

DIVISION OF CHEMICAL HEALTH AND SAFETY

About US

DCHAS is a technical division of the American Chemical Society. We have about 1500 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.



DIVISION OF CHEMICAL HEALTH AND SAFETY

Debbie Decker & Joseph Pickel
Program Chairs

Please plan on attending our Technical Programing and Workshops virtually for the Fall 2020 ACS National Meeting. We have listed for your consideration CHAS workshops, symposia, and cosponsored symposia. We believe we have put together an outstanding set of talks to help you be successful and work safely in your laboratory.

EXECUTIVE COMMITTEE MEETINGS

SUNDAY MORNING

By Zoom

10:00 AM – 12:00 PM PDT
Division of Chemical Health and Safety (CHAS) Executive Committee Meeting
Join by Zoom at:

<https://princeton.zoom.us/j/6512165169>

WORKSHOPS

All CHAS Courses will start at 8 AM PDT (11 AM EDT) except for Lab Safety Workshop, which will begin at 7 AM PDT (10 AM EDT)

Tuesday, August 11, 2020

Laboratory Safety Workshop, Beyond the Basics – Jim Kaufman

Why it Went Wrong: Blame-Free Investigation of Lab-Scale Incidents – Harry Elston & Neal Langerman

Wednesday, August 12, 2020

Safety Leadership in the Chemistry Enterprise – Robin Izzo, Mary Beth Koza & Sammye Sigmann
Reactive Chemical Management for Laboratories & Pilot Plants Neal Langerman & Harry Elston

Thursday, August 13, 2020

Laboratory Waste Management 2020 – Russ Phifer

Friday, August 14, 2020

How to be a More Effective Chemical Hygiene Officer

Sunday, August 16, 2020 2:30 PM – 6:30 PM

Developing Graduate Student Leadership Skills in Laboratory Safety

Monday August 17 AM

Managing Chemical Risk from Bench to Market

10:00 AM – 12:00 PM PDT

Broadcast Session

1. Transition from the academic laboratory to industrial employment **Abdallah Diagne**
2. "New hire stories" Perspective from an industrial supervisor **Frankie Wood-Black**
3. Integrating risk assessment as a direct form of research skills development **Jessica Martin**
4. Managing chemical risk in agrochemical business **Vsevolod Rostovtsev**

Monday Afternoon - CHAS

Managing Chemical Risk from Bench to Market

1:00 PM – 3:00 PM PDT

Broadcast Session

1. Building a culture of laboratory safety at Corteva Agriscience™ **Ann Buysse**
2. Approach to sustainable cleaning **Paul Lopolito**
3. Explosion hazards of sodium hydride in polar aprotic solvents **Qiang Yang**
4. Scale-up to fatality: Case study of ignoring MOC **Neal Langerman**

Tuesday August 18 AM

How do I Develop, Grow & Sustain a Safety Culture?

10:00 AM – 12:00 PM PDT

Broadcast Session

1. Safety culture in the media **Ralph Stuart**
2. Formatting feedback for success **Melinda Box**
3. Don't Cut That! Lessons learned from a laser cutter fire **Daniel Kuespert**
4. "Essential" Cannabis Manufacturing in the COVID-19 Era: Sustaining Safety and Sanitation at a Distance **Alex Thompson**

Tuesday August 18 PM

Mind the Gap and Cannabis & the FDA: Preserving Public Trust & Demanding Accountability

1:00 PM – 3:00 PM PDT

Broadcast Session

1. AI and drug discovery : Search for new psychoactive candidates from cannabis sativa **Ramesh Jagannathan**
2. Product marketing: Bridge the gap between formulation science and consumer **Stefanie Maletich**

Tuesday August 18 PM Sessions
**Mind the Gap and Cannabis & the FDA:
Preserving Public Trust & Demanding
Accountability (Cont.)**

3. Does “cannabis-derived” mean to the public what it does to a chemist? Brad Douglass
4. “How recent federal court decisions and USPTO proceedings are shaping future cannabis intellectual property rights” Katherine Rubino

Wednesday August 19, AM Sessions
**Advancements in Analytical Testing: Compliance,
Environmental Concerns, & Consumer Safety**
10:00 AM – 12:00 PM PDT
Broadcast Session

1. Novel LC-MS/MS method with dual ESI and APCI ion source for analysis of California regulated pesticides and mycotoxins in medium-chain triglyceride (MCT) oil cannabis tinctures **Avinash Dalmia**
2. Automating Cannabis & Hemp Sample Preparation to Improve Pesticide Analysis and Sample Throughput **Toby Astill**
3. The role of applied molecular microbiology in increasing cannabis product safety and quality. **Khyrrah-Cymoné Shepard**
4. Analytical advances for the assessment of Cannabis-derived products in the European scenario **Laura Mercolini**

Wednesday August 19, PM Sessions
**Advancements in Analytical Testing: Compliance,
Environmental Concerns, & Consumer Safety**
1:00 PM – 3:00 PM PDT
Broadcast Session

1. Evaluation of a liquid chromatography and photodiode array detection method for the screening of 11 cannabinoids in hemp plant and oil samples as part of the NIST cannabis quality assurance program (CannaQAP) **Walter Wilson**
2. "Discovering the un-tapped channels of ISO accreditation: How laboratories add value to industry" **Shannon Swantek**
3. “Cannabis analysis: The intersection of scientific integrity, accountability, and analytical technology **Susan Audino**
4. USP Considerations for quality attributes of cannabis inflorescence for medical purposes **Nandakumara Sarma**

