



In-Person Conference

Program-At-A-Glance

Peers Alley Media


1126 59 Ave East, V5X 1Y9

Vancouver BC, Canada



Peers Alley Media

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5th Edition of

ADVANCED CHEMISTRY WORLD CONGRESS

March 25-26, 2024
Amsterdam, Netherlands

SCIENTIFIC PROGRAM

ADV. CHEMISTRY 2024

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

DAY 1

MARCH 25, 2024

Scientific Program

08:00-08:45 Registrations

08:45-09:00 Opening Ceremony

Moderator: Giovanni Sansoe, Gradenigo Hospital, Torino, Italy

Topics: Analytical Chemistry | Industrial Chemistry | Agricultural Chemistry | Medicinal Chemistry | Chemical Engineering | Green Chemistry | Environmental Chemistry | Biochemistry | Organic Chemistry | Physical Chemistry | Geochemistry | Food Chemistry | Materials Science | Molecular Biology | Polymer Chemistry and Technology

Distinguished Speaker Talks

Session Chair **Bourrié Guilhem**, *Académie d'agriculture de France & INRAE, France*

Session Chair **Guy Vereecke**, *imec, Belgium*

09:00-09:20

Title: Reactions, redox potential and kinetics with special relevance to geochemistry and life emergence

Bourrié Guilhem, *Académie d'agriculture de France & INRAE, France*

09:20-09:40

Title: The surge in aseptic processing technology

Stephen Scypinski, *Stephen Scypinski Consulting LLC, USA*

09:40-10:00

Title: Benefits and risks of sun exposure to maintain adequate vitamin D levels

Suzanne Riskin, *Nova Southeastern University, USA*

10:00-10:20

Title: New viral diseases and new treatment options: The pharmacology of the non-classical renin-angiotensin system

Giovanni Sansoe, *Gradenigo Hospital, Torino, Italy*

10:20-10:40

Title: The use of water structure breaking or making ions to control etching reactions in nanoconfined spaces

Guy Vereecke, *imec, Belgium*

Group Photo 10:40-10:50

Refreshment Break 10:50-11:05

11:05-11:25	Title: Tris(β -ketoiminate) AlIII compounds as aluminium oxide precursors Erica N. Faria , <i>University College London (UCL), UK</i>
11:25-11:45	Title: Investigation of Runx1 as a new therapeutic target and the effects of its chemical inhibitors on cardiac function in a rat model of myocardial infarction Weihong He , <i>Sichuan University, China</i>
11:45-12:05	Title: Synthesis and evaluation of core-shell nanocomposites for the photodegradation of Linear Alkyl-benzene Sulfonate water contaminations Mohamed Ez-Dean Rashad Hassan , <i>Port Said University, Egypt</i>
12:05-12:25	Title: The structure-property-processing relationship for biocompatible and moldable silk fibroin nanofibrils Jen-Chang Yang , <i>Taipei Medical University, Taiwan</i>
12:25-12:45	Title: Low-temperature deposition of conductive copper through the design of molecular precursors Jingyan Wang , <i>University College London (UCL), UK</i>
Group Photo 12:45-12:55	
Lunch Break 12:55-13:35	
Session Chair	Bourrié Guilhem , <i>Académie d'agriculture de France & INRAE, France</i>
Session Chair	Guy Vereecke , <i>imec, Belgium</i>
13:35-13:55	Title: Computational studies on the photochemical reaction paths of cyclic nitrones and dinitrones Anjan Chattopadhyay , <i>Birla Institute of Technology and Science (BITS) Pilani, India</i>
13:55-14:15	Title: Production of extracellular enzymes by <i>Lentinula edodes</i> strains in solid state fermentation on lignocellulosic biomass sterilized by physical and chemical methods Ezequiel Marcelino Silva , <i>Federal University of Tocantins, Brazil</i>
14:15-14:35	Title: Palladium nanoparticles incorporated graphitic carbon nitride nanosheets for visible light catalytic reforming of biomass for hydrogen evolution Beena Mathew , <i>Mahatma Gandhi University, India</i>
14:35-14:55	Title: Single-nucleotide polymorphisms in MTHFR gene related to recurrent abortion Yasin Kareem Amin , <i>Medical College, Erbil Medical University, Iraq</i>

