

# Medical Cannabis Educational Summit Agenda

1500 N 3<sup>rd</sup> Street, Harrisburg, PA 17102

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March 5, 2018 9 am – 5 pm

8:30-9:00	Registration- <b>Midtown 2 Lobby</b>
9:00-9:15	Welcome PAMCS- Russ Cersosimo <b>Midtown 2 Room 206</b>
9:15-9:30	Welcome from John J. "Ski" Sygielski, President of HACC, Central Pennsylvania's Community College <b>Midtown 2 Room 206</b>
<b>Morning Sessions</b>	
9:30-10:30	<p><b>General Session</b> <b>Midtown 2 Room 206</b> <i>"Update on Implementation of PA's Medical Marijuana Program"</i> PA Department of Health- Office of Medical Marijuana John Collins, Director</p> <p>The Pennsylvania Department of Health will provide an update on implementing the state's Medical Marijuana Program. When fully implemented, the Medical Marijuana Program will provide access to medical marijuana for patients with a serious medical condition through a safe and effective method of delivery.</p>
	<p><b>Scientific Session</b> <i>"An Introduction to Cannabis Testing"</i> Bob Clifford, General Manager of Marketing Managers, Shimadzu Scientific Instruments, Inc.</p> <p>Before we consume foods or prescription medicine there are government agencies protecting the population from harmful contaminants and ensuring the dosing on the labels are accurate. The same should be true for medical cannabis, especially since many patients may have immunocompromised systems. The protection comes in the form of analytical instruments utilized for cannabis testing. People need to know what the concentrations are for the various cannabinoids since each cannabinoid may have a different medical benefit. Terpenes have a synergistic effect with the cannabinoids from a medical standpoint. Wouldn't it great if cannabis came with a label of cannabinoid and terpene concentrations like that of food labels. This is possible with analytical instruments like HPLC and headspace GCMS for testing cannabinoids and terpenes, respectively. Analytical instrument testing is also for compounds not listed on the label like contaminants of pesticides, residual solvents, heavy metals, mycotoxins, and pathogens. Other instruments such as LC-MS/MS, GC-MS/MS, and ICP-MS can be used to prevent exposure to these toxic compounds.</p>

10:40-11:30	<p><b>General Session</b> TBD</p> <hr/> <p><b>Scientific Session</b> <i>“Cannabis Sample Preparation: Pesticides, Potency and Pigmentation”</i> Danielle Mackowsky, Forensic Technical Support Specialist, United Chemical Technologies</p> <p>Cannabis is a complex matrix that has proven to be challenging to laboratories in both recreational and medicinal markets across the United States. Drawing on techniques that were originally developed for the food safety market, UCT has pioneered the use of the QuEChERS approach on both plant and edible materials. By coupling traditional, unbuffered salts, with novel technologies such as UCT’s SpinFiltr® and Chlorofi Itr®, it allows for end-users to obtain purified cannabis extracts for reliable analysis on LC-MS/MS and GC-MS instrumentation. Today’s presentation will discuss the simultaneous extraction of pesticides and mycotoxins from cannabis, in addition to best practices for removing both chlorophyll and other unique pigments specific to certain strains. In addition, the results of a new collaboration between Shimadzu and UCT for the removal of cannabinoids from various sample types will also be presented.</p> <hr/> <p><b>Patient Track</b> Cara Salemme &amp; Lolly Bentsch</p>
11:40-12:30	<p><b>Keynote Speaker</b> Dr. Patricia Frye</p>
	<p><b>Scientific Session</b> <i>“HPLC columns, chromatograms, peaks and interpretation for potency analysis”</i> Mark Schure, Ph.D. Kroungold Analytical, Inc.</p> <p>The best technique for measuring the concentration of various cannabinoids in cannabis is to use liquid chromatography (LC). One extracts the molecules from a cannabis plant and then measures the amount of “active” molecules with an LC instrument. But how does this instrument work and how do we interpret that data? We will describe the cannabis analysis process in simple terms and discuss the results.</p>
12:30-1:30	<p><b>Lunch- Provided for full day attendees</b></p>
<b>Afternoon Sessions</b>	
1:40-2:30	<p><b>General Session</b> TBD</p> <hr/> <p><b>Scientific Session</b> <i>“A Goal-Oriented Approach to the Quantitative Determination of Cannabinoids by HPLC”</i> Craig Young, Ph.D., Shimadzu</p> <p>As interest in cannabis grows, it is useful to consider various goals for the quantitative analysis of naturally occurring cannabinoids by HPLC. Potency determinations typically focus on THC-A and CBD, but there are myriad cannabinoids closely related to these targets. Proper attention to the analysis goals should dictate the parameters that guide method development. In this talk I present three different analysis goals and how they govern the chromatographic approach and outcome.</p> <hr/> <p><b>Cannabis and Cancer Patients</b> Dawn Marie Steenstra</p> <hr/> <p><b>CLE Session</b> Paul Logan</p>

