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7th internatinal Conference on

Smart Materials and Structures

July 2-3, 2018

Vienna, Austria



SCIENTIFIC PROGRAM

DAY 1
Monday, 2nd July

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**

MEETING HALL 01

11:50-13:10 **Talks On:**

- Smart Materials and Technologies
- Smart Structures
- Optical and Electronic Materials
- Materials for Energy Conversion and Storage Devices

13:10-13:15 GROUP PHOTO

13:15-14:00 LUNCH BREAK

MEETING HALL 01

14:00-16:00 **Talks On:**

- Nanomaterials and Nanotechnology
- Smart Biomaterials
- Mechanics and Behavior of Smart Materials
- Future of Materials

16:00-16:20 COFFEE BREAK

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

Young Researchers in Smart Materials and Structures

DAY 2
Tuesday, 3rd July

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

10:30-10:50 COFFEE BREAK

MEETING HALL 01

10:50-12:50 **Talks On:**

- Smart Materials in Industrial Application
- Emerging Materials
- Materials Chemistry
- Bioactive Smart Materials

12:50-13:35 LUNCH BREAK at Flemings Restaurant

MEETING HALL 01

13:35-15:55 **Talks On:**

- Material Science and Engineering
- Market Demand and Value
- Architecture and Civil Engineering
- Physics and Chemistry of Materials

15:55-16:15 COFFEE BREAK

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

Poster Presentations

Organizing Committee Members



Alexander M. Seifalian
Head- Nanotechnology and Regenerative Medicine
University College London
UK



Ephraim Suhir
Professor
Portland State University
USA



Ivoyl P. Koutsaroff
Principle Engineer
Qualcomm
USA



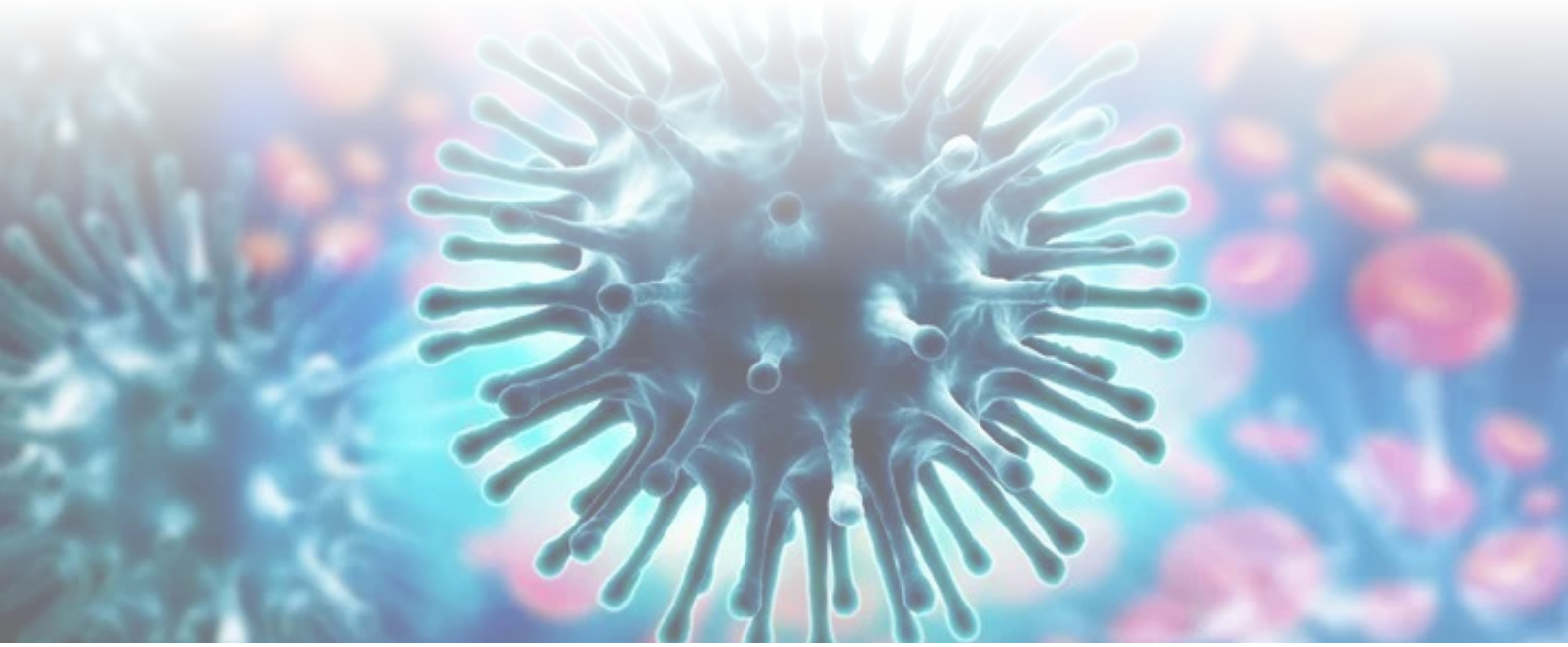
Manas Chandra Ray
Professor
Indian Institute of Technology
India