14:55-15:15

Title: Rotamerism, geometrical isomerism and intramolecular proton transfer in curcuminoids

Francis A. S. Chipem, Manipur University, India

15:15-15:35

Title: Insights into the adsorption mechanism of graphene oxide functionalized WO₃ nanocomposite for removal of Cu(II) ions from aqueous solutions: Kinetics, equilibrium, thermodynamics and artificial neural network modelling

Balasubramani Kavitha, C.P.A College, India

Refreshment Break 15:35-15:50

15:50-16:10

Title: Multitask learning for the segmentation of red blood cells in a sickle cell anemia diagnosis using efficient optimised efficient net model

Princy Matlani, Guru Ghasidas Vishwavidyalaya (Central University), India

16:10-16:30

Title: Analysis of the mineralogical and chemical compositions of the laterization products of the parent rock of African major Bauxite deposits

Nafiu Mohammed Zainudeen, Institute of Scientific and Technological information (INSTI), Council for Scientific and Industrial Research (CSIR), Ghana

16:30-16:50

Title: Subchronic toxicity study of herbal tea of Moringa stenopetala (Baker f.) Cudof. and Mentha spicata L. leaves formulation in Wistar albino rats

Abinet Admas Alemneh, Saint Paul's Hospital Millennium Medical College, Ethiopia

16:50-17:10

Title: Protein folding problem: Enigma, paradox, solution

Alexei V. Finkelstein, Russian Academy of Sciences (IPR), Moscow State University, Russia

17:10-17:30

Title: Development of a new PET tracer [68Ga]68Ga-DOTA-ECL1i to noninvasively track fibrotic changes in myeloproliferative neoplasms based on C-C Chemokine receptor 2 detection

Silvia Migliari, Azienda Ospedaliero-Universitaria di Parma, Italy

Panel Discussion

End of Day 1



DAY 2

MARCH 26, 2024

Scientific Program

07:40-08:25 Registrations

08:25-08:40 Introduction

Moderator: Giovanni Sansoe, Gradenigo Hospital, Torino, Italy

Topics: Analytical Chemistry | Industrial Chemistry | Agricultural Chemistry | Medicinal Chemistry | Chemical Engineering | Green Chemistry | Environmental Chemistry | Biochemistry | Organic Chemistry | Physical Chemistry | Geochemistry | Food Chemistry | Materials Science | Molecular Biology | Polymer Chemistry and Technology

Distinguished Speaker Talks

Session Chair **Sharadha Sambasivan, Suffolk County Community College, USA**

Session Chair **Beena Mathew, Mahatma Gandhi University, India**

08:40-09:00

Title: Solubility of fluorite in concentrated electrolyte solutions at elevated temperatures: Implications to nuclear waste-form development and rare earth element (REE) extraction

Yongliang Xiong, Sandia National Laboratories (SNL), USA

09:00-09:20

Title: Water quality evaluation and impact of nitrogen contamination
Sharadha Sambasivan, Suffolk County Community College, USA

09:20-09:40

Title: Conformational changes of human stratum corneum lipids by effect of cyclic and linear siloxanes

Krystyna Pieńkowska, Medical University of Gdańsk, Poland

09:40-10:00

Title: Montmorillonite-based chitosan nanocomposites as sustainable slow-release green fertilizers

Punnama Siriphannon, King Mongkut's Institute of Technology Ladkrabang, Thailand

10:00-10:20

Title: Graphene assisted optical tweezers and its applications

Yuquan Zhang, Shenzhen University, China

10:20-10:40

Title: Polyol-based extraction: A green approach to extract bioactive compounds for cosmetic and tropical products

