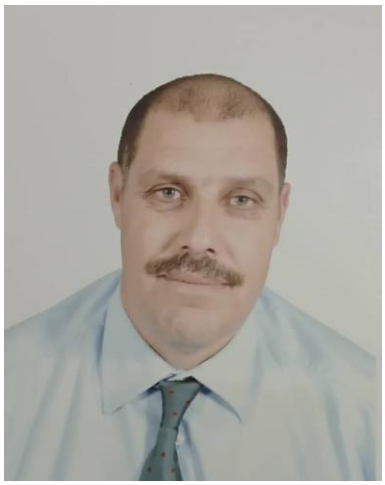
Invited Speakers

Biography

Professeur Ahmed KETTAB
Lauréat à la 3ème édition de Scopus Awards Algérie 2013 (Environnemental Science)
Nominé pour le prix IWA Global Water Award (International Water Association)-2021
CONSULTANT/EXPERT INTERNATIONAL
Professeur/Directeur de Recherches de l'École Nationale Polytechnique –ENP-Alger
Conférencier international : eau, sécurité, stratégies ; hydro-politique, hydro-diplomatie.
Vice-président de l'Académie de l'Eau (France) ;
Membre du CA de l'institut Méditerranéen de l'eau (IME)
Membre fondateur du Conseil Arabe de l'Eau ; Membre du Partenariat Français Eau (PFE)
Coordonnateur d'un groupe d'action Méditerranéen sur l'Eau -
Membres de comités scientifiques de plusieurs revues internationales de renommées.
Membres de comités scientifiques et d'organisations de plusieurs congrès, colloques, internationaux
Editeur en chef Honoraire de la revue ALJEST : www.aljest.webs.com: www.aljest.org
Editeur Associé de la Revue LJEE : www.ensh.dz
Tél: +213 6 61 52 95 24 Mail: kettab@yahoo.fr
kettab@netcourrier.com
Web : https://www.researchgate.net/profile/A_Kettab
https://dz.linkedin.com/in/kettab-ahmed-637555a

Title of the Conference

La souveraineté hydrique en Algérie: enjeux, défis, stratégies, perspectives, face aux changements climatiques



Biography

Pr. Zerroual Larbi is a senior academic and researcher in electrochemistry with over 38 years of experience at the Algerian university. A highly respected figure in this field. Pr. Zerroual Larbi has contributed extensively to the advancement of electrochemical science through both innovative research and dedicated teaching. He has published more than 40 peer-reviewed research articles in high-impact international journals, with his work cited over 670 times. His research focuses on several key areas of electrochemistry, including electrode materials, electrochemical sensors, and energy storage systems such as batteries and accumulators

Title of the Conference

Energy, Global warming and environment

Biography

Prof. Sahar I. Mostafa
Inorganic Chemistry Professor and Head of Department of Chemistry, Mansoura University, Egypt (2021- 2025); Visiting Prof. McGill, Canada; Ioannina, Greece; Imperial College, UK. She was awarded B. Sc. (Excellent with honor), M. Sc. (Mansoura) and Ph D (Imperial College, UK); and IKY & JICA fellows. She has Invited Lectures worldwide (75), International Publications (110), Editor in Chief of Chemistry, Journal of Mansoura University and editorial board member (30) scientific journals, and Thesis advisor (45). She developed aspects of O,O; N,O and N,S-complexes with low cytotoxicity in biological, catalysis and environmental by Modified Solid Supports (MSS) fields. H-index (29), Citation 2010, and i10-index (52).She has organized 15 International Conferences and Workshops. She has recognized by Mansoura-Univ (2013, 2017, 2018, 2019, 2021, 2022, 2023, 2024, 2025; best Teaching-1992), Egyptian-Chemistry Union (2021, 2022), JICA (2000), Imperial College (1993, 2008), Who's is Who's in the world (2008), Al-Azhar-Univ (2007, 2009, 2011), Africa-Pharmacology (2016), ACS-Aligarh Muslim University (India 2020), Algeria (2022, 2024), Quaid- Azam University, Pakistan (2023), Farhat Abas Univ, Algeria (2022, 2025), Batna 1 Univ., Algeria (2024, 2025) and Egyptian Chemistry Fellowship Association (2022, 2023, 2024, 2025).

