

Tentative Program

ADVANCES IN CHEMISTRY RESEARCH AND DEVELOPMENT (CHEM R&D)



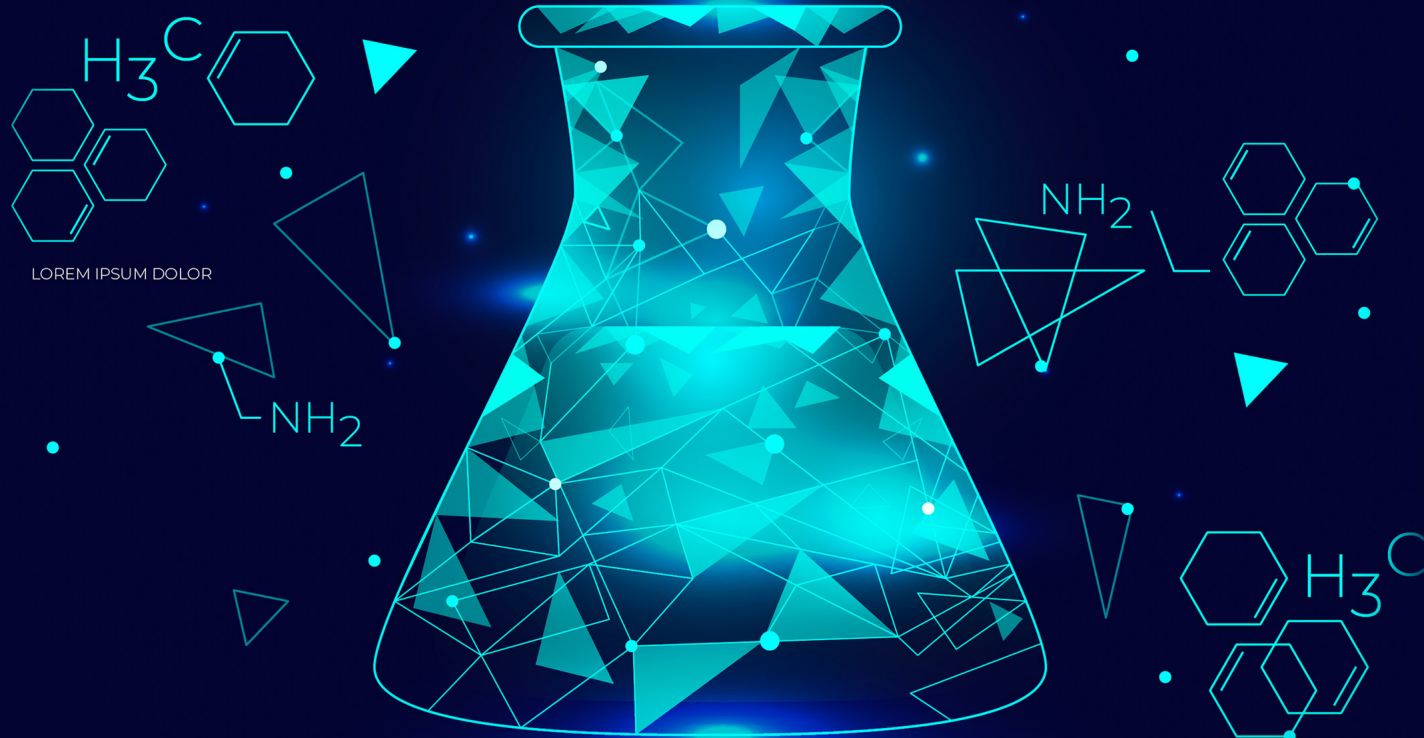
APRIL 28-30, 2025



NH Collection Frankfurt Spin Tower | Frankfurt, Germany

THEME

Chemistry Horizons: Exploring Frontiers for Sustainable Innovation and Discovery
Breaking Barriers, Shaping the Future: Innovations in Chemistry Research and Development





World of Chemistry

CHEM R&D-2025

APRIL 28-30, 2025 | FRANKFURT, GERMANY

USG-United Scientific Group, A Non-Profit Organization, is glad to announce the International Conference on “**Advances in Chemistry Research and Development (Chem R&D)**” which is scheduled to be held in **Frankfurt, Germany** during **April 28-30, 2025**.

This annual meeting aims to bring together leading researchers, scientists, industry experts, and policymakers from around the world to discuss recent advancements, challenges, and brilliant opportunities in the field of chemistry research and development.

The Chem R&D Conference stands as a cornerstone event in the world of chemistry, where pioneers, researchers, and industry experts converge to explore the latest advancements and breakthroughs in the field of chemical research and development.

