



Peers Alley Media

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4th Edition of

**ADVANCED
CHEMISTRY
WORLD CONGRESS**

MARCH 27-28

2023

Barcelona

Spain

Scientific Program

DAY 1

MARCH 27, 2023

Scientific Program

08:00-09:00 Registrations

09:00-09:30 Opening Ceremony

Moderator: Dimitrios Kotzias, Institute for Health and Consumer Protection, Italy

Keynote Forum 09:30-11:00

09:30-10:00

Title: Naturally occurring radioactive materials in oil exploration: How did this happen?

Sheldon Landsberger, University of Texas at Austin, USA

10:00-10:30

Title: Aerosol collector addition in coarse particle flotation

Liza Forbes, University of Queensland, Australia

10:30-11:00

Title: Design of agonists for the selective activation of BMP signalling using the three-dimensional structure of BMP7 and a computer algorithm based on structure activity relationships and the physical chemical properties of amino acids

William Carlson, Massachusetts General Hospital and Harvard Medical School, USA

Networking & Refreshments 11:00-11:10

Session I (11:10-13:15) Distinguished Speaker Talks

Session Chair: Sheldon Landsberger, University of Texas at Austin, USA

11:10-11:35

Title: Automated SEM/EDS analysis for assessment of trace cross-contamination in 316L stainless steel powders for additive manufacturing

María José Balart Murria, University of Warwick, UK

11:35-12:00

Title: A decreased response to resistin in mononuclear leukocytes contributes to oxidative stress in nonalcoholic fatty liver disease

Placida Baz, University of Buenos Aires, Argentina

12:00-12:25

Title: Subtle early-warning indicators of landfill subsurface thermal events

Andy Davis, Geomega Inc, USA

12:25-12:50

Title: Total mandible and bilateral TMJ reconstruction combining a customized jaw implant with a free fibular flap

Bruno Andrea Pesucci, *Maxillo Facial Surgery Unit, San Camillo Forlanini Hospital, Italy*

12:50-13:15

Title: Combination of Betulinic acid fragments and Carbonicanhydrase inhibitors – A new drug targeting approach

Reinhard Paschke, *Martin Luther University Halle-Wittenberg, Germany*

Group Photo

Lunch Break 13:15-14:00

Session II (14:00-15:40) Distinguished Speaker Talks

Session Chair: William Carlson, *Massachusetts General Hospital and Harvard Medical School, USA*

14:00-14:25

Title: Consideration of net-zero concrete toward a carbon recycling society by a mineral carbonation using alkali wastes

Yoshito Izumi, *Sustainable Development Innovations, Japan*

14:25-14:50

Title: Tailor-made alkaliphilic and thermostable fungal laccases for industrial wood processing

Michael Lecourt, *FCBA Institut Technologique, France*

14:50-15:15

Title: Carbon dioxide (CO₂) utilization through chemical and electrochemical conversion

Geoff Wang, *The University of Queensland, Australia*

15:15-15:40

Title: Water and its dielectric signature: New marker for biosensing

Yuri Feldman, *The Hebrew University of Jerusalem, Israel*

Networking & Refreshments 15:40-15:55

Session III (15:55-17:35) Distinguished Speaker Talks

Session Chair: Liza Forbes, *University of Queensland, Australia*

15:55-16:20

Title: Direct optical measurement of corrosion layer thickness of archaeological lead artifacts; A new simpler dating method

Sana Shilstein, *Weizmann Institute of Science, Israel*

16:20-16:45

Title: Chemical profile of tropical red wines from the Submiddle Sao Francisco Valley, Brazil

Carlos Artur Alves, *Centro Universitário Inta - Uninta, Brazil*

16:45-17:10

Title: Orientation analysis of polymer thin films on metal surfaces via IR absorbance of the relative transition dipole moments

Andreas Fruh, *National Research Tomsk Polytechnic University, Russian Federation*

17:10-17:35

Title: Developments of thermal protection materials in space missions and the current issues in this research