Email ID: sihmostafa@gmail.com Phone No: +20100-8502625

Title of the Conference

From wast to wealth: nano composites for biomedical and environmental applictions

Biography

Mr. Ali ZAZOUA has been a Full Professor since 2015 at MSBY University - Jijel. Former Vice-Rector of External Relations, President of the Scientific Council of the Faculty of Science and Technology of the same university, and current director of the LEAM Laboratory, he holds a State Engineer in Process Engineering, a Magister and Doctorate in Science, and a Habilitation in Chemical Engineering. His research field: Sensors and biosensors in the environmental, medical, and agri-food fields. Chemistry and water treatment are also among his interests. He was responsible for about fifteen national and international projects (PHC-Maghreb, CMEP, PNR, Projects with socio-economic impacts, PRFU), with a scientific production of about thirty (30) articles in internationally renowned journals and more than eighty (80) conferences and communications in Algeria and abroad.

Title of the Conference

Sensors and biosensors: New innovative analytical methods for the environment

Biography

AMRANE Abdeltif: Professor – Exceptional class, UMR CNRS 6226 ISCR, University of Rennes. (Google Scholar: h-index: 68; citations: 18337 // Scopus: h-index: 56; citations: 13858).
1998: Thesis Director Enabling Degree (Univ. Rennes 1) / 1991: PhD in Chemistry (Univ. Rennes 1) / 1988: Master (DEA) in Chemistry (Univ. Rennes 1) / 1987: Chemical Engineering Degree (USTHB – Algeria).
Since approximately 20 years his research is entirely devoted to the development of combined processes for the removal of organic pollutants in effluent wastewater and gaseous emissions within the CIP team.
He has managed 16 PhD theses as thesis director and 2 are in progress; he has also co-managed 24 PhD theses and 4 co-managements theses are in progress. He has been involved as a manager or a participant in several national and international projects, as well in international collaborations (Algeria, Belgium, Hungary, Iran, Lebanon, Mexico, Morocco, Poland, Portugal, Romania, Spain, Tunisia…).
He has published more than 550 international papers including 15 papers in press. He is the co-Editor of five books (Elsevier). He has also published 12 chapter books and has about 130 international and 20 national oral communications.

Title of the conference

The coupling of an electrochemical process and a biological treatment for the removal of recalcitrant organic compounds – Case study: nitroimidazole antibiotics family, Metronidazole

Biography

Halim HAMMI, was graduated as Engineer in Material Sciences (Ecole Nationale d'Ingenieurs de Sfax) in 1996, and Master in Inorganic Chemistry (Faculté des Sciences de Sfax) in 1998. He obtained his Phd Thesis in Chemistry (Faculté des sciences de Sfax) in 2004. He has a position of teacher at institut Préparatoire aux Etudes d'ingénieurs de Nabeul in 2003. Since 2004, he joined the National Institute of Scientific and Technical Research as full-time researcher. His research area concerns phase diagrams applied to highly concentrated
solutions like natural brines. In 2007, after the creation of the National Centre of Research in Material Sciences, he focuses his research in valorisation of Industrial effluents
(phosphogypsum, Reverse Osmosis Reject Brines) and their use in manufactory of fertilizers cements.
Halim HAMMI has actively participated in numerous national and international research projects; he published more than 45 publications in international journals. He has supervised
more than 10 PhD projects and 30 master's projects. A prominent figure in the academic community, he has presented at three conferences and given keynote addresses at international conferences. Member of the national bureau of the Tunisian Chemical Society since 2006, he was the secretary general from 2010 to 2018. In October 2017, Halim completed certified training in patent writing from the World Intellectual Property Organization (WIPO). The same year, he assumed the role of managing editor of the International Journal of Chemistry Africa, co-owned by Springer and the Tunisian Chemical Society. This journal reached an impact factor of 2.6 in June 2023. In 2020, Halim took the role of head of the specialized unit in information, scientific documentation and technological monitoring (UIDSVT) at the CNRSM. Demonstrating his

commitment to advancing materials science in Tunisia, he cofounded in May 2023 the Tunisian Association in Materials Sciences and their Applications (TAMSA).

