

WORKSHOPS

(see <http://www.dchas.org> for registration information)

All workshops are at the Boston Convention Center

Fri. Aug. 17, 2018 - 8:30AM - 5:00PM

- **Laboratory Safety - Beyond the Fundamentals**
Conv Ctr Rm. 204A
- **Laboratory Waste Management**
Conv Ctr Rm. 203

Sat. Aug. 18, 2018 - 8:30AM - 5:00PM

- **Reactive Chemical Management for Laboratories and Pilot Plants**
Conv Ctr Rm. 203
- **How to be a More Effective Chemical Hygiene Officer**
Conv Ctr Rm. 204A
- **Health and Safety Training for Cannabis Businesses**
Conv Ctr Rm. 204B

Sun. Aug. 19, 2018 - 3:00PM - 6:00PM

- **Developing Graduate Student Leadership Skills in Laboratory Safety**
Westin Waterfront – Marina Ballroom III

Coffee is available at 8:00 AM,
One hour (no host) lunch break.

Committee on Chemical Safety

preceded by breakfast

Date: Monday Aug. 20, 2018

Time: 7:30 to 10:00

Location: Ballroom B,
Seaport Boston Hotel

CHAS Executive Committee Meeting

Date: Monday Aug. 20, 2018

Time: 10:00 to 12:00

Location: Ballroom B,
Seaport Boston Hotel

Social Hour

*an Industry Member Programs
networking event*

Monday Evening, Aug 20, 2018

6:30 PM - 8:00 PM

Sheraton Boston Hotel, Back Bay B Room



Sheraton

39 Dalton Street

Hosted by CHAS & SCHB

Monday, Sci-Mix

Organizer: D. Decker, J. Pickel

8:00 - 10:00

- Programmatic method for classifying chemicals according to California fire code. *K.N. Lamb, R.N. Vernon*
- Chemical Safety for Laboratory Animal Handlers. *C.R. Brennan*
- The development of a high pressure hydrogen gas generator as a replacement for hydrogen cylinders in the chemistry laboratory. *R.V. Jones, F. Darvas*
- Division of Chemical Health and Safety information poster. *J.M. Pickel*



ACS

Chemistry for Life™

256th ACS National Meeting & Exposition

Boston, MA

August 19-23, 2018

CH&S

CONNECTING CHEMISTRY
AND SAFETY

DIVISION OF CHEMICAL HEALTH AND SAFETY

Debbie Decker,
& Joseph Pickel
Program Chairs

Please plan on attending the Division of Chemical Health and Safety's Technical Program and Workshops in Boston, MA, August 2018. We have listed for your consideration our workshops and technical programming. We believe we have put together the best technical program to help you be successful and work safely in your laboratory.

DIVISION OF CHEMICAL HEALTH AND SAFETY

About US

DCHAS is a technical division of the American Chemical Society. We have about 1700 members and very active in partnering with other technical divisions and committees of the ACS, as well as sister organizations outside the ACS. We are also the parent division of the ACS Cannabis Subdivision.

Vision Statement

Improving people's lives through the power of best chemical health and safety practices

Mission Statement

The ACS Division of Chemical Health and Safety provides authoritative technical resources and mentorship in chemical health and safety for all.



**On Campus Or On Site,
SafetyStratus is Your Complete,
Cloud-Based Safety Solution**

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Sunday Sessions

Convention Center, Room 103

Moving ACS's Safety Goals Forward

Sponsored by PRES

Cosponsored by CHAS

Organizer: P. Dorhout

8:30: Introductory Remarks.

8:40: Safety in the Context of the ACS Strategic Plan.

R. Stuart

9:10: Chemical Safety Information Opportunities.

C. Nitsche

9:45: Intermission

9:55: Communicating Chemical Safety. *K. Jeskie*

10:25: Empowering ACS Members to Be Safety Leaders.

K. Serrano

10:55: Industrial perspective- CA direction...

D. Mason, D. Schmidt

11:25: Concluding Remarks.

Break

1:30: Introductory Remarks.

