



INTERNATIONAL CONFERENCE ON CHEMICAL SAFETY & SECURITY FOR HEALTH & ENVIRONMENT

8 - 10 December, 2023

📍 National Forensic Sciences University, Sector 9, Gandhinagar-382007



ORGANIZED BY

NACS - National Association for Chemical Security
National Forensic Sciences University, Gujarat

Gujarat University, Ahmedabad, Gujarat
University of Ladakh, UT-Ladakh

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ABOUT CONFERENCE

“Chemical safety and security” refer to the measures to prevent non-deliberate and deliberate release of certain toxic or hazardous chemicals. Every day, a wide variety of chemicals are produced, transported, used and/or stored (in small to very large quantities) in laboratories, industries, pharma/agriculture products, food processing sector, consumer products etc. Some of these chemicals need special safety and/or security measures because of their toxicity or due to their potential use as precursors for weapons of mass destruction. So any intentional/unintentional compromise by internal or external adversary in their safety and/or security will be detrimental to our health and environment. Practicing chemists and chemical safety/security professionals need to be aware of the dual-use properties of many commonly used chemicals, and operate their facilities in accordance to the best practices, safety standards and/or their relevant conventions, and promote a culture of high professional standards that includes chemical safety and security. This conference aims to promote chemical safety and security by providing tools and knowledge to mitigate the risks arising from chemical accidents, incidents and potential misuse of toxic and dual use chemicals, including the threat of terrorism and forensic approaches. The objective is to reiterate the need for the education and outreach in order to drive the focus of everyone towards the goal that chemicals are stored safely, securely and used for peaceful purposes throughout their lifecycle, preventing any harmful effects on health and environment. The conference also highlights the importance of using substituted chemicals or green chemistry for minimizing the use of hazardous or dual use chemicals in processes. The conference will include keynote speeches, presentations, panel discussions, and poster presentations to provide a comprehensive platform for experts, researchers, industry leaders, and policymakers to share their knowledge and experiences on chemical safety and security. Ultimately, the conference aims to promote international cooperation and collaboration towards achieving a safer and more sustainable future for all.

THE ORGANIZERS

NACS - National Association for Chemical Security

The National Association for Chemical Security (NACS) was founded in India in 2021 with the objective of promoting awareness of chemical safety and security in the industrial, scientific, and academic communities. The founder members of this association have been organizing Indo-US workshops on chemical security since 2016. In addition, NACS has been working on the development of curriculum for undergraduate and graduate students to increase awareness of chemical safety and security, who would be future generation of researchers, academics, and entrepreneurs.

NFSU - National Forensic Sciences University

The National Forensic Sciences University was established in 2009 by the Government of Gujarat to create professional experts in the field of forensic sciences. Since then, it has introduced unique courses based on the requirement of the country to solve societal issues. The university has reached many milestones and obtained UGC recognition and NAAC accreditation. It has been successful in training professionals from various countries and has established various centres of excellence on its campus. The Ministry of Home Affairs has already annexed the Delhi Centre with this university. The university aims to establish academic centres across the globe for the benefit of scientific investigative experts.

GUJARAT UNIVERSITY

Gujarat University was established in 1949 under the Gujarat University Act and is the largest university in the state, with over 235 affiliated colleges and 34 post-graduate departments. The university is responsible for post-graduate instruction and offers a coordinated plan of instruction to ensure effective teaching. External examinations in the faculties of Arts and Commerce were introduced to support working students and those who cannot afford university education. Despite the establishment of seven additional universities in the state, Gujarat University remains a premier institution, providing education to approximately two lakh students in a wide range of disciplines

UNIVERSITY OF LADAKH

The University of Ladakh, established in 2019, is trans-Himalayan University in India with headquarters at Leh. It has six constituent colleges and offers core and applied academic programs, as well as courses specific to the Himalayan and South/Central Asian regions. The university began its first academic program in 2020 and also offers Ph.D. programs in various disciplines. Its goal is to provide opportunities for students to excel in higher education and shape the future of society through educational, research, and social contributions. The university has MoU with prominent institutions/ universities of India to advance knowledge in different domains.

CONFERENCE TOPICS

Chemical Safety, Security and human health - General Perspectives

Culture, ethics, communication, classification of chemicals, exposure, human health in workplace, safety data, malicious use, education and outreach.

Sensors for Chemical Safety, Security, Human Health and Environment

Chemical sensors, nano sensors, optical sensors / optoelectronics, sensor systems, signal processing & interfaces, materials for chemical sensing, biomedical

Chemical Safety and Security Areas of Concern

Chemical Safety :
Chemical/pharmaceutical industries, laboratories, Agriculture and food sector, consumer or other products.

Chemical Security : *Dual-use chemicals and their applications, Control mechanisms.*

Chemical Safety and Security Transportation and Storage

Storage/inventory management, supply-chain management, regulations and compliance.

Surveillance, Accidents and Incidents

Chemical monitoring, surveillance, accidents, incidents, investigations.

Chemical Emergency Preparedness and Response

Chemical Safety : *Chemical safety risk assessment and management, emergency plan and management, community awareness, training, capacity building, on-site/off-site emergency response, mock drills and exercises.*

Chemical Security : *Chemical security vulnerability assessment, emergency plan and management, training, capacity building, on-site emergency response and mock drills.*

International Cooperation and Information Sharing

International regulations - Conventions and Treaties - CWC, AG, WA, Regulations for trade control - SCOMET regulations, REACH.

Cybersecurity and Emerging Technologies

Network and data security/ management, facility security and emergency management, artificial intelligence (AI).

Environmental, Social and Governance

Resources and management, hazardous waste treatment and management, chemical toxicity, environmental sustainability and development, pollution, climate change.

Advances in Science and Technology

Green Chemistry, chemical alternatives, analytical methods for the identification of toxic chemicals and their adducts or degradation products, chemical forensics.

NOTE: There will be a separate session for discussions on the importance of chemical safety and security and the development of educational programs to increase public awareness of the impact of chemicals on human health and the environment.

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Life Member (NACS)	Rs.1500/-
Online Participates	Fees
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Important Date to Remember:

Last Date for Submission of Abstract	20 th Nov. 2023
Last date of Notification of acceptance of abstracts	24 th Nov. 2023
Last Date for Submission of Travel Plan	27 th Nov. 2023

• Registration fees for the Conference once paid will not be refundable in any circumstances. • Registration is compulsory for participation /paper presentation. All authors of paper/poster presentations should register for the certificate. • Accommodation on Request and Chargeable • Only soft copy of certificate will be provided for online participation

Click for Registration:

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13th Nov. 2023

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For submission of abstract: contact.iccsshe2023@gmail.com

ADDRESS FOR CORRESPONDENCE

PROF. PRANAV SHRIVASTAV,
DEPARTMENT OF CHEMISTRY, SCHOOL OF SCIENCES, GUJARAT
UNIVERSITY, GUJARAT, AHMEDABAD -380009, INDIA.
<https://nacsindia.in> | nachemsec@gmail.com

CONTACT US
+91-9327013263