Manijeh Razeghi
Director Center for Quantum Devices
Northwestern University
USA



Miroslaw Kwiatkowski
Professor
AGH University of Science and Technology
Poland



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7th International Conference on Smart Materials and Structures

JULY 02 & 03, VIENNA, AUSTRIA

AGENDA

Title: LOW-CYCLE-FATIGUE FAILURES OF SOLDER MATERIAL IN ELECTRONIC PRODUCTS: ANALYTICAL MODELING ENABLES TO EXPLAIN, PREDICT AND POSSIBLY PREVENT THEM

Ephraim Suhir
Portland State University, USA

Dr. Ephraim Suhir has his expertise in materials science and engineering, with an emphasis on predictive modeling of the mechanical behavior and performance of electronic materials and systems. He is Life Fellow of the IEEE, the ASME and the SPIE and Fellow of the APS and IoP, UK. Ephraim received numerous professional awards and authored 400+ publications. and co-authored over

Title: Energy and Environmental Impacts of Phase Change Materials on Hot Drink Consumption

Bin Wu
College of Engineering, University of Missouri, USA

Bin Wu is an industrial engineering professor at the University of Missouri, and director of the Missouri Industrial Assessment Center. Wu is an internationally-recognized expert in the design and management of manufacturing and supply systems, and he has written a number of books on the subject that have been adopted as standard undergraduate and postgraduate texts worldwide. He is the recipient of numerous awards. His research has been funded by the Missouri Department of Natural Resources, the Kauffman Foundation, the U.S. National Science Foundation and the U.S. Department of Energy.

Title: h-BN Nanoparticle Gradient in Glass Coating

H. Erdem Çamurlu,
Akdeniz University, TURKEY

H. Erdem Çamurlu completed his PhD in 2006 at Middle East Technical University, Ankara, Turkey. Currently, he is an Associate Professor in the Mechanical Engineering Department of Akdeniz University, Antalya, Turkey. He has published more than 35 papers in reputed journals.

SPEAKER SLOTS AVAILABLE

Title: Lexo the World's First Naturally Smart Coffee/Tea Mug – a Case of Application of Phase Change Materials in the Consumer Market threatening infections

Bin Wu
College of Engineering,
University of Missouri,
USA

Bin Wu is an industrial engineering professor at the University of Missouri, and director of the Missouri Industrial Assessment Center. Wu is an internationally-recognized expert in the design and management of manufacturing and supply systems, and he has written a number of books on the subject that have been adopted as standard undergraduate and postgraduate texts worldwide. He is the recipient of numerous awards. His research has been funded by the Missouri Department of Natural Resources, the Kauffman Foundation, the U.S. National Science Foundation and the U.S. Department of Energy.

