



2017

# NATIONAL CANNABIS SUMMIT

SCIENCE, POLICY AND  
BEST PRACTICES

August 28-30, 2017 | Denver, CO



[www.NationalCannabisSummit.org](http://www.NationalCannabisSummit.org)

#Cannabis17

## ABOUT THE SUMMIT

Few legislative and regulatory issues in the United States are as polarizing as cannabis, but there is no denying that it is being medically and recreationally legalized in many states. In 2016, nine states had medical and recreational cannabis-related questions on their ballots.

Currently, 29 states and the District of Columbia have legalized the medical use of cannabis. Eight states and the District of Columbia have legalized cannabis for recreational use. State and local governments, advocacy groups, medical professionals and consumers are vigorously engaged in conversation on the topic.

The National Cannabis Summit provides an objective national platform for these stakeholders to come together to discuss policies and regulatory approaches to enhance public health and safety, advance research and improve prevention and treatment to respond to changing cannabis policies.



29 STATES &  
the District of Columbia  
legalized the medical  
use of marijuana



9 STATES  
had medical and recreational  
cannabis-related questions  
on the ballot in 2016

*The opinions expressed in the Summit presentations are the views of the presenters and do not reflect the official position of the Advocates for Human Potential, Inc., Addiction Technology Transfer Center Network/ Substance Abuse and Mental Health Services Administration and National Council for Behavioral Health. No official support or endorsement of the partner organizations for the opinions described in this document is intended or should be inferred.*

## PARTNER ORGANIZATIONS

Advocates for Human Potential, Inc. (AHP), in collaboration with the Addiction Technology Transfer Center (ATTC) Network and the National Council for Behavioral Health (National Council) are convening the National Cannabis Summit to address the science, policy and best practices on public health and governance in an age of cannabis legalization and decriminalization.



For more than 30 years, Advocated for Human Potential, Inc. has focused its people, passion and expertise on creating practical solutions to improve health and human services' systems of care and business operations. Every day, AHP works to develop real-world solutions for systems change through its areas of expertise, including substance use disorders, mental health and behavioral health policy.



The Addiction Technology Transfer Center Network promotes adoption and implementation of evidence-based, recovery-oriented, culturally appropriate practices for people who have, or who are at risk of developing, substance use disorders. Established in 1993 by the Substance Abuse and Mental Health Services Administration (SAMHSA), the ATTC Network is comprised of 10 Regional Centers, four National Focus Area Centers and a Network Coordinating Office dedicated to unifying science, education and service to transform lives in a recovery-oriented system of care.



The National Council for Behavioral Health is the unifying voice of America's mental health and addictions treatment organizations. Together with more than 2,900 member organizations, serving 10 million adults, children and families living with mental illnesses and addictions, the National Council is committed to all Americans having access to comprehensive, high-quality care that affords every opportunity for recovery.

## SCHEDULE AT A GLANCE

### SUNDAY, AUGUST 27

2:00 PM – 6:00 PM    **Registration Open**    Colorado Foyer

### MONDAY, AUGUST 28

8:00 AM – 4:00 PM    **Registration Open**    Colorado Foyer

9:00 AM – 6:30 PM    **Poster Presentations Open**    Colorado Foyer

9:00 AM – 10:30 AM    **Welcome and Opening Keynote Session**    Colorado Ballroom  
Featuring John F. Kelly, Ph.D.

10:30 AM – 10:45 AM    **Coffee Break**    Colorado Foyer

11:00 AM – 12:00 PM    **Breakout Sessions**    Various

12:15 PM – 1:15 PM    **Lunch & Learn Sessions\***    Various

1:45 PM – 2:45 PM    **Breakout Sessions**    Various

2:45 PM - 3:00 PM    **Break**    Colorado Foyer

3:00 PM – 4:00 PM    **Keynote Session**    Colorado Ballroom  
Featuring Jonathan Caulkins, Ph.D.

