EuroSciCon

Advanced Materials

December 10-12

Rome, Italy

2018



Advanced Materials 2018

https://advancedmaterials.euroscicon.com/

Day 1, Agenda

General Session

08:00 AM — INTRODUCTION

09:00 AM — PLENARY

10:00 AM — KEYNOTE

Networking & Refreshments Break @ Foyer

	HALL 01	HALL 02	HALL 03
11:00 AM	Talks On: **Advancement in Nano materials and Nanotechnology and Nanopolymers**	Talks On: **Adhesives and Joining Technologies**	Talks On: **Surface Coatings and Tribology**
	Talks On: **Energy and Industrial Application of Nanotechnology**	Talks On: **Adhesive Bonding**	Talks On: **Nanoscale Surface Modification**
	SESSION DISCUSSION	**SESSION DISCUSSION**	**SESSION DISCUSSION**
02:00 PM	Panel Over: **Imaging Microscopy**	Panel Over: **Laser Metal Deposition & Processing**	Panel Over: **Catalysis and Electrochemistry**
	Workshop On: **Advancement in Nanomaterials and Nanotechnology**	Workshop On: **Additive Manufacturing**	Workshop On: **Advanced Lubrication Techniques**
	Lunch Break @ Restaurant	***Lunch Break @ Restaurant***	***Lunch Break @ Restaurant***
04:00 PM	Talks On: **Nanoceramics and nanocomposites**	Talks On: **Metal Additive**	Talks On: **Green Tribology and Nano Tribology**
	Lectures on: **Quantum dots and Carbon dots**	Lectures on: **Photopolymerisation**	Lectures on: **Tribology Applications**
	NETWORKING	**NETWORKING**	**NETWORKING**

Day 2, Agenda

General Session

08:00 AM — INTRODUCTION

09:00 AM — PLENARY

10:00 AM — KEYNOTE

Networking & Refreshments Break @ Foyer

	HALL 01	HALL 02	HALL 03
11:00 AM	Talks On: **Particular and Fiber Composites**	Talks On: **Simulation of Materials Processing and Technologies**	Talks On: **Failure Analysis and Preventions**
	Talks On: **Economical and Ecological Production of Fibre Composites**	Talks On: **Casting, Forming and Machining**	Talks On: **Technical Analysis**
	SESSION DISCUSSION	**SESSION DISCUSSION**	**SESSION DISCUSSION**
02:00 PM	Panel Over: **Characterization of Composites**	Panel Over: **Surface Engineering**	Panel Over: **Failure Investigation and Analysis**
	Workshop On: **Industrial Applications of Composites**	Workshop On: **The Evolution of Material Properties Under the Specific Conditions**	Workshop On: **Construction Materials**
	Lunch Break @ Restaurant	***Lunch Break @ Restaurant***	***Lunch Break @ Restaurant***
04:00 PM	Talks On: **Potential Applications of Carbon Nanotube**	Talks On: **Design and Behavior of Equipment and Tool**	Talks On: **Gypcrete and concrete**
	Lectures on: **Nanophotonics**	Lectures on: **Green Nanotechnology**	Lectures on: **Testing and Certification**
	NETWORKING	**NETWORKING**	**NETWORKING**

Day 3, Agenda

General Session

08:00 AM — INTRODUCTION

09:00 AM — PLENARY

10:00 AM — KEYNOTE

Networking & Refreshments Break @ Foyer

	HALL 01	HALL 02	HALL 03
11:00 AM	Talks On: **Biomaterials**	Talks On: **Electrical, Optical and Magnetic Materials**	Talks On: **Polymer Science and Engineering**
	Talks On: **Dental Biomaterials**	Talks On: **Photonics**	Talks On: **Polymer Materials**
	SESSION DISCUSSION	**SESSION DISCUSSION**	**SESSION DISCUSSION**
02:00 PM	Panel Over: **3D Printing of Biomaterials**	Panel Over: **Optical Nanomaterial for Photonics**	Panel Over: **Industrial Piping**
	Workshop On: **Biophotonics and Biomedical Optics**	Workshop On: **Spectrocopy**	Workshop On: **Composite Polymers and Plastics**
	Lunch Break @ Restaurant	***Lunch Break @ Restaurant***	***Lunch Break @ Restaurant***
04:00 PM	Talks On: **Tissue Engineering and Regenerative Medicine**	Talks On: **Advanced Spintronic Materials**	Talks On: **Corrosion & Wear Engineering**
	Lectures on: **Laser Beam Delivery and Diagnostics**	Lectures on: **Lasers in Medicine and Biology**	Lectures on: **Finite Element analysis of Automotive, aerospace structure**
	NETWORKING	**NETWORKING**	**NETWORKING**

