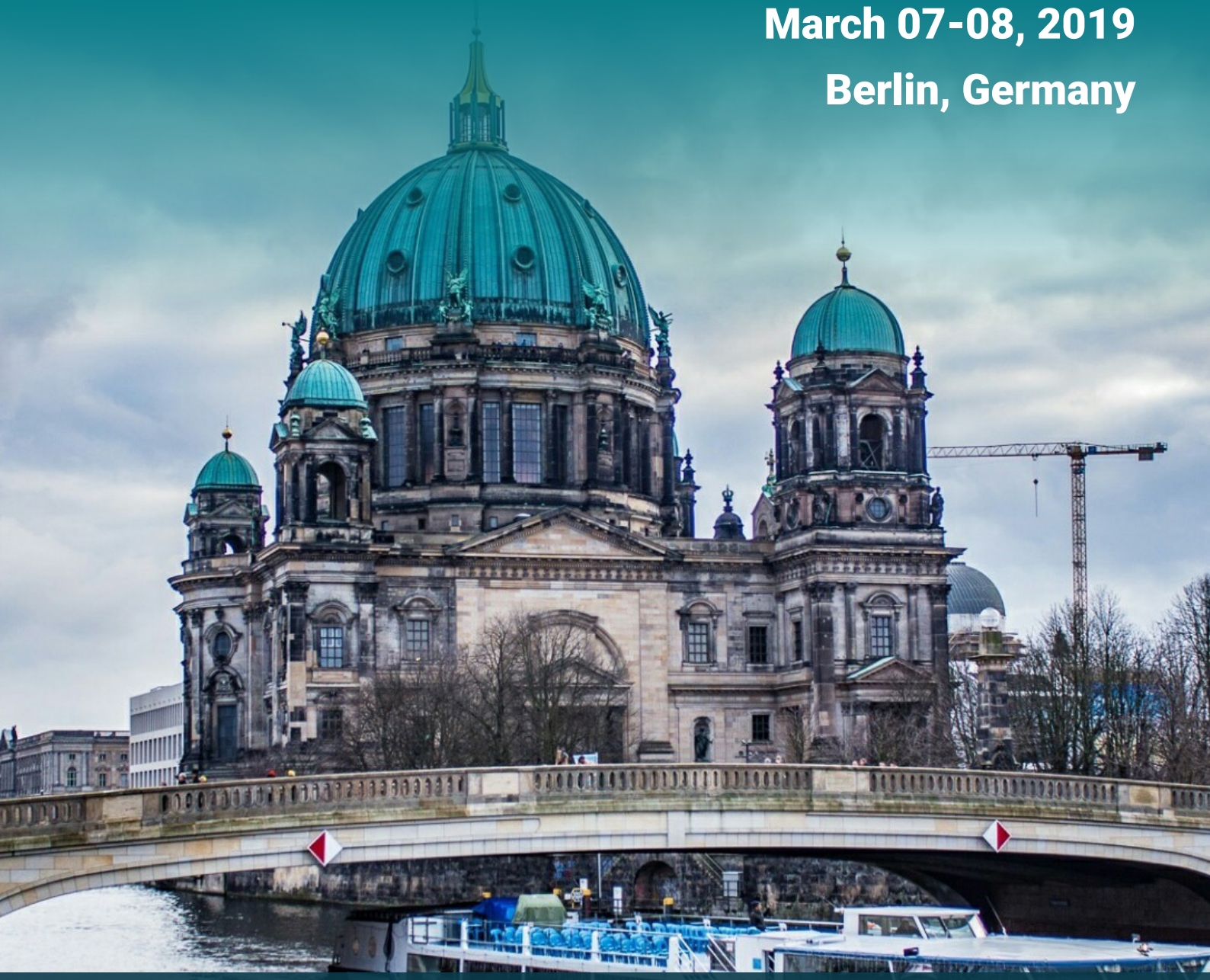
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17th International Conference on

Emerging Materials and Nanotechnology

March 07-08, 2019

Berlin, Germany



SCIENTIFIC PROGRAM

DAY 1
Thursday, 7th March

08:30-09:00 **Registrations**

09:00-09:30 **Introduction**

09:30-09:50 COFFEE BREAK

09:50-11:50 Meeting Hall 01

KEYNOTE LECTURES

11:50-13:10

MEETING HALL 01

Talks On:

- Materials Science and Engineering
- Materials and Devices
- Nanotechnology in Materials Science

13:10-13:15 GROUP PHOTO

13:15-14:00 LUNCH BREAK

14:00-16:00

MEETING HALL 01

Talks On:

- Energy Materials
- Surface Science and Engineering
- Biomaterials and Tissue Engineering

16:00-16:20 COFFEE BREAK

MEETING HALL 01 (16:20-17:00)

Young Researchers in Emerging Materials and Nanotechnology

DAY 2
Friday, 8th March

09:00-10:30 Meeting Hall 01 — **KEYNOTE LECTURES**

10:30-10:50 COFFEE BREAK

10:50-12:50 — **MEETING HALL 01**

Talks On:

- Ceramic Engineering
- Polymer Technology
- Graphene and Carbon Nanotubes

12:50-13:35 LUNCH BREAK

13:35-15:55 — **MEETING HALL 01**

Talks On:

- Electrical, Optical, Magnetic Materials
- Advanced Materials
- Materials Characterization and Applications

15:55-16:15 COFFEE BREAK

MEETING HALL 01 (16:15-17:00)

Poster Presentations

Previous Organizing Committee



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P Sarah
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17th International Conference on Emerging Materials and Nanotechnology

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AGENDA

Title: Polymer Materials with ability to remove Pollutants from aquous medium

Bernabé L. Rivas
University of Concepción,Chile

Bernabé L. Rivas has completed his PhD at the University of Concepcion (1980) and postdoctoral studies at Tuebingen University, Germany with Humboldt Foundation Fellows (1989-1991). He is leader of the research group about Synthesis and Applications of -Functional Polymers, Polyelectrolytes, Resins with Retention Properties for Pollutants Ions.–. Nanocomposites from polypropylene and biopolymers. He has published more than 420 papers in reputed journals, 29 chapter of books, h factor 35, and has been serving as an editorial board member of Journals.

Title: Halloysite - Interfacial Self-Assembly with Clay Nanotubes: Organized Arrays and Core-Shell Metalloceramic Systems

Yuri M. Lvov
Louisiana Tech University,USA

Y.Lvov worked at Max Planck Institute for Colloids Interfaces-Potsdam, National Institute Materials Sciences -Tsukuba, and Naval Research Lab, Washington DC. His niche in micro/nano technology includes assembly of ultrathin organized films, biocomposites, core-shell systems, clay nanotubes for controlled release of chemicals. He was among pioneers of the layer-by-layer assembly, method which found industrial applications in HPLC, eye lenses, fibers for better fabric and paper, and nanocapsules for drug delivery. He also pioneered halloysite clay nanotubes for functional polymeric composites (flame-retardant, anticorrosion, antimicrobials). Lvov has 15 US patents, published 260 papers cited over 26,000 times and his Google h-index is 87.

Title: Process development: Ridge and film formation during high speed stamping of extruded PC-ABS polymer blend

Sebastian Noller
HTW-Berlin, Berlin, Germany

Sebastian Noller studied mechanical engineering at HS Ulm, Germany while simultaneously graduating with an apprenticeship as an industrial mechanic at a provider for brick production plants. After this he did his master's degree in mechanical engineering at HTW Berlin, Germany. His thesis he was conducted at a provider for minimum quantity lubrication systems in Berlin. Up to now Sebastian Noller is research fellow at HTW Berlin. Here he uses his earlier experience on manufacturing processes to research on the ridge and film origin in the procedure of stamping PC-ABS during the production of cable ducts.

SPEAKER SLOTS AVAILABLE

Title: Welded Silver Nanowires as Transparent Electrodes in Solar Cells

Vuk V. Radmilović
University of Belgrade,Serbia

Vuk V. Radmilović completed his PhD thesis entitled "Transparent Nanocomposite Films for Plastic Electronic Applications" at the Faculty of Technology and Metallurgy, University of Belgrade. During his PhD studies he was a visiting researcher at Civil and Environmental Engineering Department, University of Perugia, Terni, Italy; Centre des Materiaux, Mines ParisTech, Evry, France and both, at CENEM (Center for Nanoanalysis and Electron Microscopy) and IMEET (Institute Materials for Electronics and Energy Technology), Friedrich Alexander University, Erlangen, Germany. Has been awarded multiple awards and scholarships for scientific mobility from international organizations and has co-authored 19 peer reviewed manuscripts in international journals.

Title: Cooling and Heating with Ground Source Energy

Abdeen Mustafa Omer
ERI, Nottingham, UK

Dr. Abdeen Mustafa Omer (BSc, MSc, PhD) is an Associate Researcher at Energy Research Institute (ERI). He obtained both his PhD degree in the Built Environment and Master of Philosophy degree in Renewable Energy Technologies from the University of Nottingham. He is qualified Mechanical Engineer with a proven track record within the water industry and renewable energy technologies. He has been graduated from University of El Menoufia, Egypt, BSc in Mechanical Engineering. His previous experience involved being a member of the research team at the National Council for Research/Energy Research Institute in Sudan and working director of research and development for National Water Equipment Manufacturing Co. Ltd., Sudan. He has been listed in the book WHO'S WHO in the World 2005, 2006, 2007 and 2010. He has published over 300 papers in peer-reviewed journals, 200 review articles, 15 books and 150 chapters in books.

