

Welcome to the Live Streaming

The Second International Webinar on Science, Sustainable Development and Ecosystems in Saudi Arabia

Day 1



Day 1

Session 1

Moderator : Dr. Hanan Almahasheer



جامعة الإمام عبد الرحمن بن فيصل
IMAM ABDULRAHMAN BIN FAISAL UNIVERSITY
— كلية العلوم College of Science —

ISE'22
The Second International Webinar on Science,
Sustainable Development and Ecosystems in KSA



Meet Our Speaker **Dr. André Schleife**

Engineering defect mobility: Modern materials for batteries and quantum computing

Full Professor at University of Illinois Urbana-Champaign, USA

He received the NSF CAREER award, the ONR YIP award, and was an ACS PRF doctoral new investigator. André is editor for a journal and actively organizes national and international schools, workshops, and tutorials to advance the community around cutting-edge first-principles simulations of materials.



Monday, 14th Feb 2022



9:00 am

You're Invited to Join us





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Meet Our Speaker **Dr. Siddig Nourin Ali**

The Effectiveness of Material Recycling in Stabilizing Sand Dunes That Affect Highways in The Eastern Province

Associate Professor of geomorphology, Geography and Geographic information Systems Department, College of Arts, Imam Abdul Rahman bin Faisal University, KSA.

He is the Chairman and Session Rapporteur of the "Geotuns". He is a member of the Scientific Committee of "Geotuns" Conference and a member of the Scientific Committee of an international scientific Journal. Active member of Academic Societies.



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Meet Our Speaker **Dr. Nadiyah M. Alabdallah**

The Possibility of Irrigating Plants with Seawater and Its Potential Effects

**Assistant Professor College of Science, Imam
Abdulrahman Bin Faisal University, KSA.**

Faculty member at Imam Abdulrahman Bin Faisal University.
She got a PhD degree from King Abdelaziz University, Jeddah,
Kingdom of Saudi Arabia. Specializes in Plant Physiology and
nanotechnology .She Published 20 scientific papers in influential
journals.



Monday, 14th Feb 2022



10:00 am

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Meet Our Speaker **Dr. Mikael Syväjärvi**

Sustainability Approaches for Impact Creation by Advanced Materials Research and Innovation In 2030–2050 Period

**Director, ICM Research Institute, Alminica AB,
Research and Innovation Coordinator, Institute of
Advanced Materials, Sweden**

He has strong track record in research regarding growth of advanced materials since 1995. Since 2005 he has gained experience in the entrepreneurial discovery process by creating startups and technology transfer from research and innovation. He has contributed to establish avenues in European research and innovation strategy for smart specialization for regional economic growth, and strategic national innovation programs. Now he is active in global platforms for business from research, training next generation leaders.



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Meet Our Speaker **Dr. Muhammad Awais**

Food Borne Parasitic Zoonoses: A Threat to Global Food Safety

**Associate Professor of Pathobiology and Director,
Experimental Livestock Farms at Faculty of Veterinary
Sciences, Bahauddin Zakariya University, Multan, Pakistan.**

His research focuses on epidemiological mapping and control of zoonotic diseases in economically deprived communities in the country. To date, he has published more than 60 research articles in internationally reputed journals. He is also the recipient of various national/international awards



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Meet Our Speaker **Prof. Faqir Muhammad**

Use of Nanoparticulate Systems for Bio Detoxification

**Professor and Chairman at Department of Biosciences,
Faculty of Veterinary Sciences, Bahauddin Zakariya
University, Multan-Pakistan.**

He has more than 25 years of teaching and research experience in different national and international organizations. To date, Dr. Muhammad has 125 research articles, 3 patents and 8 books/monographs on his credit. His main research interests include development of polymer nano-particles for drug delivery, bio-detoxification and QSAR analysis of xenobiotics. He is recipient of various national and international awards .



