

CONFERENCE PROGRAM



5TH EDITION OF

CHEMISTRY WORLD CONFERENCE

JUNE 02-04,
2025

ROME, ITALY



IN-PERSON:

NH Villa Carpegna, Via Pio IV,
6, 00165 Roma RM, Italy



VIRTUAL:

Central European Summer
Time (CEST)



(IN-PERSON)

DAY 01	Monday		JUNE 02
		08:00-08:50 Registrations	
		08:50-09:00 Opening Ceremony and Introduction	
		09:00-12:00 In-person Keynote Presentations	
		12:00-17:40 In-person Oral Presentations	
		17:40-18:15 In-person Poster Presentations	
		11:00-11:20-Coffee Break	
		13:00-14:00-Lunch Break	
		16:00-16:20-Coffee Break	

(VIRTUAL)

DAY 02	Tuesday		JUNE 03
		08:30-09:00 AV Check	
		09:00-10:20 Virtual Keynote Presentations	
		10:20-16:40 Virtual Oral Presentations	

(VIRTUAL)

DAY 03	Wednesday		JUNE 04
		08:30-09:00 AV Check	
		09:00-10:20 Virtual Keynote Presentations	
		10:20-11:00 Virtual Poster Presentations	
		11:00-13:20 Virtual Oral Presentations	
		13:20-16:00 Virtual Keynote Presentations	

Important Note

- The conference follows Central European Summer Time (CEST) for both In-Person sessions and for Virtual sessions.
- When the program refers to “Local Timings” it means that the timing mentioned is based on the time zone of the presenter’s country.
- In-person presentations will take place in the Leonardo B Room @NH Villa Carpegna and Virtual presentations will take place in Zoom meetings.
- Please remain accessible in the hall or on Zoom throughout the day as there could be minor program adjustments due to technical issues or presenter no-shows.

Moderator: Prayash Chakraborty,
Jagannath Gupta Institute of Medical Sciences
& Hospital, India

Chairs: Yong-Xiao Wang, Albany Medical College, United States
Sergey Suchkov, National Center for Human Photosynthesis, Aguascalientes, México

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In-person	09:00-09:40	Keynote Presentations
Serge Cosnier, Silesian University of Technology, Poland		
Title: Nanostructured biodevices based on carbon nanotubes and glyconanoparticles for bioelectrocatalytic applications		
In-person	09:40-10:20	
Yong-Xiao Wang, Albany Medical College, USA		
Title: Pharmaceutical chemistry studies of novel biologics and drugs for chronic obstructive pulmonary disease		
In-person	10:20-11:00	
Stanislaw Dzwigaj, Sorbonne Université, France		
Title: Chemical engineering of vanadium, titanium or chromium zeolites for application in environmental catalysis		
Group Photo		
11:00-11:20 Coffee Break @Foyer		
In-person	11:20-12:00	
Sergey Suchkov, National Center for Human Photosynthesis, Aguascalientes, México		
Title: Personalized and Precision Medicine (PPM) as a unique healthcare model through biodesign-inspired bio- and chemical engineering applications to secure the human healthcare and biosafety		
In-person	12:00-12:20	Oral Presentations
Sergey Suchkov, National Center for Human Photosynthesis, Aguascalientes, México		
Title: Antibody-proteases as a generation of unique biomarkers, biocatalysts, potential targets and translational tools towards nanodesign-driven biochemical engineering and precision medical practice		
In-person	12:20-12:40	
Fu-Ming Tao, California State University, The United States of America		
Title: The chemistry of atmospheric smog and aerosols: Critical roles of ammonia		
In-person	12:40-13:00	
Carmen Kaiser Brüggmann, Rigaku Europe SE, Germany		
Title: The elemental analysis of granulated blast furnace slag using WDXRF for conformity as per the EN 197-1 international standard		
13:00-14:00 Lunch Break @Restaurant		
In-person	14:00-14:20	
Sujit Kumar Bandyopadhyay, Variable Energy Cyclotron Centre, India		
Title: Role of d electrons in multifunctional materials		

