

3rd ADVANCED
**MATERIALS
SCIENCE
WORLD
CONGRESS**

MARCH 21-22, 2022

LONDON, UK

Theme

" Anticipating Future Trends, New
Insights, and Cutting-Edge Technologies in
Materials Science and Engineering "

2

DAYS WITH MORE THAN
45 SESSIONS,
KEYNOTES & TALKS

12+

INNOVATIVE FEATURED
SPEAKERS

20+

HOURS OF
NETWORKING EVENTS

60+

INTERNATIONAL
SPEAKERS

125+

EDUCATIONAL SESSIONS

ADV. MATERIALS SCIENCE 2022

<http://advanced-materialsscience.peersalleyconferences.com/>



Doctors | Physicians| Academic Researchers | Internists |
Nanotechnology Professionals | Researchers and Scholars
| Professors Biotechnologists | Policy Makers and Nobel
Laureates | Scientists | Academicians and Students | Industries
| Professors | Research Labs | Societies and Associations |
Delegates | Students | Materials Science and Nanotechnology
| Business Entrepreneurs | Advanced Materials Companies
| Nanotechnology Companies | Materials Science and
Engineering Colleges and Training Institutes | Associations

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WELCOME MESSAGE

Dear Colleagues,

Let me extend warm greetings to the participants of the “**3rd Advanced Materials Science World Congress**” in **London, UK** during **March 21-22, 2022**. The theme, “*Anticipating Future Trends, New Insights, and Cutting-Edge Technologies in Materials Science and Engineering*” is exciting and most timely. We hope that this congress will shed new light on various branches of materials science and engineering, and we wish you a fruitful couple of days next spring in London.

Thomas F. George

**Chancellor and
Professor Emeritus
of Chemistry and Physics
University of Missouri
–St. Louis, USA**



Welcome Message

Dear Colleagues,

On behalf of the Organizing Committee I have the great pleasure to welcome all participants to the 3rd **Advanced Materials Science World Congress ("Adv. Materials Science 2022")** held during **March 21-22, 2022** in **London, UK**. This conference is the continuation of a highly successful series of global meetings on Materials Science organized by Peers Alley Media, Canada, a renowned and leading organization managing and partnering materials science conferences worldwide.

As last year's conference was a great success, following its tradition, this year the conference presents again a wide array of highly interactive sessions with distinguished speakers from the top notch industries, institutions and universities, eminent researchers, faculty members, experts and students sharing their most recent knowledge and experience, and presentations by editors of prestigious journals.

A comprehensive multidisciplinary program has been designed and will be presented by a well-renowned international faculty. This year the conference will focus on **"Anticipating Future Trends, New Insights, and Cutting-Edge Technologies in Materials Science and Engineering."**

There will be opportunities for conference attendees to learn, share, and ask experts about their specific interests and concerns in materials science and engineering.

A large room for discussions and networking will be reserved on the agenda to stimulate research activities in these fields. We hope that our conference will shed new light on various branches of materials science and engineering, chemistry and nanotechnology.

We guarantee that for aspiring professionals this wonderful event will be full of inspiration, exchange break-through ideas, and establish contacts and fruitful collaborations.

As an added value, the conference attractive location ensures that all participants will have a memorable experience. The organizers are looking forward to meeting you all in March 2022 in London.

