

University of Nizwa  
 College of Arts & Sciences  
 Department of Biological Sciences and Chemistry

## The First Virtual Analytical Chemistry Conference (23-24 March 2022)

*Analytical Techniques: Innovation & challenges*

### Conference Program

Session Time	Title	Presenter	Chair
<b>Wednesday, 23 Mar 2022</b>			
09:40-09:45 am	Opening		
09:45 – 09:50 am	Welcome Speech	Prof. Ahmed Al-Rawahi The Chancellor of the University of Nizwa	
09:50 – 09:55 am	Conference Brief	Dr. Mohammed Al-Sibani	
09:55-10:00 am	Short video		
<b>Theme 1: Analytical Chemistry for Drugs Discovery</b>			
10:00-11:00 am	<b>Keynote address</b> Natural products and bioorganic chemistry approaches for drug discovery.	Prof. Muhammad Iqbal Choudhary	Dr. Ghulam Abbas
11:00 -11:25 am	<b>Session 1</b> Role of NMR spectroscopy in drug discovery.	Dr. Adnan Ali Shah	Prof. Javid Hussain
11:25-11:50 am	<b>Session 2</b> Study of molecular and biomolecular binding interaction using affinity capillary electrophoresis and microscale thermophoresis.	Prof. Dr. Sami Eldeeb	Dr. Mohammed Al- Sibani
11:50-12:00 pm	<b>Break</b>		
12:00-12:25 pm	<b>Session 3</b> Structure based design of histone deacetylase inhibitors for the treatment of parasitic diseases.	Prof. Dr. Wolfgang Sippl	Prof. Shehla Amer
12:25-12:50 pm	<b>Session 4</b> Interpretable machine learning on high performance computing architectures: application to personalized medicine and drug discovery.	Dr. Horacio Pérez-Sánchez	Dr. Zakira Naureen

12:50 – 01:15 pm	<b>Session 5</b> Determination of the chemical composition and biological activities of essential oil of <i>Teucrium polium</i> L. from Riyadh province for preparation and optimization of oil-in-water nanoemulsion.	Dr. Waad Ayed Lafi Al Otaibi	Prof. Mayson Al Khatib
01:15 – 02:00 pm	<b>Break</b>		
<b>Theme 2: Industrial Analysis and Process Control</b>			
02:00 -03:00 pm	<b>keynote address</b> Discovery and commercialisation of novel chemical synthetic methods. from laboratory to saleable products.	Prof. Declan G. Gilheany	Dr. Sulaiman Al Sulaimi
03:00-03:25 pm	<b>Session 1</b> Reuse of treated industrial wastewater in sustainable agriculture practice – A green technology concept.	Dr. Singanan Malairajan	Dr. Dunaboyina Vishnu
03:25-03:50 pm	<b>Session 2</b> Photoconversion of CO <sub>2</sub> into value-added Products.	Prof. Muhammed Naeem Ashiq	Dr. Saima Farooq
03:50 -04:00 pm	<b>Break</b>		
04:00 -04:25 pm	<b>Session 3</b> Smart Sensors Based on Hairpin Probes, Silver Nanoparticles and Liquid Crystals.	Dr. Sulayman A. Oladepo	Dr. Ahmed Hamaed
04:25-04:50 pm	<b>Session 4</b> <i>Ganoderma lucidum</i> extract nanoparticles: production by expansion of supercritical fluid solution, optimization and evaluation of antioxidant ability.	Dr. Farhad Raofie	Dr. Aisha Al Abri
04:50 -05:15 pm	<b>Session 5</b> Biodegradable polymeric base material for water treatment uses	Prof. Dr. Abir Abdel-Naby	Dr. Fathima Hussain
<b>Closing Remarks (15 min)</b>			
<b>Thursday, 24 Mar 2022</b>			
<b>Theme 3: Material Analysis and Testing</b>			
10:00-11:00 am	<b>Keynote address</b> Graphene-based electrode materials for energy storage applications.	Prof. Hyun-Kyung Kim	Dr. Saima Farooq

11:00 -11:25 am	<b>Session 1</b> Electrochemical preparation of different classes of high-entropy materials for advanced applications.	Dr. Jagadeesh Sure	Dr. Dunaboyina Vishnu
11:25-11:50 am	<b>Session 2</b> Fabrication and physicochemical investigations of the (Zinc oxide)-Poly(N-isopropylacrylamide)- (Chitosan)-Poly (acrylic acid) based hybrid polymer microgel for potential applications.	Dr. Abbas Khan	Dr. Ahmed Hamaed
11:50-12:00 pm	<b>Break</b>		
12:00-12:25 pm	<b>Session 3</b> Analysis of corrosion inhibition of mild steel by gemini surfactants in hydrochloric acid.	Dr. Hariom Kumar Sharma	Dr. Fathima Hussain
12:25-12:50 pm	<b>Session 4</b> Sustainable cellulose nanocrystals and modified cellulose nanocrystal for water treatment.	Dr.Shadia Mahmoud	Prof. Javid Hussain
12:50 – 01:15 pm	<b>Session 5</b> Structural characterization of polymeric chitosan and mineral from Omani shrimp shells.	Ms. Hurya Ali Said Al Hoqani	Dr. Ghulam Abbas
01:15 – 02:00 pm	<b>Break</b>		
<b>Theme 4: Environmental Analytical Chemistry</b>			
02:00 -03:00 pm	<b>Keynote address</b> Biopolymer ligands for efficient and eco-friendly transition and rare earth metals extraction from water sources.	Prof. Lutfor Rahman	Prof. Isam Kadim
03:00-03:25 pm	<b>Session 1</b> Photocatalytic degradation of pharmaceuticals present in water and wastewater.	Dr. Bushra AlWahibi	Prof. Mayson Al Khatib
03:25-03:50 pm	<b>Session 2</b> Electroanalytical methods for quantitative detection of inorganic and organic toxic pollutant in various sources.	Prof. Pandian kannaiyan	Dr. Quazi Imranul
03:50 -04:00 pm	<b>Break</b>		
04:00 -04:25 pm	<b>Session 3</b> Sorafenib solubility in pure and mixed solvents: Abraham solute descriptors, solvent effect and preferential solvation Analysis.	Dr. Ali Faragitabar	Dr. Sulaiman Al Sulaimi

04:25-04:50 pm	<b>Session 4</b> Development of magnetic porous coordination polymer adsorbent for the removal and preconcentration of Pb(II) from environmental water samples.	Dr. Aisha Al-Abri	Dr. Ahmed Al Qteishat
04:50 -05:15 pm	<b>Session 5</b> Recent advances in micro-gas chromatography - the opportunities and the challenges for environmental analysis.	Prof. Imadeddine Azzouz	Dr. Mohammed Al-Sibani
<b>Closing Remarks (15 min)</b>			