

ACS SPRING 2021

MACROMOLECULAR
CHEMISTRY: THE
SECOND CENTURY

#ACSSpring2021

Division of Chemical Health and Safety Debbie Decker and Joseph Pickel, Program Chairs

Please join us for our Technical Programming and Workshops virtually for the Spring 2021 ACS National Meeting. We have listed for your consideration CHAS workshops, symposia, and cosponsored symposia. This outstanding set of talks will help you be successful and work safely.

About Us

DCHAS is a technical division of the American Chemical Society. We have more than 1500 members and actively partners with other technical divisions and committees of the ACS, as well as sister organizations outside the ACS. We are 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 and safety for all.

Chemical Health and Safety Symposia (times are PDT)

THURSDAY, APRIL 8, 2021

SYMPOSIUM	TIME	ABSTRACT	PRESENTER
Systems Thinking in Chemical Health and Safety 9:00 – 11:55 a.m. PDT 11:00 a.m. – 1:55 p.m. CDT Noon – 2:55 EDT	9:00 – 9:05 a.m.	Introductory Remarks	
	9:05 – 9:30 a.m.	Do your experiments fail safely?	Craig Merlic
	9:30 – 9:55 a.m.	Planning for Failure	Daniel Kuespert
	9:55 – 10:20 a.m.	Identifying leverage points in the chemical safety system	Ralph Stuart
	10:20 – 10:45 a.m.	Systems Thinking and Safer Chemistry by Design	David Constable
	10:45 – 11:10 a.m.	Use of geographic information in pursuit of systematic hazard recognition and control	Kimberly Jeskie
	11:10 – 11:35 a.m.	Ammonium nitrate explosions: Lessons learned	Qiongqiong Zhou
	11:35 – 11:50 a.m.	Discussion	
	Noon – 1:00 p.m.	Networking room	
Chemical Health and Safety Awards 1:00 – 3:10 p.m. PDT 3:00 – 5:10 p.m. CDT 4:00 – 6:10 p.m. EDT	1:00 – 1:30 p.m.	Awards Presentation	Kimi Brown
	1:30 – 1:55 p.m.	Making safety second nature at the University of Minnesota	Mahesh Mahanthappa
	1:55 – 2:20 p.m.	Focusing on safety: Building upon the history of a century old lab	John Dolhun
	2:20 – 2:45 p.m.	Bruce Lee and Safety Leadership	Robin Izzo
	2:45 – 3:10 p.m.	Understanding the importance of community and resources within the research safety environment, as a beginning organization	Leon Omar
Safety Across the Scientific Disciplines: Where are the Successes, and What Needs Improvements 5:00 – 7:35 p.m. PDT 7:00 – 9:35 p.m. CDT 8:00 – 10:35 p.m. EDT	5:00 – 5:05 p.m.	Introductory Remarks	
	5:05 – 5:30 p.m.	It is all interdisciplinary now. Safety across boundaries.	Frankie Wood-Black
	5:30 – 5:55 p.m.	Enhancing safety through emphasis of biological and toxicological concepts	Caroline Multari
	5:55 – 6:20 p.m.	Connecting biosafety and chemical safety training in the laboratory	Ralph Stuart
	6:20 – 6:45 p.m.	Student-generated videos: A model for developing written standard operating procedures in academic labs	Melinda Box
	6:45 – 7:10 p.m.	Enlisting the community in pursuit of laboratory safety: An update on the chemical safety library	Carmen Nitsche
	7:10 – 7:35 p.m.	Safety Across the Scientific Disciplines: Where are the Successes, and What Needs Improvements	George Ruger
		8:00 – 9:00 p.m.	Networking room

EXECUTIVE COMMITTEE MEETING
Division of Chemical Health and Safety

Thursday, April 15, 2021
 9:00 to 10:00 a.m. PDT

Join us by Zoom

<https://princeton.zoom.us/j/92215412283>

DISCUSSIONS and NETWORKING EVENTS

April 8	4:00 – 5:00 p.m.	DCHAS Networking
April 12	4:00 – 5:00 p.m.	Getting the most out of professional events
April 14	4:00 – 5:00 p.m.	Preparing your NSF GRFP application
April 21	10:00 – 11:00 a.m.	Diversity, Equity and Inclusion in health and safety
April 22	10:00 – 11:00 a.m.	Writing safety statements for publication

Cannabis Chemistry Symposia (times are PDT)

