



DEPARTMENT OF CHEMISTRY,
DR. S.S. BHATNAGAR UNIVERSITY INSTITUTE OF CHEMICAL
ENGINEERING & TECH.
&
NATIONAL ASSOCIATION FOR CHEMICAL SECURITY (NACS)
ORGANIZES



TWO-DAY SYMPOSIUM ON CHEMICAL SAFETY & SECURITY

17th -18th NOVEMBER, 2025



Bhatnagar Auditorium, Dr. SSB UICET, Panjab University,
Chandigarh, 160014

SUPPORT PARTNERS



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ABOUT CONFERENCE

The Two-Day Symposium on Chemical Safety & Security is designed to convene leading experts, researchers, industry professionals, and policymakers to address the pressing challenges associated with the safe and secure management of chemicals. In today's world—where chemicals are widely utilized across laboratories, industries, agriculture, pharmaceuticals, and consumer goods—ensuring their responsible handling is of paramount importance.

Many chemicals in everyday use are hazardous or possess dual-use characteristics, making them susceptible to misuse, including as precursors to weapons of mass destruction. Any lapse—whether accidental or deliberate—in their management can have grave consequences for public health, environmental safety, and national security.

This symposium seeks to advance awareness, encourage the adoption of best practices, and facilitate the exchange of tools and strategies to prevent chemical accidents, incidents, and misuse. It highlights the critical role of professional ethics, alignment with international safety standards, and the transition to greener and safer chemical alternatives.

Through an engaging program of keynote addresses, technical sessions, panel discussions, and poster presentations, the event will foster education, outreach, and international collaboration. The ultimate goal is to ensure chemicals are stored, handled, and used safely and securely—and always for peaceful purposes—throughout their lifecycle.

EXPECTED OUTCOMES

The Two-Day Symposium on Chemical Safety & Security is poised to deliver impactful outcomes that will significantly contribute to the global efforts in managing chemical risks and promoting a safer, more secure environment. One of the primary objectives is to enhance awareness and foster a deeper understanding of chemical safety and security among a broad spectrum of stakeholders, including chemists, safety professionals, industry representatives, academic researchers, policymakers, and regulatory authorities. Through comprehensive discussions, expert talks, and shared experiences, participants will gain insights into the complex challenges and best practices involved in handling chemicals responsibly across various sectors. A crucial outcome of the symposium will be the identification of key gaps and future directions for research and development in the field of chemical safety and security. As the chemical landscape continues to evolve with new materials, technologies, and threats, it is essential to continuously reassess and refine our approaches to safety and risk mitigation. The symposium will encourage dialogue around innovative solutions, emerging risks, and the scientific and technological advancements required to address them. Moreover, the event aims to develop actionable recommendations and strategies for policymakers, industry leaders, and academia. These recommendations will be grounded in evidence-based practices and international standards, guiding institutions in strengthening their internal policies, safety protocols, and educational frameworks. Such collaborative input is vital in ensuring a harmonized, proactive approach to chemical safety and security at both national and global levels. Equally important is the formation of a robust network of professionals and organizations committed to chemical safety and security.

THE ORGANIZERS

NACS - National Association for Chemical Security

The National Association for Chemical Security (NACS) was established in 2021 (Regn. No. GUJ/22021/Ahmedabad, 24th Nov 2021) and is registered under NGO Darpan (GJ/2024/0411987). Holding both 12A and 80G certifications, NACS works actively to promote chemical safety and security across India. Its inception traces back to the 2018 Indo-US Workshop on Chemical Security at GITAM University, Visakhapatnam, organized in collaboration with the Pacific Northwest National Laboratory (PNNL) and the U.S. Chemical Security Program (CSP). Since then, NACS has continued its mission by partnering with PNNL, CRDF Global, and several premier Indian institutions, hosting Indo-US workshops at renowned institutes like CSIR-IICT, NFSU, Gujarat University, Panjab University, PDEU, IPFT, and CSIR-NEIST.

Panjab University

Panjab University, established in 1882, stands among India's oldest and most prestigious universities. Its sprawling campus spans 550 acres across sectors 14 and 25 in Chandigarh. The university comprises 78 specialised teaching and research departments along with 15 interdisciplinary centres/chairs. It has consistently excelled in academics and research, earning national recognition for its contributions. In the NIRF 2025 rankings, Panjab University secured 3rd in State Public Universities, 57th in Overall University Category, 37th in Research Institutions, 93rd in Engineering, 92nd in Management, and 3rd in Pharmacy. Despite fluctuations, Panjab University continues to be acknowledged in the Atal Ranking of Institutions on Innovation Achievements (ARIIA) for its dedicated efforts in fostering innovation, entrepreneurship, and institutional excellence across disciplines.