Title: Fabrication of Glucose Biosensors via PEDOT Nanofibers

Pinar Camurlu,
Akdeniz University,
Antalya, TURKEY

Dr. Camurlu received her B.Sc. (1999), M.Sc (2001) and Ph.D. (2006) degrees from Department of Chemistry at Middle East Technical University in Ankara, Turkey. Dr. Camurlu has been working in Department of Chemistry at Akdeniz University (Antalya, Turkey) since 2007. Her research is focused on the design and synthesis of functional conjugated polymers and their applications such as; electrochromic devices, light emitting diodes, biosensors. She has published 50 papers in SCI journals and took part as a co-author for three international scientific book chapters.

Title: Smart &Innovative Antifouling Coatings in Industrial Applications

B. Donmez
Sabanci University
Integrated Manufacturing
Composite Center,
Istanbul, Turkey

Dr. Barca Donmez, is a researcher and PhD candidate at Sabanci University, and he works as project development and R&D engineer at Eaton Polymer and Rubber Industry. His research interest is smart polymeric materials and advanced smart composites as reinforcement in rubber technology and its application.

SPEAKER SLOTS AVAILABLE

Title: Surface Modified Barium Titanate for Optimal Dielectric Properties in Polymer-Ceramic Nanocomposite Films

Kimberly Cook-Chennault
Rutgers, the State University of New Jersey, USA

Kimberly Cook-Chennault is an Associate Professor in the Mechanical and Aerospace Engineering Department at Rutgers University. She holds BS and MS degrees in Mechanical Engineering from the University of Michigan and Stanford University respectively; and a PhD from the University of Michigan, Ann Arbor. Her research interests include design of integrated hybrid energy systems and investigation of the structure-property relationships in ferroelectric, dielectric and piezoelectric materials in the form of thin films and bulk composites for sensing/actuation and energy storage/harvesting applications. Dr. Cook-Chennault's research group, the Hybrid Energy Systems and Materials Laboratory, conducts work towards understanding the fundamental mechanisms and processing parameters that allow for the control of physical material characteristics. In addition to this work, Dr. Cook-Chennault is the director of the Green Energy Undergraduate Program (GET UP) program which is funded through the National Science Foundation.

Title: Physicochemical properties of Ti-based MXenes obtained from SHS synthesized MAX phases and their application for energy storage

Sergii A. Sergiienko
National University of Science and Technology MISiS
Russia

Sergii A. Sergiienko (PhD) has ten years of working research experience at L.V. Pisarzhevskii Institute of Physical Chemistry of the National Academy of Sciences of Ukraine. Research projects mainly devoted to synthesis and investigation of functional properties of ordered porous materials. Published 14 international research papers. Current research project: "Synthesis and Characterization of Novel Nano-Hetero-Structured MXene-based materials for electrochemical energy storage" at National University of Science and Technology «MISiS».

Title: Conductive silicone rubber through carbon nanotubes, and its smart application.

Noa Lachman,
Tel Aviv University,
Israel

Dr. Noa Lachman is a new member in the department of materials science and engineering, previously a postdoctoral Associate at the department of Aeronautics and Astronautics at MIT. She received a B.S. (2003) in Chemistry and Physics from the Hebrew University in Jerusalem, Israel, and completed her Ph.D. work (2010) at the Weizmann Institute of Science, in the department of Materials and Interfaces. Her research focuses on tailoring and imaging of VA-CNT based composites for various application, including energy storage and multi-functional structure materials. Dr. Lachman uses experimental techniques to obtain knowledge of nano-structure effect on mechanical and functional properties of these new materials, and she aims to develop a structure-function dataset which will enable the design of new materials with improved efficiency and performance. Dr. Lachman has authored and co-authored 20 journal articles.