Sincere regards,

Adv. Materials Science 2022

Organizing Committee

Peers Alley Media

1126 59 Ave East, V5X 1Y9, Vancouver BC, Canada

FEATURED SPEAKERS



Romesh Batra

Virginia Polytechnic Institute
and State University, USA



**Evangelos
Kordatos**

Sheffield Hallam
University, UK



Shouxun Ji

Brunel University London
UK



Jack Luo

University of Bolton
UK



Hans-Jorg Fecht

Ulm University
Germany



Stoyko Fakirov

Auckland University
Newzealand



Shen-Ming Chen

National Taipei University of
Technology, Taiwan



Ching-Ting Lee

National Cheng Kung
University, Taiwan



Kee Hoon Kim

Seoul National University
South Korea



**Vakhtang
Barbakadze**

Tbilisi State Medical University
Georgia

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FEATURED SPEAKERS



Luthais McCash

University of Leicester
UK



Zhiwei Hu

Max Planck Institute
Germany



Kian Habibi

Polytechnic University of
Catalonia, Spain



**Francesca
Deganello**

CNR-ISMN , Italy



**Evelina Pavlovna
Domashevskaya**

Voronezh State University
Russia



Sviatoslav Avilov

Voronezh State University
Russia



Jaime F B Puna

Instituto Superior de
Engenharia de Lisboa, Portugal



Mineo Hiramatsu

Meijo University
Japan



Cong Wang

Beihang University , China



Linjuan Zhang

Chinese Academy of Sciences,
China

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FEATURED SPEAKERS



Sheng Dai

East China University of
Science and Technology, China



Zhifeng Huang

Hong Kong Baptist University
Hong Kong



Maxim A Petrunin

Russian Academy of Sciences
Russia



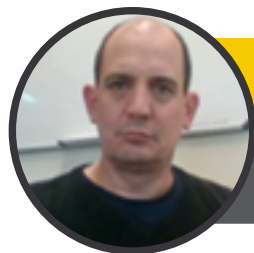
Dingyuan Tang

Nanyang Technological
University, Singapore



Giora Z Feuerstein

Debina Diagnostics Inc, USA



Alejandro Amaya

University of the Republic
Uruguay



Xijia Wu

National Research Council
Canada



Rong Liu

Carleton University
Canada



Ana Chor

Federal University of Rio de
Janeiro, Brazil



**Christian David
Rodrguez-Camargo**

CEIL-MD, Colombia

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FEATURED SPEAKERS



Iulia Salaoru

De Montfort University, UK



Ulrich Giese

German Institute of Rubber
Technology, Germany



**Hans-Joachim
Freund**

Fritz Haber Institute of the Max
Planck Society, Germany



Alberto Curcio

Paris Diderot University
France



**Bouquillon
Sandrine**

University of Reims
Champagne-Ardenne, France



**Zahilia Cabn
Huertas**

Aalto University, Finland



Mahmoud Bakr

Kyoto University, Japan



Hyun-Joong Kim

Seoul National University
South Korea



Osman Adiguzel

Firat University, Turkey



Hafezur Rahaman

Islamic University, Bangladesh

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FEATURED SPEAKERS



Jalal Uddin

Islamic University
Bangladesh



Arthur Mantel

L.N. Gumilyov Eurasian National
University, Kazakhstan



**Bauyrzhan
Rakhadilov**

S.Amanzholov East Kazakhstan
University, Kazakhstan



Samvel H Sargsyan

Shirak State University
Armenia



**Alaa Mohammed
Razzaq**

Middle Technical University,
Iraq



Badis Bendjemil

University 08 Mai 1945 Guelma
Algeria



**Nour-El-Hayet
KAMEL**

Algiers Nuclear Research
Center Algeria



Ikelle I Ikelle

Nigeria Maritime University
Nigeria



Aman Kumar

Patna University
India



Safia Akram

National University of Sciences
and technology, Pakistan

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FEATURED SPEAKERS



Jai Singh

Charles Darwin University
Australia



Hongtu He

Southwest University of
Science and Technology, China



Gagarsky Sergey

ITMO University, Russia



Jinshu Wang

Beijing University of
Technology, China



Lucia DAccolti

University of Bari , Italy



Jae Bok Seol

Gyeongsang National
University South Korea



**Khmich
Abderrahim**

University Sultan Moulay
Slimane Morocco



Zoya Ghanem

Czech Technical University
Czech Republic



Thomas Klein

Austrian Institute of
Technology Austria



Bo Sun

Institute of Applied Physics
and Computational
Mathematics, China

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FEATURED SPEAKERS



Antonio Enrique Salas Reyes

National Autonomous University of Mexico, Mexico



Ximena Jaramillo-Fierro

Universidad Técnica Particular de Loja, Ecuador



Ganesh Karthic

KCG College of technology, India



Rosimara Passos Toledo

Federal University of Itajubá Brazil



Petr Patenka

Czech Technical University Czech Republic



Alicja Ukaszczyk

AGH University of Science and Technology, Poland



Fabiola Monroy-Guzmán