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SSDE'22

Day 1

Session 2

Moderator : Dr. Hanan Almahasheer





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Meet Our Speaker **Dr. Essam Kotb**

Integration Of Contaminating Oxalate from The Environment into The Food Chain: The Role of Oxalate Decarboxylases (Oxdcases) From Probiotic Bacteria

Associate professor of microbiology at the College of Science, Imam Abdulrahman Bin Faisal University , KSA

He is especially concerned with the potentiality of microbial enzymes in the dissolution of different environmental and medical polymers such as fibrin, proteinaceous wastes, oxalate, urate, chitin, keratin, etc. He wrote a book titled "Fibrinolytic Bacterial Enzymes with Thrombolytic Activity" for Springer Publishing, ISBN: 978-3-642-24979-2, 2012. He also share writing of a book titled "Microbial functional foods and nutraceuticals" for John Wiley & Sons, Ltd, 2017.



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Meet Our Speaker **Dr. Zafar Hashmi**

Polychlorinated Biphenyls Congeners Induced Toxicities in Human Lungs Fibroblast Cell

Assistant Professor at Department of Chemistry,
COMSATS University Islamabad, Pakistan

He received Ph.D. in Environmental Engineering from Zhejiang University, China. He has research interest to develop treatment technologies to control Environmental and Industrial Pollution; to understand toxicology mechanisms of PCBs and to develop novel methods for monitoring of environmental pollution.



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Meet Our Speaker **Prof. Wafaa Mohamed Shukry**

Cobalt Alleviates the Drought Stress on Yield Attributes, Nutritive Value, And Protein Pattern of Rice Grains

**Professor in Botany Department, Faculty of Science,
Mansoura University. Egypt**

Her general specialization includes Plant Physiology (Mineral nutrition). She have nearly 55 research paper in a specialized field. She interested in the physiological and biochemical mechanisms associated with the tolerance of crop plants to environmental stresses and pollution. She is the co-author of some books in Arabic: Introduction to the cell and its functions; Alwagez in economic botany; The Basic Principles in plant water relation and mineral nutrition and Tissue culture and cells in plants.



Monday, 14th Feb 2022



2:00 pm

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Meet Our Speaker **Dr. Mohammad Sajjad Khan**

Inhibition Of Single and Mixed Biofilms of Candida Albicans and Streptococcus Mutans by Eugenol

**Assistant Professor at department of Basic Sciences,
Imam Abdulrahman Bin Faisal University, KSA.**

He obtained his Ph.D. in Agricultural Microbiology from Aligarh Muslim University, India. His area of current research work includes natural/plant products for their novel anti-infective activity against drug-resistant pathogenic bacteria and fungi especially Candida albicans and Staphylococcus aureus focusing on anti-biofilm activity. He has published several research and review papers in internationally reputed journals. He has been conferred with the awards from various scientific bodies acknowledging.



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Meet Our Speaker **Dr. Jacob Gayle**

Multi-Band Topological Semimetals for Next Generation Devices

**Assistant Professor of Physics and the leader of the
Quantum Chiraltronics Group at the University of South
Florida in Tampa, Florida.**

He focused on electrical transport in DNA molecules and computational studies of semiconductors. He received his Ph.D. in Physics from Texas A&M University in 2016. During his doctoral studies, he moved to the Johannes Gutenberg University of Mainz to research computational and theoretical condensed matter physics, for both chiral magnetic systems and spin-orbit torques.



Monday, 14th Feb 2022



3:00 pm

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Day 2

Session 1

Moderator : Dr. Tahani Alqahtani



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Meet Our Speaker **Prof. Hafehd Belmabrouk**

Adsorption Isotherms of Methylene Blue onto Several Biomaterials

Professor at Majmaah University, KSA

He was a professor of Physics at the University of Monastir, Tunisia, He occupied many administrative positions, such as head of department of Physics, Deputy dean, member of scientific council, member of the Tunisian Society of Physics. He published more than 130 papers in indexed journals, Now, his research activities are mainly articulated on Material Science, Magnetic and Dielectric Materials Microfluidics and Biosensors Adsorption and Statistical Physics Models.



Tuesday, 15th Feb 2022



9:00 am

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Meet Our Speaker **Prof. Hafedh Kochkar**

Assisted Ferroelectric Enhancement of the Photocatalytic Response of Cu-Doped TiO₂ Nanotubes Induced Through the Addition of Strontium

Full Professor in chemistry at Imam Abdulrahman Bin Faisal University, KSA

He developed continuous flow measurements using the Tapered Element Oscillating Microbalance for MTO process. Kochkar has more than 70 publications, book chapters, 80 communications, 6 plenary lectures and 7 patents (European, TN, US and International); two patents are used in industry. He is leading many projects in the fields of water treatment, hydrogen production from renewable energy sources and fine chemical production.



