ -lithium aluminate using freeze drying
P-13	Jin-Hyo Boo, Korea - Self template 3D gold nanoparticles on boron nanowire array as plasmonic material
P-14	Muhammad Iqbal, France - Submicron polymeric particle preparation for theranostic applications
P-15	Jin-Hyo Boo, Korea - Conductivity enhancement of PEDOT: PSS thin films for organic solar cell application
P-16	Krasimir Ivanov, Bulgaria - Application range of nanocatalysts for CO oxidation in mainstream cigarette smoke
P-17	Mero-Lee Cornelius, South Africa - Synthesis of fly ash based zeolites with hierarchical morphology from a clear fused fly ash extract
P-18	Nelson Camargo, Brazil - Sintering and characterization of a hydroxyapatite matrix and hydroxyapatite matrix nanocomposites
P-19	Jeung Hee An, Korea - Tumor targeting of hederagenin loaded magnetic nanoparticles for anti-cancer drug delivery
P-20	Nadiah Zafar, France - Elaboration of sponge like biodegradable cationic particles via double emulsion solvent evaporation
P-21	Rajat Gupta, India - Characterization of insulin in presence of folic acid
P-22	Talha Jamshaid, France - Fabrication of submicron magnetic latex particles towards lab on chip
P-23	Meng Jiy Wang, Taiwan - Catalytic effects of multilateral nanoparticles on biosensing
P-24	Setumo Motloung, South Africa - Effects of In ³⁺ doping concentration on the MgAl ₂ O ₄ : x% In ³⁺ nanophosphor
P-25	Carlos Velasco-Santos, Mexico - Gamma-irradiated SiO ₂ nanoparticles to improve concrete properties
P-26	Martin Onani, South Africa - Luminescent magnetic nanoparticles for biomedical applications
P-27	Florin Vasiliu, Romania - Development of exchange spring-like nanomagnets in pseudobinary (Fe, Co)-Pt alloys
P-28	Francis Dejene, South Africa - Influence of selenization time on the structural properties and in depth compositional features of two step grown Cu(In, Ga)Se ₂ thin films
P-29	Hussien Abbas, Egypt - Nano sized Fe doped strontium titanate for photocatalytic degradation of dibutyl phthalate under visible light
P-30	Fereshteh Chekin, Iran - Preparation of nickel oxide nanoparticles in presence of gelatin and surfactants
P-31	Fereshteh Chekin, Iran - Green synthesis and characterization of cobalt oxide nanoparticles and catalytic behavior
P-32	Murat Baisariyev, Kazakhstan - The effect of growth temperature and substrate type on physical and morphological characteristics of GaN thin films synthesized in hot-wall CVD furnace
20.15-20.30	Meeting of Poster Jury

24th August, Monday (Day - 2)

Poster Evaluation Jury: Anthony P. F. Turner (Sweden), D. Kurt Gaskill (USA), Rosario Gerhardt (USA) and Yasushi Iwata (Japan)