National Institute of Nuclear Research, Mexico



Donatella Giuranno

National Research Council(CNR)Italy



Petriev Iliya Sergeevich

Southern Scientific Centre of the RAS, Russia



Rodolfo Morales-Dvila

Instituto Politécnico Nacional-ESIQIE, Mexico

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FEATURED SPEAKERS



**Desalegn Atalie
Wollelaw**

Bahir Dar University, Ethiopia



Valentin Gavriljuk

Kyiv Academic University
Ukraine



Samsul Rizal

Syiah Kuala University
Indonesia



Friedrich Waag

University of Duisburg,
Germany



**Pedro Jacinto
Pramo Kaetas**

Universidad del Valle de
México Mexico



**Solomon
Hanson Duntu**

York University, Canada



**Stanislaw
Karczmarzyk**

Warsaw University of
Technology, Poland



Matja Godec

Institute of Metals and
Technology, Slovenia



**Leonarda
Francesca Liotta**

CNR-ISMN , Italy



Jacob L. Bair

Oklahoma State
University, USA

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FEATURED SPEAKERS



**Ershad
Mortazavian**

University of Nevada Las
Vegas, USA



Brian Cantor

University of Oxford, UK



Samantha Islam

University of Cambridge, UK



Abdeen Omer

Energy Research
Institute, UK



**Dongmin
Yang**

University of Edinburgh, UK



**Elisa I.
García-López**

University of Palermo, Italy



**Claudia
L. Bianchi**

University of Milan, Italy



**Valyae Alexander
Nikiforovich**

Russian Academy of
Sciences, Russia



Michael Akim

Academy of Sciences,
Russia



**Valeriy
Morozov**

Russian Academy
of Sciences, Russia

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FEATURED SPEAKERS



Christian Gruber

Voestalpine BÖHLER
Aerospace GmbH & Co KG,
Austria



Imants Kaldre

University of Latvia, Latvia



Geoffrey Spinks

University of Wollongong,
Australia



**Shovon
Bhattacharjee**

UNSW Sydney, Australia



Mujahed Alsomiri

Southeast university, China



Jianfeng Wang

City University of
Hong Kong, China



Shaista Airam

Beijing Institute of
Technology, China



Shen Yan

China National Tobacco
Corporation, China



Xin He

Zhejiang University, China



Yucheng Zhou

Southern University of
Science and Technology, China

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FEATURED SPEAKERS



Chengbin Yu

Seoul National University,
South Korea



Victor E. Ogbonna

Tshwane University of
Technology, South Korea



Sipho Mdanda

University of the
Witwatersrand, South Africa



Bill Vaneck BOT

University of Douala,
Cameroon



**Sami Abdo
Mohammed Al-Alimi**

Universiti Tun Hussein Onn
Malaysia, Malaysia



Abdul Shakoor

Qatar University, Qatar



Sehrish Habib

Qatar University, Qatar



**Hassan
Mohamed Diab**

Egyptian Atomic Energy
Authority, Egypt



**Mohamed Ragab
Abass**

Egyptian Atomic Energy
Authority, Egypt

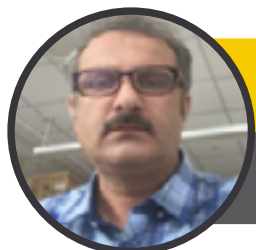


**Leonardo
Manuel**

Lurio University,
Mozambique

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FEATURED SPEAKERS



Muhammad Ijaz Khan

University of Swabi, Pakistan



Muneebur Rahman

Islamia College Peshawar, Pakistan



Moera Gutu Jiru

Adama Science and Technology University (ASTU), Ethiopia



Lalit Goswami

SIR-National Physical Laboratory, India



Swapna Koneru

Koneru Lakshmaiah Education Foundation, India



P. Ravindran

University of Tamil Nadu, India



Rupali Nagar

Symbiosis International Deemed University, India



Sreedhar Madichetty

Mahindra University, India



Rasoul Fatahi

University of Tehran, Iran



Ehsan Vafa

Islamic Azad University, Iran

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FEATURED SPEAKERS



Ali Alsalman

Almaaqaal University, Iraq



Yahia Chergui

Université M'hamed Bougara
Boumerdes, Algeria



**kahouadji
Badis**

University of Bejaia, Algeria

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PRESENTATION FORUM

KEYNOTE FORUM / MINI-PLENARY SESSIONS

Presentations under Keynote Forum or Mini-Plenary Sessions includes abstracts with remarkable research value selected by the program committee. These significant speeches are delivered by globally recognized honorable speakers and it is open to all registrants.

DISTINGUISHED SPEAKERS FORUM (ORAL ABSTRACT SESSIONS)

In this forum, speakers and experts of the research field gets an opportunity to showcase their noble research work that involves comprehensive research findings. These formal oral presentations include a wide range of talks covering basic research to advanced research findings in accordance to the theme and scientific sessions of the conference.