Title: A New Orbital Free Simulation Method for Large Nanosystems and Molecules

Victor G. Zavodinsky
Stanford Institute for Materials Science,Russia

Victor G. Zavodinsky, a professor of condence matter, has completed his PhD at the age of 26 years from Institute of Nuclear Physics (Alma-Ata, Kazakstan) and postdoctoral studies from Far Eastern State University (Vladivostok, Russia). Many years he was the director of Institute for Materials Science (Khabarovsk, Russia). Now VGZ is a leader-researcher of the above Institute. He has published more than 75 papers in reputed journals and has been serving as an editorial board member of several internatonal journals.

SPEAKER SLOTS AVAILABLE

Title: Multiferroic $BaTiO_3$-$CoFe_2O_4$ nanocomposite prepared via affordable liquid phase processes

Go KAWAMURA
Toyohashi University of Technology,Japan

Go Kawamura has completed his PhD at the age of 27 years from Nagoya Institute of Technology. He is the assistant professor of Toyohashi University of Technology and the visiting scholar of University of Erlangen-Nuremberg. He has published more than 100 papers in reputed journals and has been serving as an editorial board member of Scientific Reports.

Title: Advances in Membrane Technology for Paving the way for Water Sustainability

Amira Abdelrasoul
University of Saskatchewan,Canada

Dr. Abdelrasoul research interests focus on Membrane Science and Technology for Energy and Water Sustainability and Biomedical Applications; Process Modeling, Simulation and Optimization of Complex Systems; and Nanomaterials for Advanced Technologies. Her research projects focus on modeling; nanoscale molecular dynamics and computational fluid dynamics simulations; optimization; designing; developing; and synthesizing novel evolutional membranes with an advanced customized morphology that can pave the way for the sustainable engineering in the following areas: **(i)** Optimal membrane technologies for water and wastewater treatment, and the multiplicity of usage scenarios for various applications**; (ii)** Biomimetic and bioinspired membrane. Her academic excellence was recognized by numerous scholarships and academic awards from North American institutions.

Title: Magnetic surface simulate from DFT approach

Sergio R. de Lazaro
State University of Ponta Grossa, Brazil

Sergio Ricardo de Lazaro has him expertise in DFT simulations applied in chemistry of materials in bulk and surface dimensions to improve electronic, magnetic and structural properties. He is professor in State University of Ponta Grossa since 2006, he created the chemical simulation group in department of Chemistry. He has participated as referee in many scientific journals and has 54 manuscripts published in reputed journals.

SPEAKER SLOTS AVAILABLE

Title: Modelling of Microbiologically Influenced Corrosion (MIC) of Metallic Alloys in Seawater by Electrochemical Impedance Spectroscopy in a Nano-meter Scale

Khaled Habib
Materials Science and Photo-Electronic Lab,Kuwait

The main purpose of this study was to model the growth of the marine bio-film, of micro/macro-organisms, on the surface of two metallic alloys in seawater by electrochemical impedance spectroscopy (EIS). The alloys used in this study were; UNS 1020 carbon steel and stainless steel 304. The EIS was used to measure the double layer capacitance (C_{dl}) of the formed bio-film in seawater on a frequent basis. The total exposure time of the tests was ranged between 90 days to 180 days.

Title: Indium doping effects of CdSe nanocrystalline films for solar cell applications

N.J.Suthan Kissinger
Jubail University College, Saudi Arabia

N.J.Suthan Kissinger has completed his PhD at the age of 31 years from Bharathiar University, India and postdoctoral studies from Chonbuk National University, School of Advanced Materials Engineering, South Korea. He is currently working as an Assistant Professor in Physics in Jubail University College, Saudi Arabia. He has organized many conferences and published more than 25 papers in reputed journals and has been serving as an referee for many reputed journals. He has been teaching for more than 15 years.

Title: Glycerol carbonylation with CO_2 to producing the glycerol carbonate over metal oxide nanoparticle catalyst and the influence of both the calcination temperature of the catalyst and the reaction parameters

Jassim Mohamed Hamed Al-Kurdhani
Huazhong University of Science and Technology,China

Jassim Mohamed Hamed Al-Kurdhani has completed his Master degree at 2004 from Baghdad University and PHD studies from Huazhong University of Science and Technology-School of Chemistry and Chemical Engineering at 2017. He is the director of Industrial research and development directory - Ministry of sciences and technology, Baghdad - Iraq. He has published more than 10 papers in reputed journals and has evaluated and reviewed more than 20 patents in Iraq.

SPEAKER SLOTS AVAILABLE

Title: Li Metal Anode Protection in Safe Rechargeable Batteries

Qiang Zhang
Tsinghua University,China

Dr. Qiang Zhang is a full professor at Department of Chemical Engineering, Tsinghua University, China. His current research interests are advanced energy materials, including lithium metal anode, lithium sulfur batteries, and electrocatalysis. He is editor of Journal of Energy Chemistry, Guest Editor of Advanced Functional Materials (Li-S batteries) and Energy Storage Materials (Li metal anode). His citation is over 16000 times and his h-index is 71.

Title: Emerging material from iron ore slime for heavy metal remidiation

Supriya Sarkar
R&D, Tata Steel Ltd

Supriya Sarkar has completed his PhD in 1990 from Visva Bharati University and postdoctoral studies from Wuhan University. He is the Head of Environment Research Group, R&D Tata Steel Ltd. having more than 25 years of industrial experience. He has published more than 30 papers in reputed journals and has more than 20 patents.

Title: Radiation Damage to Fe-Superconductors by 1.5 MeV Ar-beam

Udayan De
University of Erlangen-Nurnberg, Germany

Udayan De completed PhD of Calcutta University in 1978 from IACS, Kolkata, India. He worked as a Humboldt Fellow in nuclear solid state physics in the University of Erlangen-Nurnberg, Germany. For 1982-2010, he served the Department of Atomic Energy (DAE), Government of India, as a Scientist specializing in Superconductivity, Radiation Damage and other Materials Science topics. Then he has been guest professor in engineering and science institutes, and research collaborator of DAE and university laboratories. With about 100 journal publications and other papers, he has been PhD guide and PhD examiner for several universities, and also on editorial boards.

SPEAKER SLOTS AVAILABLE

Title: Thermal Oxidation and Degradation of benzoxazine-epoxy

Ruchi Patel
California State University,USA

Thermal oxidation of the benzoxazine-epoxy resin system differing mixture compositions was studied. The cured specimens were aged at 180ºC and 200ºC in air circulating oven for various durations. The changes in the thickness of oxidized layer, weight, and volume of oxidized specimens were recorded and the results were compared with similarly aged specimens made from epoxy/amine system with similar glass transition temperatures. Light microscopy was used to monitor the initiation of the oxidation-induced surface cracking and the crack number density. Dynamic Mechanical Analyzer (DMA) was used to monitor the glass transition temperature and dynamic modulus of specimens after thermal aging.

Title: Physical Properties of ZnSe thin films by High Vacuum Resistive Coating Technique

Nazar Abbas Shah
COMSATS University

Dr. Nazar has completed his PhD at the age of 42 years from Quaid-e-Azam University Islamabad Pakistan. He is the Associate professor of Physics at COMSATS University Islamabad. He has published more than 68 papers in reputed journals and has been serving as an editorial board member of repute Journal of Crystal Growth.

Title: E-BABE- Sol-gel mediated microwave synthesis of Fe_3O_4-GO composites a promising robust catalyst material for oxygen reduction reaction

Kashinath Lellala
University of Mysore

Kashinath Lellala has completed his PhD in Materials Science from University of Mysore, and M.Phil in Physics from Alagappa University and Master of Physics from Kakatiya University. He has published 24 papers in reputed journals and presented several paper in national and international conference in india and aboard. He is serving as an editoral board of Americal Journal of Physics and applications, SCIREA journal of Materials, and International journal of Advanced Research in Science and Engineering.

SPEAKER SLOTS AVAILABLE

Title: Dielectric relaxation and ac conductivity of Nano Sized Polyaniline–Cobalt Oxide composites

Narsimha Parvatikar
APS College of Engineering

Narsimha Parvatikar received his BSc degree and MSc degree in Physics from Gulbarga University, Gulbarga respectively. He received his PhD degree in Physics in from Gulbarga University by working on Nano sized Conducting Polyaniline and its composites. He has been teaching Physics at APS College of Engineering, Somanahalli, Bangalore, India for the past 15 years. His main field of current scientific interest is Synthesis Characterization of conducting polymers for sensors applications, polymers for electronics and battery applications.

Title: Changes in Electronic and Magnetic Properties of Few- Layered MoS_2

Sweety Sarma
University of South Africa

Dr.Sweety Sarma has completed her PhD in in Electronics and Communication Technology from Gauhati University,India and postdoctoral studies in Physics from University of South Africa,School of Science. She has published original research papers in reputed journals and has reviewed scientific papers in accredited journals.

Title: BIG RETURN OF THE DECEASED ION-EXCHANGER IN THE FIELD OF NANOTECHNOLOGY AS A PART OF TERNARY NANO-COMPOSITE COMPRISING OF FUNCTIONALISED CARBON NANOTUBES, PANI AND ZIRCONIUM MOLYBDATE (ION-EXCHANGER)

Yashfeen Khan
Aligarh Muslim University

Yashfeen Khan is a doctoral second year student in the PhD program, Nanoscale Material Science, Department of Chemistry at Aligarh Muslim University, Aligarh. India. Her main research interest centers around Carbon-dots and the development of carbon nanotubes based new Nano-composites their characterization by SEM, TEM, AFM, NMR, FTIR, RAMAN, XRD and TGA-DTA and various other techniques. She has presented her work in 10 National and International conferences and assisted 6 Masters Projects. She has been an Active Member of renowned organizations: ''CASFGS''(Protection of Sexual Harassment Society), AMU, Aligarh, "ECO CLUB", AMU , Aligarh. Active Member of Drug society "Registered as a charity by GOVT. of UP, Regd no. 1817 and Soch Beyond Imagination, AMU, Aligarh.