4:00 PM - 5:00 PM    **Keynote Session**    Colorado Ballroom  
Featuring Hilary Karasz, Ph.D., M.A., and  
Beau Kilmer, Ph.D.

5:00 PM - 6:30 PM    **Networking Reception and  
Poster Speaker Presentations**    Colorado Foyer

\*Pick up your box lunch from the Colorado Foyer and proceed to your Lunch & Learn Session.  
Please enjoy your lunch in a more relaxed and interactive learning environment.

## SCHEDULE AT A GLANCE

### TUESDAY, AUGUST 29

8:00 AM – 4:00 PM	<b>Registration Open</b>	Colorado Foyer
9:00 AM – 10:00 AM	<b>Keynote Session</b> Featuring John Carnevale, Ph.D. (moderator) Rick Garza and Lewis Koski, M.B.A.	Colorado Ballroom
9:00 AM – 11:00 AM	<b>Poster Presentations Open</b>	Colorado Foyer
10:00 AM – 10:30 AM	<b>Coffee Break and Poster Speaker Presentations</b>	Colorado Foyer
10:30 AM – 11:30 AM	<b>Breakout Sessions</b>	Various
11:45 AM - 12:45 PM	<b>Lunch &amp; Learn Sessions*</b>	Various
1:00 PM - 2:00 PM	<b>Breakout Sessions</b>	Various
2:00 PM - 2:15 PM	<b>Break</b>	Colorado Foyer
2:15 PM - 3:15 PM	<b>Keynote Session</b> Featuring Susan Weiss, Ph.D.	Colorado Ballroom

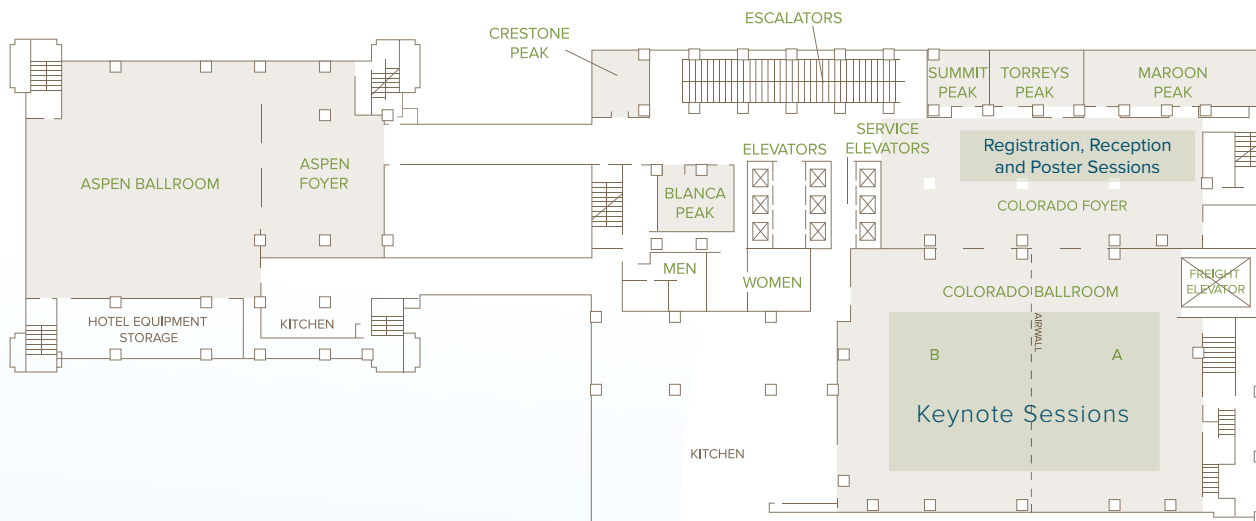
### WEDNESDAY, AUGUST 30

8:00 AM – 11:30 AM	<b>Registration Open</b>	Colorado Foyer
9:00 AM – 10:00 AM	<b>Breakout Sessions</b>	Various
10:00 AM - 10:15 AM	<b>Coffee Break</b>	Colorado Foyer
10:15 AM – 11:15 AM	<b>Closing Keynote Session</b> Featuring Andrew Freedman, J.D.	Colorado Ballroom
11:15 AM	<b>Summit Concludes</b>	

