



## **ASTM D37 GLOBAL WORKSHOP ON CANNABIS/HEMP STANDARDIZATION**

Sponsored by ASTM Committee D37 on Cannabis

14-15 December 2021

Virtual Workshop

Workshop Chair: Scheril Murray Powell, Esq.  
Green Sustainable Strong, LLC  
Fort Lauderdale, FL, USA

### **About this Workshop**

As we emerge from a global state of prohibition, the need for harmonized international standards that assure the quality and safety of cannabis becomes even more urgent. The lack of standards has led to unreliable testing data and a consumer base that is left responsible for ensuring the products they are purchasing are safe. ASTM International's Technical Committee D37 on Cannabis has been hard at work creating market relevant standards for the global cannabis industry to address these quality and safety issues. It is also important to:

- Increase participation in the standards development effort from international stakeholders,
- Support the needs of diverse professionals that interface with cannabis standardization and safety harmonization
- Explore the unique needs of the member regions, and
- Update the global community on the latest technological innovations that will aid in compliance, setting standards, and consumer/patient protection.

The goal of Committee D37 is to establish standards for cannabis, including products and processes, through the development of terminology, classifications, specifications, test methods, practices, and guides for cultivation, manufacturing, quality assurance, laboratory considerations, packaging, security, and other market relevant issues.

The guiding principle is to focus on the consumer and environmental protection, consumer safety, and market stabilization methods that are needed to provide both consumers and regulators with the assurances they need to know that the cannabis products that are on the marketplace are safe to consume and do not pose a risk to human health or the environment. Speakers will use this session to identify the standards they believe are critical and the resources needed to create the testing protocols for the cannabis industry.

The workshop intends to provide cannabis industry stakeholders with the knowledge they need to be effective participants in the international community. Presentations will be concluded by question-and-answer sessions intended to keep the audience engaged.

## **TUESDAY, 14 DECEMBER 2021**

(All times are in U.S. Eastern Standard Time)

10:00 – 10:10 AM     **Welcome and Introduction**  
Ralph Paroli- Chair, ASTM D37 Cannabis Committee

### **KEYNOTE**

10:10 – 10:40 AM     **Keynote Presentation**  
Dr. Arno HazeKamp – HazeKemp Herbal Consulting

10:40 – 10:50 AM     **Keynote Q&A**

### **PANEL 1 – ORAL PRESENTATION**

10:50 – 11:10 AM     **Development of the 'Specification for an International Symbol for Identifying Consumer Products Containing Intoxicating Cannabinoids'**  
Martha Bajec – Bajec Senseworks Consulting HCD Research

11:10 – 11:30 AM     **D<sup>8</sup>-THC: Perspectives from ASTM and US Pharmacopeia expert panel and the role of standards to address the latest public health risks**  
Nandakumara Sarma – U S Pharmacopeia (USP)  
David Vaillencourt – The GMP Group

11:30 – 11:50 AM     **Standardization of Hempcrete Evaluation from Hurd to Hempcrete**  
Jacob Waddell – US Hemp Building Association

11:50 – 12:10 PM     **Panel 1 Q&A**

### **PANEL 2 – LIGHTENING TALK**

12:10 – 12:20 PM     **Fit for Purpose Regulation of Light Cannabis**  
Davide Fortin – Pantheon-Sorbonne University / MPG Consulting

12:20 – 12:30 PM     **Why Does Modeling Pharmaceutical Best Practices Matter in the Cannabis Industry?**  
Patty Ranaivo – Athena Laboratories

12:30 – 12:40 PM     **Cannabis Industry & Cleaning Validation – The Pharma Approach**  
Susan Youngquist – Ecolab Life Sciences

12:40 – 12:50 PM     **Development of a Standard Method for Measurement of Cannabinoids by Gas Chromatography**  
Randall Shearer – University of Colorado, Boulder

12:50 – 1:05 PM     **Panel 2 Q&A**

### **PANEL 3 – ORAL PRESENTATION**

- 1:05 – 1:25 PM      **Tropical Strains and Island Pains: An Update on Medical Cannabis and the Hemp Industry in Hawaii**  
Sean Donahoe – Sungrown Developments Inc.
- 1:25 – 1:45 PM      **Kosher Cannabis – Myth or Reality?**  
Levy Teitlebaum – Ottawa Vaad HaKashrut, and  
Ralph Paroli – National Research Council Canada
- 1:45 – 2:05 PM      **Standardizing Spirituality: Social Justice, Sacramental Use & Ital Standards**  
Joan Webley – Nannok Enterprises Ltd.
- 2:05 – 2:15 PM      **Panel 3 Q&A**
- 2:15 – 2:25 PM      **Break**

### **KEYNOTE**

- 2:25 – 2:55 PM      **Keynote Presentation**  
Cecilia Johnson – Bureau of Standards, Jamaica
- 2:55 – 3:05 PM      **Keynote Q&A**

### **PANEL 4 – LIGHTENING TALK**

- 3:05 – 3:15 PM      **Medical Marijuana 411 EU & UK Supporting the Field of Cannabis through Online Education and Training**  
Bryan Schell – Medical Marijuana 411 EU & UK
- 3:15 – 3:25 PM      **Cannabis Compliance: Looking Ahead**  
Heather Despres – Americans for Safe Access
- 3:25 – 3:35 PM      **Navigating the Cannabis Regulatory Challenges – Paths to an Emerging Market**  
Lisa Hawkins - CAI (Commissioning Agents, Inc)
- 3:35 – 3:50 PM      **Panel 4 Q&A**

