

WEDNESDAY – August 26

McCormick Place Convention Center

(CHAS) General Papers in Chemical Health and Safety

Location: **N226 (McCormick Place Convention Center)**

President: *Debbie Decker*

- 4:00 Introductory Remarks
- 4:20 It's just community college, right?: Strategies to empower/influence educators to implement lab safety/safety culture in the 2 - year institution **D. Henry**
- 4:45 Research safety student initiative at Northwestern University: assessing and enhancing safety culture through student-led initiatives in an academic research environment **H. Wellman**
- 5:10 Annual lab safety inspections in multidisciplinary environments: An opportunity for engagement and communication **C. Martinez Jimenez**
- 5:35 AI-enabled autonomous risk management framework: Integrating HAZOP-LOPA and reconstruction-based deep learning **M. Kim**

NOT TO BE MISSED!!!

Sci-Mix

Monday, August 24

8:00 – 10:00 PM

McCormick Place Convention Center

Hall F2

- Vertical distribution and mobility of PFAS in vadose zone soils at an AFFF-impacted site **Y. Zhao**
- Trends in accumulation of organic peroxides in peroxide forming chemicals: An analysis of the effect of storage conditions on peroxide concentrations observed in university research laboratories **K. Woolard**
- Nebulized calcium therapy for respiratory fluoride exposure **S. Hess**
- GraphRAG-powered chatbot for chemical hazard assessment and safer alternatives identification **Y.J. Tseng**
- Rapid retrieval and search for safer chemical alternatives in industry **P. Du**
- NeuSolv: a rapid, safe, and effective nucleophile-based decontaminant for chemical warfare agents **M. Akter**
- Quantitative risk assessment and standardised handling protocols for air- and moisture-sensitive organometallic reagents in academic laboratories **P. Dutta**
- Development of the guided risk evaluation and environmental navigation (Greenn) system: a computational approach for greener chemical evaluation and visualization **Y. Hsu**

NOT TO BE MISSED!!!

Committee on Chemical Safety Executive Committee Meeting

Sunday, August 23

8:30 AM – 12:30 PM

Marriott Marquis Chicago - Grand Horizon A

Division of Chemical Health and Safety (CHAS) Open Meeting

Monday, August 24

12:30 PM – 2:00 PM

**Skyline Ballroom W365c
(3rd floor, West Building)**

Celebrating 150 Years of ACS: Shaping Safer Science for All Networking Luncheon

Monday, August 24

12:00 PM – 2:00 PM

W190a

Sci-Mix

Visit the
Division of Chemical Health and Safety on
Division Row
and the
Committee on Chemical Safety on
Committee Row

ACS Division of Chemical Health and Safety



Please join us for our Technical Programming and Workshops for the 2026 ACS Spring Meeting. We have listed for your consideration CHAS and CANN workshops, symposia, and co-sponsored symposia. This outstanding set of talks will help you be successful and work safely.

Vision Statement

Protecting people and the planet through excellence in chemical health and safety

Mission Statement

Foster a collaborative global community that promotes best practices in chemical health and safety

About Us

DCHAS is a technical division of the ACS. The division has more than 1500 members and actively partners with other ACS, technical divisions, committees and other organizations outside the ACS. DCHAS is the parent division of the ACS Cannabis Subdivision.

All in-person technical sessions are located in **McCormick Place Convention Center** unless specified. All times are **Central Daylight Time**.



MONDAY – August 24

McCormick Place Convention Center

(CHAS/COMSCI) Celebrating 150 Years of ACS: Shaping Safer Science for All

Location: W190b

Presider: Debbie Decker, Marta Gmurczyk

8:00 Introductory Remarks

8:05 The Power of We **M. Gmurczyk** | **L. McEwen** | **E. Bolton** | **P. Dorhout** | **M. Hensley** | **R. Hill**

8:40 Professional Growth Through the ACS Chemical Safety Experience **A. Chung** | **S. Keyser** | **D. Jacques** | **D. Henry** | **W. Tallmadge**

9:05 Panel Discussion: ACS EICs on Safety **M B Mulcahy** | **M. Kozlowski** | **S. Minter** | **C. Bertozzi** | **S. Dehnen** | **E. Carreira**

