

Sunday Sessions

Park Central Hotel, Olympic Room

Best Practices in Selecting & Presenting Safety Training Content-Oral

Cosponsored by CCS

Organizers: D.M. Decker, F.K. Wood-Black

1:30: Introductory Remarks.

1:35: Connecting safety culture to the educational mission. *R. Stuart*

1:55: Preliminary results of the chemical safety information and education survey. *E. Sweet*

2:15: Building safety culture through targeted training. *M.R. Wilhelm*

2:35: Flipped classroom techniques in safety training. *R.M. Izzo*

2:55: Relevant content, positive attitude, and memorable presentation. *K.P. Fivizzani*

3:15: Closing Remarks.

Ask Dr. Safety: Chemical & Occupational Safety in the Cannabis Industry-Oral

Cosponsored by CCS

Organizers: H.J. Elston, N.R. Langerman

3:35: Introductory Remarks.

3:40: Sensible approach to workplace drug testing for cannabis. *J. Marcu, R.W. Phifer, E.M. Pryor*

4:00: Ask Dr. Safety: Chemical & occupational safety in the cannabis industry. *N.R. Langerman, H.J. Elston*

WORKSHOPS

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

All workshops are at the
Moscone Center from 8:30AM-4:00PM

Fri. March 31st

- **Laboratory Safety Workshop**
Moscone 121

Sat. April 1st

- **How to be a More Effective Chemical Hygiene Officer**
Moscone 121
- **Reactive Chemical Management**
Moscone 125

CHAS Member: \$325.00/early registration \$250

Non-CHAS Member: \$375.00/early registration \$300

Coffee is available at 8:00 AM

One hour (no host) lunch break.

Committee on Chemical Safety

Date: Monday April 3rd

Time: 7:00 AM - 11:30 AM

Location: Hilton SF Union, Continental Ballroom 6

Executive Committee Breakfast

Date: Sunday April 2

Time: 8:00 to 12:00

Location: Park Central Hotel, Franciscan I

Social Hour

Monday Evening, April 3, 2017

6:00 PM - 8:00 PM

Jillian's at Metreon



175 Fourth St., Corner of 4th and Howard

Hosted by CHAS & CHAL

Monday, Sci-Mix

Moscone Center, Hall D

Sponsored by CELL, Cosponsored by AGFD, ANYL, CHAS and I&EC

Organizer: J. Pickel

8:00 - 10:00

- Perception of risk in a quantitative analytical teaching laboratory. *S. Haxton, S.D. Wiediger*
- Absence of safety education in chemistry curriculum, and Normalization of Deviance. *R.H. Hill*
- Revisiting and revising The Safety Ethic. *R.H. Hill*
- Assessing risk for undergraduate research and demonstrations. *R. Stuart, S.B. Sigmann*
- Division of Chemical Health and Safety information poster. *J.M. Pickel*
- Cannabis analysis: A complex job under complex circumstances. *M.J. Wilcox, J. Marcu*
- Implementing sustainable practices in hands-off academic research labs. *K.A. Miller*
- Safety as a core value of a student chapter. *C. Wilhelm*
- Improving the Safety Culture of the University of California, Irvine Through a Graduate Safety Fellowship. *T. Endean*
- Assessing secondhand marijuana smoke using biological markers. *B. Wei, L. Wang*



ACS

Chemistry for Life™

253th ACS National Meeting & Exposition

San Francisco, CA

April 2-6, 2017



DIVISION OF CHEMICAL HEALTH AND SAFETY

Debbie Decker,
Frankie Wood-Black,
& Joseph Pickel
Program Chairs

Please plan on attending the Division of Chemical Health and Safety's Technical Program and Workshops in San Francisco, April 2017. 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.

Monday Sessions

Park Central Hotel, Olympic Room

Cannabis: Emerging Challenges in Regulations, Product Analysis & Processing-Oral

Cosponsored by AGFD, CCS, CHAL, & SCHB

Organizer & Presiding: J. Marcu, E.M. Pryor

9:00: Introductory Remarks.

9:05: Cannabis analysis: An overview of testing requirements and challenges in a rapidly emerging industry. *M.J. Wilcox, J. Marcu*

9:25: Quality control analysis of contaminants in the medical cannabis market in California: Pesticide, plant growth regulators, residual solvents, and microbiological contaminants in cannabis, cannabis extracts, and cannabis infused products. *J. Wurzer*

9:45: States as cannabis laboratories: The far-reaching implications of federal non-recognition in the regulation of marijuana contaminants. *J. Angermann, J. Strull*

10:05: Intermission.