Nuntawat Khat-udomkiri, *Mae Fah Laung University, Thailand*

Group Photo 10:40-10:50

Refreshment Break 10:50-11:05

11:05-11:25

Title: Synthesis and molecular structure studies of Aluminium (III) complexes with β -ketoiminate and ethanolamine ligands

Leonardo Santoni, *University College London (UCL), UK*

11:25-11:45

Title: Advanced insights into phenylpropene biosynthesis in *Ocimum basilicum* L.: The role of vermicompost form, dose, and application method

İlker TÜRKAY, *Kırşehir Ahi Evran University, Turkey*

11:45-12:05

Title: Electrical conductivity, microstructures, chemical compositions, and systematic multivariable models to evaluate the effect of waste slag smelting (pyrometallurgical) on the compressive strength of concrete

Ahmed Salih Mohammed, *American University of Iraq Sulaimani, Iraq*

12:05-12:25

Title: Tumor cell adhesion and metastasis signaling: Contribution of endothelium nitric oxide

Fabiola Sánchez, *Universidad Austral de Chile, Chile*

12:25-12:45

Title: CdO nanostructures as acid-base bifunctional heterogeneous catalysts for making Coumarin-3- Carboxylic Acids at room temperature

Rupinder Kaur, *Indian Institute of Science Education and Research Mohali, India*

Group Photo 12:45-12:55

Lunch Break 12:55-13:35

Session Chair

Beena Mathew, *Mahatma Gandhi University, India*

Session Chair

Jen-Chang Yang, *Taipei Medical University, Taiwan*

13:35-13:55

Title: Composition and characterisation of ancient lime mortar of 12th century temple, Alandi, India

Sarvesh Singh, *Reserve Bank of India Archives, India*

13:55-14:15	<p>Video-Presentation: Calcium element quantification model using a portable X-ray fluorescence unit</p> <p>Claudio Hernán González-Rojas, <i>Universidad de Tarapacá, Chile</i></p>
14:15-14:35	<p>Title: Regulatory role of LexA in modulating photosynthetic redox poise and cadmium stress tolerance in the cyanobacterium, <i>Anabaena</i> sp. PCC7120</p> <p>Yogesh Mishra, <i>Banaras Hindu University, India</i></p>
14:35-14:55	<p>Title: Green practices implementation for environmental sustainability by five-star hotels in Kampala, Uganda</p> <p>Alex Barakagira, <i>Kyambogo University, Uganda</i></p>
14:55-15:15	<p>Title: Poly(amido amine) functionalized graphene oxide for enhancing properties of a polysulfone ultrafiltration membrane: Effect of Poly(amido amine) generation</p> <p>Ahmed Toky Yasir, <i>Qatar University, Qatar</i></p>
15:15-15:35	<p>Title: Carboxymethyl cellulose for oil and gas field operations</p> <p>Hauwa Abubakar Rasheed, <i>Nile University of Nigeria, Nigeria</i></p>
15:35-15:55	<p>Title: Monocyte HLADR and Immune Dysregulation Index as biomarkers for covid-19 severity and mortality</p> <p>Namrata P Awasthi, <i>Dr. Ram Manohar Lohia Institute of Medical Sciences, India</i></p>
Refreshment Break 15:55-16:10	
16:10-16:30	<p>Title: The problem of relation between excess and absolute adsorption: Rigorous results</p> <p>Eduard Sergeevich Jakubov, <i>Russian Academy of Sciences, Russia</i></p>
16:30-16:50	<p>Title: In quest of small molecules as dengue NS2B-NS3 protease inhibitor using in-silico molecular docking</p> <p>Deepali Mahir Nahar, <i>St. John Institute of Pharmacy and Research, India</i></p>
16:50-17:10	<p>Title: How can ice emerge at 0°C and what do ice-binding proteins do?</p> <p>Alexei V. Finkelstein, <i>Russian Academy of Sciences (IPR), Moscow State University, Russia</i></p>
17:10-17:30	<p>Title: Activation of inactive enzymes through biochemical and evolutionary approaches</p> <p>Eri Tabata, <i>Kogakuin University, Japan</i></p>