08.00-08.30	All Posters Setup, Venue: Conference Centre, Deck 8
10.00-10.30	Poster Session I - Advanced Energy Materials and Technology, Advanced Biomaterials and Biodevices, Advanced Optical Materials and Methods
15.30-16.30	Poster Session II - Advanced Energy Materials and Technology, Advanced Biomaterials and Biodevices, Advanced Optical Materials and Methods
19:30-20:15	Poster Session III - Advanced Energy Materials and Technology, Advanced Biomaterials and Biodevices, Advanced Optical Materials and Methods
	Advanced Energy Materials and Technology
P-01	Sang-Chul Jung, Korea - Application of liquid phase plasma process to the synthesize ruthenium oxide/activated carbon composite as dielectric material for supercapacitor
P-02	Yeu-Long Jiang, Taiwan - a-SiC _x H p-i-n solar cells deposited by pulsed plasma
P-03	Parth Bhatt, India - Investigating the degradation rate of perovskite material under humid conditions for solar photovoltaic applications
P-04	Dong Min Kim, Korea - The catalytic activity of cathode with sputtered cobalt with graphene oxide on carbon paper
P-05	Dong Min Kim, Korea - Facile preparation of graphene/Pt composites and their application in dye-sensitized solar cells
P-06	Dong Min Kim, Korea - Electrochemical impedance spectroscopy for the characterization of RF-sputtered Gd-doped ceria(GDC) thin film for micro SOFC
P-07	Sharil Fadli Mohamad Zamri, Malaysia - Consequences of SiO ₂ and HCl-SiO ₂ filler on the ionic conductivity and film formation of PMMA/ENR 50 electrolytes
P-08	Soon-Chul Ur, Korea - Effect of Ni oxide addition on the electrochemical properties of LiFePO ₄ /C cathode materials for Li ion battery
P-09	Brahim Aissa, Canada - Morphology and optical dependence of carbon nanomaterials-based hybrid organic photovoltaic cells
P-10	Woosung Lee, Korea - The effect of the number of anchoring groups on the performance of triphenylamine and phenothiazine dyes in dye-sensitized solar cells
P-11	Ayman El-Amin, Egypt - Structural and electrical properties of doped LaGaO ₃ for solid oxide fuel cell application
P-12	Rosana Badía-Laiño, Spain - A systematic assessment of dispersion stability of functionalized SiO ₂ in oil and their potential tribological properties
P-13	Seong-Chan Jun, Korea - Simple fabricated high performance 3D structured supercapacitor electrode with hybrid materials
P-14	Franco Amado, Brazil - Synthesis and characterisation of polyaniline(Pani) membranes for fuel cell
P-15	Ravisha Bhatia, Sweden - Modulated-electrobiocatalysis of graphene bioelectrode
P-16	Niharika Rawat, Sweden - Studies on electrochemical properties of enzyme modified layered graphene on SiC for biofuel application
	Advanced Biomaterials and Biodevices
P-17	Tetsuji Yamaoka, Japan - Preparation of implantable autologous acellular skin prepared from melanocytic nevus by high hydrostatic pressure
P-18	Vito Rizzi, Italy - 4-thiothymidine characterization in aqueous solution and future perspectives for application in chitosan-based laminated biodevices for the detection of ROS
P-19	Hannah Wells, New Zealand - Microstructure and looseness in bovine leather
P-20	Elena Kalmykova, Russia - Determination of parameters of binding lipopolysaccharide with chitozane and its N-acetylated derivative
P-21	Paola Semeraro, Italy - Use of a lipophilic natural pigment chlorophyll a for photodynamic therapy applications
P-22	Katrin Unger, Austria - Light responsive hydrogels produced with initiated chemical vapor deposition
P-23	Danielle Bruen, Ireland - Contact lenses for real-time colorimetric sensing of glucose
P-24	Eri Shima, Japan - Properties of novel bone hemostat by random co-polymer of ethylene oxide and propylene oxide with sugar-containing apatite
P-25	ilven Mutlu, Turkey - Production and characterization of biomedical Ti-7Co alloy in simulated body fluid environment
P-26	Jongshin Park, Korea - Preparation and characterization of polyurethane foam using PLA/PTMEG as polyols
P-27	Emine Berber, Turkey - Fabrication of electrospun nanofibers-single walled carbon nanotube (SWCNT) composite thin membrane for exhaled breath analysis
P-28	Alfonso Fernández-González, Spain - Spectroscopic characterization of novel carbon nanoparticles using surface interaction with Eu ³⁺ -tetracycline complex as probe
P-29	Eunhae Koo, Korea - DNA nanosensor with PNA/DNA hybridization
P-30	Ricardo Totovao, France - Stimuli-responsive hybrid organic/inorganic mesoporous silica nanoparticles for nanomedicine