NOBEL LAUREATE @ CHEM R&D 2025



Prof. Dr. Morten Peter Meldal

Nobel Laureate in Chemistry 2022

Professor in Chemistry, University of Copenhagen, Denmark

“Great discoveries are not done behind the office desk, they are done in the laboratory.”

08:00 am - 08:45 am Registration and Conference Material Collection

08:45 am - 09:00 am Introduction & Opening Remarks

Plenary Session - Duration: 40 minutes (including Q&A)**Click Adventures: Design and Synthesis of Bioactive Peptide Mimetics**

Prof. Dr. Morten Peter Meldal, University of Copenhagen, Denmark (Nobel Laureate in Chemistry 2022)

**30,000 Nano Spinal Implants in Human with No Failures...And Still Counting**

Prof. Dr. Thomas Webster, Hebei University of Technology, China

Coffee Break & Social Networking (30min.)

Keynote Session - Duration: 30 minutes (including Q&A)**Interface Chemistry for Organic and Hybrid Organic Inorganic Electronics and Opto-electronics**

Seth Marder, University of Colorado, USA



TBA

Lutz Ackermann, Georg-August University Göttingen, Germany

**Electrifying Organic Synthesis**

Siegfried R. Waldvogel, Max-Planck-Institute for Chemical Energy Conversion, Mülheim/Ruhr, Germany

Group Photo, Lunch Break & Social Networking (60 min.)

**Construction and Degradation of Fluorinated Biopolymers**

Beate Kocsch, Free University of Berlin, Germany

**From Rust to Riches: Exploring the Extreme Oxidation States of Iron**

Karsten Meyer, Friedrich Alexander University Erlangen-Nürnberg, Germany

**Photocatalysis for Sustainability: Bon Voyage from Homogeneous to Heterogeneous and Beyond**

Shoubhik Das, University of Bayreuth, Germany

Coffee Break & Social Networking (30min.)



TBA
Eugenio Coronado, Universitat de València, Spain



TBA
Andras Perczel, Eotvos Lorand University, Hungary



TBA
Yun-Dong Wu, Peking University, China



TBA
Ben Zhong Tang, The Hong Kong University of Science & Technology (HKUST), China

Poster Presentations and Networking

End Time: 06:40 pm Engage with poster presenters and network with fellow attendees.

 **"Delegate and Poster" slots are available**

 *Secure Your Spot Now and Be Part of This Prestigious Event*

 **"Sponsorship and Exhibitor" slots are available**

 *Secure Your Spot as a Sponsor or Exhibitor Today!*

08:00 am - 09:00 am Conference Material Collection & Opening Remarks

Keynote Session - Duration: 30 minutes (including Q&A)

TBA
Prof. Dr. Kristina Tschulik, Ruhr University Bochum, Germany



Exploring protein-protein interactions using synthetic peptides
Prof. Dr. Jutta Eichler, University of Erlangen-Nurnberg, Germany

Speaker Session - Duration: 20 minutes (including Q&A)

Sustainable, Recyclable, Non-isocyanate Polythiourethane Covalent Adaptable Networks from Biowaste: Performance, Extrudability, Refoamability, and Circularity
John Torkelson, Northwestern University, USA

ROVANCE – Resistance Overcoming Antibiotics New Chemical Entities: A Platform Technology to Overcome Bacterial Resistance
Philipp Uhl, Ruprecht-Karls-University Heidelberg, Germany

Exploring the Binding and Reactivity on Metal Organic Cages
Gregori Ujaque, Universitat Autònoma de Barcelona (UAB), Spain

Coffee Break & Networking

Supramolecular Gel as Platform for Complex Organic Synthesis
Debasish Haldar, Indian Institute of Science Education and Research Kolkata, India

Supramolecular Interactions of Non-Planar Polyaromatic Compounds with Fullerenes
Celedonio M. Alvarez, Universidad de Valladolid, Spain

Bio-based Reduced Graphene Oxide in Electrocatalyst Materials
Carita Kvarnstrom, University of Turku, Finland

Janus-type Materials as Heterogeneous Catalysts
Werner R. Thiel, RPTU Kaiserslautern-Landau, Denmark

Bioorthogonal Reactions of Triazinium Salts
Milan Vrabec, IOCB Prague, Czech Republic

Lunch Break & Networking

Optimizing the Heat Capacities of Sphalerite and Wurtzite Phases as Single Systems
Vassiliev Valery, Lomonosov Moscow State University, Russia