## **PANEL 5 – ORAL PRESENTATION**

- 3:50 – 4:10 PM **Building Quality into Your Production System**  
Ed Nodland – Jet Stream Innovations
- 4:10 – 4:30 PM **Consumer Perspective: Product Labels Influence on Consumer Perception**  
Michelle Niedziela, PhD – HCD Research  
Martha Bajec, PhD – HCD Research
- 4:30 – 4:50 PM **Risk Management Deployment as a Driver for Continuous Improvement in the Cannabis Industry**  
Cary Black – CK Black Group Inc.
- 4:50 – 5:05 PM **Panel 5 Q&A**
- 5:05 – 6:00 PM **Virtual Networking**  
**FREE- OPEN TO ATTENDEES AND NON-ATTENDEES**  
**ZOOM INFORMATION**  
Topic: HAPPY HOUR: ASTM D37 Global Workshop  
Time: Dec 14, 2021 05:00 PM Eastern Time (US and Canada)

Join Zoom Meeting

<https://us02web.zoom.us/j/85381121774>

Meeting ID: 853 8112 1774

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**WEDNESDAY, 15 DECEMBER 2021**  
(All times are in U.S. Eastern Standard Time)

10:00 – 10:10 AM     **Welcome Day 2**  
Scheril Murray Powell, Esq – Workshop Chair

**KEYNOTE**

10:10 – 10:40 AM     **Keynote Presentation**  
Zach Brym – University of Florida

10:40 – 10:50 AM     **Keynote Q&A**

**PANEL 1 – ORAL PRESENTATION**

10:50 – 11:10 AM     **Cannabinoid Analysis of Hemp Flower, Tinctures, and Edibles Using Automated Solvent Extraction and HPLC Analysis**  
Todd Griffn – G2 Analytical

11:10 – 11:30 AM     **Decoding Cannabis Testing: Examining the Challenges of Cannabis Sample Processing Analysis and the Role of Reference Material**  
Patricia Atkins – Spex

11:30 – 11:50 AM     **Milling Study - Coffee Grinder vs. Commercial Mill of Hemp Inflorescence - Evaluation of Cannabinoid Potency by HPLC-UV and Sample throughput Considerations**  
Katherine M. Evans – Longboard Scientific Consulting Corp.  
Melissa Fauth – CEO (Americas) Fritsch

11:50 – 12:10 PM     **Panel 1 Q&A**

**PANEL 2 – LIGHTENING TALK**

12:10 – 12:20 PM     **Toward Cannabis Beverage Control: Harmonizing Standards for the Cannabis Beverage Industry**  
Michael Bronstein – American Trade Association for Cannabis & Hemp

12:20 – 12:30 PM     **The Importance of ISO/IEC 17025 Accreditation for Cannabis Testing Laboratories**  
Natalie Seidel – A2LA

12:30 – 12:40 PM     **Update on the Latest Technological Innovations That Will Aid in Compliance, Settling Standards, and Consumer/Patient Protection**  
Hunter Buffington – Santa Fe Farms

12:40 – 12:50 PM     **Panel 2 Q&A**

12:50 – 1:05 PM     **Break**

### **PANEL 3 – ORAL PRESENTATION**

- 1:05 – 1:25 PM **Regulating Elemental Contaminants in Cannabis and Hemp Consumer Products: What We Can Learn From the Pharmaceutical Industry**  
Robert Thomas – Scientific Solutions
- 1:25 – 1:45 PM **Ensuring Consumer Safety with Certified Reference Materials for Pesticide Testing in Cannabis**  
Markus Obkircher – Merck KGaA
- 1:45 – 2:05 PM **Balancing the Need for Standardized Methods and Ongoing Scientific Method Development**  
Scott Churchill – MCR Labs
- 2:05 – 2:15 PM **Panel 3 Q&A**
- KEYNOTE**
- 2:15 – 2:45 PM **Keynote Presentation**  
Walter Brent Wilson – National Institute of Standards and Technology (NIST)
- 2:45 – 2:55 PM **Keynote Q&A**

### **PANEL 4 – LIGHTENING TALK**

- 2:55 – 3:15 PM **Fit For Purpose 3.0 - A Common Sense Approach to Market Protection**  
Darwin Millard – TSOC LLC
- 3:15 – 3:35 PM **Educational and Legal Defensibility of Cannabis Certificate Programs via Accreditation**  
Turon Ayvaz – ANSI National Accreditation Board  
Caitlin O’Connell – ANSI National Accreditation Board
- 3:35 – 3:50 PM **Panel 4 Q&A**

### **PANEL 5 – ORAL PRESENTATION**

- 3:50 – 4:10 PM **Development of FCC Hemp Seed Protein Powder and Hemp Seed Oil Quality Standards**  
Kenny Xie – USP
- 4:10 – 4:30 PM **Water Activity is not the Free Water – Understanding Water Activity**  
Brady Carter – Neutect Group, Inc
- 4:30 – 4:50 PM **Developing Global Industrial Hemp Standards**  
Ted Haney – Canadian Hemp Trade Alliance
- 4:50 – 5:05 PM **Panel 5 Q&A**
- 5:05 – 6:00 PM **WORKSHOP ADJOURNS**