In-person	14:20-14:40	Bhaskar Chakraborty, Sikkim Government College, India Title: Green chemistry protocol for the synthesis of some new scaffolds of isoxazolidine & isoxazoline derivatives via 1,3-dipolar cycloaddition reaction and potential biological activities of the cycloadducts
In-person	14:40-15:00	Zerihun Assefa, North Carolina A&T State University, USA Title: Modulation of structural and spectroscopic properties in a series of metal atoms ranging from transition to lanthanide to actinide atoms connected through bridging ligands
In-person	15:00-15:20	Chaoyu Xiang, Ningbo Institute of Materials Technology and Engineering (NIMTE) of the Chinese Academy of Sciences (CAS), China Title: Homogeneous nucleation and growth for synthesizing highly efficient and stable perovskite quantum dots and their light-emitting diodes
In-person	15:20-15:40	Gabriel Nicolai, University of Campinas - UNICAMP, Brazil Title: Comparative simulation of isopropyl palmitate synthesis in a microreactor with static elements and a batch reactor
In-person	15:40-16:00	Davor Margetic, Ruđer Bošković Institute, Croatia Title: Mechanochemical synthesis of thioureas and guanidines
16:00-16:20 Coffee Break @Foyer		
In-person	16:20-16:40	Gilberto Lúcio benedito de Aquino, Universidade Estadual de Goiás, Brazil Title: Quantification of alkaloids in Ayahuasca similar seized material using qNMR
In-person	16:40-17:00	Chantale Njiomou Djangang, University of Yaoundé 1, Cameroon Title: Use of industrial minerals to improve portland cement's sustainability
In-person	17:00-17:20	Amel Salah Mobarak Twfeek, University of Khartoum, Sudan Title: Inner sphere oxidation of 3,9-dimethyl-4,8-diaza-3,8-undecadiene-2,10- dione dioximecopper(II) complex by N-bromosuccinimide to copper(III) in aqueous acidic solutions
In-person	17:20-17:40	Sarra Kitanou, ITU - ENSC, Morocco Title: Response surface methodology to investigate the effects of operational parameters on membrane bioreactor

In-person P1 (17:40-18:15) Poster Presentations @Foyer

Prayash Chakraborty, Jagannath Gupta Institute of Medical Sciences & Hospital, India

Title: Interdisciplinary studies in pharmacology, pathology, microbiology and chemistry in undergraduate course of medicine: A real outcome based learning in mode of action of drugs and identification of diseases

In-person P2

Samar Nafafaa, Ziv Medical Center, Israel

Title: Evaluation of complement proteins C3, C4, and CH50 in ICU patients with COVID-19: No clear correlation with disease severity

In-person P3

Mona Nasar, Ziv Medical Center, Israel

Title: Improving point-of-care testing accuracy through training and supervision

In-person P4

M. Hussien, University of Leeds, United Kingdom

Title: Evaluation of a novel corrosion inhibitor for lead sequestration in aqueous systems

In-person P5

Justin Mah, Institute of Materials Research and Engineering, Singapore

Title: Water-resistant boronic ester vitrimers via hydrophobic side chain protection

Moderator: Ayushi Rana,
Galgotias University, India

Chair: Shree Niwas Chaturvedi,
Centre for Aptitude Analysis and Talent Search, India

