

3rd Edition of Infy World Symposium On

CATALYSIS & CHEMICAL ENGINEERING

14th May 2025 | Virtual Event



Hosted By: **John Brandon**

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CATALYSIS SYMPOSIUM 2025

09:00-09:15

Opening Ceremony

Keynote Forum

Moderator/Organizing Committee member: Veera Raghava Sharma , GITAM University, India



Ioana Stanciu

University of Bucharest, Romania

Title: Rheological behavior of corn oil at different viscosity and shear rate

Biography: Ioana Stanciu working at the University of Bucharest, Faculty of Chemistry has a 22 years' experience in teaching and conducting research on the study of polymers used as additives for lubricating oils, the rheological behavior of vegetable oils and mineral oils added to polymers. Ioana Stanciu is the author of 62 books translated into German, Spanish, French, Russian, Italian, Portuguese, 10 chapters and has the recognition of publishing 130 works in the field of physical chemistry.

09:30-10:00



Alaa Jabbar Ghazai

Al-Nahrain University, Iraq

Title: Structural and electrical properties of multi Gold contacts for Metal-semiconductor-metal (MSM) photodetectors

Biography: He was born in Baghdad in 1974. I get BSC from Almustansiria University, Baghdad, Iraq In 1997 and I get MSC from same University – Education College In 2001. In July 2012 He get a PhD degree from School of Physics, University Science Malaysia (USM).

10:00-10:30



Paulo C. De Morais

Catholic University of Brasilia, Brazil

Title: Unveiling Exotic Nanomaterials for Hyperthermia

Biography: Professor Paulo César De Morais, PhD, was full Professor of Physics at the University of Brasilia (UnB) – Brazil up to 2013. Appointed as UnB's (Brazil) Emeritus Professor (2014); Visiting Professor at the Huazhong University of Science and Technology (HUST) – China (2012-2015); Distinguished Professor at the Anhui University (AHU) – China (2016-2019); Full Professor at the Catholic University of Brasilia (CUB) – Brazil (2018); CNPq-1A Research Fellow since 2010; 2007 Master Research Prize from UnB.

10:30-11:00



Boris Asmatulayev

Kazakh Automobile and Road Institute, Kazakhstan

Title: COLLOIDAL STRUCTURES FOR STRENGTHENING MINERAL AND ORGANIC BINDERS ARE THE FUTURE OF AN ENVIRONMENTALLY FRIENDLY AND CLIMATE-RESISTANT TRANSPORT INFRASTRUCTURE

Biography: Graduated from the Ust-Kamenogorsk Institute of Civil Engineering and Road Construction with a specialization in Automotive Roads, Transportation Engineering, in 1966. Doctor of Technical Sciences, specializing in Road and Construction Machinery (05.05.04) and Road and Airport Construction (05.23.11).

11:00-11:30

Keynote Forum



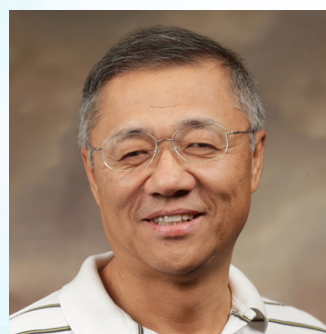
Fanelwa Ngece-Ajayi

University of the Western Cape, South Africa

11:30-12:00

Title: Fabrication of iridium nanocomposites for the detection of selective serotonin re-uptake inhibitors (SSRIs)

Biography: In addition to serving as the acting Deputy Dean for Research in the Faculty of Natural Sciences, at the University of the Western Cape (UWC), Fanelwa Ngece Ajayi is an Associate Professor of Physical Chemistry. Additionally, she works as a lead researcher in the SensorLab laboratories at the Chemistry Department, UWC.



Xiaojun Wang

Georgia Southern University, Statesboro, GA 30460, USA

12:00-12:30

Title: Full-Spectrum Long-Persistence Emission Designed via Upconversion Charging and Persistent Energy Transfer

Biography: Xiao-Jun Wang earned his Ph.D. from the University of Georgia, USA, and is currently a Professor of Physics at Georgia Southern University. His research focuses on the optical properties of solids and phosphor applications. Dr. Wang is a Fellow of the American Physical Society, an Editor of Light: Science & Applications (Springer Nature), and the Editor-in-Chief of Materials Research Bulletin (Elsevier)



Jose Luis Contreras

Universidad Autonoma Metropolitana, Mexico

12:30-13:00

Title: Production of hydrogen by Ethanol and Glycerol steam reforming using Ni-Co/Ex-Hydrotalcite-WOx catalysts

Biography: Chemical Engineer and Ph.D. from the Autonomous Metropolitan University UAM (Iztapalapa), member of the National System of Researchers SNI Level I since 2010 -2025 and Professor. He has participated in 65 scientific conferences, author and co-author of 52 international research articles on topics of: Catalysis applied to environmental, industrial, oil refining and petrochemical processes. He has 3 patents. He has directed bachelor's, master's and doctoral theses in Chemical Engineering for 43 years.