STUDENT FORUM

POSTER SESSION

This session is particularly introduced to encourage more number of student participation at international conferences, however it is not restricted only to students since it is also available for the participants with language barrier. There are specific guidelines to be followed to prepare the poster. Poster topic should be selected only from relevant scientific sessions with in-depth technical details.

YOUNG INVESTIGATORS FORUM

An exclusive opportunity for students and young investigators to present their research work through a formal oral presentation. Young Investigators Forum provides a global platform for young researchers and scholars to showcase their valuable contribution to the scientific world and to get acknowledged by the global scientific community of experts. It is an excellent opportunity to recognize young scientific assets with promising research ideas. These oral presentations are of shorter time duration with 10-15 minutes of informative and precise presentations in relevant scientific sessions.

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EDUCATIONAL WORKSHOPS/RESEARCH WORKSHOPS/ CORPORATE WORKSHOPS/ MINI- SYMPOSIA

With an aim of transferring knowledge among the participants, workshops are introduced as a part of international conferences. These interactive and occasionally practical sessions gives an opportunity for participants to engage in detail discussion. Workshops are mostly scheduled for 60 to 90-minutes. It may range from learning about a specific topic relevant to international education, products and research which sometimes involves practical demonstration. It helps in enhancing skills, knowledge and understanding of the research field in depth through interactive discussions.

MEET THE PROFESSOR @ NETWORKING SESSIONS

This session involves open discussion between the experts and session attendees, it gives enough time for getting answers to specific questions and doubts. It is an opportunity for attendees to increase their professional networking, sometimes also leads to an excellent collaboration opportunity.

HIGHLIGHTS OF THE DAY SESSIONS

“Highlights of the Day Sessions” is introduced to discuss and focus a ray upon previous day ORAL ABSTRACT presentations by experts to summarise the key findings. It helps in getting better insights into the various dimensions of the topic.

EDUCATIONAL SESSIONS/ TRAINING PROGRAMS

Educational Sessions or training programs are specifically designed for a better understanding of the latest findings and technologies. These are generally 45-minute sessions that gives an exposure to the multidisciplinary field, that provides in-depth learning experiences and address educational needs.

SCIENTIFIC TRACKS/ SESSIONS

Materials Science and Engineering | NanoMaterials, Nanoscience and Nanotechnology | Biomaterials and Medical Devices | Advanced Materials and NanoDevices | Advanced Energy Materials and Applications | Polymer Technology and Plastics | Ceramics and Composite Materials | Surface Science and Interfaces | Smart & Hybrid Materials | Materials Theory, Modeling and Characterization | Materials Chemistry | Materials Physics | Structural and Nanostructured Materials | Graphene, Carbon and 2D Materials | Computational Materials Science | Electronic, Optical and Magnetic Materials | Advances in Dielectric, Piezoelectric Materials | Materials in Green Technology | Materials Synthesis and Processing | Metals, Mining, Metallurgy and Materials | Glass Science and Technology | Bioinspired Materials and Systems | Manufacturing Innovations and Metal Casting Technology.

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REGISTER & PARTICIPATE

in

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TYPES OF ACADEMIC REGISTRATIONS

SPEAKER REGISTRATION

COMBO A

(REGISTRATION + 2 NIGHT ACCOMMODATION)

COMBO B

(REGISTRATION + 3 NIGHT ACCOMMODATION)

DELEGATE REGISTRATION

TYPES OF BUSINESS REGISTRATIONS

SPEAKER REGISTRATION

COMBO A

(REGISTRATION + 2 NIGHT ACCOMMODATION)

COMBO B

(REGISTRATION + 3 NIGHT ACCOMMODATION)

DELEGATE REGISTRATION

TYPES OF STUDENT REGISTRATIONS

REGISTRATION

41F

COMBO A

(REGISTRATION + 2 NIGHT ACCOMMODATION)

COMBO B

(REGISTRATION + 3 NIGHT ACCOMMODATION)

POSTERS

TYPES OF ADDITIONAL REGISTRATIONS

ACCOMPANYING PERSON

E-POSTER

VIRTUAL PRESENTATION

WORKSHOPS

START-UPS

“ TIME TO
CONNECT
WITH YOUR
PEERS ”