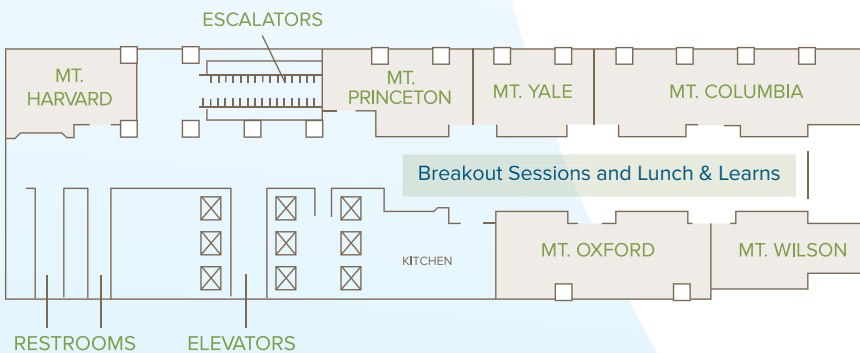
\*Pick up your box lunch from the Colorado Foyer and proceed to your Lunch & Learn Session.  
Please enjoy your lunch in a more relaxed and interactive learning environment.

## HOTEL MAP

### SECOND FLOOR, REGISTRATION, KEYNOTE SESSIONS, RECEPTION AND POSTER SESSIONS



### THIRD FLOOR, BREAKOUT SESSIONS AND LUNCH & LEARNS



## HILTON FOUNDATION SUPPORT

CONRAD N.



FOUNDATION

AHP, ATTC and the National Council would like to thank the Conrad N. Hilton Foundation for their generous support of the Prevention Sessions for the National Cannabis Summit.

### SESSION HANDOUTS

Session handouts and speaker presentations are available online at  
<https://ncc.expoplanner.com/cs17/handouts>.

## SESSIONS

### SESSION TOPICS AND TRACKS

- ◆ Emerging Research and Epidemiological Data
- ◆ Governance, Federal Law and Emerging Policy
  - ◆ Prevention
- ◆ Public Health and Public Safety
  - ◆ Regulatory Issues
  - ◆ Science of Cannabis

### SESSION TYPES

**KEYNOTE SESSIONS** Large sessions that are open to all in attendance and have no competing sessions. These sessions are used to set the tone and mood for the overall conference.

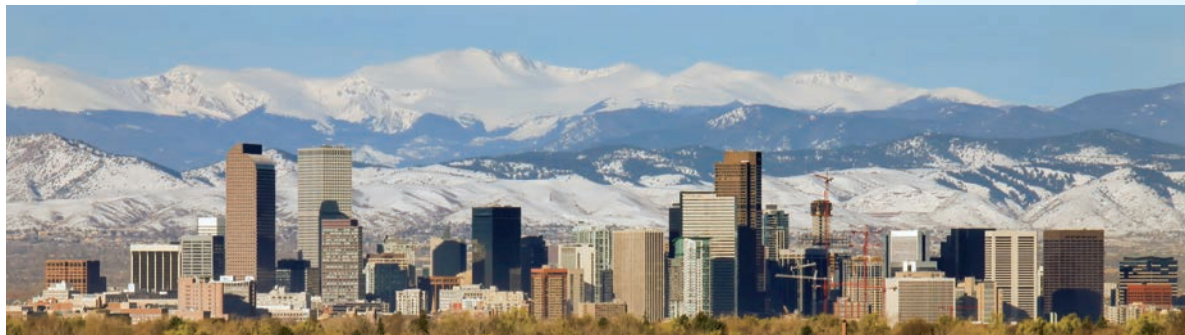
**BREAKOUT SESSIONS** Smaller sessions that are offered concurrently within the event. Sessions are on a first-come, first-served basis. Attendees should identify multiple sessions to attend during each time-frame in case their first choice is at capacity.