Jian Wu

Henan Academy of Innovations in Medical Science, China

13:00-13:30

Title: Non-Human Primates as Preclinical Models for Optic Nerve Research: Advancing Insights into their application and potential

Biography: Executive Director and PI, Institute of Ophthalmology, Henan Academy of Medical Sciences, Henan University of Science and Technology, Distinguished Professor, I Visiting Professor, Chengdu First People's Hospital, Researcher, National Engineering Research Center for Ophthalmology Diagnosis and Treatment, Researcher, Engineering Research Center for Ophthalmic Diagnostic Equipment and Materials, Ministry of Education, Doctor of Ophthalmology, Beijing Tongren Hospital, Capital Medical University.



V. Namratha

Satavahana University, India

13:30-14:00

Title: Medicinal importance of Boswellia Serrata (guggulu)

Biography: I am Dr V.Namratha presently working as Associate Professor Satavahana University has attained my Ph.D degree from kakatiya university in the field of Natural products in 2005. My research area includes isolation of phyto constituents mainly flavonoids from medicinally plants finding lead structures screening for Anti microbial anti cancer anti oxidant activities. Communicated more than 25 papers in various national and international journals. Edited 2 books of my credit 1 international online publishers 2 Indian publishers. Presented papers in various international conferences. 4 scholars awarded ph.d 4 are pursuing ph.d.



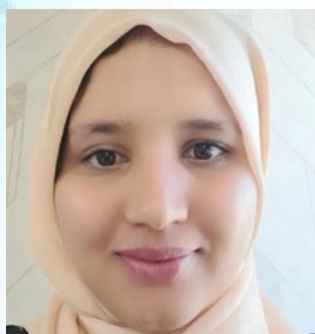
Kavitha Kotthireddy Kota

Jawaharlal Nehru Technological University, India

14:00-14:30

Title: Synthesis Of Novel N-Alkylated Indolyl/Pyrrolyl-2-(4-(2-Oxo-2H-Chromen-3-Yl)Thiazol-2-Yl)Acrylonitriles And Evaluation Of Their Anti-Hepatoma Cellular Carcinoma Studies With Molecular Docking

Biography: Dr. Kavitha accomplished her Doctoral degree [Ph.D.] from JNTU Hyderabad. She has qualified for SET and accomplished an MPhil in Chemistry. She has 20+ years of academic teaching experience with pedagogy-based and AI-based teaching and learning approaches and 6 years of research experience. She has published 16 research publications in reputed International and National Journals of high impact factor.



Ezzouhra El Maaiden

Mohammed VI Polytechnic University, Morocco

14:30-15:00

Title: Deep Eutectic Solvent-Ultrasound Assisted Extraction as a Green Approach for Enhanced Extraction of Naringenin from Searsia tripartita

Biography: Dr. Ezzouhra El Maaiden is a distinguished researcher at the African Sustainable Agriculture Research Institute (ASARI), Mohammed VI Polytechnic University (UM6P), Laayoune, Morocco. With a Ph.D. in Biochemistry, Cellular and Molecular Biology from Hassan 1er University, Settat, her research focuses on phytochemistry, biomass valorization, and the development of bioactive compounds for pharmaceutical and cosmetic applications.



Sudip Barman

National Institute of Science, Education and research, India

15:00-15:30

Title: Metal Nanostructures for Electrochemical Energy Conversion and Storage Applications

Biography: Sudip Barman, professor from School of Chemical Sciences DAE-National Institute of Science Education and Research, from 2009-2023 he is Associate Professor from School of Chemical Sciences National Institute of Science Education and Research. He completed PhD in the year 2006 from Indian Institute of Science, Bangalore.



Salih Aydogan

Konya Technical University, Turkey

15:30-16:00

Title: The electrochemical dissolution of zinc from sphalerite mineral using sulphuric acid from potassium dichromate solution

Biography: From the year 1993-2001, He is a research assistant from Cumhuriyet university faculty of engineering department of mining engineering mineral processing department. He is a Assistant Professor(2001-2007) from Selcuk university faculty of engineering department of mining engineering mineral processing department. From the year 2013 to present he is a professor from Konya technical university faculty of engineering and natural sciences department of mining engineering.