SPEAKER SLOTS AVAILABLE

Title: Catalysis by design: Well-defined single-site heterogeneous catalysts

J-M. Basset
Laboratoire de Chimie, Catalyse
Saudi Arabia

Professor Jean-Marie Basset is the Distinguished Professor for Chemical Science in the Physical Science and Engineering Division at King Abdullah University of Science & Technology. He has authored more than 500 scientific papers 50 patents, pioneered the field of "Surface Organometallic Chemistry", which focuses on possible relationships between homogeneous and heterogeneous catalysis. He received his PhD in 1969 from the University of Lyon, France. After a postdoctoral position in Toronto he moved to the Institute of Catalysis in Lyon where he became vice-director. In 1987, he founded the Laboratory of Surface Organometallic Chemistry that became later the laboratory of Chemistry, Catalysis, Polymer, Process (C2P2). His Lyon lab was home to 100 scientists, including Nobel Laureate Yves Chauvin who got his Nobel in 2005. In 2009 he moved to the King Abdulla University of Science and Technology in Saudi Arabia as director of the KAUST Catalysis Center.

Title: Adaptation of a universal testing machine to characterise the material response of multi-layered piezoelectric actuators under fully coupled loading scenarios

Hannes Grünbichler
University of Applied Sciences Technikum Wien,
Vienna, Austria

Hannes Grünbichler has his expertise in materials science and in using FE-simulations tools such as ANSYS. He is a chartered engineering consultant for materials technologies and engineering and an expert witness for materials science and testing. At present he lectures at FH Technikum Wien and cooperates with the Montanuniversität Leoben.

Title: Pairing transition metal difluoride cathodes with silicon-based anodes for high energy density lithium ion batteries

Nasr Bensalah

Qatar University,
Doha, Qatar

Dr. Nasr Bensalah, (45 years) is a Professor of Analytical and Environmental Chemistry with the department of Chemistry and Earth Sciences, at college of Arts and Sciences, Qatar University. His research interests are focused mainly on the diverse applications of electrochemical technologies for energy storage, water treatment, and chemical analysis. This includes developing new materials for electrochemical storage devices and new technologies for water/wastewater treatment to address problems of local, regional and global importance. He has published more than 60 papers in peer-reviewed international journals and he has supervised 12 MSc-students and 8 PhD- students.

SPEAKER SLOTS AVAILABLE

Title: Electrospun Nanofibers Releasing Salinomycin for Glioblastoma Treatment.

Mohammad Norouzi
University of Manitoba,
Canada

Mohammad Norouzi obtained his M. Eng. in 2012 and he studies his Ph.D. in Biomedical Engineering at University of Manitoba. His research activities have been mainly focused on novel drug delivery systems for cancer therapy as well as tissue engineering. He has also presented over 30 scientific papers in peer-reviewed journals and conferences worldwide.

Title: Furan-Melamine-Formaldehyde Polymers – toward smart materials future applications

Katharina Urdl,
Kompetenzzentrum
Holz GmbH

Katharina Urdl successfully completed her chemistry studies at the Chemistry and Technology of Materials Department at the Technical University of Graz in 2016. She is currently employed at the Wood Carinthian Competence Center in St. Veit/Glan in Austria, where in 2016 she started with the doctoral program in Polymer Engineering and Science at the Montan University of Leoben. She is currently working in a project on modification of melamine-formaldehyde resins, which are used for decorative laminates industry.

Title: High-Performance Smart Biomaterial Containing Nanoparticles and Ophthalmic Application

Min-Jae Lee
Daegu Catholic
University,
South Korea

Min-Jae Lee has completed his M.S from Kangwon National University and He is the staff of Bio-material project in Daegu Catholic University. He has published more than 10 papers in reputed journals and has been serving as an instructor for 2years.