CONCURRENT EDUCATIONAL SESSIONS

MONDAY
MARCH 21
2022

MATERIALS SCIENCE

- Applications of Materials Science
- Emerging Technologies in Materials Science
- Computational Materials Science
- Biomimetic materials
- Materials and Design
- Novel Materials, Multifunctional Materials
- Quantum Materials
- Materials Innovation and Development
- Carbon nanostructures and devices

NANOSCIENCE & NANOTECHNOLOGY

- Nanochemistry
- Green Nanotechnology
- Carbon nanotechnology
- Bionanotechnology
- Nanofabrication
- Functional Nanomaterials
- Molecular Engineering
- Nanophotonics
- Nano Structured Carbon Materials
- Bionanomaterials

BIOMATERIALS & MEDICAL DEVICES

- Drug Delivery Systems
- Nuclear Medicine
- Optical Imaging
- Rehabilitation Engineering
- Biosensors
- Tissue Engineering and Regenerative Medicine
- Ultrasound
- Computational Modeling

ADVANCED MATERIALS & NANODEVICES

- Advanced Engineering Materials
- Advanced Functional Materials
- Advanced Energy Materials
- Advanced Healthcare Materials
- Advanced Optical Materials
- Advanced Materials Interfaces
- Advanced Electronic Materials
- Advanced Materials Technologies

GROUP PHOTO | COFFEE BREAK

ENERGY MATERIALS

- Batteries & Fuel Cells
- Photovoltaic Materials
- Renewable Energy
- Energy Storage
- Fossil & Nuclear Energy
- Bioenergy
- Geothermal
- Renewable Fuels
- Solar Energy

POLYMER SCIENCE & PLASTICS

- Lasers in Polymer Science
- Polymer Matrix Composites
- Polymer Chemistry
- Plastics and the Environment
- Biopolymers
- Smart Polymeric Materials
- Hybrid organic-inorganic materials synthesis
- Dendritic polymers

CERAMICS & COMPOSITE MATERIALS

- Advanced Composite Materials
- Automotive Composites
- Polymer Composites
- Ceramic Lasers
- Nanoceramics
- Bioceramics
- Nanocomposites
- Biocomposites
- Advanced Ceramics
- Brick and Structural Clay
- Refractories

SURFACE SCIENCE & INTERFACES

- Applied Surface Science
- Surfaces and Interfaces
- Theoretical surface science
- Surface physics
- Surface Chemistry
- Coatings and surface treatments
- Surface characterization
- Interfaces and thin films
- Nanostructured materials

LUNCH BREAK

SMART & HYBRID MATERIALS

- Smart Materials and Structures
- Magnetic smart materials
- Shape Memory Alloys
- Magnetostrictive
- Shape Memory Polymers
- Hydrogels
- Electroactive Polymers
- Bi-Component Fiber
- Polymer hybrid materials
- Bio-inorganic Hybrid Nanomaterials
- Semiconductor Photocatalysis

MATERIALS CHARACTERIZATION

- Material characterization Techniques
- surface characterization techniques
- Ultrasonic Materials Characterization
- Atomic Theory and Atomic Structure
- Material balance analysis theory
- Powder Characterization
- Coatings Characterization
- Dispersions Characterization
- Microscopy of Semiconducting Materials

MATERIALS CHEMISTRY

- Organic Chemistry
- Inorganic Chemistry
- Physical Chemistry
- Theoretical Chemistry
- Chemistry-Biology Interface
- Materials Chemistry
- Catalysis
- Green chemistry
- Analytical chemistry

MATERIALS PHYSICS

- Atomic structure and interatomic bonding
- Condensed-Matter and Materials Physics
- Nanoscale physics
- Particle physics
- Solid state physics
- Magnetism and superconductivity
- Condensed matter physics
- Solar physics

COFFEE BREAK

STRUCTURAL & NANOSTRUCTURED MATERIALS

- Structural Mechanics
- Nano WaterCube
- Fibre reinforced cementitious materials
- Quantum dot
- Quantum heterostructure
- Nanowire
- Nanostructured film
- Gradient multilayer nanofilm
- Nanocages
- Magnetic nanochains
- Nanocomposite

GRAPHENE, CARBON & 2D MATERIALS

- Carbon nanotubes
- Graphene and fullerenes
- Graphene and ultra tin 2D materials
- Graphene 3D printing
- Uses on carbon Nanotubes
- Graphene The Ultra-Capacitor
- Graphene devices
- Application of Graphene in biomedical area