ORGANIZING COMMITTEE MEMBERS



Jaehwan Kim
Professor
Inha University
Korea



Francisco Chinesta
Professor
ENSAM Paris Tech
France



Ahmed Elmarakbi
Professor
University of Sunderland
UK



Gianaurelio Cuniberti
Chair
Dresden University of Technology
Germany

EuroSciCon

22nd International Conference on

Advanced Materials and Simulation

DECEMBER 10-12, 2018
ROME, ITALY

AGENDA

Biography

EuroSciCon

Title: Preparation of the Aluminum Nanoparticles in Hydrogen Atmosphere and stabilization by Benzene

Abdeen Mustafa Omer
ERI Nottingham,UK

Biography

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.

Title: Automotive Graphene-based Nanocomposites

Ahmad Elmarakbi
University of Sunderland, UK

Biography

Professor Elmarakbi obtained his PhD in Mechanical Engineering from University of Toronto, Canada (2004). After a couple of successful postdoctoral fellowships in Canada and Japan, he moved to the University of Sunderland, UK in 2007, where he is, currently, Professor of Automotive Composites. He is also visiting Professor of Vehicle Lightweighting at Hunan University, China. His research interests lie in the area of energy-efficient and safe vehicles (EESVs) including low carbon vehicles, lightweight materials and structures, advanced composite materials, including graphene related materials, for automotive applications, hierarchical meso-architectures as heterogeneous catalysts, and multi-functional materials modelling and design.

Title: Quantum Vibration in localized electronic states of photogenerated carriers in photovoltaic system

Weiqi Huang
Guizhou University
China

Biography

Professor Huang is the Head of pulsed laser etching (PLE) and pulsed laser deposition (PLD) research laboratory and Institute of Nanophotonic Physics in Guizhou University, he has a long-established international record in PLE and PLD grown nanosilicon and nanosemiconductor quantum materials and development of their applications in optoelectronics. He has led PLE and PLD research activities at Guizhou University since 2003, with a focus on a variety of semiconductor materials and nanostructures including Si and Ge quantum dots (QDs), quantun wells (QWs) and nanowires (NWs) on Si.

SPEAKER SLOTS AVAILABLE

Biography

EuroSciCon

Title: Electronic State of Sulphur based- solid state electrolytes

Yoshiyuki Kowada
University of Teacher Education Hyogo, Japan

Biography

Yoshiyuki Kowada has his expertise in structural analysis, electronic state calculation and chemical bonding analysis of amorphous materials. He applied the DV-Xα cluster method, which is one of the first principle molecular orbital calculation, to the solid-state electrolytes and phosphor materials with rare-earth ions. Recently, he pays attention on the study about materials to all-solid-state Li ion batteries for electric vehicles. He is the president of the Society for Discrete Variational Xα.

Title: Nanocrystal silicon growth under electron irradiation

Weiqi Huang
Guizhou University China

Biography

Professor Huang is the Head of pulsed laser etching (PLE) and pulsed laser deposition (PLD) research laboratory and Institute of Nanophotonic Physics in Guizhou University, he has a long-established international record in PLE and PLD grown nanosilicon and nanosemiconductor quantum materials and development of their applications in optoelectronics. He has led PLE and PLD research activities at Guizhou University since 2003, with a focus on a variety of semiconductor materials and nanostructures including Si and Ge quantum dots (QDs), quantun wells (QWs) and nanowires (NWs) on Si.

Title: Study on porosity defects of EBMed Ti64 components by tomographic analyisis

Carmine Pirozzi
CIRA Italian Centre of Aerospace Research

Biography

Carmine Pirozzi Graduated with honors in Industrial Engineering in 2004 with a PhD. in Systems and Technology of Production. He is researcher in additive manufacturing since 2011, involved in projects as HYPROB, TIMA-RITAM, ANGELA, SAT-AM as material science and additive manufacturing engineer specialist. He does coperate with several research centers, universities and firms being authors of more than 10 scientific articles on specialised Journals and conferences.

SPEAKER SLOTS AVAILABLE

Biography

EuroSciCon

Title: Simulation and optimisation of microstructure of nickel cermet as the anode materials for solid oxide fuel cells

Xin Wang
Imperial College London, UK

Biography

Xin Wang is currently working at Imperial College London, Department of Materials as Research Fellow Ceramics . He was a research asscosciate at Department of Physics at Heriot Watt University , Edinburg and research asscosciate at University of Manchester .He has publishe numerous papers and books and his keen interest is Materials Science and fuel cells .