- P-31 Declan McGlade, Ireland - A graphene-copper composite as an anti-bacterial agent for potential water treatment applications
 P-32 Ana L. Martínez-Hernández, México - Photocatalytic effect to remove phenolic compounds of water with carbon materials of 2 and 3 dimensions
 P-33 Vicente Rodríguez-Gonzalez, Mexico - A functional assembly of SiO₂ nanospheres/graphene oxide composites
 P-34 Seong-Chan Jun, Korea - The composite of 3D graphene and 2d materials for glucose sensing
 P-35 Boris Minaev, Ukraine - Computational design of new 2D materials and single-wall nanotubes
 P-36 Whangi Kim, Korea - Preparation and synthesis of sulfonated polyphenylene containing ketone moiety for PEMFC
 P-37 Xuemei Wang, China - Fabrication of carbon fiber microelectrode and its application in living cell H₂O₂ detection
 P-38 Poomani Govender, South Africa - DFT Studies of Vitamin B12 analogues

Advanced Optical Materials and Methods

- P-39 Ting Kan Tsai, Taiwan - Optical properties and thermal stability of sputtered CrN/CrON/Al₂O₃ spectrally selective coatings
 P-40 S J Dhole, India - NUV excited K₂SrP₂O₇:Sm³⁺ red phosphor for white light generation
 P-41 Chih Wei Luo, Taiwan - Anisotropic ultrafast dynamics in La_{0.67}Sr_{0.33}MnO₃/BiFeO₃ heterostructure
 P-42 Jau-Shiung Fang, Taiwan - Atomic layer deposition of Cu and Cu(Ru) layer by electrochemical process
 P-43 Girish Setlur, India - Anomalous rabi oscillations in dirac fermion materials
 P-44 Alok Shukla, India - Luminescence investigation of KAIP₄O₄Cl:Dy³⁺ phosphor for solid state lighting
 P-45 Rong-Fuh Louh, Taiwan - Electrophoretically self-assembled photonic crystal templates with surface enhanced raman scattering effect
 P-46 Gonzalo Becerra Orozco, Colombia - Optical modes of vibration in a metamaterial slab including effects of retardation
 P-47 Hsin-Yi Lee, Taiwan - Structural and magnetic properties of sputter-deposited La_{0.7}Sr_{0.3}MnO₃/LaNiO₃ superlattices
 P-48 Chi-Jung Chang, Taiwan - White light emitting diodes with UV curable oligosiloxane/fluorescent polymer blends as encapsulants
 P-49 Anurag Pandey, South Africa - NIR to visible frequency upconversion in CaMoO₄:Ho³⁺-Tm³⁺ phosphor
 P-50 Pavel Peretyagin, Russia - Study of laser beam modulation influence on structure of materials produced by additive manufacturing
 P-51 Bentouaf Ali, Algeria - Structural and electronic properties of TbCo₂ binary system intermetallic compounds: A first-principles study

20.15-20.30 Meeting of Poster Jury

25th August, Tuesday (Day - 3)

Poster Evaluation Jury: Kazunori Kataoka (Japan), Klaudio Bari (UK), Natarajan Murugan (Sweden) and Richard Haverkamp (New Zealand)

08.00-08.30 All Posters Setup, Venue: Conference Centre, Deck 8

10.00-10.30 Poster Session I - Advanced Green Materials and Technology, Advanced Structural and Engineering Materials, Advanced Composite Materials and Technology

12.30-13.30 Poster session II - Advanced Green Materials and Technology, Advanced Structural and Engineering Materials, Advanced Composite Materials and Technology