17:30-17:50

Title: *In-situ* and transported nickel-rich regolith in the Bavanat region, SW of Iran: Constraints from geochemistry and mineralogy

Soqra Rasti, Shiraz University, Iran

17:50-18:10

Video-Presentation: Utilizing choline chloride-containing DESs to extract value-added compounds from tomato pomace and incorporating them into cosmetic emulsion formulations

Liudmyla Khrokalo, Igor Sikorsky Kyiv Polytechnic Institute, Ukraine

Panel Discussion

End of Day 2



BOOKMARK
YOUR DATES

6TH EDITION OF
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March 2025 | London, UK

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DAY 1

MARCH 25, 2024

Scientific Program

GMT - Greenwich Mean Time (UK Time)

08:15-08:30 Opening Ceremony

Topics: Analytical Chemistry | Agricultural Chemistry | Electrochemistry | Food Chemistry | Organic Chemistry | Medicinal Chemistry | Green Chemistry | Photo-Chemistry and Clean Energy | Physical Chemistry | Polymer Chemistry and Technology | Radiochemistry | Environmental Chemistry | Industrial Chemistry | Green Chemistry | Molecular Biology | Biochemistry | Packaging and Packing Materials | Waste Recycling and Management

Distinguished Speaker Talks

08:30-08:50

Title: Aims and challenges of an algebraic molecular orbital theory
Jun Yasui, *Kwansei Gakuin University, Japan*

08:50-09:10

Title: Design of anisotropic phospholipid self-assembly for drug delivery system
Noriyuki Uchida, *Tokyo University of Agriculture and Technology, Japan*

09:10-09:30

Title: Accurate determination of boron in silicate samples using an improved boron–mannitol complex digestion method by ICP-MS
Xijuan Tan, *Chang'an University, China*

09:30-09:50

Title: Analytical effect of stabilizer volume and shape on zircon U–Pb dating by nanosecond LA-ICP-QMS
Dongyang Xiong, *Chang'an University, China*

09:50-10:10

Title: Nontargeted data analysis strategy in forensic discrimination of gasoline based on GC-MS data and classification and regression tree (CART)
Lee Loong Chuen, *Universiti Kebangsaan Malaysia, Malaysia*

10:10-10:30

Title: Oxygen mobility in doped first-order Ruddlesden – Popper phases
Vladislav Alexandrovich Sadykov, *Federal Research Center Boreskov Institute of Catalysis SB RAS, Russia*

10:30-10:50

Title: Improvement of fatty acid based nutritional quality of fish during frying using artificial intelligence
Jitamanyu Chakrabarty, *National Institute of Technology Durgapur, India*

Refreshment Break 10:50-11:05

11:05-11:25

Title: A coupling approach of phyto-electro remediation for removal of heavy metals from sewage sludge by *Spinacia oleracea* L

Srinivas Namuduri, GITAM (Deemed to be University), India

11:25-11:45

Title: Emerging roles of noncoding RNAs in breast cancer development

Nida Jamil Khan, Jamia Millia Islamia University, India

11:45- 12:05

Title: Intermediate syndrome due to organophosphate poisoning: A case report

Shubhangi Setia, Jawaharlal Nehru Medical College, Datta Meghe Institute of Higher Education and Research, India

12:05-12:25

Title: Interactions between dopamine metabolites and α -synuclein in causing Parkinson's disease

Sivakumar Palanisamy, Excel Engineering College, India

12:25-12:55

Title: Features of phase, isotopic equilibrium and multiplication of a single stage separation factor during the concentration of boron-10 isotope by chemical exchange with using of boric acid