10:20: Assessing regulatory compliance at medical cannabis operations in the United States for patient focused certification. *J. Marcu, K. Nevedal, S. Sherer*

10:40: Challenges cannabis laboratories face in product analysis representative samples. *D. Chen*

11:00: Hemp as a nutritional supplement: Ensuring potency, safety, and regulatory compliance in manufacturing cannabis-derived health products. *A. Pham*

11:20: Concluding Remarks.

Luncheon by Waters Corporation

12:00 PM - 1:30 PM

@ Park Central, Concordia Room

1:30: Introductory Remarks.

1:35: Residual solvent contaminants in cannabis concentrates. *J.T. Fishedick, D. Egerton*

1:55: Cannabis grow facilities: Identification and handling of hazardous wastes, a problem for Environmental Health Departments. *D. Keenan, M. Duazo*

2:15: Thermal decomposition of THC on preparation of a distilled hash oil: A case study. *D. Lane*

2:35: Intermission.

2:50: THCA and CBDA: More than simply inactive precursors. *G. Moreno*

3:10: Emerging challenges in cannabis regulations. *R. Mirkarimi*

3:30: CANN History: The first year as a subdivision at the ACS. *E.M. Pryor, J. Marcu, M.J. Wilcox, E.L. Oltermann, A. Pham*

3:50: Panel Discussion.

Tuesday Sessions

Park Central Hotel, Olympic Room

Information Flow in Environmental Health & Safety-Oral

Cosponsored by CCS and CINF

Organizer: R. Stuart

9:00: Introductory Remarks.

9:10: Chemical safety requires a system, not a solution. *R. Stuart*

9:35: Chemical information necessary to establish laboratory ventilation control bands. *E. Sweet*

10:00: Reaction safety information: Engaging the community in collecting and sharing of safety learnings. *C. Nitsche, G. Whittick, M. Manfredi*

10:25: Intermission.

10:35: Chemical management applications for the University of California. *P. Painter, C. Carcamo*

11:00: Comparing GHS hazard statements between different sources. *B.S. Clark, B. Murphy, P.D. Tran, D. Berleant, R. Stuart, R.E. Belford*

11:25: Talking chemical safety: Terminologies and keywords in various information sources. *L. McEwen*

11:50: Panel Discussion.

Break

1:30: Introductory Remarks.

1:35: Consult the SDS. *S. Sigmann*

2:00: Graduate student perspective on the ACS online tool Hazard Assessment in Research Laboratories. *K. Leahy*

2:25: Unique one-stop access to a multitude of chemical safety resources. *A. Lederman*

2:50: Intermission.

3:05: EPA CompTox chemistry dashboard: An online resource for environmental chemists. *A.J. Williams, C. Grulke, J. Smith, K. Mansouri, A. McEachran, K. Dionisio, K. Phillips, G. Patlewicz, J. Fitzpatrick, T. Martin, A. Richard, J. Edwards*

3:30: Exposure driven risk assessment of nanoparticles: Towards a re-equilibration of the traditional risk = hazard x exposure equation. *A. Mason, C. de Garidel-Thoron, S. Pekar, M. Auffan, J. Rose, M. van Tongeren, P.K. Westerhoff*

3:55: Assessing the activity and toxicity profile of small-molecules using freely accessible software and data: The contributions of chemical ontologies, metabolism prediction, and spectra prediction. *Y. Djoumbou Feunang*

Wednesday Sessions

Park Central Hotel, Olympic Room

What Have We Learned & Where Are We Going: Post-Settlement in the University of California-Oral

Cosponsored by CCS

Organizers: D. Decker, J. Palmer

9:00: Introductory Remarks.

9:05: Moving from compliance to safety in UC laboratories. *C.A. Merlic*

9:30: 2700 Miles and a big step forward: The UC settlement and Princeton University. *R.M. Izzo*

9:55: Beyond compliance: Building safety culture at UCLA. *C. Dimock, S. Hsieh*

10:20: Intermission.

10:35: Moving on after the settlement - the approach of a small University of California campus. *K. Smith*

11:00: Continuous improvement opportunities in the UC system post-settlement agreement. *C.A. Jakober, D.M. Decker*

11:25: Concluding Remarks.

Break

1:30: Introductory Remarks.

1:35: Establishing a student-enforced safety culture in academic research labs. *K.A. Miller*

2:00: Successfully implementing a positive safety culture in an R1 research laboratory as a graduate safety officer. *B. Armstrong, A.K. Franz*

2:25: Heavy lifting of compliance: A graduate student perspective. *A. Manlove, B. Anderson, N. Nunez*

2:50: Intermission.

3:05: UC-Davis: SOP task force committee. *P.N. Serrano*

3:30: Continuing to promote careful chemistry in the post-settlement era. *J.G. Palmer, L.S. Wong*

3:55: Concluding Remarks.

Other Events

**Presidential symposium and companion poster session:
Building a Safety Culture Across the Chemical Enterprise**

**Save the date
Fall National Meeting in**