COMPUTATIONAL MATERIALS SCIENCE

- Numerical simulation
- Computational physics/chemistry
- Materials/engineering databases
- Nanomaterials synthesis
- Advanced manufacturing technology
- Process system design
- 3D printing, plastic deformation
- Statistical/artificial intelligence methods

ELECTRONIC, OPTICAL & MAGNETIC MATERIALS

- Electronic Materials and Devices
- Quantum Materials
- Nanofabrication and Processing
- Materials for Memory and Computation
- Transparent Conductors
- Advances in Optical Materials
- Novel Optical Materials and Applications
- Nonlinear Optical Materials
- Narrow Bandgap Materials and Devices

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CONCURRENT EDUCATIONAL SESSIONS

TUESDAY
MARCH 22
2022

DIELECTRIC MATERIALS

- Dielectrics conductors
- Dielectric strength
- Dielectric Materials and Applications
- Dielectrics and Polarisation
- Capacitor Dielectrics

PIEZOELECTRIC MATERIALS

- Piezoelectric Materials for Energy Harvesting
- Fundamentals of Piezoelectric Sensorics
- piezoelectric crystals
- piezoelectric Sensor
- piezoelectric transducer
- Piezo- and Pyroelectric Materials

MATERIALS IN GREEN TECHNOLOGY

- Green technology architecture
- Green sustainable technology
- Green Technology & Alternative Energy
- Green building materials
- Green materials for sustainable

MATERIALS SYNTHESIS & PROCESSING

- Inorganic Materials Synthesis
- Thin-Film Processing
- Structural and Spectroscopic Probing
- Advanced Materials Design & Processing
- Fundamentals of Materials Synthesis & Processing
- Advanced Technology for Materials Synthesis & Processing

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METALLURGY & MATERIALS

- Materials Joining
- Nano and Bulk Materials Processing
- Iron and Steel Technology
- Integrated Computational Materials Engineering
- Corrosion Protection
- Non-Ferrous Materials and Alloys
- Phase Transformations

GLASS SCIENCE & TECHNOLOGY

- Metallic Glasses
- Photonic Glasses
- Optical devices
- Glass physics
- Glass chemistry
- Nanochannel glass materials
- Glass Ceramics
- Optical fiber
- Optical lens design
- Glass and Optical Materials

BIOINSPIRED MATERIALS

- Bioinspired self-healing materials
- Responsive bio-interfaces and surfaces
- Dynamics of interacting cell-material systems
- Bio-inspired Materials and Sensing Systems
- Bioinspired materials and surfaces for green science

MANUFACTURING INNOVATIONS

- Powder metallurgy
- Manufacturing Process
- Welding
- Machining
- Shearing and Forming
- Molding

LUNCH BREAK

METAL CASTING TECHNOLOGY

- Principles of casting and splinting
- Casting aluminum alloys
- Casting simulation and optimization
- New high-palladium casting alloys
- Continuous Casting
- Metal forming processes
- Metal joining processes

CRYSTALLOGRAPHY

- X-ray Crystallography
- Applications of Crystallography
- Crystallography in Modern Chemistry
- Surface Crystallography
- Solid State Crystallography
- Crystallography in Materials Science
- Electron crystallography
- Chemical Crystallography
- Aperiodic Crystals

CONDENSED MATTER PHYSICS

- Principles of Condensed Matter Physics
- Condensed Matter Field Theory
- Disorder in condensed matter physics
- Encyclopedic Dictionary of Condensed Matter Physics
- Condensed-Matter and Materials Physics
- Topological Aspects of Condensed Matter Physics
- Quantum Field Theory in Condensed Matter Physics

MATERIALS SCIENCE APPLICATIONS

- Material Research & Nanotechnology
- Semiconductors & Microelectronics
- Automotive & Aerospace
- Mining and Minerals
- Textile / Fibre Industry
- Structural Imaging and Analysis

COFFEE BREAK

CHEMISTRY

- Analytical chemistry
- Physical chemistry
- Organic chemistry
- Inorganic chemistry
- Biochemistry
- Food chemistry
- Environmental chemistry
- Agricultural chemistry
- Forensic chemistry
- Geochemistry

SEMICONDUCTORS AND SUPERCONDUCTORS

- Superconductor Technologies for Particle Accelerators
- Superconductivity & Superconductors
- Electrodynamics of high-temperature superconductors
- Superconducting Quantum Computing
- Research
- Iron-based superconductors