Title of the Conference

Low-carbon magnesium cements from natural sources

Biography

Ramzi Maalej has received the MS degree in Physics from the University of Sfax in 1995, and PhD in Quantum Physics from University of Tunis El Manar in 2001 and Habilitation HDR in 2007. He is presently full professor of Physics at the University of Sfax in Tunisia. He is leading the research group "Photonic and Advanced Materials". His Current research interests include theoretical and experimental studies of nanomaterials for emerging applications as optical sensors, nanobiosensors, fluorescent nanopowders for fingerprint detection anti-counterfeiting technology. He co-authored more than 95 peer-reviewed scientific journals. He supervised 19 PhD students. He is actually principal investigator of many multidisciplinary funded national and international projects. He is the chair of three editions of the international conference on engineering sciences in biology and medicine ESBM. He is associate editor of IEEE transactions on Nanobiosciences Journal, National contact point of the Nanosciences African Network and member of the Arab Society of Forensic Sciences and Forensic Medicine. He is co-founder and CTO of the Startup Fluoink Nanotechnologies from October 2022.

Title of the Conference

Advances in Two-Dimensional Material Sensors: Dimensional Tuning for Enhanced Medical and Environmental Applications

Biography

Zeinab ABOUELNAGA
Professor of the Environmental Sciences, Mansoura University, Egypt.
CEO of the Environmental Impact Assessment Studies Center of Mansoura University
MU-Representative and management board member of EXCEED-SWINDON project TUBs, Braunschweig, Germany
Certified Consultant at the Egyptian Ministry of Environmental Affairs, EEAA.
Internationally Entitled "Women of Chemistry IYC: 2011"
X-Director of the International Relationships Office of Mansoura University

Title of the Conference

" From CleanTech to Net-Zero: How Green Innovations Are Reshaping the 21st-Century Economy"

Biography

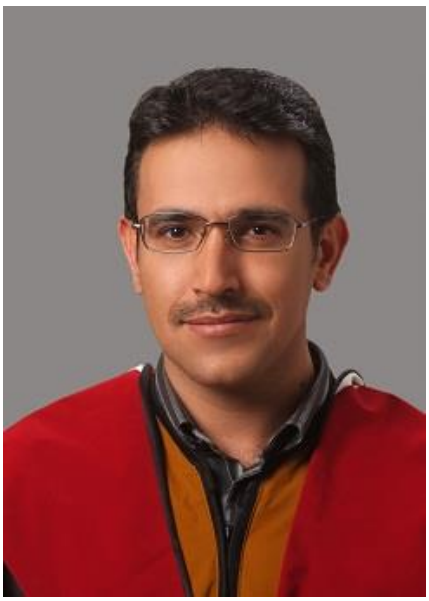
Mohamed SULTAN

Associate Professor of Applied Inorganic Chemistry, Chemistry Department, Faculty of Science, Al-Azhar University, Cairo, Egypt.