Title: Lab on a wire: Application of silicon nanowires for nanoscience and biotechnology

Gianaurelio Cunniberti
Dresden University, Germany

Biography

Prof. Gianaurelio Cuniberti holds since 2007 the Chair of Materials Science and Nanotechnology at the Dresden University of Technology. He leads the Nanobiomaterials Department of the Max Bergmann Center of Biomaterials Dresden and is the founding director of the Dresden Center for Computational Materials Science (DCCMS). He studied Physics at the University of Genoa and at the University of Hamburg and was visiting scientist at MIT and the Max Planck Institute for the Physics of Complex Systems Dresden. From 2003 to 2007 he was at the head of a Volkswagen Foundation Junior Research Group at the University of Regensburg. Prof. Cuniberti has made lasting contributions to a wide range of areas from quantum dots, nanowires and nanotubes to biosystems.

Title : Silver Nanoparticles in water treatment: the heavy metals capture

Venditti Iole
University of Rome

Biography

Venditti I is Researcher in Inorganic Chemistry (Department of Sciences, University of Rome Tre, **Italy).Her scientific interests are focused in the field of micro and** nanostructured materials for advanced technological applications. For the preparation of such materials were used noble metals (Au, Ag, Pt, Pd) and polymeric materials (organometallic polymers, polyenes and polyacrylates), obtainable in nano-micrometric dimensions and controlled shape through different approaches. These research activities have been reported in 70 papers in international peer-reviewed journals, 2 book chapters, 2 patents.

SPEAKER SLOTS AVAILABLE

Biography

EuroSciCon

Title: Electrochemical detection of Sunset Yellow using graphene-modified electrodes

Stela Maria Pruneanu
National University
Romania

Biography

Stela Maria Pruneanu received her B.Sc. in Physics in 1987 and her Ph.D. in Physical-Chemistry in 1999, from Babes-Bolyai University, Cluj-Napoca, Romania. During 2004–2008, she worked as Post Doc at Teesside University and Newcastle University, UK. She is currently Senior Researcher at INCDTIM Cluj-Napoca and her interest is focused on carbon-based nanocomposites used for electrochemical and analytical applications.

Title: Thermal cycling behavior of air plasma sprayed thermal barrier coatings on Inconel X750

Muhammad Shahid
National University

Biography

Muhammad Shahid did his BSc in Metallurgical Engineering in 1983 from Pakistan and PhD in 1991 from UK. He served industry in Pakistan for 12 years before switching to academia in 2001. He has supervised about 40 undergraduate and 28 MS research projects. He passed out 3 PhDs and currently supervising 2 PhD students. Muhammad Shahid is a full time Professor at School of Chemical and Materials Engineering, National University of Sciences & Technology, Islamabad, Pakistan.

Title : New polymer materials for heat pumps

Ibragim E. Suleimenov

Almaty University

Biography

Ibragim E. Suleimenov has completed his PhD (physics) at the age of 25 years from Leningrad State University, USSR. He is and his Doctor of Sciences (chemistry), Almaty, 2000, Academician of National Engineering Academy of Kazakhstan. He is the professor of Almaty University of Power Engineering and Telecommunications, Kazakhstan. He has over 400 publications that have been cited over 600 times.

SPEAKER SLOTS AVAILABLE

Biography

EuroSciCon

Title: Assumptions of Heat Generation in Modelling the Friction Stir Welding of Steel

M. Almoussawi
Al Furat Technical University

Biography

Dr. Montadhar Al-moussawi obtained his Ph.D degree in Materials Engineering from Sheffield Hallam University/ MERI under the supervision of Prof. Alan Smith. The main field includes modelling and simulation the friction stir welding process as well as, metallurgy examination and residual stresses analysis.

Title: CONVERSION OF PLASTIC AND SAWDUST WASTES INTO CONSTRUCTION MATERIALS

Abubakar Ahmed
Kazaure University

Biography

Abubakar Ahmed a senior lecturer with the department of architectural technology (hafedpoly) Kazaure. h.n.d building technoly (hukpoly katsina nigeria), p.g.d. project management (abubakar tafawa balewa university bauchi nigeria),msc construction project management from the university of Wolverhampton. England, attended a 4 days capacity building workshop on project management in Dubai 2015.

Title: Numerical and Experimental Investigation of Transport phenomena in Submerged arc welded plate

Aniruddha Ghosh
WBGS

Biography

Dr.Aniruddha Ghosh, Assistant Professor in WBGS, Department of Mechanical Engineering, Govt. College of Engg. & Textile Technology, Berhampore, West Bengal, India. He awarded PhD from IIT(ISM) Dhanbad and his PDF was from IIT Kanpur. Recently two research papers have been published in the SCIE journal-journal of material processing technology.