SPEAKER SLOTS AVAILABLE

Title: Mechanical and Wear behavior of Polylactic Acid Matrix Composites Reinforced with Crab-Shell Synthesized Chitosan Particles

Daramola Oluyemi Ojo
Federal University of Technology

Engr. Dr. Oluyemi Ojo Daramola is a registered Engineer, a gifted scholar and a lecturer in the department of Metallurgical and Materials Engineering, Federal University of Technology, Akure, Ondo State, Nigeria. He currently works as a postdoctoral research fellow at the department of Chemical, Metallurgical and Materials Engineering (Polymer Divission), Tshwane University of Technology, Pretoria, South Africa. He is interested in Composite materials development (PMC and MMC), Nanotechnology, Physical Metallurgy, Materials Design and Characterization and Mechanical Behaviour of Materials. He has published more than 27 articles in reputed journals and has been serving as reviewer of academic and professional journals.

Title: Upshot of MHD nanoliqiuid flow with impacts of heat generation/absorption near a stagnation point past an exponential stretched surface

Muhammad Ramzan
Bahria University

Dr. Muhammad Ramzan (Professor) has completed his Ph.D. from Quaid-i-Azam University, Islamabad, Pakistan in 2010. He is the Senior Professor (Mathematics) and has a vast experience of 24 years teaching/research in varied educational institutions. He has published more than 55 papers in reputed International journals.

Title: Toward understanding the anticorrosive mechanism of neutral and protonated forms of some macrocyclic polyether compounds for the iron surface, in vacuum and aqueous solution

Anass Mahsoune
University of Chouaib Doukkali

Density Functional Theory (DFT) calculations and molecular dynamic simulations (Monte Carlo) approach, in vaccuo and aqueous solution, were performed. Firstly, quantum chemical parameters such as the highest occupied molecular orbital energy (E_{HOMO}), lowest unoccupied molecular orbital energy (E_{LUMO}), the energy gap between E_{LUMO} and E_{HOMO} (ΔE), chemical hardness, softness, proton affinity, and global nucleophilicity were calculated by B3LYP/6-31G** method. Then, binding energies on Fe (111) surface with the n-MCTH derivatives were performed to investigate the strength of their interactions with iron surface. Our results showed that the inhibition efficiency of these derivatives increase with increases of oxygen's number on the molecules, the electronic and geometric proprieties favor the better reactivity of 5-MCTH than the other molecules.

SPEAKER SLOTS AVAILABLE

Title: Chemical Nano Metallurgy with Structural and Behavioral Anisotropy

Zahoor Ahmad
Mirpur University of Science and Technology

Zahoor Ahmad did PhD from Beijing University of Chemical Technology (BUCT), Beijing PR China. His major was material science and engineering focused on material chemistry. He carried out his research work in domain of composite materials. His main work was synthesis of Ag@polycarzole and Ag@polypyrrol nanocables, their characterization, and properties determinations. Polyol and microwave assisted polyol synthesis was technique, employed for preparation of nanostructure. He published his first work in Journal of Material Science, springer publisher in 2009.During post PhD he optimized nano system for microarrays fabrication and nanocatalysis. He successfully reduced nitro group in amino groups for organic synthetic reactions. He also designed ZnO and Cu based semi conducting materials and determined water splitting character of photocatalyst. Currently, he is working on synthesis of nano metals, polymer modification and organic synthesis.

Title: Analysis of heat transfer in a closed cavity ventilated inside

Benseghir Omar
Energetic thermal Department,USTHB

In this work, we presented a numerical study of the phenomenon of heat transfer through the laminar, incompressible and steady mixed convection in a closed square cavity with the left vertical wall of the cavity is subjected to a warm temperature, while the right wall is considered to be cold. The horizontal walls are assumed adiabatic. The governing equations were discretized by finite volume method on a staggered mesh and the SIMPLER algorithm was used for the treatment of velocity-pressure coupling. The numerical simulations were performed for a wide range of Reynolds numbers 1, 10, 100, and 1000 numbers are equal to 0.01,0.1 Richardson, 0.5,1 and 10.The analysis of the results shows a flow bicellular (two cells), one is created by the speed of the fan placed in the inner cavity, one on the left is due to the difference between the temperatures right wall and the left wall. Knowledge of the intensity of each of these cells allowed us to get an original result.

Title: Synthesis and characterization of Co-doped CeO2 Electrolvte Material for LTSOFC

Muhammad Ashfaq Ahmad
COMSATS University

M Ashfaq Ahmad has completed his PhD at the age of 31 years from Harbin Institute of Technology China. He is working as an associate professor at COMSATS University Islamabad, Lahore Campus and Head of department of Physics. He has published more than **75** papers in well reputed journals and has the accumulative impact factor more than 160 with 2000 plus citations. He is the leader of Quantum, Optical and Photonic Devices research group.

SPEAKER SLOTS AVAILABLE

Title: Synthesis, structural and electrical investigation of nano-structured electronic /onic cathode for LTSOFC

Ghazanfar Abbas
COMSATS University

Dr. Ghazanfar Abbas has completed his Ph.D. in 2013 in the field of Nanocomposite Materials for Energy Conversion Applications (Solid Oxide Fuel Cells). Currently, he is working as Assistant Professor in the Department of Physics, COMSATS University Islamabad, Lahore Campus, Lahore-54000, Pakistan and involved in teaching graduate undergraduate classes. I have joined Clean Energy Reseach Lab and orking in the field of fuel cell technology with nano-engineering technique. I have a professional skill to synthesize the materials by different techniques; solid state reaction, co-precipitation, sol-gel, wet-chemical root and auto-clave techniques and well known knowledge of XRD, EDX, SEM, TEM, and TGA analysis.

Title: Omnidirectional Reflection Band in Multilayered 1-D Photonic Crystal Structure using Graphene Films

Sonia Bansal
YMCA University of Science and Technology

Dr. Sonia Bansal completed her MSc and PhD in Physics from JamiaMilliaIslamia, New Delhi, where she worked on Spectroscopic studies of Buckminsterfullerene. In 2005, she joined YMCA University of Science and Technology, Faridabad, India, where she is currently a faculty member in Physics at YMCAUST, Faridabad and developed the Nano Research Laboratory. Her research interests include the study of optoelectronic properties of ZnO, Application of defected CNT and Graphenes. She received the research grant for structural analysis of doped and undoped ZnO nano structures from Department of Science and Technology(DST). Apart from this, she is having M.Tech. degree in Computer Engineering and working on Theoretical & Computational Studies of Nano-structural materials.

Title: Smart Autonomous kinetic Shading Systems: An approach towards acknowledging the materials performative capacities

Samar H. ElTahhan
Alexandria University

Samar ElTahhan has completed her Masters Degree (M.Sc.) in 2014 from Alexandria University and is currently a PhD candidate in Alexandria University, Faculty of Engineering. She is an assistant Lecturer in the Department of Architecture.

SPEAKER SLOTS AVAILABLE

Title: Hot deformation studies of low alloy steel through thermo-mechanical processing

Sumeer Kumar Nath
Indian Institute of Technology
Roorkee

Presenting author is Professor in the Department of Metallurgical and Materials Engineeing, Indian Institute of Technology, Roorkee, India. He has 37 years of teaching and research experience. He has 62 reseach papers in peer reviewed national and international journals and 65 papers in national and international conferences. He has guided 15 Ph.D. dissertations.

Title: Toluene Assisted Synthesis of ZIF-11 and Multi-Core-Shell AgNPs@ZIF-11 composite: As an Effective Photocatalyst for Degradation of Industrial Pollutants

Mala Nath
Indian Institute of Technology
Roorkee

Mala Nath completed her PhD from Lucknow University in 1980 and became a lecturer in 1981 in University of Roorkee, India. She became a professor in 2001 at Indian Institute of Technology Roorkee, India. She has published more than 120 papers in reputed journals, 4 review articles, several book chapters of repute, a book on Inorganic practicals. She delivered a planery lecture at Mauritius University and several invited lectures in international/national conferences.

Title: Studies on water absorption of jute reinforced polyester composites

Djamel Djeghader
Mohamed Seddik Ben Yahia University

Djamel Djeghader has completed his PhD at the age of 35 years from Badji Mokhtar Annaba University. Bidirectionel reinforced jute polyester composite plates were manufactured by the contact molding method. These plates were cut to rectangular sample (80x15x4) mm and immersed in water in order to study the water absorption behavior for several immersion time (1, 10, 30, 90, 180 and 270 days). The jute / polyester composite material has a water saturation limit after an immersion period of about 30 days with a Fickian diffusion of water in the composite.

SPEAKER SLOTS AVAILABLE

Title: Microfluidic based glucose biosensor using Prussian Blue modified screen-printed electrodes

Vinoth
Central Electrochemical Research Institute

A biosensor is developed using screen printed electrode integrated with microfluidic membrane for glucose monitoring from human blood samples. The two-electrode system having carbon working electrode and silver reference electrode is screen printed on a flexible polyester substrate. The polyvinyl pyrrolidone (PVP) stabilized Prussian Blue nanoparticles (PBNPs) are used for selective determination of hydrogen peroxide which produced as a result of the glucose oxidase (GOx) enzyme catalysed oxidation of glucose.