- Research Interests/Specializations: Materials chemistry, analytical chemistry, cement and building materials, industrial waste management and recycling research, glasses, ceramics, organic polymer synthesis, and inorganic materials preparation and application.
- Research activities: Dr. Sultan has actively participated in numerous national and international research projects; he has published more than 20 publications in international journals. He has supervised more than 5 Ph.D. projects and 5 master's; he has presented at three conferences and keynote addresses at international conferences.
- Industrial Experience: Throughout his career, Dr. Sultan has made significant contributions to the field of the chemical Industry in different areas at Egyptian industrial Zones. He contribute as Chemical consultant in the following installation and Production lines such as sodium metasilicate pentahydrate, colored speckles for power detergents, Silicon antifoam emulsion and granules, aminotris (methylene phosphonic acid; (ATMP), sodium polyacrylate with a different molecular weight, polycarboxylate (superplasticizer) with different raw materials for building and construction applications, BKC (Benzalkonium chloride), Calcium chloride solution, 38%, Silica fume slurry 50% for construction applications, Triaziene monoethanolamine as H2S Scavenger, agriculture emulsifier (calcium sulphonate), Esterquat for dying and textile, Coconut Diethanolamide (DEA), Cocamidopropylbetaine (CAPB) (Betaine), sodium sulphonate 25%).

Title of the Conference

Using Different Nanomaterials in the Design of Concrete: The Change from the Lab to the Industrial Scale.



Biography

Imad Hamadneh is a Professor of Materials Chemistry at The University of Jordan. He holds a Ph.D. in Materials Science from University Putra Malaysia (2002), an M.Sc. in Chemistry from University Kebangsaan Malaysia (1999), and a B.Sc. in Chemistry from Mu'tah University, Jordan (1994).
An active leader in the scientific community, Dr. Hamadneh has served as the President of the American Chemical Society-Jordan Chapter (ACS) since 2018 and previously as Vice President of the Jordanian Chemical Society (JCS) (2012–2014). He has also held administrative roles, including Dean's Assistant for Student Affairs at the Faculty of Science and Visiting Lecturer at Universiti Putra Malaysia. His research focuses on advanced materials, including high-temperature superconductors (HTS), nano-metal oxides, polymers, biochar, and clay-polymer nanocomposites. With a strong emphasis on applied science, Dr. Hamadneh investigates sustainable materials for health and environmental applications, such as cellulose hydrogel for medical and agricultural applications, modified clay-polymer nanocomposites, and biochar for wastewater treatment. His work contributes to innovative solutions aimed at improving human health and environmental sustainability.

Title of the Conference

Chromium And Phenol Removal from Aqueous Solutions Using Acidic Pretreated Laurel Leaves Biochar: Equilibrium, Kinetic, And Thermodynamics Studies.

Biography

Kinza Amel BELHADJI
Lecturer and researcher at Abdelhamid Ibn Badis University of Mostaganem, holding a PhD in Health and Environment. My academic work follows an interdisciplinary approach combining environmental sciences, pharmacognosy, and the valorization of natural resources. I am an active member of two research laboratories: the STEVA Laboratory (Sciences and Techniques for Environmental and Valorization) and the Laboratory of Pharmacognosy and Api-Phytotherapy. My research focuses on environmental impact, innovative approaches to water treatment, and the valorization of natural products. I am currently involved in a research project on the development, characterization, and application of nano ferrites for water treatment. In addition, I am part of a research team within a laboratory specialized in urinary lithiasis—the only one in Western Algeria conducting morpho-constitutional analyses of kidney stones. Our mission is to determine the composition of the stones to recommend appropriate dietary adjustments for patients, to prevent recurrence

Title of the communication

Biosynthesis of nanoparticles: biological applications (antibacterial, antioxidant and anti-inflammatory activity).

Biography

Touhami MOKRANI
Professor
Institute for Catalysis and Energy Solutions
College of Science, Engineering and Technology
University of South Africa
Cell: +27813606058
Email: tmokrani@unisa.ac.za

Dr. Mokrani is a research professor at the Institute for Catalysis and Energy Solutions (ICES), College of Science, Engineering, and Technology at the University of South Africa (Unisa), and the head of the Energy Conversion Devices research and technology platform. Dr Mokrani is a co-finder of the Institute. From April 2019 to June 2024, Dr Mokrani was a full professor in the Department of Chemical Engineering. He was an associate professor from July 2014 to March 2019 in the same department and a senior lecture from January 2006 to June 2014.