<p>2:40-3:30</p>	<p><b>General Session</b>  <i>"From Seed to Sale: Keeping Cannabis Safe"</i>  G. Michael Verden</p> <p>As a former Secret Service agent, I've protected presidents, popes, princesses, and now pot. I know a risk management strategy focused on a cross-functional approach from seed to sale is an absolute necessity, as both product and cash move internally and externally. This presentation provides a general description of processes to safeguard product, people, and property, as well as examples of guidelines that address theft, diversion, tampering, and intruders. I will walk the audience through the critical steps of design, implementation, and sustainable processes of a holistic security strategy and vision. The session will explore crucial security- and safety-related decisions involving services, equipment, technologies, procedures, and personnel to ensure a best-in-class medical marijuana enterprise.</p> <hr/> <p><b>Scientific Session</b>  <i>"A Day in the Life of a Cannabis Sample"</i>  Kelly Greenland, Ph.D.- Chief Scientific Officer, Keystone Testing</p> <p>Your morning starts off the same as so many before, the light slowly overtakes the dark and you bask in the warmth absorbing energy to allow you to produce medically beneficial cannabinoids and terpenes. Then suddenly, you're dead. Someone has cut your stem separating you from your roots which provided nutrients and water. You're moved to hang upside down in a cool dry room where all that moisture you had consumed slowly leaves your body. After a week, your leaves and flowers are methodically stripped from your stems and ground to a rough mix. The mix is divided into 10-pound divisions and someone dressed in a goofy suit comes and takes small scoops and puts them in sealed containers and whisks them away. Your consciousness can still connect with the samples and you recognize as they're locked away in a container until they're at some sterile location far away. This is their story.</p> <hr/> <p><b>Cannabis for EMS and Law Enforcement</b>  Dawn Marie Streenstra</p> <hr/> <p><b>CLE</b>  Melissa Chapaska</p>
<p>3:40-4:30</p>	<p><b>General Session</b>  <b>TBD</b></p> <hr/> <p><b>Scientific Session</b>  <i>"A Voyage Into The Captivating Realm Of Cannabis Science And Its Regulation"</i>  Jason Lupoi, Ph.D., Consulting Scientist/Analytical Chemist, R J Lee Group</p> <p>The cannabis industry as a whole is under considerable scrutiny. Finger-pointing and blame regarding inaccurate product labels run rampant. Media outlets have often faulted the skill of the laboratories, a circumstance that leaves everyone feeling confused, distraught, and outright swindled. More recently, several entities, such as ASTM International, have embarked on forging paths to standardize cannabis analytical testing. Some individuals have suggested that we look to relevant, standardized methods from parallel industries such as pharmaceuticals, agriculture, or food and beverage. Regardless of which procedures are nominated and implemented uniformly by states having legalized cannabis, this undertaking will take time... it cannot happen overnight. In the meantime, it is the responsibility of each member of the cannabis industry, regardless of business sector, to take on their share of the obligation in making sure that commercial products are safe for consumption, or that ancillary goods have been deemed scientifically valid by experts in the subject matter.</p> <p>Cannabis is an extremely complex and fascinating medicinal plant. There are many sources of variance that can contribute to the final numbers placed on a product's label. These can include natural variation, horticultural differences, and diversity in the analytical methods used to evaluate plant and product chemistry. RJ Lee Group (RJLG) is committed to helping labs combat the latter source of variation, such that the data provided to their customers, and ultimately the public, is bulletproof. RJLG is the auditing body for the Washington State Liquor and Cannabis Board, and also provides consultation to labs in Nevada. Our pedigree translates well to the cannabis industry, as we have habitually provided expertise in evaluating vital public health and safety concerns. Some cannabis labs have shown questionable scientific integrity. Our mission is to eradicate bad science and provide assistance and expertise to facilities who strive to hone their skill and enhance the science of this developing industry. Until every patient can rest assured that the products they use in battling any number of ailments has been cultivated, processed, and analytically appraised with integrity, no one benefits.</p>

*"Veterans Journey Through the Trenches of Cannabis Reform"*

Robert Kowalski, Veterans Ending the Stigma

The Personal and Public Stigma, How Cannabis works to ease conditions like PTSD, Understanding VA Policy and your right to choose.

**CLE Session**

*"Pennsylvania Medical Marijuana Law and Health Care Providers"*

Dan Natirboff, Capozzi-Adler

Attorney Natirboff will examine the complex interplay between the now legal Medical Marijuana program in Pennsylvania and Federal Law which makes the manufacture, distribution and possession of Marijuana illegal. He will examine different Health Care Provider types and what role if any they play in the use of Medical Marijuana by patients with one of the qualifying conditions for its use under Pennsylvania Law.

The session will include a review of experience in other states that have implemented a legal Medical Marijuana program, the DEA position on Medical Marijuana and Health Care Providers and the steps Health Care Providers can take to protect their most important assets, their licensure and Medicare/Medicaid certification, while respecting patient choice to use Medical Marijuana.