Dr. S. S. Bhatnagar UICET

The University Institute of Chemical Engineering and Technology (UICET), formerly the Department of Chemical Engineering & Technology (DCET), was established in 1958 through a collaboration with IIT Chicago. Located on Panjab University's main campus, the institute began under the leadership of Prof. R. E. Peck from IIT Chicago. Since its foundation, UICET has grown into a premier institution providing quality education in chemical engineering and allied areas. It has steadily increased its contribution to research and development, with a notable rise in publications and extramural funding. The institute's alumni, faculty, and research outcomes continue to play a pivotal role in India's technical and scientific advancements.

Department of Chemistry

The Department of Chemistry, Panjab University, was founded in 1925 by the legendary scientist Dr. Shanti Swarup Bhatnagar, and remains a center of excellence in chemical sciences. Recognized by UGC through COSIST, SAP, and CAS grants, and supported by DST's FIST program, the department offers well-structured undergraduate and postgraduate programs. It is home to internationally acclaimed faculty, multiple awardees, and one of Northern India's best-equipped chemistry libraries and instrumentation centers. Research areas span inorganic, organic, nanochemistry, photochemistry, thermodynamics, protein chemistry, and theoretical chemistry. The department is also a leader in academic outreach, running impactful programs like COSIP and hosting major scientific events.

Chemical Safety and Security- General Perspectives

Global Frameworks and Regulations for Chemical Safety and international conventions, exposure scenarios, occupational health considerations, safety documentation, potential misuse, awareness campaigns, and community engagement.

Sensors for Enhancing Chemical Safety and Environmental Protection

Chemical detection technologies, nanoscale sensors, optical and photonic sensing systems, integration of signal processing, smart interfaces, materials innovation for sensing, and biomedical applications.

Chemical Safety and Security Areas of Concern

Chemical Safety: Industrial and pharmaceutical facilities, research labs, agricultural input systems, food technology, and domestic product sectors.

Chemical Security: Chemicals with dual-use potential and their oversight, enforcement strategies, and control protocols.

Chemical Safety and Security Transportation and Storage

Hazardous material storage norms, chemical inventory handling, logistics chain oversight, and compliance with legal and procedural standards.

Chemical Safety in Academic & Research Institutes

Safety protocols and training in educational institutions. Role of lab audits and safety culture in preventing incidents, community awareness and institutional frameworks.

Chemical Emergency Preparedness and Response

Chemical Safety: Risk forecasting and analysis, crisis management frameworks, Hazard Identification and Risk Assessment in Chemical Industries, Tools and methodologies for risk analysis (HAZOP, FMEA, etc.)

Chemical Security: Threat assessment for chemical misuse, emergency readiness strategies, personnel development, and situational response planning.

International Cooperation and Information Sharing

Global accords and conventions - Chemical Weapons Convention (CWC), Australia Group (AG), Wassenaar Arrangement (WA); International trade control norms - SCOMET, REACH; platforms for sharing safety and regulatory intelligence

Advances in Science and Technology

Green synthesis of Materials, green energy (hydrogen), Catalysis, environmental health and safety in chemical industries, Chemical Hazard identification and risk minimization.

Cybersecurity and Emerging Technologies

Potential cyber-physical threats to chemical plants, digital infrastructure, safeguarding, facility-level emergency data systems, integration of Artificial Intelligence for predictive risk analytics and operational resilience.

Surveillance, Accidents and Incidents

Tracking systems, incident detection, chemical-related accident reporting, surveillance methods, and investigative protocols.

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NACS LIFE MEMBERS	1000/-

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THE APPROXIMATE CHARGES FOR THE GUEST HOUSE IN PANJAB UNIVERSITY RS. 1200/- TO 1500/- AND FOR HOTELS IN CHANDIGARH RS. 3000/- TO 4000/-.

IMPORTANT DATES TO REMEMBER

Last date of abstract submission	5 th November, 2025
Last date for request for accommodation (limited) on first cum first serve basis	7 th November, 2025
Last date of acceptance of abstract	11 th November, 2025
Last date of submission of travel plan	12 th November, 2025
Last date of registration	14 th November, 2025

SCAN FOR REGISTRATION



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ABSTRACT FORMAT

Title (Times New Roman, 12 bold)

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Email: skrishna@_____

Abstract (Times New Roman, 12, Maximum 300 words)

Keywords (Times New Roman, 12, Maximum 5 keywords)

References (Times New Roman, 12, Maximum 10 references)

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PROMOTING SAFE AND SECURE CHEMICALS MANAGEMENT IN SME AND PROCESS INDUSTRY

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