Dr Mokrani did a postdoc fellow at the University of the Witwatersrand in Johannesburg, South Africa in 2005. Dr Mokrani completed a PhD in PEM Fuel Cell at the University of the Western Cape (UWC), Cape Town in 2004 and a Master in Chemical Engineering from Cape Peninsula University of Technology (CPUT), Cape Town in 2000. Prior that Dr Mokrani completed a BEng Chemical Engineering from the University of Boumerdes (INHC) in Algeria in 1994.

Dr Mokrani published 55 articles in international journals, 6 chapters in books, and 40 peer-reviewed conference proceedings. Dr Mokrani graduated 15 master's and PhD students in Chemical Engineering and mentor 10 postdocs fellows. In 2025, Dr Mokrani is supervising 8 PhD students, 4 masters and 2 hounors students and mentoring 5 Post Doc Fellows.

Dr Mokrani research interest are in the field of Hydrogen and Methanol Economy, including: Green ammonia, methanol and DME systhesis from biomass, waste and green hydrogen production; Ammonia, methanol, ethanol and DME reforming to hydrogen; Hydrogen purification: WGSR and Prox; Fuel Cells: PEMFC and SOFC; Electrolysis: PEM Electrolyser, SOEC Electrolyser; Hydrogen storage; CCUS; Water treatment, Nanotechnology; etc.

Title of the Conference

The evolution of GTL, BTL and PtX Technologies: an overview

Biography

Prof. **Hamada HABA** received his Doctoral degree (Ph. D.) in Organic Chemistry from Batna University, Algeria in 2008. He is a Dean of Faculty of Matter Sciences at Batna 1 university and a full professor of natural product chemistry (Extraction, isolation, structural elucidation, NMR, MS, biological activities, chemotaxonomy) since 2015 in Chemistry Department, Faculty of Matter Sciences, at Batna 1 University, Algeria. His research area is focused on phytochemical investigation and biological evaluation of medicinal plants growing in Aures region and North Sahara of Algeria. He supervised 22 M.Sc., 2 Magister and 10 Ph-D theses'. He has published more than 70 papers in reputed journals with Hindex 15 in Scopus, and has been serving as a reviewer for many articles in the fields of chemistry and biology of natural products. He attends more than 150 national and international conferences around the world. He is teaching all the organic courses and particularly spectroscopy and molecular characterization (UV-Vis, FT-IR, 1H and 13C NMR, EI-MS), structural chemistry, pharmacognosy, advanced spectroscopic methods (1D and 2D NMR, MS), and structure analysis of natural products and organic synthesis compounds for the graduate students of Faculty of Matter Sciences at Batna 1 University, Algeria. He was the coordinator of the 4th and 5th International Conference on Chemistry CIC-4, 25-27 November 2014, and CIC-5, 02-04 December 2018 organized by faculty of science in collaboration with laboratory of chemistry and environmental chemistry LCCE, Batna 1 University, and he is also the chairman of the 6th and 7th International Symposium on Chemistry CIC-6, 22 to 24 November 2022, and CIC-7, 27 to 29 November 2024 organized by the laboratory of chemistry and environmental chemistry LCCE and faculty of matter sciences, Batna-1 university, Algeria.

Title of the Conference

Bridging Botany and Pharmacy: Research Advances in Medicinal Plants of the Genus Atractylis growing in Algeria and Sustainability

Biography

Pavel V. Avramov (Dr. Habil. in Phys & Math, Emanual Institute of biochemical physics, RAS, Moscow) is a Senior Researcher and Professor in the Department of Chemistry at Kyungpook National University in Daegu, Republic of Korea. Over a 43-year career at leading institutions in Russia, the United States, Japan, and South Korea, he has become a foremost authority on the atomic and electronic structure of quantum and low-dimensional carbon materials. A recipient of the European Academy Prize, 1994, he has also secured numerous national and international research grants and awards. His current work focuses on structure–property relationships in carbon nanoclusters and two-dimensional quantum materials. Recent selected publications include "Topological and Quantum Stability of Low-Dimensional Crystalline Lattices with Multiple Nonequivalent Sublattices", "Nanodiamond Islands Confined Between Two Graphene Sheets as Promising Two-Dimensional Quantum Materials", and "Extreme Structure and Spontaneous Lift of Spin Degeneracy in Doped Perforated Bilayer Graphenes"