Lars Pepermans, *Netherlands*

End of Day 1



DAY 2

MARCH 28, 2023

Scientific Program

09:00-09:30 Introduction

Keynote Forum 09:30-11:00

09:30-10:00 Title: Processing the ores of rare earth elements
Terry McNulty, T.P. McNulty and Associates, Inc., USA

10:00-10:30 Title: HDAC inhibitors with non-hydroxamate warhead
Franz-Josef Meyer-Almes, Darmstadt University of Applied Sciences, Germany

10:30-11:00 Title: Application of heterogeneous photocatalytic technology for the degradation of gaseous priority pollutants in ambient air and indoor environments
Dimitrios Kotzias, Institute for Health and Consumer Protection, Italy

Networking & Refreshments 11:00-11:10

Session IV (11:10-13:15) Distinguished Speaker Talks

Session Chair: Franz-Josef Meyer-Almes, Darmstadt University of Applied Sciences, Germany

11:10-11:35 Title: From conventional to green: Latest trends in fertilizer industry
Cemre Avsar, Toros Agri Industry and Trade Co. Inc, Turkey

11:35-12:00 Title: Synthesis and catalytic applications of metal complexes supported by NHC-based cyclophanes
Daniel Mendoza-Espinosa, Universidad Autónoma del Estado de Hidalgo, Mexico

12:00-12:25 Title: Artificial intelligence applied to nutritional therapy in Moroccan type 2 diabetics: Methodological approach
Saliha Chellak, Cadi Ayyad University, Morocco

12:25-12:50 Title: Lithium ions extraction from sea water bittern using room temperature ionic liquid
Abdolreza Hormati, CEO Manager of the First Producer of Industrial Salt from Sea Water, Iran

12:50-13:15 Title: Preparation and characterization of PDMS-based antifouling coatings
Esra Kasapgil, Izmir Bakircay University, Turkey

Lunch Break 13:15-14:00

Session V (14:00-16:30) Distinguished Speaker Talks

Session Chair: Dimitrios Kotzias, *Institute for Health and Consumer Protection, Italy*

14:00-14:25

Title: Structural and photoluminescence studies of microwave sintered Ce_{0.8}Y_{0.1}Dy_{0.1}O_{2-δ} solid electrolyte for IT-SOFC applications
Ch Madhusudan, *Government Degree College, India*

14:25-14:50

Title: Eco-friendly synthesis and application of tin sulfide
Asta Bronusiene, *Kaunas University of Technology, Lithuania*

14:50-15:15

Title: Selenium speciation analysis in lactic acid bacteria cultivated under stress conditions
Vera Nesporova, *University of Chemistry and Technology, Czech Republic*

15:15-15:40

Title: Relationship among Blastocystis, the Firmicutes/Bacteroidetes ratio and chronic stress in Mexican university students
Iliana Itzel Lozano-Ochoa, *Universidad Juarez del Estado de Durango, Mexico*

15:40-16:05

Title: Development of nimesulide analogs as a dual inhibitor targeting tubulin and HSP27 for treatment of female cancers
Laila A. Jaragh-Alhadad, *Kuwait University, Kuwait*

16:05-16:30

Title: Association study of HIF-1 α rs11549465 and VEGF rs3025039 genetic variants with diabetic retinopathy in Egyptian patients: Crosslinks with angiogenic, inflammatory, and anti-inflammatory markers
Leqaa A. Moemen, *Research Institute of Ophthalmology, Egypt*

E-Posters

Title: A 4-year of HbA1C assay performance from Thailand in the European HbA1c Trial
Supaporn Suparak, *Department of Medical Sciences, Ministry of Public Health, Thailand*

Title: Resilience of glass fiber-modified advanced polymer composites
Catherine Vasnetsov, *Caribbean Environment and Development Institute, Puerto Rico*

Networking & Refreshments 16:30-16:50

Closing Remarks

End of Conference





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**5TH ADVANCED
CHEMISTRY
WORLD CONGRESS**

March 2024 | Amsterdam, Netherlands

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