Title: DETECTION OF ACETONE IN DIABETES MELLITUS USING GAS-CHROMATOGRAPHY MASS SPECTROMETRY AND TUNGSTEN OXIDE BASED SENSOR

Valentine Saasa
CSIR National Centre for Nano-Structured Materials

Valentine Saasa is a PhD candidate at the Council for Scientific and Industrial Reseach. Her research focus on development of nanostructured material for diagnosis and monitoring of diabetes mellius. She obtained her masters degree in biochemistry at the University of Johannesburg in 2016.

Title: Influence of Oxygen Molecular on Electrical Performance of Multilayer WSe_2 TFT

Tien-Hsin Peng
National Taiwan University

Tien-Hsin Peng was born in Taipei, Taiwan in 1995. She received the B.S. degree in electrophysics from the National Chiao Tung University, Hsinchu, Taiwan in 2017. Recently, she is working toward the M.S. degree in electronics engineering at the National Taiwan University, Taipei, Taiwan. Her research focuses on fabricating high-performance thin-film transistor by using two-dimentional semiconductor material.

SPEAKER SLOTS AVAILABLE

Title: Elaboration of a nanocomposite with Zinc oxide and zeolite: influence of the concentration

Fatima Belhadj
Université Hassiba Ben Bouali

There is a limited literature on the encapsulation of a semiconductor ZnO within pores of zeolite. Some of the recent works made the object of a manufacturing investigation of nanoparticles of ZnO supported by the zeolite and their performance in terms of cathodic luminescence so effective as photocatalysts, and resistant circles in ultraviolet rays with antimicrobial properties. ZnO nanoparticles deposited on the zeolite HY by electrochemical method was estimated for the photodiscoloration of blue methylene. In this work, a semiconductor of ZnO nanoparticles with deferent concentrations inside EMT nano-zeolite (polymorph of the zeolite Y) was prepared in soft conditions and rich sodium medium. In a first step, we synthesized the nano-zeolite EMT by hydrothermal method. In a second step, the Zn^{2+} ions were fixed on the zeolite by ion exchange process, then the precipitation of zinc with sodium hydroxide are perforned and finally a calcination at 500°C.

Title: THE THEORETICAL STUDY OF THE ELECTRONIC, MAGNETIC AND ELECTRICAL PROPERTIES OF Mn2FeReO6 USING THE Ab-intio CALCULATION AND MONTE CARLO SIMULATION

Kibbou Moussa
University of Moulay Ismail

In this paper, we conducted a theoretical study of the electronic, electrical and magnetic properties of double perovskites (DP) Mn2FeReO6 with a high Curie temperature so far in magnetic oxides, using several methods such as AB-initio methods and methods of Statistical Physics like Monte Carlo Simulations (MCS). However, the first principle calculations showed a half-metallic behavior from the density of stats and band structures calculation, using PBE+U (apply on the elements Mn,Fe and Re respectively). The critical temperature obtained by Monte Carlo simulation is in a good agreement with the experimental results.

Title: Preclinical safety of topically administered nanostructure lipid carriers (NLC) indicated for wound healing: biodistribution and toxicity studies

Claudia Vairo
BioPraxis Research AIE, R&D Department

Claudia Vairo has completed his Degree in Pharmacy (2012) from University of Salerno and a Second level master's in pharmacology from University of the Basque Country (2015). She works as R+D researcher in BioPraxis Research AIE pharmaceutical company and she is completing her PhD studies in Pharmaceutical Technology, in collaboration with NanoBioCel Group from University of the Basque Country. She has published 2 papers in reputed journals concernig medical devices, such as lipid nanoparticles, especially nanostructured lipid carrier (NLC), and gelatin scaffolds, for the treatment of wound healing. Her investigation is recently focused on NLC Nano safety.

SPEAKER SLOTS AVAILABLE

Title: Phase-Engineered Weyl Semi-metallic MoxW1-xTe2 Nanosheets as a Highly Efficient Electrocatalyst for Dye-Sensitized Solar Cells

Shemsia Mohammed Hudie
National Taiwan University

Shemsia M. Hudie has completed her MSc in Nanoscience and Nanotechnology from University of Rovira I Virigilli School of Chemical Engineering. She is currently doing her PhD in Nanoscience and Nanotechnology at National Taiwan University. Her research interest is emerging advanced materials and nanotechnology.

Title: Structure, physicochemical, and biological properties of gold-chitosan nanocomposite (CS_Au NPs) coatings deposited on shape memory NiTi alloy

Piotr Jabłoński
AGH University of Science and Technology

Eng. Piotr Jabłoński is a MSc student of Biomaterials and Composites speciallity at AGH University of Science and Technology. Part of the presented work was obtained within the implementation of his research project "Bioactive chitosan layers on the plasmochemical activated surface of NiTi alloy" under the supervision of DSc. PhD. Eng. Karol Kyzioł, who carries out the research on improving the surface properties of materials for implantology.

Title: Electrical and optical properities of graphene quantum dots via the different transfer times

Wei-Xiang Fu
National Cheng Kung University

In recent years, graphene materials get more and more attention and generate plenty of application nowadays. Therefore, we make the research about graphene quantum dots (GQDs). GQDs are grown on the surface of copper foil by chemical vapor deposition (CVD)[1]. CVD is a method that can be produced on a large scale. First of all, GQDs were transferred onto the glass by the wet transfer method. we have to do the experiments to make sure the quality of graphene materials by the Raman spectroscopy. After that, we can observe the mirostructure of GQDs by Transmission Electron Microscope (TEM) and then realize how many GQDs we obtain in our sample. Under the same condition of CVD, we improve the density distribution of GQDs with multiple layers of GQDs via different times of transfer. The effects of GQDs density formed in the indium tin oxide (ITO) / glass on the electrical and optical properties are evaluated.

SPEAKER SLOTS AVAILABLE

Title: Magnetocaloric investigation in microspheres of 0.95 (La0.45Nd0.25Sr0.3MnO3)/0.05CuO composite Materials prepared by spray drying

FKHAR LAHCEN
Cadi Ayyad University

FKHAR Lahcen is a PhD student from cadi ayyad University Marrakech Morocco, he work on collaboration with MAScIR fondation at Rabat, the subject work of fkhar are magnetic materials and magnetocaloric effect of magnetic materials, He has published 5 papers in reputed journals. the works of fkhar does not finishid and he has others works in proccessing.

Title: Experimental investigation of structural and magnetic properties of $CoFe_2O_4$ nanopowder for permanent magnet application

Brahim Abraime
Innovation and Research (MAScIR)

Brahim Abraime is preparing his PhD at MAScIR foundation and at the faculty of science Rabat. He is working on the developpment and valorization of spinel and hexagonal ferrites for permanent magnet application, using different synthesis methods such as: solid state reaction and sol-gel auto combustion. He has three papers in this research area (in Ceramics International (Impact Factor=3) and Journal of Magnetism and Magnetic Materials (Impact Factor=3)).

Title: Formation of refractory metal borides during mechanical alloying

Savyak
National Academy of Sciences of Ukraine

Refractory compounds borides were shown to form during mechanical alloying through the following mechanisms: a) mechanically induced self-propagating reaction; b) formation of new phase nuclei and their growth and c) formation of interstitial boron-in-metal solid solutions, their subsequent decomposition and the appearance of the MeB2 phases. The mechanism of mechanically induced self-propagating reaction is determined by the enthalpy of refractory compound formation and the ability of substitution solid solution formation

SPEAKER SLOTS AVAILABLE

Title: Synthesis, structural characterization and luminescent properties of Tb3+- doped AgLaP2O7 phosphors

Wafa HAMI
Cadi Ayyad University

Wafa HAMI is a 29 years old PhD student, from Cadi Ayyad university- Faculty of science. she is working on luminescent materials based on pyrophosphates activated by lanthanide ions. in the meantime, she holds a contract position as a teacher of inorganic chemistry at the same Faculty of science.

Title: Optimization of Preparation Conditions of Novel Catalyst from two phase olive mill wastes for Removal of Methylene Blue by heterogeneous Fenton oxidation

Zaina IZGHRI
University Cadi Ayyad

Zaina IZGHRI was born in Sidi Ifni city (Morocco), in 1990. She is a PhD student in applied organic chemistry laboratory, faculty of science semlalia, University Cadi Ayyad Marrakesh, under the supervision of professors Abdelrani YAACOUBI, Layla ELGAINI and Abdelaziz BACAOUI.

Title: Thermoelectric Properties of Polyol Method Synthesized Cu2Te Nanoparticles

Chanderbhan Chotia
UGC DAE Consortium for Scientific Research

Crystalline, morphological and dynamic light scattering studies of copper telluride nanoparticles (NPs) synthesized successfully using diethylene glycol have been carried out. X-ray diffraction (XRD) measurements confirm phase purity and hexagonal crystal structure of the NPs. The crystallite size evaluated using Scherer formula is 34 nm. Field emission scanning electron microscopic study confirms the disc-like shape of average size 45 nm NPs, slightly bigger than that of Scherer size.

SPEAKER SLOTS AVAILABLE

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Biography

Title: Sunlight- driven photocatalytic hydrogen production from water using metal-doped Strontium Titanate perovskite

Pushkal Sharma
Indian Institute of Technology Roorkee

Pushkal Sharma is an undergraduate student at Indian Institute of Technology Roorkee. His interests include energy materials with a focus on battery and photocatalysis.

