



ASTM D37 GLOBAL WORKSHOP ON CANNABIS/HEMP STANDARDIZATION

Sponsored by ASTM Committee D37 on Cannabis

21-23 October 2020

Virtual Workshop

Workshop Chair: Darwin Millard
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Evergreen, CO, USA

Committee D37 Chair: Ralph Paroli
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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/hemp-derived products 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/hemp industry to address these quality and safety issues.

Our goal is to establish standards for cannabis/hemp, 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. We cannot do this alone. The D37 Committee is 100% volunteer-based and needs more dedicated and passionate cannabis/hemp industry stakeholders to take the lead in developing the foundational standards that will shape the industry for years to come.

The objectives of the ASTM D37 Global Workshop on Cannabis/Hemp Standardization are to update participants on the rapidly changing international landscape of the cannabis/hemp marketplaces, 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.

WEDNESDAY, 21 OCTOBER 2020

**SESSION 1: UPDATES FROM NORTH AMERICA AND EUROPE
(All times are in U.S. Eastern Time)**

- 09:00 – 09:10 **Welcome and Introduction**
Ralph Paroli, Committee D37 Chair
- 09:10 – 09:45 **Update on US Testing Regulations from A2LA**
Renee Delauter, A2LA - USA
- 09:50 – 10:25 **2020 ASA State of the States Unmasked: The Status of U.S. Medical Cannabis Policy Amidst a Global Pandemic**
Dustin McDonald, Americans for Safe Access - USA
- 10:30 – 10:55 **NIST Cannabis Quality Assurance Program - Helping the Development of Standardized Analytical Methods**
Walter Wilson, National Institute of Standards and Technology - USA
- 11:00 – 11:35 **Improving Data Quality in Cannabis Terpene Profiling**
Laura McGregor, SepSolve Analytical – USA
- 11:40 - 12:15 **USP Considerations for Quality Attributes of Cannabis Inflorescence and Hemp Seed-Derived Products**
Kenny Xie & Nam-Cheol Kim, United States Pharmacopeia - USA
- 12:15 – 12:45 **Break**
- 12:45 – 13:20 **Industrial Hemp - A Canadian Perspective**
Ted Haney, Canadian Hemp Trade Alliance - Canada
- 13:25 – 14:00 **Update from the European Union (Denmark and Germany)**
Deepak Anand, Materia Ventures - Canada
- 14:05 – 14:40 **Introduction to the International Industrial Hemp Association**
Daniel Kruse; Lorenza Romanese & Francesco Mirizzi, International Industrial Hemp Association - Germany
- 14:45 – 15:20 **Advancing the Field of Cannabis/Hemp through Standardization: *Getting the World in Tune***
Eric Singular & Ceci Zak, Gateway Proven Strategies - USA
- 15:25 – 16:00 **Day One Wrap-up and Open Discussion on Needed Standards**
Darwin Millard, Workshop Chair
- 16:00 **Adjourn for the Day**

THURSDAY, 22 OCTOBER 2020

SESSION 2: SUSTAINABILITY & FIT-FOR-PURPOSE
(Concepts for Shaping a New World)
(All times are in U.S. Eastern Time)

- 09:00 – 09:10 **Welcome and Introduction**
Ralph Paroli, Committee D37 Chair
- 09:10 – 09:45 **Good Agricultural Practices and Addressing Its Challenges When Applied to Hemp**
Hanka Gabrielova', CzechHemp - Czech Republic
- 09:50 – 10:25 **Standards for the Commodification of Hempcrete**
Tai Olson, US Heritage - USA
- 10:30 – 10:55 **Predicting the Uptake of Metals in *Cannabis sativa* L. Based Upon Initial Soil Metal Loading**
Cary Black, CK Black Group - USA
- 11:00 – 11:35 **Building an Integrated Energy Storage from Hemp Plant Materials**
Carl Martel, Independent Researcher - Canada
- 11:40 – 12:15 **Fit-for-Purpose Approach to Terminology**
Kenzi Riboulet-Zemouli, Independent Researcher – Spain
- 12:15 – 12:45 **Break**
- 12:45 – 13:20 **Has Bifurcation of the Cannabis Plant Lead to More Harm Than Good?**
Michael Bronstein; Gary Kaminsky; David Landau; and, Seth Goldberg,
American Trade Association for Cannabis and Hemp - USA
- 13:25 – 14:00 **The Case for a Commonsense Approach: *Fit-for-Purpose***
Darwin Millard, TSOC LLC - USA
- 14:05 – 14:40 **Fit-for-Purpose Approach to GMP Compliance**
Kathleen May & Dave Vaillencourt, The GMP Collective - USA
- 14:45 – 15:20 **Update from Jamaica**
Sheldon Reid, Cannabis Licensing Authority - Jamaica
- 15:25 – 16:00 **Day Two Wrap-up and Open Discussion on Needed Standards**
Darwin Millard, Workshop Chair
- 16:00 **Adjourn for the Day**

FRIDAY, 23 OCTOBER 2020

**SESSION 3: EQUITY IN OPPORTUNITY
(Voices from the Developing World)
(All times are in U.S. Eastern Time)**

- 09:00 – 09:10 **Welcome and Introduction**
Ralph Paroli, Committee D37 Chair
- 09:10 – 09:45 **Update from South America**
Manuel Baselga, 613 Partners - Colombia
- 09:50 – 10:25 **Update from the African Continent**
Tony Budden & Tanya Clark, Invegrow - South Africa
- 10:30 – 10:55 **Update from India**
Rohit Sharma, Indian Industrial Hemp Association - India
- 11:00 – 11:35 **Update from Thailand and East Asia**
Jim Plamondon, Thai Cannabis Company – Thailand
- 11:40 – 12:15 **Standardization Within South Africa’s Dagga Private Clubs**
Marleen Theunissen, Fields of Green for All – South Africa
- 12:15 – 12:45 **Break**
- 12:45 – 13:20 **Indigenous Teachings for our Modern Hemp Industry**
Erin Lindley and Cheryl Maurice, Advanced Botanical and Biomass Institute -
Canada
- 13:25 – 14:00 **Hot, Poor, and Distant - Embracing the Developing World**
Jim Plamondon, Thai Cannabis Company - Thailand
- 14:05 – 14:40 **Herstory – Women in the Cannabis Ecology**
Julie Fry, Herstory - Switzerland
- 14:45 – 15:50 **Standards for Social Equity in Licensing, Law & Regulation - Case Studies**
Andrew DeAngelo, ASTM D37 Member - USA
- 15:50 – 16:00 **Closing Remarks**
Ralph Paroli, Committee D37 Chair & Darwin Millard, Workshop Chair
- 16:00 **Workshop Adjourns**