

Sunday Sessions

Ask Dr. Safety: Integrating Research & Safety
Hilton New Orleans Riverside, Grand Salon D Sec 21

Cosponsored by CCS

Organizers, Presiding: N. R. Langerman

1:30: Opening Remarks.

1:35: The psychology of developing a positive chemical safety culture in academic research labs. *K.A. Serrano*

2:00: Survey of chemist exposure to VOCs from solvent cabinets. *A.E. Norton, W.B. Connick, K. Brown*

2:25: Study of safer storage and handling of graphene oxide.

P. Lakhe, D. Kulhanek, W. Sun, B. Zhang, M.J. Green, S. Mannan

2:50: Effectiveness of laser safety eyewear under real-world conditions. *C.J. Stromberg, E.J. Heilweil, J.A. Hadler*

3:15: Safety at the bench: Promoting positive safety culture in academic laboratories. *C.N. Situma*

3:40: Ask Dr. Safety: Integrating research and safety. *N.R. Langerman, H.J. Elston*

3:55: Closing Remarks.

WORKSHOPS

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

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

Fri. March 16th

- **Laboratory Waste**
New Levee
- **Laboratory Safety**
Fulton

Sat. March 17th

- **Chemical Hygiene Officer**
New Levee
- **Reactives Chemical Management**
Fulton

Sun. March 18th

- **Grad Student Workshop**
Hilton Garden Inn Magnolia Room
3:00PM

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

Executive Committee Breakfast

Date: Sunday March. 18, 2018

Time: 8:30 to 12:00

Location: Hilton Riverside,
Grand Ballroom A

Committee Meeting on Chemical Safety

Date: Monday, March 19

Time: 7:00 to 8:30AM

Location: Hilton Riverside,
Grand Ballroom B

Monday, Sci-Mix

Ernest N. Morial Convention Center,
Halls D/E

Organizer: J.M Pickel

8:00 - 10:00

- Division of Chemical Health and Safety information poster. *J.M. Pickel*
- Rapid chemical risk assessments for research labs. *D.J. Leggett*
- Femtosecond laser eyewear protection: Measurements and precautions. *M. Riedel-Topper, S. Wirick, J.A. Hadler, E.J. Heilweil, C.J. Stromberg*
- Workshop for high school chemistry teachers on case studies of K-12 lab accidents and safety resources. *C. Lilly*
- A flexible web-interface for integrating multiple data streams in support of risk prioritization of environmental chemicals. *R. Judson, A.J. Williams, C. Grulke, R. Thomas*
- Evaluation of cannabinoid and terpene interference in HPLC-UV cannabis potency testing. *A. Rigdon, C. Sweeney, C. King, B. Cassidy, J. Kowalski, F.L. Dorman*
- Health risk of oral and inhalation exposure to toxic chemicals. *A. Fontenot, H. Hwang*



ACS
Chemistry for Life™

255th ACS National Meeting & Exposition

New Orleans, LA
March 17-22, 2018



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 New Orleans, March 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.

Monday Sessions

Women in Cannabis: Shaping an Emerging Industry
Hilton New Orleans Riverside, Grand Salon D Sec 21

Cosponsored by SCHB & WCC, Financially supported by CANN
Organizer & Presiding: M.J. Wilcox

8:30: Introductory Remarks.

8:35: Moving an industry forward: How women are shaping the future of cannabis. *M.J. Wilcox*

9:00: Evolution of the cannabis industry: an outside view from the inside. *A. Rigdon*

9:25: Movement toward consensus analytical test methods and standards for the cannabis community to ensure consistent product characterization. *S.A. Audino*

9:50: Guidelines and state requirements for medical cannabis product quality and safety. *L. Dodson*

10:15: Intermission.

10:30: Cleaning up cannabinoids and chlorophyll: Optimization of sample preparation for pesticide analysis in cannabis flower. *J. Kowalski, D. Laine, S. Minier, C. Johnson*

10:55: Sex differences in clinical pharmacology and gender differences in society: How to give an emerging industry a head start. *L. Klumpers*

11:20: Roadblocks, guardrails & opportunities. *T. Wahl*

11:45: Transitioning from academia to cannabis: Why chemists and their influence are important contributors to a growing industry. *A.R. Wise*

12:10: Panel Discussion.

12:30: Concluding Remarks.

Implementing ACS Safety Education Guidelines

Hilton New Orleans Riverside, Grand Salon D Sec 21

Cosponsored by CCS & CHED, Financially supported by AACT
Organizer: E.M. Howson

Presiding: S.B. Sigmann

1:30: Introductory Remarks.

1:35: The ACS safety culture journey: What next?