**LUNCH & LEARNS** Similar to Breakout Sessions, but in a more relaxed setting. Attendees should bring a box lunch (available in the Colorado Foyer) and will eat while they learn. A great opportunity for networking and discussion.

**POSTER PRESENTATIONS** Display of reports and papers accompanied by the author and/or researcher. These sessions are dedicated to discussion of the poster between the presenter and the interested attendee(s) during specific times. At other times, posters can be viewed by attendees, but the presenter may not be available for discussion.



## EXPLORE DENVER



Welcome to Denver, where 300 days of sunshine, a thriving cultural scene, diverse neighborhoods and natural beauty combine for the world's most spectacular playground.

**SEE** A young, active city at the base of the Colorado Rocky Mountains, Denver's stunning architecture, award-winning dining and unparalleled views are all within walking distance from the pedestrian-friendly 16th Street Mall. Upscale shopping awaits in Cherry Creek, while Denver's eight professional sports teams entertain year-round.



**EAT** Denver is quickly gaining a reputation for its innovative young chefs and eclectic, diverse cuisine with a western flair. There are more than 2,000 restaurants in metro-Denver. The single greatest thing about Denver's thriving culinary scene is its dynamic visionaries, risk-takers and virtuosos – the chefs and restaurateurs who push the envelope, dare to be different and embrace an ever-changing food landscape. There's never been a better time to take a bite out of The Mile-High City.



**DO** Lined with 200 trees and 50,000 flowers, the festive, mile-long 16th Street Mall has 28 outdoor cafes and offers Denver's best people-watching. Renowned architect I.M. Pei designed the gray and pink granite pathway to resemble the pattern of a diamondback rattlesnake. After dark, horse-drawn carriages clatter up and down the Mall.

## KEYNOTE SPEAKERS

MONDAY, AUGUST 28

### Marijuana Legalization and Answers to Our “Drug Problem”



9:00 AM – 10:30 AM

**John F. Kelly, Ph.D.**

Elizabeth R. Spallin Associate Professor of Psychiatry in Addiction Medicine, Harvard Medical School

Emerging Research and Epidemiological Data

### Real Options for Legalization



3:00 PM – 4:00 PM

**Jonathan Caulkins, Ph.D.**

H. Guyford Stever Professor of Operations Research, Carnegie Mellon University, Heinz College

Governance, Federal Law and Emerging Policy

### Cannabis Legalization and Public Health



4:00 PM – 5:00 PM

**Hilary Karasz, Ph.D., M.A.**

Communications Program Manager and Public Information Officer, Seattle & King County

Public Health and Public Safety



4:00 PM – 5:00 PM

**Beau Kilmer, Ph.D.**

Co-director, RAND Drug Policy Research Center

Public Health and Public Safety

## KEYNOTE SPEAKERS

TUESDAY, AUGUST 29

### Regulatory Issues and Marijuana Legislation from a State Perspective



9:00 AM – 10:00 AM

**John Carnevale, Ph.D.**

President, Carnevale Associates, LLC

Regulatory Issues



9:00 AM – 10:00 AM

**Rick Garza**

Director, Washington State Liquor and Cannabis Board

Regulatory Issues

### Regulatory Issues and Marijuana Legislation from a State Perspective



9:00 AM – 10:00 AM

**Lewis Koski, M.B.A.**

Co-founder and Senior Director, Freedman & Koski, Inc.

Regulatory Issues

### The State of the Science of Cannabis



2:15 PM – 3:15 PM

**Susan Weiss, Ph.D.**

Director, Division of Extramural Research, National Institute on Drug Abuse

Science of Cannabis

WEDNESDAY, AUGUST 30



### Let's Stop Asking, "Should We Legalize Marijuana?"

10:15 AM – 11:15 AM

**Andrew Freedman, J.D.**

Co-founder and President, Freedman & Koski, Inc.