1:35: Partnering to strengthen safety. *J. Maclachlan*

2:05: Developing an Education Path for all Chemists.

D. Finster

2:35: Intermission

2:50: Building a Chemical Safety Ecosystem. *L. McEwen*

3:20: Strategic connections between Chemical Safety and Green Chemistry. *J. Wissinger*

3:50: Panel Session

4:20: Concluding Remarks

Ask Dr. Safety About Safety Considerations in the Cannabis Industry

Seaport Boston Hotel - Ballroom A

Cosponsored by CCS

Organizer & Presiding: H. J. Elston, N. R. Langerman

3:30: Opening Remarks.

3:35: Cannabis Chemistry Subdivision - Promoting Public Safety Through Sensible Science. *A. Pham*

4:00: Anecdotal Cannabis: Stories from the Road. *L. Pelger*

4:25: Ask Dr. Safety: Chemical and occupational safety in the cannabis industry. *H.J. Elston, N.R. Langerman*

4:50: Closing Remarks.

Monday Sessions

Seaport Boston Hotel - Ballroom A

Chemical Health and Safety of Cannabis: Guiding Public Policy Through Better Science

Cosponsored by AGFD

Organizer: N. Arora, B. J. Greene, J. Marcu, J. Payack, E. M. Pryor

Presiding: E. M. Pryor, B. Greene, A. Pham

8:00: Introductory Remarks.

8:05: Complicating What is Simple vs. Simplifying What is Complex: The Two Camps in Cannabis Safety. *M. Lewis*

8:30: Bridging the Cannabis Safety Gap: The need for an Institute on Cannabis for Mental Health and Well-Being.

J. Roberts, J. Marcu, M. Wolfe

8:55: Cannabis Extraction and Laboratory Safety. *J. Marcu, E.M. Pryor*

9:20: The role of laboratories in ensuring safe and effective cannabis for consumers. *J. Churchill, E.M. Pryor*

9:45: Heavy Metal Contaminants in Cannabis: Regulation to Remediation. *C.J. Hudalla*

10:10: Intermission.

10:20: Alternatives to Address Cannabis Intoxication in the Workplace and Clinical Trials. *J. Marcu, R.W. Phifer*

10:45: Testing Cannabis in Massachusetts: Effects of Sampling and Testing Methodology on a Budding Industry. *B. Cassidy, E.M. Pryor*

11:10: Cannabis: The EXIT Drug. *U. Dhanabalan, E.M. Pryor*

11:35: Further evidence of the utility of Cannabis as a substitute for opioids in pain management. *E.M. Pryor*

Nanomaterials:

Applications, Safety Considerations, & Implications for Human Health & the Environment

Cosponsored by CCS and I&EC

Organizer: J Pickel

Presiding: D. Decker, J Pickel

1:00: Introductory Remarks.

1:05: Role of the National Nanotechnology Initiative in the Safe and Responsible Development of Nanotechnology.

M.A. Meador

1:30: Nanotechnology: Where is it Today and is EHS a Part of Successful Commercialization. *C.L. Geraci*

1:55: Back from the future: What nanotechnology can teach us about chemical safety today. *K.M. Kulinowski*

CHAS Awards Symposium

Cosponsored by CCS

Organizer: D. B. Walters

2:30: Introductory Remarks.

2:35: Looking forward: Fifty years experience in chemical safety. *N.R. Langerman*

3:00: Zooming out: The future of chemical-research health and safety through a wide-angle lens. *K.J. Brown*

3:25: Innovation transforming lives through the power of clean water. *D.G. Schmidt*

3:50: Yale's Safety Advisor Model for Supporting and Integrating Safety into Research. *P.A. Reinhardt*

4:15: Fostering a culture of safety at the University of North Carolina at Chapel Hill. *C.R. Brennan, N.A. Eskew*

4:40: Dow Lab Safety Academy: Lessons Learned & Future Opportunities. *L. Seiler*

Tuesday Sessions

Seaport Boston Hotel - Ballroom A

Learning Laboratory Safety through Storytelling

Cosponsored by CCS

Organizer: R. Stuart

Organizer & Presiding: S. B. Sigmann

9:00: Introductory Remarks.