Aleksey Vladimirovich Khoroshilov & Penkin Pavel Vladimirovich, Mendeleev Russian University of Chemical Technology, Russia

12:55-13:15

Title: Synthesis of chitosan derivative as an enterosorbent for sorption of heavy metal ions

Sevda Fatullayeva, Catalysis and Inorganic Chemistry Institute of Ministry of Science and Education of the Republic of Azerbaijan, Azerbaijan

Lunch Break 13:15-13:50

13:50-14:10

Title: Green synthesis based on 3-chloro-6-hydrazinylpyridazine under the action of microwave (MW) and ultrasonic (US) irradiation

Yana Gharibyan, Armenian National Agrarian University, Armenia

14:10-14:30

Title: Electron-beam radiation effects in the multilayer structures grown by periodical deposition of Si and CaF₂ on Si (111)

Anatoly Dvurechenskii, Novosibirsk state university, Russia

14:30-14:50

Title: The antioxidant activity of betanin protects MRC-5 cells against cadmium induced toxicity

Fatemeh Rajabian, Mashhad University of Medical Sciences, Iran

14:50-15:10

Title: Properties of metals and metal alloys powders for 3D printers

Oleksandr Radchenko, *Frantsevich Institute for problems of material Science NAS of Ukraine, Ukraine*

15:10-15:30

Title: Dextrose can increase such as decrease the range of TMJ movement

Mai Ahmed Haggag, *Mansoura University, Egypt*

Refreshment Break 15:30-15:45

15:45-16:05

Title: Establishing an understanding of polyethylene glycol as a green solvent

Markus Manfred Hoffmann, *State University of New York, USA*

16:05-16:25

Title: Using crushed stone fines as a precursor for the synthesis of zeolites Na-X, Na-A, CAN, MER, and ANA

Hugo Martín Galindo Valbuena, *Universidad Nacional de Colombia, Colombia*

16:25-16:45

Title: Advances in laser processed material of soft sensing and soft actuation

Yun Ling, *Duke University, USA*

16:45-17:05

Title: MDH CURES community: A supportive network to increase student retention and learning

Joseph Provost, *University of San Diego, USA*

17:05-17:25

Title: Novel concepts based on quantization effects in semiconductor nanostructures and via molecular singlet fission for ultra-high solar photon conversion efficiency of sunlight into photovoltaics and solar fuels

Arthur J. Nozik, *University of Colorado and National Renewable Energy Laboratory (NREL), USA*

Closing Remarks

End of Day 1



GMT - Greenwich Mean Time (UK Time)

08:15-08:30 Introduction

Topics: Analytical Chemistry | Agricultural Chemistry | Electrochemistry | Food Chemistry | Organic Chemistry | Medicinal Chemistry | Green Chemistry | Photo-Chemistry and Clean Energy | Physical Chemistry | Polymer Chemistry and Technology | Radiochemistry | Environmental Chemistry | Industrial Chemistry | Green Chemistry | Molecular Biology | Biochemistry | Packaging and Packing Materials | Waste Recycling and Management

Distinguished Speaker Talks

08:30-08:50

Title: Advances in materials development for material extrusion (MEX) based additive manufacturing

Caroline Sunyong Lee, *Hanyang University, Republic of Korea*

08:50-09:10

Title: Excellent ammonia sorption enabled by metal-organic framework nanocomposites for seasonal thermal battery

Li-Wei Wang, *Shanghai Jiao Tong University, China*

09:10-09:30

Title: Effects of argon/nitrogen sputtering gas on the microstructural, crystallographic and piezoelectric properties of AlN thin films

Rhonira Latif, *Universiti Kebangsaan Malaysia, Malaysia*

09:30-09:50

Title: Iridium oxide and cobalt hydroxide microfluidic-based potentiometric pH sensor