SYMPOSIUM	TIME	ABSTRACT	PRESENTER
MONDAY, APRIL 5, 2021			
Advancements in Cannabis Analytical Methods (afternoon) 1:00 – 2:45 p.m. PDT 3:00 – 4:45 p.m. CDT 4:00 – 5:45 p.m. EDT	1:00 – 1:05 p.m.	Introductory Remarks	
	1:05 – 1:30 p.m.	Building consumer confidence - how to evaluate integrity and performance of cannabis testing laboratories and their data	Kimberly Ross
	1:30 – 1:55 p.m.	Cannabis horizons in science and technology	Shannon Swantek
	1:55 – 2:20 p.m.	Recent advances in the extraction and analysis of cannabinoids and terpenes from cannabis natural products	Federica Pellati
	2:20 – 2:45 p.m.	Novel approach for the preservation and augmentation of terpenes in cannabis inflorescence	Justin Bueno
	4:00 – 5:00 p.m.	Networking room	
Advancement in Cannabis Analytical Methods (evening) 5:00 – 6:45 p.m. PDT 7:00 – 8:45 p.m. CDT 8:00 – 9:45 p.m. EDT	5:00 – 5:05 p.m.	Introductory Remarks	
	5:05 – 5:30 p.m.	Nonpolar Aerosol Sample Collection: Improved Strategies for Heavy Metals Analysis of Inhaled Cannabis Products	Amber Wise
	5:30 – 5:55 p.m.	Analysis of cannabis vaporizer aerosols for 10 metals	Charlie McDaniel
	5:55 – 6:20 p.m.	Accelerated stability study to confirm duration of potency claims in topical cannabis products	Callie Chapman
	6:20 – 6:45 p.m.	The curious case of the missing delta-8	Mark Krause
	8:00 – 9:00 p.m.	Networking room	
TUESDAY, APRIL 6, 2021			
Women in Cannabis: Shaping an Emerging Industry 5:00 – 8:00 p.m. PDT 7:00 – 10:00 p.m. CDT 8:00 – 11:00 p.m. EDT	5:00 – 5:05 p.m.	Introductory Remarks	
	5:05 – 5:30 p.m.	Moving an industry forward: How women are shaping the future of cannabis	Melissa Wilcox
	5:30 – 5:55 p.m.	Legal and policy considerations for cannabis in the 117 Congress: L, R or down the middle	Tami Wahl
	5:55 – 6:20 p.m.	Intellectual property and business strategies in the cannabis landscape	Katherine Rubino
	6:20 – 6:45 p.m.	Cannabis as a treatment for neuropsychiatric conditions: A review	Paloma Lehfeldt
	6:45 – 7:10 p.m.	Medical cannabis dosage in individuals with epilepsy in clinical practice	Silvia Illamola
	7:10 – 7:35 p.m.	How has COVID-19 impacted the demand for medical cannabis?	Maha Haq
	7:35 – 8:00 p.m.	Technical requirements for international commodity grade cannabis flower and cannabinoids	Yvonne DePorre
	8:00 – 9:00 p.m.	Networking room	
WEDNESDAY, APRIL 7, 2021			
The 2021 EISOHly Award Symposium Sponsored by Heidolph North America 9:00 – 10:45 a.m. PDT 11:00 a.m – 12:45 p.m CDT Noon – 1:45 p.m. EDT	9:00 – 9:30 p.m.	Awards Presentation	
	9:30 – 9:55 a.m.	The role and drive of academic research in cannabis testing advances	Laura Mercolini
	9:55 – 10:20 a.m.	Overcoming challenges associated with analysis of all of pesticides regulated by California state in cannabis related matrices using a novel LCMSMS method with dual ESI and APCI source	Avinash Dalmia
	10:20 – 10:45 a.m.	A physicochemical approach for optimizing the solubility, extraction, fractionation, and packaging - cannabis constituents	Jerry King

SYMPOSIUM	TIME	ABSTRACT	PRESENTER
Cannabis Derived Treatments for Specific Medical Conditions: Macromolecular Interactions and Justifications (afternoon) 1:00 – 3:10 p.m. PDT 3:00 – 5:10 p.m. CDT 4:00 – 6:10 p.m. EDT	1:00 – 1:05 p.m.	Introductory Remarks	
	1:05 – 1:30 p.m.	Bench to bedside translation of PET radiotracers to image the endocannabinoid pathway	Neil Vasdev
	1:30 – 1:55 p.m.	Sustained-release polymeric microdepots for whole plant medical cannabis delivery	Almog Uziel
	1:55 – 2:20 p.m.	Patient-centric smart biosampling for the monitoring of cannabinoid-based therapies	Michele Protti
	2:20 – 2:45 p.m.	Recent developments in phytocannabinoid therapeutics	Peter Sampson
	2:45 – 3:10 p.m.	Novel pharmacology of plant cannabinoids from Cannabis sativa in vitro, in vivo, and in clinic	Robert Laprairie
Cannabis Derived Treatments for Specific Medical Conditions: Macromolecular Interactions and Justifications (evening) 5:00 – 7:35 p.m. PDT 7:00 – 9:35 p.m. CDT 8:00 – 10:35 p.m. EDT	5:00 – 5:05 p.m.	Introductory Remarks	
	5:05 – 5:30 p.m.	From designer drug to the discovery of selective cannabinoid type 2 receptor agonists for the treatment of autoimmune diseases	Lifang Yu
	5:30 – 5:55 p.m.	Turning over a new leaf in the search for cannabis-based therapeutics for childhood epilepsy	Jonathon Arnold
	5:55 – 6:20 p.m.	Chemical characterization of non-psychoactive Cannabis sativa L. extracts and evaluation of their antiproliferative activity	Federica Pellati
	6:20 – 6:45 p.m.	Further discussion of the essential medicinal chemistry of CBD	Kathryn Nelson
	6:45 – 7:10 p.m.	Microdosing and macrodosing hemp cannabis extract as an antidepressant, anxiolytic, and atypical antipsychotic: Putative molecular mechanisms as derived by first-person experience	Christina Miyabe-Shields
	7:10 – 7:35 p.m.	Vaginal delivery of cannabinoids: Learnings and potential impact on the female reproductive system	Carolyn Burek

SCI-MIX

Friday, April 9, 2021

6:00 – 7:30 p.m.

A seminar-based chemical safety course for graduate students: during COVID Part 1, international events

Lawrence Kolopajlo

A seminar-based chemical safety course for graduate students: during COVID Part 2, specific chemicals

Lawrence Kolopajlo

Comprehensive chemical evaluation of aerosol constituents from JUUL Virginia tobacco 5.0% using non-targeted analysis: LC-HRMS analysis of e-vapor aerosols, data acquisition and processing

Mark Crosswhite