SPEAKER SLOTS AVAILABLE

Biography

EuroSciCon

Title: INVESTIGATION ON WELDABILITY BEHAVIOUR OF CHROMIUM -FREE NICKEL FILLER WITH STAINLESS STEEL AISI-304.

Nataraj J.R.
R.V College of Engineering

Biography

Dr. Nataraj J.R is Associate Professor at Mechanical Department of R.V. College of Engineering, Bengaluru. He has about 12 years of Teaching and research experience and two years of Industrial experience. He obtained his M.E. degree from University of Applied Sciences, Wildau, Berlin, Germany with scholarship grants from prestigious DAAD in the year 2003-05. He obtained Doctoral degree from Kuvempu University, Karnataka in 2014 in the field of Cr-free welding and new materials development.

Title: Enhanced discharge capacity of metal-O_2 batteries using nano activated carbon

V.Rajendran
Dr. N.G.P College I

Biography

Dr. V Rajedran is presently working in the areas of nano metal oxides for different industrial applications, Nanosilica from rice husk for applications such as textiles and biomedicals, Nano bioactive glasses for biomedical applications, and is developing Nanoparticles from herbal plants for biomedical applications. Under his able guidance, 24 scholars have completed their Ph.D. degrees and 9 scholars are currently pursuing their Ph.D. degrees. He has to his credit more than 232 research papers in reputed peer-reviewed international journals, 125 papers in conference proceedings, 25 textbooks, and national referred journals. He is the Principal Investigator of 22 2 research books, 1 monograph, 1 compendium book, 14 edited research books, 7 edited conference proceedings, and 13 patents.

Title: Simulation and Development of Counter Weight Casting.

Koushik Kosanam
R.V College of Engineering,

Biography

K.Koushik is pursuing his 3rd year Mechanical Engineering in R.V.College, Bangalore,India. He is a current researcher working in materials. He is currently working as a chassis Engineer in Team Helios Racing. He is also working on alloy materials for high temperature applications. He has submitted his technical paper on chassis of ATV which got selected for M32018 Conference Singapore.

SPEAKER SLOTS AVAILABLE

Biography

EuroSciCon

Title: Nanomaterials and Nanotechnology-An Insight

T. Theivasanthi
Kalasalingam University

Biography

Dr. (Ms) T.Theivasanthi of *Kalasalingam University* doing research in nanomaterials / nanotechnology; has 14 years of teaching experience; published many research articles/ books and h-index 10; life member of Indian Science Congress Association and Magnetics Society of India; member of International Association of Advanced Materials; serving as Editorial Board Member/ reviewer for some scientific journals; lead editor in *JNNN* special issue (SAGE Publications, UK); achieved many awards/ honours/ recognitions including - Madurai Women Achievers Award - 2013, Motivational Award - 2015 and 2015 Women's Day Award of St.Annes College; achieved World Record in LIMCA Book of Records-2015 for nanotechnology invention "World's first superparamagnetic plants materials – named "Santhi Particles".

Title: Effects of Charged Hydrogen in Iron and Temperature on the properties of surface films formed in pure water

Ahsan Ejaz
Mirpur University

Biography

Ahsan Ejaz has his expertise in the field of corrosion science and engineering, especially hydrogen assisted corrosion of various structural as well as nuclear materials. Ha has a excessive experience in the field of pitting corrosion that may be caused by the hydrogen or aggressive anions in various solution at different environmental conditions. He has good command on the electrochemical processes during the corrosion progression by using various electrochemical techniques. He has constant associations with the manufacturing industries to guide them for the betterment of structural and nuclear materials.

Title: Preparation of the Aluminum Nanoparticles in Hydrogen Atmosphere and stabilization by Benzene

Normatov Inom Sherovich
Tajik National University

Biography

Normatov Inom Sherovich of 1958 year of birth. Corresponding Member of Academy of Sciences of the Republic of Tajikistan (2004), Doctor of Chemistry (1993), professor (1996). Winner of the Award of Lenin Komsomol (1990). For the period 2002-2009 Director of the Institute of Water problems, Hydropower and Ecology of the Academy of Sciences of the Republic of Tajikistan, Head of the Department of Meteorology and Climatology of the Tajik National University. Sub-Manager of the International EUROPEAN Commission 6th FP Project "JAYHUN" (2006-2009). Manager of the Project Volkswagen Fund "Impact of transition processes on environmental risk assessment and risk management strategies in Central Asian Transboundary Basin" (2007-2010), USAID-University of Colorado Project "Contribution to High Asia Runoff from Ice and Snow" (2013-2016), Manager of the ISTC Project T - 2109 (2014-2017).