MINERALOGY

- Mineralogical Applications of Crystal Field Theory
- Planetary Materials
- Environmental Mineralogy
- Advanced Mineralogy
- Topographical and descriptive mineralogy
- Basalt
- Granite
- Ore geology
- History of mineralogy
- Soil mineralogy

OPTICS

- Geometrical Optics
- Reflection and refraction
- Ray-tracing methods
- Optics: Principles and Applications
- Mathematical Theory of Optics
- Ray Optics
- Optics in Photography
- Optical Coherence and Quantum Optics

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3RD ADVANCED MATERIALS SCIENCE WORLD CONGRESS



March 21-22, 2022
London, UK

<https://advanced-chemistry.peersalleyconferences.com/>

Contact us: adv.materialsscience@speakerscouncil.org

Featured Speakers

Presentation Titles

Jacob L. Bair

Oklahoma State University, USA

Creating Complex 3D and 5D Anisotropy in Phase Field Modeling Interface Energies

Ershad Mortazavian

University of Nevada Las Vegas, USA

Finite Element Investigation of Thermal-kinetic-mechanical Evolutions during Laser Powder Deposition as an Innovative Technique for Rail Repair

Ximena Jaramillo-Fierro

Universidad Técnica Particular de Loja, Ecuador

La-doped ZnTiO₃/TiO₂ and supported on Ecuadorian diatomaceous earth as a highly efficient photocatalyst driven by solar light

Brian Cantor

University of Oxford, UK

Multicomponent High-Entropy Cantor Alloys

Samantha Islam

University of Cambridge, UK

A novel technique for mapping material and information flow in food traceability systems

Abdeen Omer

Energy Research Institute, UK

Design and operation of low energy consumption passive human comfort solutions

Dongmin Yang

University of Edinburgh, UK

Fibre flow in 3D printing of discontinuous fibre reinforced thermoplastic composites

SPEAKER SLOTS AVAILABLE

Elisa I. García-López

University of Palermo, Italy

Metal-Free-Based Photocatalytic Materials: Advances and Future Perspectives for Environmental and Energy purposes

Claudia L. Bianchi

University of Milan, Italy

Floating photocatalysts to exploit sunlight in water remediation

Valyae Alexander Nikiforovich

Russian Academy of Sciences, Russia

Energy Transformation and Accumulation in Solids, irradiated by Charged Particles

Michael Akim

Academy of Sciences, Russia

Biodegradation and incineration as the final stages of the life cycle of polymer packaging in a circular economy

Valeriy Morozov

Russian Academy of Sciences, Russia

Application of luminophore-containing compositions for modifying the spectral characteristics of diamonds in X-ray luminescent separation schemes

Christian Gruber

Voestalpine BÖHLER Aerospace GmbH & Co KG, Austria

Multi-class modeling of grain growth and delta phase dissolution kinetics of alloy 718 with in-situ HT-EBSD measurements

Imants Kaldre

University of Latvia, Latvia

Electromagnetic methods for improved production of additive manufacturing materials

Geoffrey Spinks

University of Wollongong, Australia

Supercoiling Artificial Muscles

Shovon Bhattacharjee

UNSW Sydney, Australia

Graphene derivative and metal nanoparticles coated silk fabrics with durable, multifunctional properties for numerous potential applications

Mujahed Alsomiri

Southeast university, China

Structural behavior of reinforced ultrahigh performance concrete under uniaxial loading

SPEAKER SLOTS AVAILABLE

Jianfeng Wang

City University of Hong Kong, China

Pattern recognition techniques for sand particles

Shaista Airam

Beijing Institute of Technology, China

MnS-Nanoparticles-Decorated Three-Dimensional Graphene Hybrid as Highly Efficient Bifunctional Electrocatalyst for Hydrogen Evolution Reaction and Oxygen Reduction Reaction

Shen Yan

China National Tobacco Corporation, China

Soil carbon supplementation: Improvement of root-surrounding soil bacterial communities, sugar and starch content in tobacco (*N. tabacum*)

Xin He

Zhejiang University, China

Circular Polarizing Filters based on Chiral Metasurface

Yucheng Zhou

Southern University of Science and Technology, China

Applications of anovel general solution to the inhomogeneous spatial axisymmetric problemin functionally graded materials

Chengbin Yu

Seoul National University, South Korea

Advanced graphene aerogel embedded phase change materials (PCMs) for energy harvesting