SPEAKER SLOTS AVAILABLE

Title: Vibration of fully functionally graded CNT reinforced graphite/epoxy laminates

Shih-Yao Kuo
Aletheia University,
Taiwan

Shih-Yao Kuo received his PhD in 2002 from National Cheng Kung University, Taiwan. Currently Prof. Kuo is the Director of Office of Tainan Administration, Aletheia University, Taiwan. Dr. Kuo's main research trust is focused on computational mechanics. His research areas are on development and application of numerical algorithms and finite element method for buckling, vibration and flutter problems in SMA or CNT reinforced composite laminates. He has published 17 SCI and 16 EI journal articles and his publications have been cited over 294. His current h-index is 9.

Title: Synthesis of One-Dimensional SnO2 Lines by Electrohydrodynamic Jet Printing for NO Gas Sensor

Chang-Yeoul Kim
Korea Institute of Ceramic Engineering and Technology,
Korea

Chang-Yeoul KIm has his expertise in passion in developing sensor nanomaterials and applications. He focuses on the synthesis of nanomaterials by using solution chemistry, atmospheric chemical vapor deposition, and electrohydrodynamic deposition methods, etc. He showed that it is possible to fabricate SnO2 lines by using electrohydrodynmic ink coating and could be applied for sensor materials. The SnO2 lines are comprised of 20nm-sized nanocrystals and show the sensitivity to NO gas. He is interested in the development of sensor device by using these sensor materials.

Title: **Effect of pressure and time on scCO2-assisted incorporation of thymol into LDPE-based nanocomposites for active food packaging**

Adrián Rojas
University of Santiago de Chile,
Chile

Adrián Rojas is PhD student of University of Santiago de Chile's doctoral program in Food Science and Technology. He is working on the development of active packaging by means of supercritical impregnation process using carbon dioxide. As result of this research line, he has published 6 papers in reputed journals.

SPEAKER SLOTS AVAILABLE

Title: In vivo tissue pH probing using a combination of MR Imaging and smart contrast agent for cancer early detection and post chemo and radiotherapy

Mouffouk Fouzi
Kuwait University,
KUWAIT

Fouzi Mouffouk is an Associate Professor in Department of Chemistry at Kuwait University. I got my MS and PhD degree from the Ecole Nationale Supérieure de chimie and University of Montpellier France in the area of organic chemistry. After my PhD I spent 3 years as a postdoc at the department of chemistry and the Centre for Bio-Array Innovation, which is one of the four consortiums for PostGenome Sciences in UK (synthesis and characterization of conductive polymers based gene biosensors). Then I was appointed as senior scientist at Los Alamos National Laboratory where I worked on a project called artificial life (or living technology) a collaboration with NASA Institute of Astrobiology, to synthesis and assess the performance of an artificial genes that support the functionalities of these protocells (artificial gene self-replication and gene implication in the protocell metabolism). After that I was hired as an assistant Professor at the Institute for Biotechnology and Bioengineering Centre for Molecular and Structural Biomedicine at the University of Algarve Portugal. I am presently heading a research group in the area of biomaterials and nanotechnology, and I am acquainted with all aspects of fundraising, project management, international collaboration, and committee work.

Title: Hysteresis Behavior of Smart Eccentric Braced Steel Frames with Shape Memory Alloy

Joo-Woo Kim
Semyung University,
Korea

Dr. Joo-Woo Kim received his Ph.D. at School of Civil Engineering, Georgia Institute of Technology, USA Current research area is seismic performance evaluation, smart structure, structural upgrading, etc.

Title: Modification and Characterization of Cotton Fibers with Magnetic Core-Shell Mesoporous Silica Nanoparticles

David Patiño-Ruiz
University of Cartagen
Colombia

David Patiño Ruiz is a Doctoral Candidate in Engineering with Emphasis in Science and Technology of Materials at the University of Cartagena and Chemical Engineer from the same Institution. The researches directed by him has been focused on the synthesis, characterization and application of nanomaterials for different fields in which includes water and soil treatments, drug load and delivery, among others. He has made oral presentation in different conferences with nanotechnology approaches, and has made research exchanges repeated times in Cornell University with the collaboration of Doctoral Students in order to increase his knowledge in nanomaterials with highly desired characteristics for different purposes.