Tuesday, 15th Feb 2022



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Meet Our Speaker **Prof. Suhairul Bin Hashim**

Wireless transmission System for Radiation Portal Monitoring (MYRPM)

**Professor, Deputy Dean (Research, Development and
Innovation), Universiti Teknologi Malaysia (UTM), Malaysia**

He played a key role in the development of the first Malaysian brand of Radiation Portal Monitors (RPMs). The RPM's have been deployed for scanning cargo containers at ports, vehicles at border crossings, and people at high profile events to detect and deter the smuggling of nuclear and radiological materials that could be used in criminal activities.



Tuesday, 15th Feb 2022



10:00 am

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Meet Our Speaker **Dr. Saira Zia**

Vibration Of Composite Cylindrical Shells

Assistant Professor ,King Faisal University, KSA

Saira Zia Ph.D in Applied Mathematics. Her area of interest is Solid Mechanics and Vibration of Composite Structures. Published number of papers in international refereed journals. Member of Scientific research and quality assurance committees.



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Meet Our Speaker **Dr. Muhammad Zahir Iqbal**

Smart Hybrid Energy Storage Systems for Sustainable Green Technology

**Associate Professor at GIK Institute of Engineering
Science and Technology, Pakistan**

He has completed his PhD degree from Universitat Politècnica de Catalunya (UPC), Barcelona, Spain in 2014 and second PhD degree from Sejong University, Seoul, South Korea in 2015.



Tuesday, 15th Feb 2022



11:00 am

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Meet Our Speaker **Dr. Rizwan Raza**

Clean Energy Materials for Sustainable Development

Associate Professor at COMSATS, Pakistan

He has 16 years of experience in Energy materials research and teaching. Raza has published more than 200 journal papers with total impact factor 1000 , h-Index-38 .He has edited 2 books and 10 book chapters. He has been working on several multidisciplinary projects regarding "Energy conversion & Energy storage devices (Fuel cells, Solar cells, Batteries, Supercapacitor)" He received some of the remarkable awards world over. Dr Raza has also established a well-equipped Fuel cell research laboratory.



Tuesday, 15th Feb 2022



11:30 am

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Day 2

Session 2

Moderator : Dr. Reem Albilali



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Meet Our Speaker **Prof.M. Alam Saeed**

Iron Oxide Nanoparticles for Safe Drug Delivery Applications

Professor and director of science and technology faculty at the University of Education, Pakistan

He has been member of the Albany High Energy Physics Group, SUNY Albany NY, SLAC, CA, BELLE Japan and many more scientific bodies. He is a prolific one with more than 500 publications, 164 conference papers. He has received more than 19 research grant worth in millions rupees.



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01:00 pm

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Meet Our Speaker Prof. Ji-Jun Zou

Modulating Electronic Structure of Catalysts for Green Hydrogen Production and Utilization

Chair Professor, head of Department of Chemical
Technology, Tianjin University, China

Currently he is chair professor and head of Department of Chemical Technology at School of Chemical Engineering and Technology, Tianjin University. His research interests mainly surround energy chemistry and fuel chemistry. He has published more than 180 papers in peer-review journals including Nature Energy, Nature Communications, Journal of the American Chemical Society, Angewandte Chemie International Edition and Advanced Materials. He received several honors. He is an Associate Editor of RSC Advances.



