

Florida Society of Environmental Analysts 2023 Fall Conference

Tuesday November 7, 2023 Cannabis Labs (Flagler A)

7:45am Registration Opens	Registration Desk
10:00am – 6 :30pm Exhibitor area open	Grand Salon
12:00 – 1:00pm Lunch (provided)	Grand Salon
5:00-6:30pm Exhibitor Reception	Grand Salon

9:00 – 10:00am *Current and Future Testing in Cannabis and Beyond – Julianna Dunbar, Shimadzu*

In a market built on new methods and constant evolution, we will discuss a few things to stay current in the ever-changing landscape. First, as more cannabinoids are being discovered and researched, companies are placing a more significant emphasis on minor cannabinoids. We will provide a comprehensive and fast determination of 21 cannabinoids in 15 minutes using our turnkey potency analyzer. Then look to the potential “next big thing” of psychedelic mushrooms. Much like the emergence of cannabis, psychoplastogens face a jumbled legal environment. Methodologies must be established to monitor quality control, contaminants, dosing, and stability. In our current work, we focus on measuring psilocybin and psilocin from *Psilocybe cubensis* to maximize extraction and determine stability.

10:00–10:30am *BREAK in Exhibit Area – Grand Salon*

10:30–11:15am *Cannabis Microbiology, The Basics to Quality Control in an everchanging Laboratory – Anthony Repay, Method Testing Labs*

Cannabis microbiology can be a difficult topic to navigate. As new test methods approach the market, quality control in the laboratory should innovate to meet the means of testing. From media to molecular based platforms, the different means of quality control requirements change when switching from method to method. In this talk, we will first outline the difference between media and molecular forms of microbiology; whether that is for qualitative or quantitative purposes. Secondly, the proper quality control for each of the platforms will be defined and justified to for testing. From AOAC, FDA BAM, EPA, CMMEF, and AFNOR methods we can piece together what is needed in the cannabis microbiology laboratory to ensure legally defensible and viable data for consumer safety.

11:15am-noon *Accurate Moisture, Accurate Potency – Michael Inman, Metrohm*

Accurate determination of moisture content is a crucial parameter in potency calculations for cannabis products. Conventional loss on drying methods lack specificity, as they cannot differentiate between moisture and the loss of volatile components, including terpenes. In contrast, Karl Fischer titration is a chemically specific test for moisture. With a minimal sample requirement of less than 0.5 grams, Karl Fischer titration offers a reliable solution for moisture analysis in cannabis flowers, oils, and other related products. Join this session to learn more about Karl Fischer titration and its significance in moisture determination within the cannabis industry.

Lunch 12:00-1:00pm – Provided by FSEA (Grand Salon)

1:00-2:00pm *“Chaos to Consensus” – Cannabis Microbial Testing Regulations Across 50 States and 5 Territories – Heather Ebling, Medicinal Geonomics*

Microbial pathogens in cannabis are a health hazard to consumers and patients with medical conditions; especially those who are immunocompromised. Since cannabis is federally illegal, a single regulatory guideline for cannabis microbial testing does not exist to reduce public health risk. Current guidelines for safety testing often rely on broad microbial tests, such as TYM (Total Yeast and Mold) and TAC (Total Aerobic Count) borrowed from other industries (e.g. food processing). The problems with this approach are few but important. The purpose of this study was to update an “All States Cannabis Microbial Required Testing Compendium” to elucidate the present landscape, and identify a consensus set of required tests to lower public health risk.

2:00 – 3:00pm *Office Tips and Tricks – Mei Beth Shepherd, Shepherd Technical Services*

Come to this session to get ideas on ways to use Office products to make life in your laboratory easier. Mei Beth Shepherd, as an assessor, has been in many laboratories and has seen some of the good and bad ways to use Office products. She will share this experience with attendees during this presentation.

3:00–3:30pm *BREAK in Exhibit Area – Grand Salon*

3:30–4:15pm *Regulatory Updates – Dr. John Kaba, OMMU (tentative)*

More details coming soon!

4:15–5:00pm *Peer Mentoring Session – Moderator TBD*

This session is an opportunity to talk with your peers in a collaborative environment. Discuss challenges and opportunities faced by others in your field.

5:00-6:30pm *Reception in Exhibit Area with Hors d’oeuvres and Door Prizes (Grand Salon)*