SPEAKER SLOTS AVAILABLE

Berlin Attractions



Glimpses of Emerging Materials Conferences

















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Day 1 March 22, 2018

Registrations

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Opening Ceremony

Keynote Forum

Introduction

Title: Polymer-enhanced biomacromolecular systems

Alan J. Russell, Carnegie Mellon University, USA

Networking and Refreshments Break

Title: Dielectrophores: Non-linear capacitor materials. Experiment and theory

Pavel Lazarev, Capacitor Sciences Inc., USA

Title: Carbon overlayer from hydrocarbon precursors: Electron-beam-induced deposition/removal

Ludek Frank, Czech Academy of Sciences, Czech Republic

Sessions: Surface Science and Engineering | Energy Materials | Materials and Devices

Session Chair: Alberto Tagliaferro, Politecnico Torino, Italy

Session Co-Chair: Yukishige Kondo, Tokyo University of Science, Japan

Session Introduction

Title: Active demulsification of stable emulsions using light

Yukishige Kondo, Tokyo University of Science, Japan

Title: Morphogenic mussel inspired self-construction of versatile enzymatic biosensors by electrochemistry

Janwa El-Maiss, Université de Strasbourg, France

Group photo

Lunch Break

Title: Photoelectrochemical characterization of lead-based hybrid perovskite semiconductors

Sam HY HSU, City University of Hong Kong, China

Title: A redox active self-assembled monolayer both a sensor and actuator

Cesar Pascual Garcia, Luxembourg Institute of Science and Technology (LIST), Luxembourg

Sessions: Advanced Materials | Next-Generation Materials | Emerging Materials for Energy Storage

Session Chair: Hemalatha Parangusan, Qatar University, Qatar

Session Introduction

Title: Enhanced dielectric properties and energy storage performance of PVDF nanocomposites containing ferromagnetic metals doped ZnO nanoflowers

Hemalatha Parangusan, Qatar University, Qatar

Title: Discrete element simulation on the ordered array of carbon fiber with ultrasonic vibration assisting in SLS

Yuanqiang Tan, Huaqiao University, China

Title: Application of cyclohexeno-1, 2, 3-selenadiazole via extrusion of selenium in synthesis of copper indium diselenide

Pawan K Khanna, Defence Institute of Advanced Technology, India

YRF: Molecule doping strategy and its application for Mn doped CsPbClxBr3-x nanocrystals

Guangguang Huang, Southeast University, P. R. China

Networking and Refreshments Break

Panel Discussion

Day 2 March 23, 2018

Hall @ Atlantis 2

Keynote Forum

Title: Nonlinear polarizability in dielectrophores
Pavel Lazarev, Capacitor Sciences Inc., USA
Title: Fluid/solid interface processes associated with emerging materials
Dimitris Drikakis, University of Strathclyde, UK
Title: Biochar as a green filler improving polymer composite properties
Alberto Tagliaferro, Politecnico Torino, Italy

Networking and Refreshments Break

Sessions: Nanotechnology in Materials Science | Biomaterials and Tissue Engineering | Materials Chemistry and Physics

Session Chair: Frederic Dumur, Aix Marseille University, France

Session Introduction

Title: On-surface synthesis of aligned functional nanoribbons monitored by scanning tunnelling microscopy and vibrational spectroscopy
Frederic Dumur, Aix Marseille University, France
Title: The Influence of tuning the particle size of titania-supported palladium nanoparticles on their catalytic activity for liquid phase transfer dehydrogenation of 1-phenylethanol
Reem AlBilali, Imam Abdulrahamn Bin Faisal University, Saudi Arabia
Title: A review on the characterization of the enthesis (osteotendon junction)- from classic histology to approaches in materials science and engineering
Mary E. Craig, Oakland University, USA
Title: The effect of SiO_2 particle size on hemostatic properties of a novel hybrid as a styptic for severe bleeding
Maryam Chenani, Islamic Azad University, Iran
Title: Antimicrobial activity of electrodeposited copper coating on double zincated aluminium plate
Rajendra Udupa, National Institute of Technology Karnataka, India

Lunch Break

Title: Investigation of structural and electrical properties of manganese doped ZnO varistors prepared from nanopowders
Kamel Guergouri , University Larbi Ben M'Hidi of Oum El Bouaghi, Algeria
Title: Carbon nanocoils: Synthesis, properties and applications
Lujun Pan, Dalian University of Technology, China

Young Research Forum

Title: (PANI-PTSA) & $CoFe_2O_4/Co_{0.5}Zn_{0.5}Fe_2O_4$ - Nanocomposite absorption materials prepared for EMI shielding in microwave X-band
Jameel M. A. Sulaiman, University of Mosul, Iraq
Title: Size-tunable CsPbBr3 perovskite ring arrange for stable and ultralow threshold laser
Jingkun Xu, Southeast University, China
Title: Organomineral sorbents based on chitosanferrocyanide for extraction and concentration of Cs-137 from seawater
Tokar Eduard, Far Eastern Federal University, Russia

Sessions: Materials Applications

Session Chair: Zheng Cui, Suzhou Institute of Nanotech and Nanobionics, China

Session Introduction

Title: Potential use of quarry waste as construction and building material: A review
Ajay Singh Jethoo, Malaviya National Institute of Technology, India

Networking and Refreshments Break

Title: Applications of inorganic nanomaterials for printed electronics
Zheng Cui, Suzhou Institute of Nanotech and Nanobionics, China
Title: Processing & characterization of eco-friendly interlock construction blocks for earthquake regions
Safeer Ahmad Arbab, Islamia College Peshawar, Pakistan
Title: Influence of rare earths on the electromechanical coupling factor and operating temperature of strontium bismuth titanate
P.Sarah, Vardhaman College of Engineering, India

Poster Presentations

EMC-01	**Title: Stress modification in praseodymium fluoride thin films through admixture with barium fluoride** **Bin Li,** Shanghai Institute of Technical Physics, Chinese Academy of Sciences, China
EMC-02	**Title: Preparation of graphene oxide reinforced sol-gel polishing film with enhanced mechanical strength** **Jing Lu,** Huaqiao University, China
EMC-03	**Title: Review of ultrasonic additive manufactured metal composite materials** **Changcai Cui,** Huaqiao University, China
EMC-04	**Title: Nanodiamond-supported crystalline TiO_2 nanoparticles synthesized via one-step isothermal hydrolyzing method and its nitrite electrooxidation** **Xipeng Xu,** Huaqiao University, China
EMC-05	**Title: Tensile property and deformation mechanism of novel γ'-Co_3(Al, W) strengthened Co-Al-W-Mo-Ta-B-Ce alloys** **Jiangbo Sha,** Beihang Uniersity, China
EMC-06	**Title: Microstructure and properties of aluminium elements selected for the medical cabin construction** **Agata Sotniczuk,** Warsaw University of Technology, Poland
EMC-07	**Title: The effect of the microstructure and surface topography on acoustic properties of the composites for the lightweight medical cabins** **Donata Kuczynska,** Warsaw University of Technology, Poland
EMC-08	**Title: Fabrication of high thermal conductive diamond/copper composites and their joining with substrates** **Cheng-Ying Lee,** National Tsing Hua University, Taiwan
EMC-09	**Title: A wearable strain sensor based on carbon nanocoils** **Chenghao Deng,** Dalian University of Technology, China

Awards & Closing Ceremony

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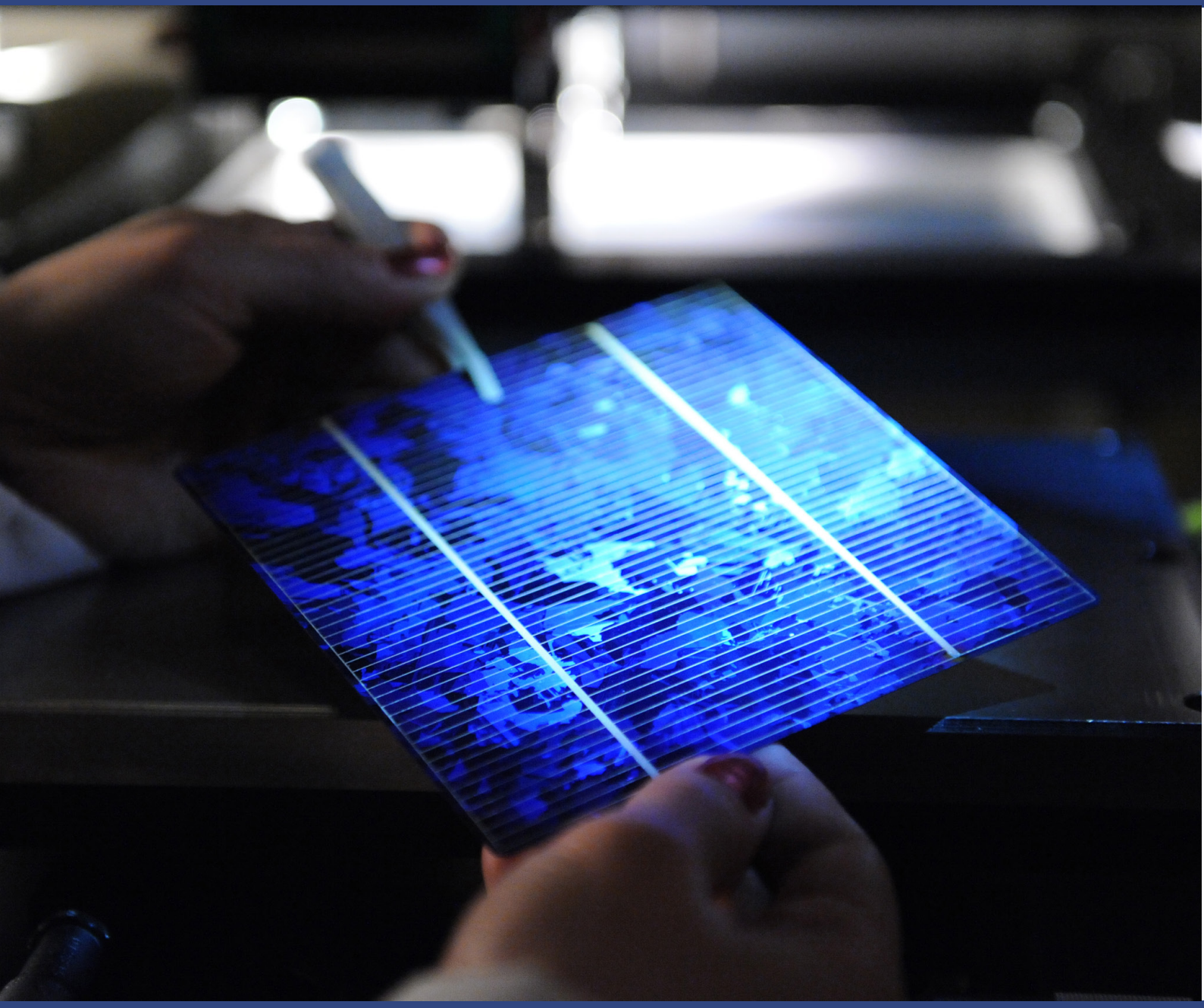
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Opening Ceremony