Tuesday, 15th Feb 2022



1:30 pm

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Meet Our Speaker **Prof. Muhammad Imran Asghar**

Breakthroughs In Ceramic Nanocomposite Fuel Cell Research

Professor of Applied Physics at Aalto University, Finland

He works as Academy of Finland Research Fellow. In addition, he is a professor in the Faculty of Physics and Electronics Science at Hubei University in China. He has expertise in ceramic nanocomposite fuel cells, dye-sensitized solar cells, perovskite solar cells, crystalline-silicon solar cells, batteries and other energy technologies. Furthermore, he is an expert on modern printing technologies .He has published over 80 international publications in reputed journals and international conference proceedings. He has been given several awards



Tuesday, 15th Feb 2022



2:00 pm

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Meet Our Speaker **Dr. Devesh Pathak**

Electrochromic Smart Window: The Necessity of Modern Future

Postdoctoral researcher, University of Seoul, Korea

He received his Ph.D. from the MAD lab at Indian Institute Technology Indore, India (IIT-Indore) in July 2021. The main focus of his research was to deal with a change in optical property through electrochemistry. Additionally, He has collaborated with disciplines of Chemistry, Bioscience, and Civil Engineering. Raman spectroscopy was the most common characterization tool among them. Also, He has performed Raman spectroscopy for in-situ measurements in optical/electronic devices, and also in silicon semiconductors, to determine the phonon characteristic with temperature. Prior to enrolling in his PhD program,



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Meet Our Speaker **Prof. Angélica María Baena**

**Polyaniline and Manganese Oxide Electrochemically
Synthesized on Carbon Cloth as Binder-Free Electrodes
for High Performance Supercapacitors.**

**Full Professor, Laboratory of Applied Electrochemistry,
National University of Engineering ,Peru**

Her research focuses on the development of carbonaceous materials with different levels and sizes of porosity, with potential application in supercapacitors and as support for nano-electrocatalyst for fuel cells application. She is also interested on the fabrication of nanomaterial-based sensors, and the synthesis of hierarchical materials for use in hydrogen production and microbial fuel cells. She is a member of Peruvian Electrochemical Society.



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3:00 pm

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Day 3

Session 1

Moderator : Dr. Tahani Alqahtani



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Meet Our Speaker **Prof. Chuanbao CAO**

Tuning Surface Electronic Structure of Two-Dimensional Nanosheets Through Surface Treatments for Highly Efficient Water Oxidation

Professor, School of Materials Science and Engineering, Beijing Institute of Technology, China

Chuanbao Cao received B.S(1983) from Nanjing University, M.S(1989) and PhD (1992) degree from University of Science and Technology of China. He was a post-doctoral fellow in Fudan University(1992-1994). Now he is a Professor in the School of Materials Science and Engineering at Beijing Institute of Technology. His research interest focus on energy related materials. He co-authored more than 370 peer-reviewed papers, obtained more than 40 patents.



Wednesday, 16th Feb 2022



9:00 am

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Meet Our Speaker **Dr. Asma Elsharif**

Valorisation Of Waste Feedstocks Using the Green Synthesis Approach

Associate Professor at College of science, Imam
Abdulrahman Bin Faisal University, KSA

She is an Associate Professor in the Department of Chemistry at Imam Abdulrahman bin Faisal University, where she teaches different courses in chemistry. She was a previous fellow of the IBK program at Massachusetts Institute of Technology, US. She worked as a visiting researcher and conducted research with several universities worldwide. She has several publications and participated in major international conferences. Her research areas are clean water and clean Energy, Corrosion Inhibitors and Nanotechnology.



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Meet Our Speaker **Prof. Mohamed A. Morsy**

Crude Oil's Trace Metal Analysis by Electron Paramagnetic Resonance Spectroscopy

**Professor in the Chemistry Department, College of
Chemicals and Materials, KFUPM, KSA**

He is a member of many Scientific and Professional Societies. Currently, he is interested in mechanistic chemistry of chemical, photo, and electrochemical oxidation using different spectroscopic techniques, mapping of oil, chemistry of asphaltenes, aging of polymer, and degradation of organic pollutants. He published more than 80 papers in Journals & conferences, 1 book, and 10 patents with USTPO.



Wednesday, 16th Feb 2022



10:00 am

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Meet Our Speaker **Dr. Yasser Alejrami**

Radiation Shielding Features of Different Glass Compositions: Are We Ready to Change Lead Glass Shieldi

Associate Professor at Ohio State University, USA

He got a PhD in Radiation Protection and Dose Measurements from UTM-Malaysia. This is his 18th year in academic teaching at different worldwide universities and his 10th year a researcher at radiation and medical imaging discipline. He published over 100 research articles in international peer-reviewed journals and international conferences. Yasser awarded from different national and international institute .