	Central European Summer Time (CEST)	Local Timings	
Virtual	09:00-09:40	12:30-13:10	Keynote Presentations
	Shree Niwas Chaturvedi, Centre for Aptitude Analysis and Talent Search, India		
	Title: Hot atom chemistry - Past, present and future		
Virtual	09:40-10:20	10:40-11:20	
	Alexander Bagaturyants, Retired, Israel		
	Title: Theoretical modeling in organic nanophotonics: Processes and devices		
Virtual	10:20-10:40	17:20-17:40	Oral Presentations
	Kazuhiro Ishida, Retired from Science University of Tokyo, Japan		
	Title: Multicenter molecular integrals over dirac wave functions for solving the molecular matrix dirac equation		
Virtual	10:40-11:00	16:40-17:00	
	Xun Yuan, Qingdao University of Science and Technology, China		
	Title: Surface engineering of ultrasmall metal nanoclusters for biomedical applications		
Virtual	11:00-11:20	17:00-17:20	
	Pengju Wu, School of Energy and Power Engineering Jiangsu University, China		
	Title: Current research progress in heavy metals poisoning of Selective Catalytic Reduction (SCR) denitration catalysts		
Virtual	11:20-11:40	11:20-11:40	
	Davide Frumento, RomaTre University, Italy		
	Title: Glioblastoma treatment: Small molecule Tyrosine Kinase Inhibitors (TKIs)		
Virtual	11:40-12:00	10:40-11:00	
	Wei Wu, University College London, United Kingdom		
	Title: The powerful capacities of polymers for the adsorption of the mercury ions in water		
Virtual	12:00-12:20	12:00-12:20	
	Ferran Acuña-Parés, Universidad Internacional de la Rioja (UNIR), Spain		
	Title: Disrupting TNF- α and TNFR1 interaction: Computational insights into the potential of D-Pinitol as an anti-inflammatory therapeutic		
Virtual	12:20-12:40	12:20-12:40	
	Shawn Gouws, Nelson Mandela University, South Africa		
	Title: Characterization of OER catalysts for green hydrogen production via PEM water electrolysis		
Virtual	12:40-13:00	13:40-14:00	
	Mohamed Mahmoud, Saudi Aramco, Saudi Arabia		
	Title: Formation of pseudo-scale due to incompatible field chemical at oil and gas field water pipelines		

	Central European Summer Time (CEST)	Local Timings
Virtual	13:00-13:20	16:30-16:50
Ayushi Rana, Galgotias University, India		
Title: Toxicological trend in Prayagraj, Uttar Pradesh, India		
Virtual	13:20-13:40	12:20-12:40
Mausul Umar, Federal University of Kashere, Nigeria		
Title: Application of biochar for the removal of cadmium from industrial waste		
Virtual	13:40-14:00	12:40-13:00
Demmouche Abbassia, Djillali Liabes University, Algeria		
Title: The antioxidant and analgesic effect of red and white ginseng on wistar rats		
Virtual	14:00-14:20	13:00-13:20
Peron Bosco Leutcha, University of Maroua, Cameroon		
Title: Flavonoids and other metabolites from the leaves of <i>Garcinia smeathmannii</i> , <i>in vitro</i> and <i>in silico</i> anti-inflammatory potentials		
Virtual	14:20-14:40	14:20-14:40
Luca Vattuone, University of Genoa, Italy		
Title: H ₂ dissociation at Ni(111) supported single-layer graphene		
Virtual	14:40-15:00	15:40-16:00
Valery P. Kalinitchenko, All-Russian Phytopathology Research Institute, Big Vyazyomy; Institute of Fertility of Soils of South Russia, Russia		
Title: Chemical-soil-biological engineering and biogeosystem technique methodology in shaping sustainable future		
Virtual	15:00-15:20	18:30-18:50
Arun K Shandilya, Dr.H.S.G.University, India		
Title: Discovery of helium in rocks of vindhyan super group around sagar, South Ganga Basin, Bundelkhand Region M.P. India		
Virtual	15:20-15:40	09:20-09:40
Brij Bhushan Tewari, University of Guyana, Guyana		
Title: Metal complexes in biology and medicine: The system aluminum (III)/chromium (III)/iron (III) – norvaline		
Virtual	15:40-16:00	16:40-17:00
Stanislav Alexandra Alina, County Emergency Hospital Giurgiu, Romania		
Title: Testing the association between the UCP2 gene RS659366 with metabolic syndrome in patients with obesity from county emergency hospital Giurgiu Romania		

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Virtual 16:00-16:20 15:00-15:20

Oluchukwu Alope, SLB, United Kingdom

Title: New scale dissolver for the removal of elemental metal deposits

Virtual 16:20-16:40 19:50-20:10

Tarulata N Chhowala, Veer Narmad South Gujarat University, India

Title: Remedial effects of chemotherapy and hyperthermia of complexes for breast cancer cells

Moderator: Silvia Elizabeth Asís,
Universidad de Buenos Aires, Argentina

Chair: Shree Niwas Chaturvedi,
Centre for Aptitude Analysis and Talent Search, India