Keynote Forum

Introduction

Title: Investigating materials formation with liquid-phase TEM
Jim De Yoreo, University of Washington, USA

Title: ISO-standards 14577 violate the first energy law: Can we further live with that?
Gerd Kaupp, University of Oldenburg, Germany

Title: New concept of bioresorbable polymer-based ceramic hybrids for cardiovascular stent applications
Xiang Zhang, University of Cambridge, UK

Title: Graphene flake and graphene quantum dot-receptor sensor for detecting nerve agents
Hyoyoung lee, Sungkyunkwan University, Republic of Korea

Coffee Break

Sessions:
Materials Science and Engineering | Materials in Industry

Session Chair: Hyoyoung lee, Sungkyunkwan University, Republic of Korea
Session Co-Chair: Nekane Guarrotxena, Spanish National Research Council, Spain

Session Introduction

Title: Smart functional nanoscale-hybrid materials: Surface modification and applications
Nekane Guarrotxena, Spanish National Research Council, Spain
Title: Ductile behavior of hard MoBC and WBC nanolaminated coatings
Petr Vasina, Masaryk University, Czech Republic
Title: Dynamics of single ions and molecules at the surface of solids in solution
Kislon Voitchovsky, Durham University, UK
Title: Design and evaluation of new ligands with highly extractability and selectivity for palladium from secondary raw material
Emad Mowafy, University of Hail , Saudi Arabia
Title: Evaluating mechanical properties of complex material structures from a new combination of calotte grinding and indentation tests
Nick Bierwisch, Saxonian Institute of Surface Mechanics, Germany
Title: Optimizing electrical conductivity and optical transparency of IZO thin film deposited by radio frequency (RF) magnetron sputtering
Lei Zhang, Winston Salem State University, USA
Title: Fabrication, optical and thermal properties of glass and crystalline rare-earth aluminates
Vijaya Kumar, University of Mysore, India
Title: Effect of process parameters and post heat treatment in the development of microalloyed HSLA tubes for torsional applications
Thendralarasu Udhayakumar, Tube Investments of India Ltd, India

Lunch Break

Title: Effect of process parameters and post heat treatment in the development of microalloyed HSLA tubes for torsional applications
Elakkiya Mani, Tube Investments of India Ltd, India
Title: Graphite based minimum quantity dry lubrication at drilling CFRP
Robert Beckenlechner, University of Stuttgart, Germany

Title: Insights into linear supramolecular polymer formation via TPE and BODIPY containing host-guest interaction
Chinmayananda Gouda, National Chiao Tung University, Taiwan

Sessions:
Nanomaterials | Biomaterials and Healthcare

Session Chair: Nikolay Ledentsov, VI Systems GmbH, Germany
Session Co-Chair: Yongmei Zheng, Beihang University, China

Session Introduction

Title: Recent progress in epitaxial quantum dots for lasers and light emitting diodes
Nikolay Ledentsov, VI Systems GmbH, Germany
Title: Functional metal-ceramic nanocomposites based on tubule clay
Yuri Lvov, Louisiana Tech University, USA
Title: Characterization of nanosuspension using pulsed field gradient nuclear magnetic resonance
Haruhisa Kato, National Institute of Advanced Industral Science and Technology, Japan

Coffee Break

Title: Engineering optical Raman active nanoassemblies for nanosensor purposes
Nekane Guarrotxena, Spanish National Research Council, Spain
Title: Mechanical and topographical characterization of biomaterials, cells and tissues by enhanced atomic force microscopy
Jörg Barner, JPK Instruments AG, Germany
Title: Soft thermal nanoimprint lithography
Mark Schvartzman, Ben-Gurion University of the Negev, Israel
Title: Bioinspired gradient surfaces with controlling of dynamic wettability
Yongmei Zheng, Beihang University, China
Title: EHDA technology utilizing different bio-structure
Rita Haj Ahmad, De Montfort University, UK
Title: Electrochemical and biosynthesis of Nano-Photocatalytic materials and its applications in photovoltaic, anti-bacterial, anti-cancer and in preparation of polymer composites
Sannaiah Ananda, University of Mysore, India
Title: Synthesis and characterization of single-crystal bismuth telluride nanowires
Ming Yau Chern, National Taiwan University, Taiwan
Title: Iriartea deltoidea & Socratea exhorriza: Sustainable production alternatives for integrated Biosystems, first stage - bioconstruction.
Lina Fernanda Mojica Sánchez, CIAM-UNIMETA, Colombia
Title: On-demand release of paclitaxel and 5-flourouracil using thermoresponsive poly(NIPAAm-co-HMAAm)/ polyurethane partnered with alternating magnetic field induced hyperthermia on non-vascular nitinol stent
Ludwig Erik Aguilar, Chonbuk National University, South Korea
Title: Reversible and irreversible self-folding behavior of water responsive poly (vinyl alcohol) films
Amrita Rath, Indian Institute of Technology Madras, India
Title: Doxorubicin conjugated Fe_3O_4-GQD nanoparticle for magnetically targeted and ph responsive drug delivery vehicle: a two way targeted approach
Ankan Dutta Chowdhury, National Chiao Tung University, Taiwan

Panel Discussion

Day 2 | February 21, 2017 | Tuesday

Sylt 3

Keynote Forum

Title: Hybrid photovoltaic-piezoelectric flexible device for energy harvesting from nature

Elias Siores, University of Bolton, UK

Title: The decomposition of the solution during the formation of eutectic composites

Alex guskov, Institute of Solid State Physics of RAS, Russia

Title: Designing topological states by pressure, strain and functionalization

Udo Schwingenschloegl, King Abdullah University of Science & Technology,Saudi Arabia

Title: Graphene/h-BN heterostructures based field effect transistors employing chemical vapor deposition grown h-BN as a dielectric layer

Dae Joon Kang, Sungkyunkwan University, Republic of Korea

Sessions:
Materials Chemistry | Materials Physics | Energy Materials

Session Chair: Claude Delmas, University of Bordeaux, France
Session Co-Chair: Zhiqiang Gao, National University of Singapore, Singapore

Session Introduction

Title: Solid state electrochemistry: A tool for synthesis and characterization of solids
Claude Delmas, University of Bordeaux, France
Title: Chemical effects on metals friction at the nanometer scale
Arnaud Caron, KoreaTech, Republic of Korea
Title: Graphene oxide supported layered double hydroxide hybrids: Synthesis and applications
Mohamed Mokhtar Mohamed Mostafa, King Abdulaziz University, Saudi Arabia

Coffee Break

Title: Approaches to reduce material consumptions in photovoltaics
Martha Ch. Lux-Steiner, Helmholtz-Zentrum Berlin, Germany
Title: Imaging electrons motion in semiconductor materials
Michael K L Man, Okinawa Institute of Science and Technology Graduate University, Japan
Title: Neutron scattering investigations of hydrogen storage in porous materials
Margarita Russina, Helmholtz Centre Berlin for Material and Energy Research, Germany
Title: Development of novel organic radical batteries
Shinichi Nakatsuji, University of Hyogo, Japan
Title: A dual-carbon phase modified and nanostructured nickel sulfide anode for sodium-ion batteries
Zhiqiang Gao, National University of Singapore, Singapore
Title: Hierarchical conducting polymers micro/nanostructures and their electrochemical energy conversion
Ying Zhu, Beihang University, China
Title: Environmental benign graphene quantum dots embedded halloysite nanotubes as high performance supercapacitor electrode material
Akhilesh Babu Ganganboina, National Tsing Hua University, Taiwan

Lunch Break

Sessions:
Metallurgy and Materials Science | Advanced Materials and Devices | Characterization and Testing of Materials

Session Chair: Mikhail Lebyodkin, CNRS, France
Session Co-Chair: Mihaela Albu, Graz Centre of Electron Microscopy, Austria

Session Introduction

Title: Development of solar grade silicon refining via metallurgical route: Thermodynamic properties of silicon based alloys
Kazuki Morita, The University of Tokyo, Japan