Emerging Research and Epidemiological Data

## DAILY SCHEDULE

### SUNDAY, AUGUST 27

2:00 PM – 6:00 PM **Registration Open**

Colorado Foyer

### MONDAY, AUGUST 28

8:00 AM – 4:00 PM **Registration Open**

Colorado Foyer

9:00 AM – 10:30 AM **Marijuana Legalization and Our Answers to Our “Drug Problem”**

**WELCOME AND  
OPENING KEYNOTE**

Colorado Ballroom

John F. Kelly, Ph.D., Harvard Medical School

*Emerging Research and Data*

The remedy for our “drug problem” may be choosing the “least worst” solution. The rapidly changing social and policy landscape surrounding cannabis — both nationally and internationally — will solve some problems but will also create new challenges. Examine policy positions ranging from the most restrictive prohibitions through the full commercialized sale of cannabis for recreational use, and discusses the pros and cons of each.

9:00 AM – 6:30 PM **Poster Presentations Open**

Colorado Foyer

10:30 AM – 10:45 AM **Coffee Break**

Colorado Foyer

11:00 AM – 12:00 PM **The Policy Implications of Internet Behaviors Among Cannabis Dispensary Staff**

**BREAKOUT A1**

Mt. Harvard

Nicholas Peiper, RTI International

*Emerging Research and Epidemiological Data*

Direct-to-consumer advertising and health claims about cannabis have become widespread on the Internet and cannabis dispensaries have a strong presence on social networks like Twitter that provide an unregulated platform for dispensary staff to rapidly communicate with large consumer populations. Three studies investigated patterns of Internet behavior among dispensaries and budtenders in California with implications for development and validation of measures for the public health surveillance of Internet behaviors among the cannabis industry.

11:00 AM – 12:00 PM **Marijuana Policy Decisions: Municipal Regulatory Practices for Minimizing Youth Harms**

**BREAKOUT A2**

Mt. Princeton

Gilbert Mora, Behavioral Health Services, Inc.; Monica Sanchez, Los Angeles County Office of Education

*Governance, Federal Law and Emerging Policy*

What is the impact of legalized commercialization of cannabis on health, treatment, prevention and education systems? Get a comprehensive review of the potential impacts of various marijuana policy options based on collaborative input from stakeholders including educators, community groups, public health professionals, medical practitioners, business affiliates and legislators. Review proven strategies that limit youth access to marijuana through regulatory policy best practices relating to marijuana storefront dispensaries, personal use and commercial cultivation and delivery services.

## DAILY SCHEDULE

MONDAY, AUGUST 28

11:00 AM – 12:00 PM **Legalization Across the Continent: Searching for Successful Regulatory Models**

**BREAKOUT A3** Adam Orens, Marijuana Policy Group

Mt. Columbia *Regulatory Issues*

Different approaches to legalization are emerging as new markets develop across the U.S., Canada and Mexico as western U.S. cannabis markets mature. Examine how different regulatory approaches yield different benefits, drawbacks and regulatory outcomes as we focus on scope of legalization, jurisdictional approach the path to legalization and the effects of implementation deadlines and rulemaking timelines. Will a “successful” model emerge? Find out.

11:00 AM – 12:00 PM **Seeing Through the Smoke: Identifying and Engaging Cannabis Users (Advances in Cannabis Screening and Brief Intervention)**

**BREAKOUT A4**

Mt. Yale

Win Turner, Center for Behavioral Health Integration; Monica Wilke-Brown, Iowa Health Department

*Prevention*

Focus on two new public health strategies – the Cannabis Integrated Screener (CIS), a 16-item tool including frequency, method and reasons for use and the consequences of use and the Cannabis Brief Negotiated Interview (CBNI), a structured motivational enhancement intervention designed to quickly engage risky users in a non-judgmental conversation to develop internal discrepancies and promote change.