9:50 Coffee Break

10:00 From tragedy to transformation: How a 1966 explosion shaped chemical safety at Dow **P. Martinelango**

10:20 From Bhopal to the AI Era: Enduring Technical and Organizational Lessons in Process Safety **Q. Wang**

10:40 The 2008 UCLA laboratory accident: What happened, what changed, and what still needs to be done **C. Merlic**

11:00 Phillips Petroleum Company Explosion, 1989 **R. Heald**

11:20 Ted Style Talk - Mary Beth Mulcahy **M. B. Mulcahy**

11:40 From Data to Decisions: Reimagining Chemical Safety Information for Global Risk Reduction **P. Reinhardt**

(CHAS) Artificial Intelligence and Safety Education and Training: How AI Can Enhance and Inform a Safer Workplace for All

Location: N226

Presider: Frankie Wood-Black
2:00 Welcoming Remarks

2:05 AI-integrated safety training and interactive laboratory education **S. Kim**

2:30 Lessons learned: Implementing AI-driven safety training in the organic chemistry laboratory **H. Weizman**

2:55 North Carolina State University's AI tool for chemical procurement tracking **O. Christian**

3:20 AI-enhanced professional: Navigating safety, ethics, and innovation in technical workplaces **F. Wood-Black**

3:45 Panel Discussion

MONDAY – August 24

McCormick Place Convention Center

(CHAS) Best Practices Handling High Hazard Reagents

Location: N226

Presider: Debbie Decker, Sandra Keyser

4:15 Introductory Remarks

4:20 Tip of the iceberg: Recognizing and managing high hazard reaction chemistry **P. Martinelango**

4:45 Safety protocols for handling toxic and reactive chemicals in laboratories **T. Chandra**

5:10 Avoiding the next fire: Lessons learned from incidents with high hazard reagents **C. Merlic**

TUESDAY – August 25

ORAL – DIGITAL SYMPOSIUM

(CHAS) From Laboratory Bench to Community: Connecting Bench-Scale Safety Culture with Broader Environmental Health Outcomes

Location: Virtual

Presiders: Herbert Che Mughe, Pedro Flores Gallardo, and Oluwanifesimi Afolabi

10:00 Introductory Remarks

10:05 Community health worker framework for implementing the hierarchy of controls in underserved workplaces and fenceline communities **P. Flores Gallardo**

10:25 Unequal burden of artificial intelligence: Environmental and health costs of energy-intensive **AI I. Mithu**

10:45 Human connection as pathway to safety culture **M. Guron**

11:05 From industry to bench: Implementing process safety management in laboratories **J. Taveau**

11:25 Recent advancements in testing devices and methodology of laboratory fume hood performance evaluation **K. Chen**

11:45 Fireside Chat

TUESDAY – August 25

McCormick Place Convention Center

(CHAS) From Laboratory Bench to Community: Connecting Bench-Scale Safety Culture with Broader Environmental Health Outcomes

Location: N226

Presiders: Herbert Che Mughe, Pedro Flores Gallardo, and Oluwanifesimi Afolabi

2:00 Introductory Remarks

2:05 Chemical safety from bench to boundary considering who counts and what's missing **L. Royer**

2:25 From challenges to control: leveraging chemical data to develop effective, user-friendly SOPs **C. Karki**

2:45 Use of dynamic learning and Human and Organizational Performance (HOP) tools to improve safety culture and better environmental and safety outcomes **J. Pickel**

3:05 Risk-risk trade-offs in applied microbial research: Balancing disinfection efficacy and community environmental health through scenario-based evidence **R. Saha**

3:25 Prevention-based approach to occupational safety in biologic parenteral development **A. Harley**

3:45 Intermission

4:00 Overview of environmental & process safety engineering in the pharmaceutical industry **A. Dunn**

4:20 It's just community college, right?: How to improve community relations through lab safety and positive environmental responsibility **D. Henry**

4:40 Need for a new federal approach for responding to chemical exposure caused by area-wide contamination **S. Lester**

5:00 Unpleasant surprises: Mitigating unexpected releases for safety & environmental quality **J. Melton**

5:20 Hazards of scaling up chemical processes: Three CSB case studies **M. Wingard**

5:40 Open Discussions