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Meet Our Speaker **Dr. Asla Alzahrani**

Enhanced Photoelectrochemical Performance of Bi₂S₃/Ag₂S/ZnO Novel Ternary Heterostructure

**Assistant Professor ,Chemistry Department
College of Science, Imam Abdulrahman Bin Faisal, KSA**

She received her PhD in physical chemistry from Universiti Putra Malaysia in 2020. Her research focuses on synthesis and characterization nanomaterials thin films for photoelectrochemical applications. Asla is the author for more than 15 published papers in indexed journals .She rewarded RSC Congress Poster Award at the 11th International Fundamental Science Congress (iFSC2019), and she has been awarded the best oral presenter in the 6th International Conference on Nanotechnology , Nanomaterials and Thin Films for Energy Applications (2019).



Wednesday, 16th Feb 2022



11:00 am

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Meet Our Speaker **Dr. S. Arunachalam**

Synthesis and Spectral Analysis of Some Ruthenium Schiff Base Complexes and Their Applications & Unusual Behaviour of Copper

**Associate Professor & Head in Chemistry
(Electrochemistry), Saveetha School of Engineering,
Saveetha Institute of Medical and Technical Sciences, India**

He designs, develops and Ruthenium Schiff's base complexes, nano composites for catalyzing the organic reactions and also to decompose the organic pollutants by photo catalysis. He is a Life Member in Various Journals and Chemistry Associations, also he is serving as an editorial board member in the reputed journals. He has published more than 45 articles in the international standard of repute and also he is peer reviewer in various journals.



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Day 3

Session 2

Moderator : Dr. Noha Aljaber



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Meet Our Speaker **Prof. Azaiez Mejdi**

Reduced Order Strategy to Solve Allen-Cahn model

Full professor at Bordeaux University, France

He is full professor of Mechanical Engineering at the Polytechnic Institute of Bordeaux since 2001. He is expert in many agencies of research. His research activity has been motivated by modeling and simulating natural and industrial problems and applications.



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Meet Our Speaker **Prof. Nabil Gmati**

On the Schwarz Method for the Eddy Currents Problems



Wednesday, 16th Feb 2022



1:30 pm

**Full Professor, Department of Mathematics , College of
Science , Imam Abdulrahman Bin Faisal University, KSA**

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Meet Our Speaker **Dr. K. K. Viswanathan**

Free Vibration of Layered Truncated Conical Shelled Filled with Quiescent Fluid

**Research Fellow in Ship & Offshore Extreme Technology
Industry-Academic Cooperation Research Centre, Korea**

He was in the position of Foreign Professor to teach Engineering Mathematics and Mechanics in the Department of Naval Architecture and Ocean Engineering at Inha University, South Korea for three years and as Associate Professor in the Department of Mathematical Sciences, Universiti Teknologi Malaysia for six years and Kuwait College of Science and Technology for three years. He published many research articles in reputed International Journals . His area of interest includes vibration of composite plates and shells, fluid structure interactions, fluid mechanics and the numerical methods and analysis.



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2:00 pm

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Meet Our Speaker **Dr. Ilyas Khan**

Mathematical Modelling and Simulation of Nanofluid including Nanomaterials



Wednesday, 16th Feb 2022



2:30 pm

Associate Professor at Al Majmaah University, KSA

He Received the Ph.D. degree in applied mathematics from the Universiti Teknologi Malaysia in 2012 and subsequently Post Doc in 2013. He has over 15 years of academic experience in different reputed institutions of the world.

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Meet Our Speaker **Dr. Ivonne Monje**

Lithium-Ion Batteries: Alternative Electrodes and Electrolytes

postdoctoral researcher at the National University of Engineering , Perú

She is a chemist, she earned her Master and doctorate, Cum Laude in Material Sciences (University of Alicante, Spain) in 2015. She has experience in thermal properties, synthesis of nanoparticles and materials for environmentally friendly energy uses. She was a postdoctoral researcher at the University of Sao Paulo, Brazil (2018-2020) and the University of Quebec in Montreal, Canada. (2019-2020).



Wednesday, 16th Feb 2022



3:00 pm

You're Invited to Join us