Advanced Green Materials and Technology

- P-01 Paola Semeraro, Italy - Treatment of wastewater in textile industry to recover and reuse dyes
 P-02 Ana Marta-nez-Hernandez, Mexico - Removal of phenol and As (V) from water by polyurethane- keratin membranes: Gamma irradiation effect
 P-03 Manoj Pandey, India - Preparation characterization and study of host-guest behaviour of dimethylaniline encapsulated cucurbit[n]uril (n=67) complexes
 P-04 Salam Titinchi, South Africa - Oxovanadium supported catalyst for oxidation reactions
 P-05 Jung-Sik Kim, Korea - Photocatalytic reaction for titanium dioxide on the long lasting phosphor of strontium aluminate system
 P-06 Jung-Sik Kim, Korea - Fabrication of the MOS-type sensor array and its sensing characteristics for gas mixture
 P-07 Alessandra Longo, Italy - Removal of textile dyes from wastewater using chitosan-based ultrathin membranes
 P-08 Pramod Kumar Jain, India - Studies on warm mix asphalt - A low energy engineering material
 P-09 Yunq-Pin Tsai, Taiwan - Using titanium dioxide/carbon nanotubes to remove humic acids in water
 P-10 Boris Minaev, Ukraine - Natural degradation of the N N N'-tetraethylbenzidine cation – An intermediate formed upon colorimetric determination of hypochlorite in circulating and waste water

Advanced Composite Materials and Technology

- P-11 Marcin Malek, Poland - Influence of binder type on the SiC-based ceramic slurries properties for casting shell moulds fabrication
 P-12 Devendra Burghate, India - Synthesis and characterization of electrospun nanofibers of PPy/MWCNT/MnO₂ ternary composite
 P-13 Eduardo Brocchi, Brazil - Preparation and characterization of CuNi-Al₂O₃ nanocomposite
 P-14 Ryo Yamazaki, Japan - Effect of borate addition on superplastic deformation of hydroxyapatite
 P-15 Tetsuo Umegaki, Japan - Effect of silica coating on performance of copper-zinc oxide based catalyst for methanol synthesis
 P-16 Isabel Ramos, Brazil - Preparation and characterization of CuNi-Al₂O₃ nanocomposite
 P-17 Yingwei Fan, UK - Kinetics and mechanism of chemical reaction at the unidirectional continuous SiC fibre/C/Ti-17 composite interfaces
 P-18 Venkatesh Doddapaneni, Stockholm - On the Fe-oxide/PMMA nanocomposites in electrical switching applications
 P-19 Jafarsadegh Moghaddas, Iran - Adsorption desorption cycles of silica aerogel and silica aerogel-activated carbon composite
 P-20 Mahmoud Heydarzadeh Sohi, Iran - Effects of the electrodeposition parameters on crystalline size and morphology of CoFe-based nanocomposite coatings
 P-21 Franco Amado, Brazil - Synthesis and characterisation of polyaniline(Pani) membranes for fuel cell
 P-22 Kamel Taibi, Algeria - Structural and vibrational studies of Ni Al_x Fe_{2-x} O₄ ferrites (0 ≤ x ≤ 1)
 P-23 Morteza hosseinzadeh, Iran - Warpage analysis of PPE/PS 20% glass composite in the injection molding process

Advanced Structural and Engineering Materials

- P-24 Kurt Rudahl, Thailand - Hidden damage visualization for earth-supported constructions
 P-25 Whangi Kim, Korea - Preparation and properties of polycarbonate containing side ester group for surface hardness
 P-26 Malgorzata Zagorska, Poland - Structure and oxidation resistance of multicomponent diffusion layers based on nickel aluminides produced on superalloy inconel 713C
 P-27 Karin Gong, Sweden - Study of nano-indentation hardness on subsurface layer of Ni₃Al-alloy and its composites induced by dry friction
 P-28 Gennadii Sapozhnikov, Russia - Production and properties investigation of the high nitrogen stainless steel
 P-29 Pavel Peretyagin, Russia - Characterization of materials defects after electrical discharge machining and research of their physical explanation by vibroacoustic diagnostics
 P-30 Lehlolonolo Koao, South Africa - Effect Tb³⁺ molar concentrations on ZnO nanoplates synthesized by chemical bath method (CBD)
 P-31 Lounis Azzeddine, Algeria - Preparation and structural characterization of ultrathin polymer films by neutron reflectivity
 P-32 Mohammed Azzaz, Algeria - Microstructural study of thin films CuFe obtained by thermal evaporation
 P-33 Ion Palamarcu, Romania - Improving stainless steel corrosion resistance to sulfurous media by formation of protective oxide layers in fluidized bed
 P-34 Arash Sirouinejad, Iran - Synthesis of magnetite nanoparticles on the surface of carbon steel as passivation film and investigation of their corrosion behaviors