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Virtual	09:00-09:40	10:00-10:40	Keynote Presentations
Theodosios Geo Douvropoulos, Hellenic Naval Academy, Greece Title: Key chemical sensing applications of AlGaAs/GaAs heterostructures and a quantum resonant-tunneling based model thermometer			
Virtual	09:40-10:20	15:40-16:20	
Thomas J Webster, Hebei University of Technology, China Title: Supramolecular nano chemistries: Fighting viruses, inhibiting bacteria, and growing tissues			
Virtual	10:20-10:30	11:20-11:30	Poster Presentations
Jekaterina Ivanova, Latvian Institute of Organic Synthesis, Latvia Title: Synthesis and biological evaluation of novel TrxR inhibitors as anti-cancer agents			
Virtual	10:30-10:40	11:30-11:40	
Valery N. Belyaev, Retired, Russian Federation Title: On a new approach to determining the ionization potential of molecules from spectroscopic data			
Virtual	10:40-10:50	11:40-11:50	
Cristian-Catalin Gavat, University of Medicine and Pharmacy Grigore T. Popa, Romania Title: Fundamental role and essential biomedical applications of chelated metal complex combinations in cancer therapy			
Virtual	10:50-11:00	10:50-11:00	
Irvin Noel Booysen, University of KwaZulu-Natal, South Africa Title: Anti-amyloid aggregation and anti-hyperglycemic activities of ruthenium uracil schiff base compounds and their chitosan-polyvinyl alcohol electrospun nanofiber conjugates			
Virtual	11:00-11:20	11:00-11:20	Oral Presentations
Davide Gentile, Politecnico di Milano, Italy Title: Zein-based reversible and irreversible substrates for flexible electronics			
Virtual	11:20-11:40	14:50-15:10	
Asish Bhaumik, Girijananda Chowdhury University, India Title: Ionophores: Modulators of cellular ion homeostasis and emerging therapeutic agents			
Virtual	11:40-12:00	15:10-15:30	
S. Nawazish Mehdi, Osmania University, India Title: Improved performance and reduction in engine emissions by the use of chemical mixture of turmeric leaf oil and diesel blends			

	Central European Summer Time (CEST)	Local Timings	
Virtual	12:00-12:20	12:00-12:20	Maria Cristina Gamberini, University of Modena and Reggio Emilia, Italy Title: Pharmaceutical polymorphs: Advanced strategies for solid-state characterization and optimization
Virtual	12:20-12:40	15:50-16:10	Michael Anjello Jothi Rajan, KNK Renewables, India Title: Improving chemistry education with special reference to India
Virtual	12:40-13:00	16:10-16:30	Yogita Shinde, KC College, India Zohra Ulfat Shaikh, KC College, India Title: Monitoring heavy metal pollution in Bandra lake with EDX: A study of seasonal variation at 30 days interval
Virtual	13:00-13:20	16:30-16:50	Kundan Sharma, Govt. College Nagrota Bagwan, India Title: Indigenous technologies to check food adulteration: A native approach
Virtual	13:20-14:00	08:20-09:00	Silvia Elizabeth Asís, Universidad de Buenos Aires, Argentina Title: Design and synthesis of nitrogen heterocycles with antileishmanial activity: From natural products inspiration to 2D/3D QSAR models
Virtual	14:00-14:40	08:00-08:40	Hossam A. Gabbar, Ontario Tech University, Canada Title: Advances in plasma-based waste treatment for sustainable communities
Virtual	14:40-15:20	07:40-8:20	Kyeongjae (KJ) Cho, UT Dallas and BEACONS, USA Title: Rational design of battery cathode materials
Virtual	15:20-16:00	08:20-09:00	Haibo Ge, Texas Tech University, USA Title: Distal functionalization via transition metal catalysis

Keynote Presentations

Notes:

Notes:

*We wish to meet you again at our
upcoming event*

6th Edition of

Chemistry World Conference

June 2026 | Barcelona, Spain | Hybrid Event

<https://chemistryworldconference.com/>

Questions? Contact

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