SCHB-CHAS-BMGT
Reception at ACS 2020 Fall
Virtual Meeting

WHEN: Monday August 17, 2020
WHERE: Zoom
TIME: 5pm-7pm Pacific Time (PT)

Here's the joint reception invite and RSVP:
<https://bit.ly/SCHB-CHAS-BMGTRception>

Thursday August 20, AM Sessions
**Cannabis, Soil to Oil: How Products go from the
Benchtop to the Marketplace**
10:00 AM – 12:00 PM PDT
Broadcast Session

1. Formulation strategies required to design fit-for-purpose oral cannabis products **Monica Vialpando**
2. Ready-to-run eMethods to aid rapid startup of your laboratory **Jennifer McCulley**
3. Stability in cannabis product development **Andrea Baillo**
4. Truly green plastic: Bio-based, biodegradable polymers from cannabis plant waste **Tarek Moharram**

Thursday August 20, PM Sessions
**CHAS010: Advances in Cannabis Extraction &
Purification**
1:00 PM – 3:00 PM PDT
Broadcast Session

1. Investigation of chocolate matrix interference on cannabinoid analytes **David Dawson**
2. Cannabidiol Isolation Including Cannabis-Relevant Pesticides Removal by Centrifugal Partition Chromatography **Árpád Könczöl**
3. Applying physicochemical chromatography techniques to optimize adsorbent use in the processing and analysis of cannabis **Jerry W King**
4. Making the case for biosynthesis to create & isolate cannabinoids at scale **Jeremy Friedberg**

ON DEMAND PRESENTATIONS
(available any time during the meeting)

CHAS 7: What a difference a job can make
Kenneth Fivizzani

CHAS 10: Are recent graduates “industry-ready”?
Perspectives from Europe **Al Ribes**

CHAS 12: Framework for integrating GIS to
analyze and optimize the process safety in
chemical supply chains **Nitin Roy**

CHAS 16: Why you should not put phosphorus
pentoxide down the drain **Samuella Sigmann**

CHAS 17: On the explosive nature of hypervalent
iodine compounds with tetrazole ligands: Safety
lessons learned **Nicolay Tsarevsky**

CHAS 21: Environmental considerations for
pesticide analysis in cannabis **Julie Kowalski**

CHAS 23: Future opportunities and challenges for
testing volatiles in cannabis matrices **Alexander
Maitan**

CHAS 24: Flavorable: New approaches to the
analysis and toxicological assessment of cannabis
vapor ingredients **Brad Douglass**

CHAS 25: Cannabis Extract Adulterants: Not all
Rosin is Good **Jiries Meehan-Atrash**

CHAS 27: Sources of Uncertainty in Cannabis
Urine Drug Screening **Ted Simon**

CHAS 29: Analytical testing to ensure regulatory
compliance and safety of cannabis products
James Rice

CHAS 34: Best practices in studying cannabinoid
pharmacokinetics and dosing **Linda Klumpers**

CHAS 35: Pharmacy compounding strategies for
the buccal administration of cannabinoids
Guillerm Moreno

CHAS 36: Cannabis dosing: A nurse’s perspective
Elizabeth G Dost

CHAS 37: Quantitative and qualitative control of
cannabis infused products **Gene Ray**

CHAS 38: Synthesis and pharmacology of delta 8
THC **Samuel Adam**

ON DEMAND PRESENTATIONS
(available any time during the meeting)

CHAS 39: Low pressure gas extraction &
chromatography of cannabis oil using N-butane
& propane **Murphy Murri**

CHAS 40: Vacuum fractionation of cannabis
oleoresins **Steven Hobbs**

CHAS 41: Considerations for the scaling of
nanofiltration for processing cannabis and hemp
crude oils **Ahmed Shuja**

CHAS 46: Heavy metal contaminants in cannabis
vaporizer cartridges: Valid concern or blowing
smoke? Kyle Boyar

CHAS 47: Chemical and biochemical research
behind cannabis topical and transdermal
products: formulation considerations **Carolyn
Burek**

CHAS 51: Crystal structures of isolated
cannabinoids; THCa, CBD, CBN, CBG **Michael
Coffin**

CHAS 52: Identification of an unknown
contaminant as the synthetic cannabinoid Δ 10-
TH **Alexander Siegel**

CHAS 55: Centrifugal partition chromatography
at industrial-scale: concept, instrumentation and
applications **Róbert Örkényi**

CHAS 57: Scaling up ethyl acetate extractions of
cannabis: From benchtop to production scale
Tyrell Towle

CHAS 58: ACS’s strategic leadership in safety
culture **Ralph Stuart**

CHAS 59: Student-led safety initiatives: Yes... we
do have the time **Cristian Aviles Martin**

CHAS 60: Transform your safety culture in
partnership with scientific staff **Martin Neitzel**

CHAS 67: Legalization of cannabinoid products
and standardizing drug development: Pros,
cons, and implications **Jahan Marcu**

CHAS 68: What do we really know about the
health risks of cannabidiol (CBD) in products?
Thomas Lewandowski