Title of the Conference

Heavenly Crystal Rain: Exotic Carbon Nanomaterials from Superbolide Impacts in North-East Russia

Biography

Omar BOURAS est Professeur en Génie des Procédés et Directeur du laboratoire «Eau Environnement et Développement Durable 2E2D» à la Faculté de Technologie de l'Université de Blida 1, Algérie.
Plus de 30 années ont été consacrées à la recherche scientifique ainsi qu'à l'enseignement et l'encadrement des étudiants (Ingéniorat, Master et Doctorat).
Les travaux de recherches scientifiques et les domaines d'intervention, réalisés dans le cadre de projets de recherches et d'encadrement de mémoires (Ingéniorat et Master) et de thèses de doctorat, couvrent les volets suivants:

- Modification structurale des argiles Algériennes;
- Synthèse et application des oxydes et (oxy)hydroxydes métalliques (à base de fer et d'aluminium et de titane)
- Mise en forme des poudres sorbantes par granulation, encapsulation et enrobage (revêtement),
- Dépollution des eaux par adsorption en systèmes monosolutés simples et adsorption compétitive en modes discontinu et continu
- Réhabilitation des sites et sols pollués.

Title of the Conference

Argiles modifiées organophyles : synthèse et applications environnementales

Biography

Muhammed WAQAS: AUSTRALIE
Dr Muhammad Waqas Khan is a Postdoctoral Researcher in the School of Science at RMIT University, Australia. His expertise lies in advanced nanomaterials, electrocatalysis, and sustainable hydrogen production, with a focus on materials for clean energy and environmental applications. He has authored more than 34 peer-reviewed papers in leading journals, including *ACS Nano, Small, Applied Catalysis B, Chemical Society Reviews*, and the *Chemical Engineering Journal*. His research has attracted over 1,330 citations (h-index 21), and he is a co-inventor on an international PCT patent.
Dr Khan collaborates widely with Australian and international industries such as Akula Green Energy, HPCL, and Schnell Energy, advancing lab-scale discoveries into scalable prototypes for hydrogen production. He also plays a leading role in a renewable energy research team and coordinates the MC2E group at RMIT, supporting collaborative research and mentoring early-career researchers. His work has been featured by major outlets, including ABC News and Sky News Australia, reaching a global audience. Beyond research, he has supervised and mentored numerous PhD and Master's students, contributing to training the next generation of scientists. His achievements have been recognised through awards such as the 1st Prize at the Youth Energy Competition and the Academic Excellence Award.

Title of the Conference

Seawater Splitting for Green Hydrogen

Biography

Pr. Omar Legrini
PhD Chem Engineering & Process Design
Current position: Managing & Project Director
Company: ESCO International Ltd (UK)

Main technical & business responsibilities

1- more than 35 years of experience in process design & engineering applied to water and gas effluents treatment
2- developed a full range of low and medium pressure UV and UV/Ozone systems for water purification and gas effluent treatment
3- developed, supervised, and carried out extensive R&D work and projects to support and grow the company's ozone, UV and advanced oxidation and disinfection technologies
4- developed UV technologies for specific applications such as TOC, chlorine and chloramines destruction in HPW and UPW systems
5- provided support to various functions, including sales, marketing, process design and engineering development
6- Development of specific AOP systems for TOC & COD oxidative destruction for industrial applications

About ESCO International

Providing Expert Solutions & Technologies, System Design and Supply including Ozone and UV systems & Advanced Oxidation Processes for industrial and municipal applications.
Using advanced treatment technologies, ESCO offers unique solutions to some of the most critical water and wastewater and gas effluent challenges.
For more information, please visit www.escouk.com

Title of the Conference

UV and Ozone Technologies for water and gas treatment – Design, Manufacturing & Applications