SPEAKER SLOTS AVAILABLE

Title: Fibrous electron-selective layer for highly efficient flexible perovskite solar dev

Fatemeh Zabihi
Donghua University,
Shanghai, China

Fatemeh Zabihi is a faculty member in College of Material Science and Engineering in DHU. She has been working as postdoc. Fellow and senior researcher in University of Michigan-Shanghai Jiao Tong University Joint Institute FROM 2012-2014. According to her strong chemical and engineering background her multidisciplinary research is focused on Thin film Technology and Thin Film Solar Cells, Solution Processing and Solution Engineering, Surface Sciences and surface Phenomena, Coating and Spray Phyrolysis, Thermodynamic and Phase Equilibrium studies.

Title: Optically Transparent p-type oxide and oxychalcogenide semiconductors

Hao Gong,
National University of
Singapore, Singapore

Hao GONG completed his PhD 26 years ago from Delft University of Technology, the Netherlands. He is a full professor at Department of Materials Science and Technology, National University of Singapore. His research areas are in electronic, functional, and sustainable energy materials thin films, nanostructures, heterostructures and devices. He has published more than 200 papers in reputed journals and has served as reviewers for more than 30 internation journals including Nature communications, Advanced Materials, Nano Letter, ACS Nano, JACS, etc. He is an editorial board member of Scientific Reports, and guest editors of some special issues of a few jounals. He has been chairman for a few international conferences.

Title: PVA/Chito-Oligosaccharide Nanofiber Mat Containing Pomegranate Peel Crude Extract for Antibacterial Purpose

Neeranut Kuanchertchoo
Ramkhamhaeng
University, Bangkok,
Thailand

Dr. Neeranut Kuanchertchoo has her expertise in design and development new matrix accommodating for adsorption or drug delivery purpose. Her Laboratory skill is synthesis, fabrication and materials modification suitable for variety applications. She is still teaching and working in laboratory.

SPEAKER SLOTS AVAILABLE

Title: Nanoscale Molecular Adhesion Layers for Silicone Bonding

Stefan Urth Nielsen
Aarhus University and
RadiSurf ApS,
Denmark

Industrial PhD student Stefan Urth Nielsen is doing his work partly at Aarhus University and partly at the nanocoating company RadiSurf ApS. He is utilizing his skills within organic chemistry to construct nanoscale polymer layers on surfaces with the specific aim of promoting nano-based adhesion to plastics. His major focus revolves around the use of polymer brushes as adhesion promoters. Especially, chemical surface activation and surface-initiated polymerizations are his prime areas of work regarding the fabrication of nanopolymer layers. His work his highly interdisciplinary and is bridging academia and industry to make the next-generation of adhesion solutions based on nano layers.

Title: Damping and lightweight properties of 3D metal lattices produced by additive manufacturing

M. Vedani
Politecnico di Milano,
Italy

M. Vedani is Full professor of Metallurgy at Politecnico di Milano, Dept. of Mechanical Engineering. He is chief of the Materials Section and has wide experience on metallurgy and processing of light and special metallic alloys, with particular attention in recent years to additive manufacturing.

Title: OXIDATIVE DESULFURIZATION OF ORGANOSULFUR COMPOUNDS IN A

Verónica García
Universidad Industrial de Santander,
Colombia

Verónica García is professor at the Universidad Industrial de Santander (Colombia). She has obtained her PhD from Nantes University (France) and Universidad de Antioquia (Colombia) in 2010 and she had a postdoctoral position at the University of Basque Country in 2015-2016.