M.U. Gmurczyk, M.M. Kirchhoff

2:05: Building the safety learning spiral. *R. Stuart, S.B. Sigmann*

2:25: One slice at a time: Do what you can whenever you can. *K.P. Fivizzani*

2:45: Developing a culture of safety in chemistry and biochemistry at Texas Woman's University. *R.D. Sheardy*

3:05: Intermission.

3:25: Importance of laboratory safety in chemistry curriculum. *K. Jefferson*

3:45: Impact of implementing the RAMP concept for chemical safety training in undergraduate teaching. *O. Oluwaniyi*

4:05: RAMPing up the organic chemistry lab at a PUI: Developing a culture of safety and success. *R.S. Majerle, M. Gorina*

4:45: Concluding Remarks.

Tuesday Sessions

Water Supply Safety

Hilton New Orleans Riverside, Grand Salon D Sec. 21

Cosponsored by CCS, CTA & ENVR

Organizer & Presiding: M. R. Wilhelm

9:00: Introductory Remarks.

9:05: Waukesha water: Bridging the divide. *D. Duchniak, J. Piatt*

9:30: Laboratory safety is impacted by changes in water quality. *C. Wilhelm*

9:55: Iron as an indicator of water system corrosion and compromised disinfection: Argument for regulating iron and small system corrosion control. *A. Katner, K. Pieper, M. Edwards*

10:20: Lessons learned from the Elk and Dan River disasters: Enhancing science support for water resource protection and crisis communication in spill-incident response.

W.A. Alexander

10:45: Computational chemistry support for water resource protection: Developing rapid and accurate computational methods to predict physical properties for environmental fate and toxicity modelling. *K. Charbonnet, N.J. Deyonker, W.A. Alexander*

11:10: Panel Discussion.

11:25: Concluding Remarks.

**Formulation of Cannabis Products:
More than just THC & CBD**

Hilton New Orleans Riverside, Grand Salon D Sec 21

Cosponsored by

Financially supported by CANN

Organizer & Presiding: M. Roggen

1:30: Introductory Remarks.

1:35: At-line to on-line cannabis extraction and isolation.

J. MacKay

2:05: Analytical procedures and specifications for a Cannabis based prescription drug. *P. Gibson, A. Sutton, A. Silcock*

2:35: Controlling terpenes and cannabinoids in flower and extract. *M. Roggen*

3:05: Panel Discussion.

3:25: Intermission.

3:45: Does 1+1=3? What science really knows about cannabinoid and terpene effects in humans. *L. Klumpers, K. Franson*

4:15: In search of efficacy: A self-reported patient study identifying effective THC:CBD ratios for sleep, pain and arousal based on dose-controlled delivery of vaporized cannabis oil. *S.J. Miller*

4:45: Potential health risks of cannabis extracts. *T. Lewandowski, J. Rice*

5:15: Panel Discussion.

5:25: Concluding Remarks.

Wednesday Sessions

**Heidolph North America's Cannabis Chemistry
Subdivision Scholarship Symposium**

Hilton New Orleans Riverside, Grand Salon D Sec. 21

Cosponsored by AGFD, CHAL & SCHB

Financially supported by CANN

Organizers: E.M. Pryor

Presiding: E.M. Pryor, A. Pham

9:00: Introductory Remarks.

9:05: Shaping the bright future of the cannabis industry: Because we can. *L. Klumpers, D.L. Thacker, K. Franson*

9:40: The identification of Δ -8 tetrahydrocannabinolic acid (Δ -8-THCA) by NMR and LCMS techniques. *M. Scialdone, C. Barone, C. Rithner, K. Denef, C. Boot*

10:15: Chemistry of Canadian medical cannabis. *M.M. Lewis, Y.W. Yang, E. Wasilewski, H. Clarke, L.P. Kotra*

11:25: Panel Discussion.

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Financially supported by CANN

Organizers: E.M. Pryor

Presiding: E.M. Pryor, A. Pham

1:30: Introductory Remarks.

1:45: Analysis of regulatory improvements and setbacks for medical cannabis programs and product safety standards. *J. Marcu, S. Sherer*

2:20: Adventures in the Cannabis field: Surprises and discoveries with natural and synthetic cannabinoids. *M.A. Schafroth, R. Sarott, E. Carreira*

2:55: THC and its metabolites in blood: Legal, regulatory, and scientific challenges in the context of cannabis DUI. *A. Pham, E.M. Pryor*

3:30: Rapid metabolic phenotyping of a medicinal plant: Applications for C. Sativa. *J. de la Parra, E. Anemone, F. Jackson, W. Hancock, J. Auclair*

4:05: Panel Discussion.

4:25: Concluding Remarks.