Flash Synthetic Chemistry Guided by Flow Microreactor Research
Aiichiro Nagaki, Hokkaido University, Japan

Synthesis of Three-Membered Cycles Enabled by Electrochemistry
Maksim Oseka, Tallinn University of Technology, Estonia

Coffee Break & Networking

Navigating the Chemical Space Around Bioactive Scaffolds with Selective Synthetic Tools

Giuliano Cesar Clososki, University of São Paulo - USP, Brazil

Catalytic Synthesis of Polycyclic Heteroaromatics through C-H Bond Activation

Masahiro Miura, Osaka University, Japan

Controlling Excimers in Pyrenes

Amy Stevens, University of Saskatchewan, Canada

Electrochemical Trifluoromethylation of Enamides in a Microflow Cell

Anna Vanluchene, The University of Chemistry and Technology, Czech Republic

TBA

Massimiliano Curcio, University of Bologna, Italy



"Speaker, Poster and Delegate" slots are available



Secure Your Spot Now and Be Part of This Prestigious Event

08:00 am - 09:00 am Conference Material Collection & Opening Remarks

Keynote Session - Duration: 30 minutes (including Q&A)

Get a Second Wind? - Relaunching Edman Degradation for Protein Sequencing
Prof. Dr. Diana Imhof, The University of Bonn, Germany



TBA
Prof. Dr. Marcel Swart, ICREA and Universitat de Girona, Spain

Speaker Session - Duration: 20 minutes (including Q&A)**Making Molecules and Finding Functions**

Daniel Blair, St. Jude Children's Research Hospital, USA

Chiral Lewis Base Organocatalysis

Mario Waser, Johannes Kepler University Linz, Austria

The Future of Machine Learning for Interpreting Unstructured LC-MS Data for Molecular Omics (eg: metabolomics, proteomics, etc)

Jack Geremia, Matterworks Inc., USA

Coffee Break & Networking

Nucleoside Analogs Conjugated Prodrug Polymers as Nanotherapeutic

Jingjing Sun, University of Nebraska Medical Center

TBA

Martin Nielsen, Technical University of Denmark, Denmark

TBA

Doreen Mollenhauer, Justus-Liebig-Universität Gießen, Denmark

TBA

Sandrine Gerber, EPFL, Switzerland

Polyoxometalates - Molecular Brains for Future Electronics

Kirill Monakhov, Leibniz Institute for Surface Modification (IOM), Germany

Lunch Break & Networking

TBA

Dorian Didier, Technical University of Darmstadt, Germany

TBA

Michael Adams, Kwantlen Polytechnic University, Canada

TBA

Magnus Johansson, BioPharmaceuticals R&D, AstraZeneca, Sweden

Coffee Break & Networking

Computational Simulation of First-in-Class Aptamer Mediated Tau Protein Inhibition in Alzheimer's Disease
Gaurav Sharma, Eigen Sciences LLC, USA

Unveiling Drug Discovery Insights through Molecular Electrostatic Potential Analysis
Haritha Mambatta, CRM2, France

Digital Twin & Real-Space KS-DFT
Jin Qian, Lawrence Berkeley National Lab, USA

Young Researchers Forum - Duration: 10 minutes (including Q&A)

Recyclable Terthiophenes for Synthesizing Precision Conjugated Oligomers
Hao Xu, University of Toronto, Canada

Enzymatic Activity Profiling Using an Ultra-Sensitive Array of Chemiluminescent Probes for Bacterial Classification and Characterization
Omri Shelef, Tel-Aviv University, Israel

Closing Remarks and Departures

 **"Speaker, Poster and Delegate" slots are available**

 ***Secure Your Spot Now and be Part of this prestigious Event***

Note: This is the Tentative Program and Subjected to Change.

Driving Innovation and Collaboration: Sponsorship, Exhibitions, and Industry Engagement Opportunities at Chem R&D 2025

Sponsorship and Exhibition Opportunities

Unleash Brand Potential at Chem R&D 2025

- **Exhibition Booths:** Showcase your cutting-edge technologies and solutions to an audience of global scientists, industry leaders, and innovators.
- **Sponsorship Benefits:** Gain prominent visibility through logo placements on conference materials, website banners, and session acknowledgments.
- **Networking Opportunities:** Connect directly with key decision-makers during exhibition breaks, poster sessions, and dedicated networking events.
- **Flexible Packages:** Explore tailored sponsorship tiers, including Platinum, Gold, and Silver, with options for speaking slots, branding during plenary sessions, and exclusive access to VIP gatherings.