SPEAKER SLOTS AVAILABLE

Title: A Newly Thermal Convective Angular Accelerometer on Polyimide Substrate

Jium-Ming Lin
Chung-Hua University,
Taiwan

Lin was born in Taiwan 1952 and graduated from the Dept. of Electronic Engineering, National Chiao-Tung University at Taiwan in 1974. He achieved the Master and Ph. D Degrees from the same school of Institute of Electronics in 1976 and 1985, respectively. He was an adjunct professor and full professor since 1992 and 1996 at the Dept. of Mechanical Engineering, Chung-Hua University, Taiwan. Now he is at Dept. of Electronic Engineering and majors in the fields of planar speaker, RFID, accelerometer, rate gyro; avionics, and wireless measurement technique for health

Title: Wear Behaviors of Boron-Bearing New Hardfacing Alloys

Yi-ting Chang
National Tsing Hua University,
Taiwan

Yi-ting Chang is a graduate student in a master's program in materials science and engineering of National Tsing Hua University, Hsinchu, Taiwan. She is now studying the impact and wear characteristics of high entropy hardfacing alloys, trying to find better materials for replacement of HCCIs in cement industries.

Title: Preparation and lithium storage performance of C-GQDs/α-Fe2O3 nanocomposites

ZHANG Ya-ting
NSFC, China

Zhang Yating, Professor, Ph.D., Associate Dean of the School of Chemistry and Chemical Engineering, Xi'an University of Science and Technology, Professor of Famous Master of Huyang, and Leader of School-level Science and Technology Innovation Team. He is also a member of the Shaanxi Coal Chemical Industry Association, a member of the Chinese Graphene Standardization Committee, a member of the Expert Committee of the China Energy Society, a technical committee member of the "National Coal Chemical General Information Station", an academic journal "Carbon Technology" and "Coal Chemicals" Editorial Board. Mainly engaged in chemical engineering and process professional core basic courses and professional teaching, as well as coal cleaning utilization, coal-based functional carbon material preparation and application research work. He successively published more than 50 papers in Energy & Fuels, Nanomaterials, Coal Journal, Chemical Journal, and New Carbon Materials, and edited and edited 5 textbooks; applied for and authorized more than 10 patents

SPEAKER SLOTS AVAILABLE

Title: Non-fullerene acceptors: A universal answer toward addressing the "burn-in" stability challenge of solution processed organic solar cells

Zhe Li
Cardiff University,
UK

Dr Zhe LI has completed his PhD in early 2012 from University of Cambridge and postdoctoral studies from Imperial College of London in 2014. Later on, he joined Swansea University as a research fellow (2014-2016) and senior research fellow (2016-2017). He is now a Lecturer in Energy Materials at School of Engineering, Cardiff University. He has published more than 30 papers in reputed journals and holder of 1 industrial patent.

Title: Estimation of inhalation risks associated with exposure to volatile organic compounds from construction materials used in an indoor environment

Mukesh Khare
Indian Institute of Technology
New Delhi, India

Prof. Mukesh Khare is a Professor, Environmental Engineering & Management, Department of Civil Engineering, IIT Delhi, India and Former Atlantic LNG Chair (Professor) in Environmental Engineering, University of West Indies, Advisor (Air Pollution) and has published to date more than 120 refereed articles in professional journals, 70 articles in refereed conferences/seminars, 04 books. He focuses on local scale urban air quality modelling targeting the predictions of episodes at urban roads/intersections, mainly arising out from undefined low-level/line sources. Current research areas include formulation of air quality models and their validation; indoor air quality modelling in air-conditioned and naturally ventilated buildings.iography

Title: A Novel Smart Hybrid-Trefftz Finite Element for the Analysis of Smart Laminated Composite Plates

M. C. Ray
Indian Institute of Technology,
Kharagpur
India

Dr. Manas Chandra Ray is one of the pioneering researchers in the area of smart materials and structures. Derivation of the first bench mark exact solutions of smart laminated composite structures is one of his most significant contributions. He developed novel methods for active structural-acoustic control and active constrained layer damping of nonlinear vibrations of smart structures using 1-3 piezoelectric composites. He discovered that the piezoelectric coefficients of the existing 1-3 piezoelectric composite can be significantly improved by growing radially aligned carbon nanotubes (CNTs) on the surface of the piezoelectric fibers. His micromechanics models reveal that the wavy CNTs significantly improve the effective elastic and thermo-elastic properties of the fuzzy fiber-reinforced composite. He explored that the thermal conductivities of carbon fiber heat exchanger can be dramatically enhanced by exploiting wavy CNTs. Most recently, he derived benchmark exact solutions of the flexoelectric nanobeams for developing smart nano sensors and nano actuators