9:05: Enhancing the Culture of Safety through Good Storytelling. *M.B. Koza*

9:30: How personal stories can support safety training. *D.M. Decker*

9:55: What's the point of your story? *K.P. Fivizzani*

10:20: Intermission.

10:35: Urban legends, fairytales and documentaries: Effective storytelling for safety education. *H. Weizman*

11:00: Playing with Fire. *S.B. Sigmann*

11:25: An unknowing, unthinking, uncaring graduate student learns a lesson about safety. *R.H. Hill*

Learning Laboratory Safety through Storytelling

Cosponsored by CCS

Organizer: S. B. Sigmann

Organizer & Presiding: R. Stuart

1:30: Introductory Remarks.

1:35: The genres of scientific storytelling. *R. Stuart*

2:00: Turning safety observations into messages. *T.C. Gallagher, R. Brian, R. Stuart*

2:25: From Storytelling to Storymaking. *R.M. Izzo*

2:50: Preserving Institutional History of Chemical Incidents. *P.A. Reinhardt*

3:15: Intermission.

3:30: Using Risk Management Techniques to Improve Situational Awareness and Accident Reduction. *R. Lippman*

3:55: Chemical safety information in PubChem. *J. Zhang, P. Thiessen, A. Gindulyte, E. Bolton*

4:20: Using the chemical inventory system to create research articles that include safety information. *R.N. Vernon, K.N. Lamb*

Wednesday Sessions

Seaport Boston Hotel - Ballroom A

Modern Innovations in Cannabis Science, Research and Technology

Cosponsored by AGFD

Organizers: N. Arora, B. J. Greene, J. Marcu, J. Payack, E. M. Pryor

Presiding: K. Boyar, B. Greene, A. Pham

8:00: Introductory Remarks.

8:05: The Role of Innovative Technologies in Protecting Cannabis Consumer Safety. *J. Appen, J. Siegel*

8:30: Latest Advances in Cannabis Production Processes. *M. Roggen*

8:55: From cannabinoids and terpenes to medicine and open data. *N. Arora*

9:20: Exploring Innovations in Third Party Support of Regulatory Compliance and Chemical Safety in Cannabis Laboratories. *E.M. Pryor, J. Marcu, A. Martinez*

9:45: Intermission.

10:00: Extraction and Purification of Research-Grade Cannabinoids with Supercritical CO₂. *N. Mortillaro*

10:25: The DRUID App to Measure Drug-Induced Impairment. *M. Milburn, E.M. Pryor*

10:50: Medical Cannabis Pharmacogenomics. *T. Parr, J. Marcu*

11:15: New Perspectives on Cannabis and the Endocannabinoids. *A. Makriyannis, E.M. Pryor*

11:50: Concluding Remarks.

Chemistry of Cannabis: The Domain Beyond THC

Cosponsored by AGFD

Organizer: N. Arora, B. J. Greene, J. Marcu, J. Payack, E. M. Pryor

Presiding: J. Bramante, B. Greene, A. Pham

1:30: Introductory Remarks.

1:35: THC and its metabolites in blood: Public safety, regulatory, and scientific challenges in the context of cannabis DUI. *A. Pham*

1:35: Innovations in Cannabis Potency Testing for the Non-Expert. *J. Payack, M. Diaz, E.M. Pryor*

2:05: Terpene Chemistry and Thermal Byproducts. *R.M. Strongin, J. Meehan-Atrash*

2:35: Intermission.

2:50: Terpene Therapy. *R.D. Zaklin*

3:20: Analytical SFC applications for the Cannabis Industry. *J.P. Preston, S. Sadjadi*

3:50: Functionally High: Innovations in the Pharmacological Foundations of Cannabis Chemovars. *E.B. Russo, M. Lewis, K. Smith*

4:20: Concluding Remarks.