Title:Controlling microstructure via thermal science analysis during resistance spot welding
Peng-Sheng Wei, National Sun Yat-Sen University, Taiwan
Title: Light-induced superconductivity in an organic mott insulator induced by light-driven carrier doping
Masayuki Suda, Institute for Molecular Science, Japan
Title: Large tunnel magnetocapacitance in magnetic tunnel junctions
Hideo Kaiju, Hokkaido University, Japan
Title: Crack-closing of superelastic NiTi SMA short fibers in mortar beams
Eunsoo Choi, Hongik University, Korea
Title: Correlated versus random behavior of dislocations in jerky flow of Al-Mg alloys
Mikhail Lebyodkin, CNRS, France
Title: The development of smart materials for medical applications using laser scanning micrometry
Daniel Melling, University of Dundee, UK
Title: Quantum contact mechanics for holistic material optimization
Norbert Schwarzer, Saxonian Institute of Surface Mechanics, Germany

Coffee Break

Title: Magnetic characterization of the phase transformations during synthesis of the $FeWO_4$ nanoparticles using WS_2 nanotubess
Gregory Leitus, Weizmann Institue of Science, Israel
Title: Advanced alloys and steels microstructure characterization by analytical high resolution scanning transmission electron microscopy
Mihaela Albu, Graz Centre of Electron Microscopy, Austria
Title: Evaluation of liquid tin corrosion on austenitic steels as well as nickel-based alloys and first tests on possible protective surface layers at high temperature
Thomas Emmerich, Karlsruher Institute of Technology, Germany

Workshop

Title: Correlative and *in-situ* Materials Characterization
Said Mansour, Hamad Bin Khalifa University, Qatar
Mathias O. Mosig, Protochips, USA
Philipp Wachsmuth, JEOL, Germany

Session Introduction

Title: Optimization of sustainable cutting conditions in turning carbon steel by CNC turning machine
Haider M. Mohammad Albu-Swelim, University of Basrah, Iraq
Title: Enhancement the mechanical properties of aluminum casting alloys (A356) by adding nanorods structures from zinc oxide
Zaid S Qassim, University of Basrah, Iraq
Title: Prediction of hardness, yield strength, and tensile strength for single roll melt spinning of 5083 Al-alloy ribbons
Ahmad Kadhim Jassim Al-Dawod, University of Basrah, Iraq
Title: Comprehensive study of chemical synthesis and dielectric parameters of holmium substituted yttrium iron garnets (HoxY3-xFe5O12, x=0.1, 0.3, 0.6, 0.9, 1.2, 1.5) prepared by conventional ceramic method
Kausar Javed Khan, Lahore College for Women University, Pakistan
Title: Water content dependent mechanical properties of biopolymer thin films: A molecular dynamics study
Santhosh Mathesan, IIT Madras, India

Poster Presentations on Day 2 (February 21, 2017) 16:20-17:00 @ Sylt Foyer

MSC-01	**Title: Predictive wear modelling - The ultimate simulation tool for optimum tribo coatings** **Nick Bierwisch**, Saxonian Institute of Surface Mechanics, Germany
MSC-02	**Title: Synthesis and characterization of conductive polymer hydrogels and the investigation of their application as biosensor hybrid for catechol detection** **Ezer Castillo**, Adelphi University, USA
MSC-03	**Title:Dynamic response of a modified water tank exposed to concentrated solar energy** **Mohammed H. Alhamdo**, University of AlMustansirya, Iraq
MSC-04	**Title: Experimental study of the thermal behavior of heated natural composite material** **Qasim Saleh Mahdi**, AL-Mustansiryah University, Iraq

MSC-05	**Title: Engineering of multi-functional composite nano-particles to address anti-microbial resistance using EHDA particle technology** **Suleman Ramzan,** De Montfort University, UK
MSC-06	**Title: Rare earth Chalcogels NaLnSnS4 (Ln= Y, Gd, Tb) for Selective Adsorption of Volatile Hydrocarbons and Gases** **Fatimah Edhaim,** King Abdullah University of Science & Technology, SA
MSC-07	**Title: On the friction and wear on-set of fcc metals by atomic force microscopy** **Hui-Eun Ko,** KoreaTech, Republic of Korea

Panel Discussions

End Of Day 2

Closing Ceremony

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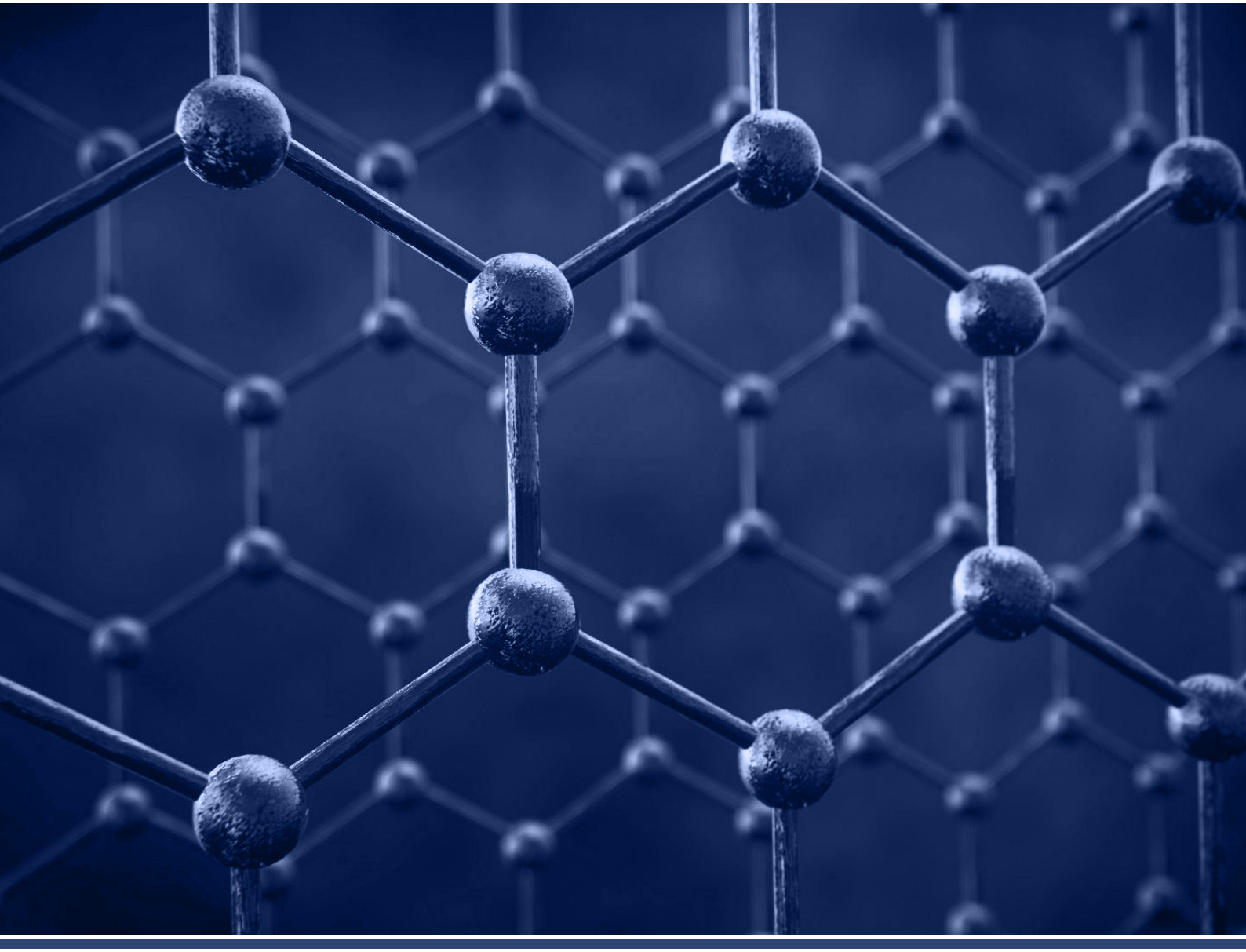
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Registrations

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Opening Ceremony

Keynote Forum

Introduction

Title: Direct recording of myosin head power and recovery strokes in hydrated myosin filaments provides evidence against the swinging lever arm mechanism in muscle contraction

Haru Sugi, Teikyo University Medical School, Japan

Title: The skeleton microporous materials with coatings inside the pores for medical and dental applications

Leszek Adam Dobrzanski, World Academy of Materials and Manufacturing Engineering, Poland

Title: Single wall and multiwall WS_2 nanotubes synthesis and characterization - the update

Alla Zak, Holon Institute of Technology, Israel

Networking and Refreshments Break

Sessions: Advancement in Nanomaterials Science And Nanotechnology | Coatings and Surface Engineering | Functional Materials

Session Chair: Hideo Miura, Tohoku University, Japan

Session Introduction

Title: Evaluation of atomic scale damages of advanced materials based on the order of atom arrangement

Hideo Miura, Tohoku University, Japan

Title: Thermokinetic modeling and simulation of complex phase transformations in the framework of advanced functional materials

Erwin Povoden-Karadeniz, Institute of Materials Science and Technology, Austria

Title: Evaluation of sputtered PZT thin films on Ti-substrates upon re-crystallization with a thin Pb-overcoat

Ankita ghatak, S.N.Bose National Centre For Basic Sciences, India

Title: Modification of ground state property on size reduction to 1D

Barnali Ghosh (Saha), S.N.Bose National Centre For Basic Sciences, India

Title: Towards conductive textiles: coating polymeric fibres with graphene

Ana neves, University of Exeter, UK

Title: Functionalization of cocoa shell (CS) surfaces using nanoparticles and their application in CO_2 storage

Julien vieillard, University of Rouen Normandie, France

Lunch Break

Session Chair: Manfred Martin, RWTH Aachen University, Germany

Title: Low friction, wear resistant quasicrystalline coatings

Jean marie dubois, Université de Lorraine, France

Title: Hafnium and palladium modified aluminide coatings

Jolanta Romanowska, Rzeszów University of Technology, Poland

Title: Resistive switching in highly disordered thin oxide films

Manfred Martin, RWTH Aachen University, Germany

Title: TiO_2 nanotubes as potential vascular stents: Effect of oxygen plasma treatment on crystal structure and surface properties