Raghu Dasari

Satavahana University, India

16:00-16:30

Title: Synthesis of novel triazolothione, thiadiazole, triazole functionalized quinazolin-4(3H)-one derivatives and their Antimicrobial activity and Docking studies

Biography: Raghu dasari completed his PhD from Satavahana University, Karimnagar. He was guided by the professor Vaddiraju Namarartha from Satavahana University.

16:30-17:00

**Y. Prashanthi**

Mahatma Gandhi University, India

Title: Development of Vegetable Oil Based Polymer/TiO₂ Nanocomposites as Anticorrosive and Antimicrobial Coatings

Biography: Dr. Y. Prashanthi, Asst. Professor, Chairperson, Board of Studies, Dept. of Chemistry, University College of Science, Mahatma Gandhi University, and Nalgonda. I completed Ph.D from Osmania University and Postdoc from Taiwan. I have research experience from Osmania University and Indian Institute of Chemical Technology (IICT), Hyderabad and AISIN-COSMOS, IICT in Japan Collaborated Project.

17:00-17:30

**Srinivas Gali**

Satavahana University, India

Title: Design, Synthesis of Benzimidazole Tethered 3,4-Dihydro-2H-Benzo[e][1,3]Oxazin-2-ones as Antimicrobial Agents

Biography: Srinivas Gali who is working as an Assistant professor at Govt Degree college from Siddipet. He completed his PhD from Satavahana University, Karimnagar. He was guided by the professor Vaddiraju Namarartha from Satavahana University.

17:30-18:00

**Serguei F. Tikhov**

Boreskov Institute of Catalysis, Novosibirsk, Russia

Title: “CoZrH” nanocomposite powders as an active component of ceramometal “CoZrH”/Al₂O₃/Al catalysts for Fischer-Tropsch synthesis.

Biography: MS, 1978, Novosibirsk State University; PhD; 1985; Ass. Professor, 2005, Boreskov Institute of Catalysis, Novosibirsk. Research field: Heterogeneous catalysis of red-ox processes for the energy production and environment protection; material science of porous composites, including ceramometals, textural and mechanical properties of porous monoliths, surface science of transition metal oxides, solid state reactions during mechanical alloying of powdered metals.

18:00-18:30

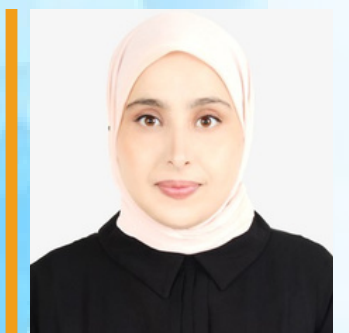
**Farai Dziike**

Steve Biko Campus Durban University of Technology, South Africa

Title: High Mechanical Strength Carbon Nanofibers Fabrication: A Comparative Study of Biomass Electrospun Nanofibers and CVD Synthesized Nanofibers Over Nickel Decorated RANR

Biography: [BSc] Chemical Technology (MSU, Zim), MSc Materials Chemistry (Wits, SA), PhD (Heterogeneous Catalysis Materials Chemistry) (Wits, SA), WBS (Certificate in Innovation and Entrepreneurship)] is a Postdoctoral Fellow in the Department of Chemical Engineering and the Built Environment and Coordinator for the Practical Based Learning in The School of Applied Chemistry.

18:30-19:00

**Nadia Timoudan**

Mohammed V University – Faculty of Sciences, Rabat, Morocco

Title: Theoretical and experimental research of the ability of quinolin-8-ol compound derivative to inhibit carbon steel corrosion in a molar hydrochloric acid environment

Biography: Nadia TIMOUDAN is pursuing her Ph.D. at the Laboratory of Materials, Nanotechnology and Environment in the Faculty of Sciences at Mohammed V University, P.O. Box. 1014, Rabat, Morocco. Her main research interests revolve around corrosion and corrosion inhibition of metals and alloys. She uses chemical and electrochemical techniques such as PDP and EIS, as well as characterization techniques such as SEM, AFM, contact angle, FT-IR, XDR, XPS, and UV-visible.



Anuj Kumar
GLA University, India

19:00-19:30

Title: Intelligence of porphyrin-type electrocatalysts towards oxygen reduction reaction.

Biography: Dr. Anuj Kumar is working as an Assistant Professor at department of chemistry, GLA University, Mathura-281406, India. He received PhD degree in 2017 from Gurukula Kangri University, Haridwar, India. He moved to Beijing University of Chemical Technology, China for his Postdoctoral research in the research group of Prof. Xiaoming Sun. His research focus is on molecular/M-N-C electrocatalysts for O₂-catalysis.

Closing Ceremony