SPEAKER SLOTS AVAILABLE

Title: A study on the development of Molybdenum and silicide-based coatings on Nb based structural materials for advanced high temperature reactor

Megha Tyagi
Homi Bhabha National Institute, India

Megha Tyagi has expertise in the development of high temperatures coating using molten salt technique. She has developed this molten salt technique to coat Si on niobium-based alloys. She also has expertise in material characterization and has experience of handling various equipment's.

Title: Functional perovskite lead based and lead-free ceramic/crystals for piezoelectric applications

Binay Kumar
University of Delhi, India

Dr. Binay Kumar reveived his Ph.D. degree in 1992 from the University of Delhi and is a professor in the Department of Physics and Astrophysics (DU) since 2009. He established 'Crystal Lab' in the department and has been doing research in the field of ferro-/piezoelectric ceramic, single crystals and nanoparticles, including (i) high Tc superconducting Bi-2212 (ii) piezoelectric (a) lead based PZN-PT/PMN-PT (b) lead free BNKT/NKLN (c) LiNbO3 (iii) multiferroic BFO and (iv) ZnO, apart from a large number of optical/piezoelectric organic crystals. His recent interest include piezolectric energy harvesting and devices. He has supervied nearly 15 students for Ph.D. degree and published over 130 research papers and delivered over 50 invited talks.

Title: Cu Ion Beam induced effects and phase study in Vanadium Oxide thin films

Tariq Nawaz
National Center for Physics and International islamic university Islamabad, Pakistan

Mr Tariq Nawaz is a PhD Research student at the National center for Physics working on Tendam Accelerator and has completed his MS in 2015 International islamic university Islamabad Pakistan.He has been a regular hosted research schoalr since 2013 at the National center for Physics Islamabad Pakistan.

SPEAKER SLOTS AVAILABLE

Title: Solventless synthesis of antimony sulfide, bismuth sulfide, and antimony-bismuth sulfide solid solutions using novel single source route

Tahani Alqahtani
The University of Manchester, UK

Tahani received MSc degree in Nanotechnology and Microsystems at Heriot-Watt University. She is currently studying her PhD at the University of Manchester with Prof. Paul O'Brien where her work focuses on metal chalcogenides for photovoltaic applications.

Title: Temperature Dependent Interplay between Emitting Species in Highly ordered P3HT Single Crystals

Agumba John O
Pwani University
Kilifi-KENYA

Dr. Agumba completed his PhD at St. Albert Ludwigs University-Freiburg in Germany in 2016 and is currently a lecturer of Physics at Pwani University, Kenya. He holds a M.Sc. degree in Physics from Kenyatta University, Kenya and B.Ed (Hons) from the same institution. He heads an active research group comprising Physicists, Chemists and engineers from where they undertake a number of researches. He has a nunber of publications in reputable journals.

Title: Effect of nano-zones on thermal shock behaviour of mixed composite top coat APS TBCs

A. Ashofteh
University of Tehran, Iran

Dr. Afshin Ashofteh has his expertise in evaluation and improvement of thermal barrier coating of turbine blades. His focus is on designing the structure of composite TBCs (mixed- and layer-composites) and to investigate the effect of the involved factors in these coatings on its performance. He has chosen this area after years of research and work on high temperature coatings, and he believes that composite thermal barrier coatings can overcome many of the existing limitations.

SPEAKER SLOTS AVAILABLE

Vienna Attractions



Smart Material Congress Reminisce













Glimpses of Smart Material Conferences