Victor E. Ogbonna

Tshwane University of Technology, South Korea

A review on polyimide reinforced nanocomposites for mechanical, thermal, and electrical insulation applications: challenges and recommendations

Sipho Mdanda

University of the Witwatersrand, South Africa

Recent advances in microneedle platforms for transdermal drug delivery technologies

Bill Vaneck BOT

University of Douala, Cameroon

Energy potential assessment and Characterization of fuel briquettes made from Cameroonian agricultural crop residues

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Osman Adiguzel

Firat University, Turkey

Shape Memory Phenomena and Thermomechanical Reactions in Reversibility of Shape Memory Alloys

Sami Abdo Mohammed

Al-Alimi

Universiti Tun Hussein Onn Malaysia, Malaysia

Hot ECAP Implementation in Zirconia Reinforced Aluminium Chip Matrix (Al6061) Composite Production

Abdul Shakoor

Qatar University, Qatar

Quasispheroidal $\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{O}_4$ coated with Y_2O_3 and distributed over graphene nanosheets enabling high-voltage and high-energy as cathode in lithium-ion batteries

Sehrish Habib

Qatar University, Qatar

Polyolefin Coatings reinforced with modified hybrid $\text{CeO}_2@\text{ZnO}$ particles for corrosion protection of Steel

Hassan Mohamed Diab

Egyptian Atomic Energy Authority, Egypt

Dosimetric impact of some gamma radiation-induced polymeric materials incorporated silicate using thermoluminescence and ultrasonic techniques

Mohamed Ragab Abass

Egyptian Atomic Energy Authority, Egypt

New Improved Thermoluminescence Magnesium Silicate Material for Clinical Dosimetry

Leonardo Manuel

Lurio University, Mozambique

Human toxoplasmosis in Mozambique: gaps in knowledge and research opportunities

Muhammad Ijaz Khan

University of Swabi, Pakistan

Chloroform-Injection (CI) and Spontaneous-Phase-Transition (SPT) Are Novel Methods, Simplifying the Fabrication of Liposomes with Versatile Solution to Cholesterol Content and Size Distribution

Muneebur Rahman

Islamia College Peshawar, Pakistan

Fabrication of Organic Semiconductor Based humidity Sensor and Its Environmental Applications

Moera Gutu Jiru

Adama Science and Technology University (ASTU), Ethiopia

Investigation of Mechanical Properties of Hybrid Natural Composite

Delma Amalorpavam

Anna University, India

Graphene-silver nanoparticles loaded cement based material improves the mechanical, antimicrobial properties

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Lalit Goswami

CSIR-National Physical Laboratory,
India

Impact of surface functionalization on GaN/ZnO nanostructure
based hetero-interfaced UV photodetectors

Swapna Koneru

Koneru Lakshmaiah Education
Foundation, India

Effective sensitization of Yb³⁺ ions on Yb³⁺/Nd³⁺ co-doped
fluoroborate glasses for NIR luminescence applications

P.Ravindran

University of Tamil Nadu, India

Designing High Efficiency Materials for Energy Generation and
Storage

Rupali Nagar

Symbiosis International Deemed
University, India

Controlling Non-Equilibrium Processes for Fractal Growth

Sreedhar Madichetty

Mahindra Univeristy, India

Maximum Power Point in a Single Step in Solar Photovoltaic
Panels

Rasoul Fatahi

University of Tehran, Iran

Ventilation prediction for an industrial cement raw ball mill by
BNN- a conscious lab approach

Ehsan Vafa

Islamic Azad University, Iran

Synthesis of 45S5 bioactive glass-ceramic using the sol-gel
method, catalyzed by low concentration acetic acid extracted from
homemade vinegar

Ali Alsalman

Almaaqal University, Iraq

Energy and CO₂ Emission Assessments of Alkali- Activated
Concrete and Ordinary Portland Cement Concrete: A Comparative
Analysis of Different Grades of Concrete

Yahia Chergui

Université M'hamed Bougara
Boumerdes, Algeria

Enthalpy Behavior of ZnO Zinc Blende Structure under Isobaric
and Isothermal Ensembles a MD Computation

kahouadji Badis

University of Bejaia, Algeria

Enhancement of photoluminescence properties of nano-sized Pr³⁺
doped LuPO₄ powders by incorporating of Y³⁺ ions

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DISCOVERING

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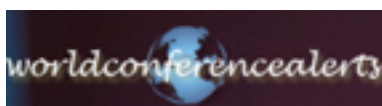


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