



## **WORKSHOP ON ADVANCING THE FIELD OF CANNABIS/HEMP THROUGH STANDARDIZATION**

Sponsored by ASTM Committee D37 on Cannabis

18-19 February 2019  
Rome Marriott Park Hotel  
Rome, Italy

Workshop Chair: Darwin Millard  
PhytoLogix  
Evergreen, CO, USA

Committee D37 Chair: Ralph Paroli  
National Research Council Canada (NRC)  
Ottawa, ON, Canada

### **About this Workshop**

ASTM International's technical committee D37 on Cannabis has been hard at work creating market relevant standards for the global cannabis industry. Our goal is to develop standards for cannabis, its products, and processes to meet the needs of the legal cannabis industry by addressing quality and safety through the development of classifications, specifications, test methods, practices, and guides for cultivation, manufacturing, quality assurance, laboratory considerations, packaging, and security, etc. But we cannot do this alone. The D37 Committee is 100% volunteer based and needs more dedicated and passionate cannabis industry stakeholders to take the lead in developing the foundational standards that will shape the cannabis industry for years to come. The objective of D37's Workshop on Advancing the Field of Cannabis/hemp through Standardization is to energize the international community and solicit, not only participation from stakeholders, but also the creation of new standards and the appointment of regional liaisons responsible for updating the D37 on developments in their area.

Topics for this workshop include, but are not limited to, the following:

- Regional Updates from Cannabis Industry Stakeholders
- "Fit for Purpose" Classifications of the Cannabis Plant – A Foundation to Work From
- Personnel Training – Addressing Safety and Compliance

The workshop is intended to provide cannabis industry stakeholders with the knowledge they need to be effective participants in the international community and will provide attendees with an orientation and onboarding into the D37 committee to help facilitate a smooth transition into the committee structure. Presentations will be concluded by question and answer sessions intended to keep the audience engaged, and each day will be wrapped up with a networking event designed to promote collaboration.

## **MONDAY, 18 FEBRUARY 2019**

8:30 AM – 9:00 AM

### **REGISTRATION & NETWORKING**

9:05 AM – 9:25 AM

#### **Opening Remarks**

Ralph Paroli, D37 Committee Chair

Sara Gobbi, ASTM European Affairs

9:30 AM – 10:20 AM

### **SESSION 1: REGIONAL UPDATES**

#### **Greece**

Michalis Theodoropoulos – HempKanna Consulting

#### **Australia**

Andrew Heath – VeriCann

10:20 AM – 10:40 AM

### **BREAK**

10:40 AM – 12:10 PM

### **SESSION 1: REGIONAL UPDATES (Continued)**

#### **New Zealand**

Manu Caddie – Hikurangi Cannabis Company

#### **Canada**

Pete Scales – Canadian Hemp Trade Alliance (CHTA)

#### **United States**

Darwin Millard, D37 Industrial Hemp Liaison – On Behalf of the Hemp Industries Association

#### **Regional Updates Panel Discussion**

12:10 PM – 1:30 PM

### **LUNCH (Included)**

1:30 PM – 3:10 PM

### **SESSION 2: PERSONNEL SAFETY AND TRAINING & GENERAL TOPICS**

#### **The Role of Metrology in Developing Normative Standards**

Dr. Alan Steele – Chief Metrologist Canada, Director General NRC-Metrology

#### **Reference Materials for Your Cannabis Testing Workflow**

Markus Obkircher – Merck Group

#### **Accreditation of Laboratories for Cannabis Analysis in North America**

Lonnie Spires & Roger Brauninger – A2LA

**Personnel Training Addressing Safety, and Compliance in the Cannabis Industry**

Patricia Haley – Quattroculture

3:10 PM – 3:30 PM

BREAK

3:30 PM – 4:45 PM

**SESSION 2: PERSONNEL SAFETY AND TRAINING & GENERAL TOPICS (Continued)**

**CBD Product Testing Results from Across Europe**

Martin Masilko – ICCI

**Comparative Analysis of Lab Testing Requirements by State - A look at the US**

Rebecca Gasca – Pistil and Stigma

**Development of Analytical Test Methods for Cannabis - A Canadian Perspective**

Rob O'Brien - Supra THC Services

4:45 PM – 5:00 PM

**First Day Wrap-up**

Darwin Millard, Workshop Chairman

5:00 PM

**WORKSHOP ADJOURNS FOR THE DAY**

**TUESDAY, 19 FEBRUARY 2019**

8:30 AM – 9:00 AM

**REGISTRATION & NETWORKING**

9:05 AM – 10:25 AM

**SESSION 2: PERSONNEL SAFETY AND TRAINING &  
GENERAL TOPICS (Continued)**

**Pitfalls in the Analysis of Cannabinoids**

Cinzia Citti and Giuseppe Cannazza – Aurora

**An Overview of the Cannabis-based Compounded Preparations in  
Italian Pharmacies**

Antonella Casiraghi, PhD – University of Milan

**Air Quality as it Relates to Worker Safety**

Tara Lovestead – NIST

10:25 AM – 10:45 AM

**BREAK**

10:45 AM – 12:00 PM

**SESSION 2: PERSONEL SAFETY AND TRAIING &  
GENERAL TOPICS (Final)**

**CAPA for Risk Management**

Kathleen May – MP Consulting LLC

**The Challenges of Internal Method Validation in Cannabis  
Laboratories**

Alessandro Annino

**Personnel Training/Safety & General Topics Panel Discussion**

**SESSION 3: FIT-FOR-PURPOSE FOUNDATIONAL  
STANDARDS**

**Test Method Development as It Relates to Cannabis Type**

Susan Audino – Chemometrician

**Abiotic and Biotic Factors in Cannabis Cultivation Standards**

Manu Caddie – Hikurangi Cannabis Company

12:00 PM – 1:30 PM

**LUNCH (Included)**

1:30 PM – 3:15 PM

**The Role of Standards in the Developments Hemp/cannabis Industry and Its Regulations**

Hanka Gabrielova – ICCI

**Essential Development of Structured Cannabis Safety and Compliance Programs Obligation**

Blake Power - Aurora Cannabis

**Terminology: Its Use Within the D37 Subcommittees and As a Coalescence of Information**

Julie Fry – D37 Member

**Cannabis Classification Using the Steel Approach**

Martin Masilko – ICCI

3:15 PM – 3:35 PM

BREAK

3:35 PM – 4:00 PM

**Fit-for-Purpose - Foundational Standards from Which to Grow**

Darwin Millard – PhytoLogix

**Fit-for-Purpose Panel Discussion**

**ASTM Committee D37 Onboarding & Training**

Ralph Paroli, D37 Committee Chair

Sara Gobbi, ASTM European Affairs

4:00 PM – 4:15 PM

**Closing Remarks**

Darwin Millard, Workshop Chairman

4:15 PM

**WORKSHOP ADJOURNS**