SPEAKER SLOTS AVAILABLE

Biography

EuroSciCon

Title: Photocatalytic efficiency of PVDF/TiO2 nanofibers produce by SBS process

Fernaando Paula
Sao Paulo State university

Biography

Fernando R de Paula is a physicist, with BSc from the State University of Londrina, MSc and PhD from Federal University São Carlos, Brazil (2009).

Title: Research on Post-Si devices based on Ge and 2D channel materials and TCAD Simulation

Kazuhiko Endo
National Instyitute of Advanced Industrial Science and Technology
Japan

Biography

Kazuhiko Endo is a group leader in the Advanced Materials and Devices Integration Group, Nanoelectronics Research Institute, National Institute of Advanced Industrial Science and Technology, Japan. He received a Ph. D. degree in electrical engineering from the Waseda University in 1999. His research interests include nanometer-scale manufacturing for aggressively scaled multi-gate devices in advanced CMOS technologies. Prior to joining AIST, he was with Silicon Systems Research Laboratories, NEC Corporation from 1993 to 2003 where he worked on the research and development of multilevel interconnects and high-k gate-stack technologies for ULSI. He was a visiting scholar at the Stanford University (1999) and at the University of California Santa Barbara (2015).

Title: Comparative Spectroscopic Analysis and Photoluminescence Study of Two Different Phosphors

Atri Mallick

Ramkrishna Mission

Biography

Atri Mallick is pursuing his M.Sc in Applied Chemistry from Ramakrishna Mission Vidyamandira, Belur Math, Howrah, West Bengal, India. He did industrial training and project from H & R Johnson, Mumbai (Ceramic Tile Manufacturing Plant) and presented the report in front of R & D and marketing heads of the company. He got prestigious summer fellowship from Indian Academy of Sciences twice for two consecutive years(2017 & 2018).

SPEAKER SLOTS AVAILABLE

Biography

EuroSciCon

Title :New polymer materials for desalination systems

Ibragim E. Suleimenov
Almaty University

Biography

Ibragim E. Suleimenov has completed his PhD (physics) at the age of 25 years from Leningrad State University, USSR. He is and his Doctor of Sciences (chemistry), Almaty, 2000, Academician of National Engineering Academy of Kazakhstan. He is the professor of Almaty University of Power Engineering and Telecommunications, Kazakhstan. He has over 400 publications that have been cited over 600 times.

Title: Studies on the effect of Multiwalled Carbon Nanotube (MWCNT) on thermal properties of Maleic Anhydride Grafted Polypropylene (MAGPP) and Polypropylene Copolymer Composite (PPCP)

RAJESH KUMAR
Omsania University

Biography

Bheema Rajesh Kumar studied M.Tech in Chemical Technology (Material Science and Technology) from Osmania University, Hyderabad with Distinction. He had done research work on Polymers, Wastewater treatment, Bio-Materials and Nano materials.

Title: Additive Manufacturing of Stainless Steel Matrix Nanocomposites

Bandar AlMangour
Saudi Iron and Steel Company(HADEED)
Saudi Arabia

Biography

Bandar AlMangour is a researcher at SABIC, Saudi Arabia. He earned his PhD in Materials Science and Engineering from UCLA in 2017. AlMangour is a member of several professional associations and editorial boards, and he still served as a reviewer in several internationally recognized journals. AlMangour has authored more than 25 peer-reviewed papers in internationally recognized journals and presented research at several international conferences.

SPEAKER SLOTS AVAILABLE

Biography

EuroSciCon

Title: Investigating the "Sticker" phenomena at HADEED Company

Bandar AlMangour
Saudi Iron and Steel Company(HADEED)
Saudi Arabia

Biography

Bandar AlMangour is a researcher at SABIC, Saudi Arabia. He earned his PhD in Materials Science and Engineering from UCLA in 2017. AlMangour is a member of several professional associations and editorial boards, and he still served as a reviewer in several internationally recognized journals. AlMangour has authored more than 25 peer-reviewed papers in internationally recognized journals and presented research at several international conferences.

Title

Name
Affiliation

Biography

Title

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Biography

SPEAKER SLOTS AVAILABLE

City Attractions



Colosseum



Imperial Forum



Pantheon



Pyramid Of Caius Cestius

City Attractions


Sant'Ignazio Church


St Peters


The Catholic Church Vatican


Trastevere Square