Qiuchen Dong, *Xi'an Jiaotong-Liverpool University, China*

09:50-10:10

Title: The use of biomass for fuel optimization of coal-fired power plants

Tri Nguyen, *Power Engineering Consulting Company 2 (PECC2), Vietnam*

10:10-10:30

Title: Synthesis of gold nanoparticles in ecofriendly approach and its colorimetric detection of Cd²⁺ ions in real samples analysis

Manjushree Bhattacharyya, *Vidyasagar University, India*

10:30-10:50

Title: Optimization of vitamin B12 nano-emulsification and encapsulation using spontaneous emulsification

Shabnam Karbalaee Saleh, *Islamic Azad University, Iran*

Refreshment Break 10:50-11:05

11:05-11:25

Title: Synthesis of a new camptothecin analogue useful for enhanced topoisomerase 1 inhibition activity

Shraddha Upadhyay, *Swami Vivekanand Subharti University, India*

11:25-11:45

Title: Incorporation of Ag-doped ZnO nanorod through graphite hybridization: Effective approach for degradation of ciprofloxacin

Tanu Shree Roy, *Bangladesh University of Textiles, Bangladesh*

11:45- 12:05

Title: Analysis and optimization of plant layout using computerized algorithms for relative allocation of facilities

Vijay kumar. M, *JSS Academy of Technical Education, India*

12:05-12:25

Title: Process intensification by spherical crystallization

Jyothi Thati, *Osmania University, India*

12:25-12:45

Title: First-principle investigations of structural, electronic, optical and mechanical properties of inorganic halide perovskite $KAgR_3$ (R = Cl and F) materials for water splitting degradation applications

Waqar Azeem, *Rabdan Academy, United Arab Emirates*

12:45-13:05

Title: Spectroscopy of cocaine and its isomers

Safa Ben Amara, *Universit e de Tunis El Manar Facult e des Sciences de Tunis, Tunisia*

Lunch Break 13:05-13:40

13:40-14:00

Title: Prospects for hydrogen fuel cell vehicles to decarbonize road transport

Mehmet Dogan Ucok, *Sabanci University, Turkey*

14:00-14:20

Title: Study of the influence of Pseudomonas aeruginosa on α brass and ($\alpha + \beta$) brass behavior against corrosion in drinking water

El Mestari Meryem, *Ibn Tofail University, Morocco*

14:20-14:40

Title: The dynamic pseudo-equilibrium moisture content, a new property of materials when they are drying, the practical limit for the thin layer drying kinetics

Alexis Faneite Noguera, *University of Zulia, Venezuela*

14:40-15:00

Title: Unraveling the effects of NADH on experimental diabetes in murine model and its implications in beta cells survival

Benachour Karine, *Laboratory of Experimental Biology and Pharmacology, Algeria*

15:00-15:20

Title: Novel 4th generation TKI targeting T790M resistance mutation in EGFR: Exploring its binding dynamics by a combined in silico/experimental approach

Minnelli Cristina, *Polytechnic University of Marche, Italy*

15:20-15:40

Title: Metal complexes for quantum energy technologies at room temperature

Clebson Cruz, *Federal University of Western Bahia, Brazil*

Refreshment Break 15:40-15:55

15:55-16:15

Title: Exploring the interior of the hunga tonga hunga ha'apai submarine volcano

Román Alvarez, *Universidad Nacional Autónoma de México, Mexico*

16:15-16:35

Title: Low-temperature synthesis of ZnO nanorods and their performance as H₂S gas sensor

Claudio Martínez-Pacheco & Laura Lorena Díaz-Flores, *Juárez Autonomous University of Tabasco, Mexico*

16:35-16:55

Title: Emerging pollutants in coastal environments: The beaches of Acapulco

Amado Enrique Navarro Frómata, *Universidad Tecnológica de Izúcar de Matamoros, Mexico*

Closing Remarks

End of the Conference





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