Contact us at: chem@uniscigroup.org,
laxman.sepuri@unitedscientificgroup.com

Workshops for Industry and Academic Engagement

Bridging Innovation Between Academia and Industry

- **Day 2: Specialized Workshops:**
 - **Themes:** Sustainable Manufacturing, Advanced Industrial Catalysis, and Innovations in Chemical Processes.
- **Industry-Specific Sessions:** Tailored tracks focusing on technology adoption, product innovations, and market trends in chemical research.
- **Opportunities for Leaders:** Companies and institutes are encouraged to host or lead workshops, offering visibility as industry frontrunners.

Industrial Speakers Participation

Empowering Industry Leaders to Shape the Future of Chemistry

- **Customized Industry Tracks:**
 - **Topics:** "Bridging Academia and Industry" and "Commercialization of Chemistry Research."
 - **Case Studies:** Practical insights into addressing global challenges like decarbonization and sustainable materials development.
- **Special Package:**
 - VIP access to networking lunches, exhibition zones, and the gala dinner.
- **Roundtable Dialogues:** Engage in cross-sector discussions to promote collaboration between industry and academia.

Exclusive Networking Opportunities

Building Global Collaborations

- **Exhibition and Poster Sessions:** Informal interactions with leading researchers and companies.
- **Networking Lunches and Social Events:** Meet delegates, speakers, and industrialists in a relaxed setting.
- **Global Presidents' Gathering:** Bringing together presidents and representatives of chemical societies to discuss the advancement of chemistry globally.

Sponsor and Exhibitor Workshops

Showcase Your Expertise

- Dedicated workshops where sponsors and exhibitors lead interactive sessions to demonstrate the latest advancements in products, technologies, and applications.
- Engage directly with your target audience, addressing real-time challenges and offering solutions.

Call to Action

Secure Your Slot Today!

Chem R&D 2025 is your gateway to connect with global thought leaders, exchange ideas, and influence the future of chemical research and development. Be a part of the movement shaping tomorrow's innovations.

For Sponsorship, Exhibitor Inquiries, and Delegate Registration:

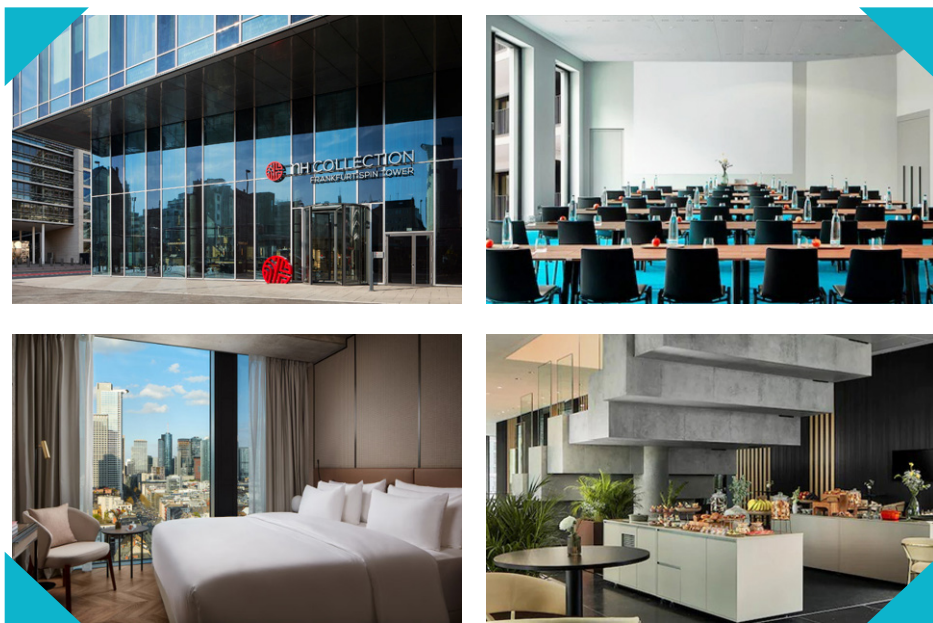
Contact us at: chem@uniscigroup.org,
laxman.sepuri@unitedscientificgroup.com

Website: <https://chemrd.unitedscientificgroup.org/>

Book Your Scientific Slot

https://chemrd.unitedscientificgroup.org/registration_form

We will see you @ CHEM R&D 2025



NH Collection Frankfurt Spin Tower
Güterplatz 1, d-60327 Frankfurt Am Main
Frankfurt, Germany
(VAT, Buffet Breakfast, and WiFi included City tax)

Organized by



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