Metka bencina, Jožef Stefan Institute, Slovenia

Title: Particle size versus energetics of nanomaterials: Key parameters controlling the stability and reactivity of nanostructured materials

Speranta Tanasescu, Institute of Physical Chemistry Ilie Murgulescu of the Romanian Academy, Romania

Title: Formation of carbon-based nanostructures from carbon suboxide decomposition at high pressure and temperature – a ReaxFF study

Xavier bidault, Commissariat Energie Atomique, France

Title: Starch capped silver nanoparticles as colorimetric sensor for hydrogen peroxide recognition in aqueous medium

Abdelaziz Elgamouz, University of Sharjah, UAE

Networking and Refreshments Break

Sessions: Advanced Biomaterials, Bio devices & Tissue Engineering | Advanced Ceramics and Composite Materials

Session Chair: Garcia Garcia Francisco, University of Edinburgh, Scotland

Title: Design of nanostructured powders and mechanical properties of WC-AISI 304 stainless steel composites

Ana senos, University of Aveiro, Portugal

Title: Thermal characterization of a thermoplastic resin for resin transfer molding in process conditions: Demonstrating of the feasibility of the technology

Bailleul Jean-Luc, Laboratoire de Thermocinétique de Nantes, France

Title: Thermoelectric oxides processed by a laser floating zone technique

Nuno M. Ferreira, University of Aveiro, Portugal

Title: LIPSS stimulate stem mesenchymal cells differentiation to osteoblasts in titanium and tantalium

Alberto Jorge Mora, Universidad de Santiago de Compostela, Spain

Title: Biological cell inspired reactors for an increasing population world

Garcia Garcia Francisco, University of Edinburgh, Scotland

Title: Synthesis of Nano $CaCO_3$ and Hydroxyapatite by Sol-Gel methods, on spores and in 3D-printed Ca^{2+}-crosslinked PVA hydrogels and their use in bone regeneration

Paul Sermon, Brunel University, UK

Breakout @ Edradour

Sessions: Materials Processing and characterization | Materials for Energy application& Energy storage

Session Chair: Alexandre Maitre, University of Limoges, France

Title: Atomic layer deposition routes to monolithic integration of crystalline oxides on semiconductors

John Ekerdt, Univerisity of Texas at Austin, USA

Title: Tailoring compatibility in ultrapermeable polymer blends to switch off plasticization and physical ageing

Lau Sam, University of Edinburgh, Scotland

Title: Mechanism of spark plasma sintering of high temperature ceramics such as carbides

Alexandre Maitre, University of Limoges, France

Title: Testing methodologies for thermo-mechanical fatigue evaluation in advanced aerospace materials

Mark Whittaker, Swansea University, UK

Title: Characterization of energy materials by neutron scattering

Martin Jones owen, Science and technology facilities council, UK

Title: Permanent magnets in energy applications for the clean environment

Spomenka Kobe, Jožef Stefan Institute, Slovenia

Lunch Break

Sessions: Advanced Materials Engineering | Materials Science and Engineering | Emerging Areas of Materials Science

Session Chair: Masumi Saka, Tohoku University, Japan

Title: Interaction of nanoparticles with amino acids and a physiologically important model protein studied by spectroscopic techniques
Karolína M. Šišková, Palacký University in Olomouc, Czech Republic
Title: Kovacs effect and the relation between glasses, supercooled liquids and crystals
Francesco Aliotta, Istituto per i Processi Chimico-Fisici, Italy
Title: Co-electrodeposition of Zn-rich Cu-Zn-Sn metallic alloy and its conversion to Cu_2ZnSnS_4 and $Cu_2ZnSnSe_4$ photovoltaic absorber films
Ali Rakhshani, Kuwait University, Kuwait
Title: Surface mechanics design of metallic materials by cavitation peening
Hitoshi soyama, Tohoku University, Japan
Title: Fatigue analysis of a failed connecting rod in race car engine
Klaudio Bari, University of Derby, UK
Title: Crack/damage evaluation and micro-materials fabrication in the relation with electric field
Masumi Saka, Tohoku University, Japan
YRF: Heat transfer performance of double-layer porous copper produced by tape casting with lost carbonate sintering
Mosalagae Mosalagae, Sheffield Univeristy, UK

Networking and Refreshments Break

Session Chair: Klaudio Bari, University of Derby, UK

Title: Advanced polydimethylsiloxane-urea copolymer basedmasterbatches with multiple functionality
Hans-Joachim Radusch, MLU Halle, Germany
Title: Sculpture art and fashion design
Mayssa El Fare, Damietta University, Egypt
Title: Material science and fashion design
Nashwa El Shafey, Damietta University, Egypt
Title: Structures, interactions and optical responses from polymer and polymer nanocomposites
Sarathi Kundu, Institute of Advanced Study in Science and Technology, India
Title: Recent advances in polylactic acid based blends, composites and nanocomposites for packaging and barrier applications
Kartikey Verma, Chandigarh University, India

Day 2 September 08, 2017

Balvenie Glenmorangie

Keynote Forum

Title: Influence of non-Newtonian behavior of polymers on their processing characteristics
Mosongo moukwa, PolyOne Corporation Designed Structures and Solutions LLC, USA
Title: Continuous nanocrystallizing of medicaments by spray flash evaporation
Denis Spitzer, NS3E Laboratory, ISL-CNRS-UNISTRA, France
Title: Hybrid biomaterials for nanobioelectronic device: toward biocomputing system
Jeong-Woo Choi, Sogang University, Korea

Networking and Refreshments Break

Title: Molten salts & molten salts technology: past, present and future in materials and processing technology
Francisco Javier Perez Trujillo, Universidad Complutense de Madrid, Spain
Title: SERS tag-therapeutic drug delivery, multimodal imaging, multiplexed sensing and diagnosis metal-nanosystems
Nekane Guarrotxena, Institute of Polymer Science and Technology, Spanish National Research Council, Spain

Session Chair: Nekane Guarrotxena, Institute of Polymer Science and Technology, Spanish National Research Council, Spain
Session Chair: Sylvain G.Cloutier, École de Technologie Supérieure, Canada

Session Introduction

Title: Adsorptive removal of sulfur compounds using Cu^{2+}-based porous coordination polymers
Masashi morita, Panasonic Corporation, Japan
Title: Key role of the liquid-surface interactions to reveal hidden elastic properties in liquids
Laurence Noirez, Université Paris-Saclay, France
Title: Influence of nickel and aluminum additions on the microstructure and tensile properties of innovative, free-carbon, 10% cobalt maraging composit steel
Saied Elghazaly, Central metallurgical R&D Inst, Egypt
Title: Functionalized well-defined polymeric nanostructures for biomedical applications
Efrosyni Themistou, Queen's University Belfast, UK

Lunch Break

Title: The performance of polypropylene fibre reinforced concrete: Mechanical properties
Noor faisal Abas, Universiti Sains Malaysia, Malaysia
YRF: Polymeric nanoparticles and gels: modeling of dynamic behavior and properties using Discrete Element Method
Martin Kroupa, University of Chemistry and Technology Prague, Czech Republic
Title: High-performance perovskite hybrids for printable optoelectronics
Sylvain G.Cloutier, École de Technologie Supérieure, Canada
Title: Hydrogen production from water using the sun via photocatalytic processes on Au/g-C_3N_4/TiO_2 materials
Valerie Keller, Institute of Chemistry and Processes for Energy, Environment and Health, France
Title: On unified approach in description of crysttalline structures in discrete space
Vladimir Shevcheko, Institute of Silicate Chemistry RAS, Russia

Video Presentations

Title: Engineering columnar crystals: A novel, template-based method of sequential deposition
Ho-kei Chan, Harbin Institute of Technology, China
Title: Microstructure development affected by electrode geometry during resistance spot welding
Peng-Sheng wei, National Sun Yat-Sen University, Taiwan

Networking and Refreshments

Poster Presentations

Poster Judges: Speranta Tanasescu & Valerie Keller

Title: Luminescence of morphologically-controlled calcium silicon nitride particles through combined techniques of ultrasonic spray pyrolysis and carbothermal reduction/nitridation
Satoshi ono, Sophia University, Japan
Title: Natural plant-derived polymer fabricated with sugar-containing hydroxyapatite for biocompatible bone-hemostasis
Yeonjeong Noh, Sophia University, Japan
Title: Title: Encapsulation of oxynitride phosphors into sintered Li_2O-ZnO-B_2O_3-P_2O_5-CaF_2 glass body
Nanako akiyama, Sophia University, Japan
Title: Electrochemical decoration of MoS_2 nanoplatelet arrays with Pt quantum dots for high efficient water splitting
Arnas Naujokaitis, Vilnius University, Lithuania
Title: Detachable photocatalysts of anatase TiO_2 nanoparticles: Annulling surface charge for immediate photocatalyst separation
Al-Hetlani, Kuwait University, Kuwait
Title: Luminescence of Mn^{2+} and Eu^{3+} doped zinc phosphate glass
Hector Octvaio Murrieta Sanchez, Universidad Nacional Autónoma de México, México
Title: : Impact of the granularity of a high-explosive material on its shock properties
Xavier bidault, Commissariat Energie Atomique, France
Title: Green synthesized biocompatible anode in MFCs for sustainable wastewater treatments and energy recycling
Ying Cheng, University of Newcastle, Australia

Awards & Closing Ceremony