13.15-13.30 Meeting of Poster Jury

AMWE at a glance

Summary of Program: AMWC 2015

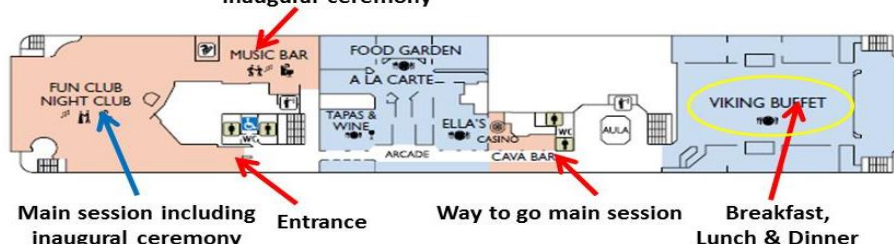
23 rd August, Sunday (Day - 1)	24 th August, Monday (Day - 2)	25 th August, Tuesday (Day - 3)	26 th August, Wednesday (Day - 4)*
Registration 9.00-10.30	Breakfast 06.30-08.00	Breakfast 07.00-08.00	Scientific Discussion, Social Activities (Trip) 10.30-15.00
Boarding 10.30-11.00	Poster Setup 08.00-08.30	Poster Setup 08.00-08.30	Lunch at the Nobel Museum 12.00-13.30
Main Session 11.00-12.00	Main Session 8.30-10.00	Check Out 08.30-09.00	
Lunch and Poster Setup 12.00-13.30	Coffee and Poster Session 10.00-10.30	Main Session 9.00-10.00	
Cabin Access 13.30-14.00	Parallel Session 10.30-12.00	Coffee and Poster Session 10.00-10.30	*Delegates who booked tickets for Nobel Museum and Stockholm Sightseeing tour.
Parallel Session 14.00-16.30	Lunch 12.00-13.20	Parallel Session 10.30-12.30	
Coffee and Poster Session 16.30-17.00	Helsinki Trip 13.30-15.30	Lunch and Poster Session 12.30-13.30	
Parallel Session 17.00-19.30	Coffee and Poster Session 15.30-16.30	Parallel Session 13.30-14.45	
Poster Session 19.30-20.30	Parallel Session 16.30-19.30	Closing Ceremony 15.00-15.20	
Dinner 20.15-21.30	Coffee and Poster Session 19.30-20.30	Leaving from Viking Cruise 15.30	
	Congress Gala Dinner 20.30-23.30		

Venue Chart

Fun club, Deck 7	Conference centre, Deck 8						Abbreviations	
Main Session	Session I Marina A	Session II Marina B	Session III Seaside A	Session IV Seaside B	Session V Seaside C		CM	Computational Materials
23 rd August, Sunday (Day - 1)	Seaside Auditorium	NN	Biomaterials	SET	CM	Biosensors	OEMM	Optical, Electronic and Magnetic Materials
		NN	Biomaterials	SET	OEMM	AHM	AHM	Advanced Hybrid Materials
24 th August, Monday (Day - 2)	Seaside Auditorium	NN	Biomaterials	EGM	EGF		Biosensors	Biosensors and Bioelectronics
		NN	WTF	SCEM	EGF		CCM	Composite and Ceramic Materials
25 th August, Tuesday (Day - 3)	Seaside Auditorium	NN	Biomaterials	CCM	EGF		WTF	World Technology Forum
	Seaside C EM	Seaside B WTF	Seaside A CCM				SET	Smart Energy Technologies
							EGM	Environment and Green Materials
							EM	Electronic Materials
							SCEM	Structural and Constructional, Engineering Materials
							EGF	European Graphene Forum
							NN	Nanomaterials and Nanotechnology
							Biomaterials	Biomaterials and Biodevices

DECK 7

Luggage drop before entering inaugural ceremony



DECK 8