11:00 AM – 12:00 PM **Using Data to Develop a Public Health Approach to Prevent Drugged Driving: Spotlight on Marijuana**

**BREAKOUT A5**

Mt. Oxford

Richard Landis, Advocates for Human Potential; Aaron Williams, National Council for Behavioral Health (moderator)

*Public Health and Public Safety*

Despite the increased risk to public safety, little data on the incidence and prevalence of drugged driving exists, particularly as it relates to driving and marijuana use. There is no legal or scientific agreement about what constitutes impairment or how poly-drug use impacts impairment. As more states legalize or decriminalize recreational and medical marijuana, the need for a clearer picture of drugged driving becomes more urgent. The newly created National Minimum Dataset (NMDS) will also be presented.

11:00 AM – 12:00 PM **Update on Colorado’s Marijuana Impaired Driving Law and Policy**

**BREAKOUT A6**

Maroon Peak

Michael Elliott, MRE Legal Consulting; Glen Davis, Colorado Department of Transportation; Tamara Parris, Central East ATTC (moderator)

*Regulatory Issues*

In light of changes in cannabis policy, Colorado has deliberated extensively on how to best prevent impaired driving. The history of the policy deliberation, current law, how that law is working and how public education and other methods of prevention are contributing to reduce marijuana impaired driving will be examined.

## DAILY SCHEDULE

MONDAY, AUGUST 28

11:00 AM – 12:00 PM **Recovery from Cannabis Problems in the United States**

**BREAKOUT A7** John F. Kelly, Ph.D., Harvard Medical School

Mt. Wilson *Emerging Research and Epidemiological Data*

Despite increased access to and availability of cannabis combined with lower prices, little is known about how widespread exposure to cannabis will affect individuals' health and well-being, and even less is known about recovery from cannabis problems. Explore findings from a national sample of adults in the U.S. who have resolved a significant cannabis problem and compare prevalence, characteristics and recovery pathways to those resolving alcohol and other drug problems.

**LUNCH & LEARN SESSIONS:** Pick up your box lunch from the Colorado Foyer and proceed to a Lunch & Learn Session. Please enjoy your lunch in a more relaxed and interactive learning environment.

12:15 PM – 1:15 PM **The Science/Policy Gap: Unexpected Trends During Recreational Marijuana's Brief History and Emerging Challenges**

**LUNCH & LEARN ML1**

Maroon Peak

John Carnevale, Carnevale Associates LLC; Jonathan Caulkins, Carnegie Mellon University, Heinz College

*Governance, Federal Law and Emerging Policy*

The science/policy gap created by passage of recreational marijuana laws has resulted in unexpected trends and challenges. Where does the gap pose the most serious threat to effective implementation of practical regulations? Explore the sometimes-surprising results of changing policies on cannabis and examine emerging trends.

12:15 PM – 1:15 PM **Lessons from 10 Years of Cannabis Screening and Interventions in Colorado**

**LUNCH & LEARN ML2**

Melissa Richmond, OMNI Institute; Carolyn Swenson, Peer Assistance Services, Inc.

Mt. Yale

*Prevention*

Screening, brief intervention and referral to treatment (SBIRT) is an established approach to identify individuals who use substances at risky levels to intervene early and prevent negative health consequences. To better understand cannabis use in a changing landscape, SBIRT Colorado conducted studies examining data on individuals who had been SBIRT-screened. Learn the findings from its research and lessons learned. The session also addresses needed research areas, including definitions of risk level based on quantity and frequency of use and cannabis' impact on health.

12:15 PM – 1:15 PM **Edible Policies in Four States/New Product Trial, Edible Use and Unexpected Highs**

**LUNCH & LEARN ML3**

Jane Allen and Camille Gourdet, RTI International

Mt. Oxford

*Public Health and Public Safety*

Edible cannabis products accidentally consumed by children or overconsumed by adults has resulted in increased calls to poison control centers and emergency room visits. In response, Colorado and Washington, followed by Oregon and Alaska, have passed laws that specifically regulate manufacturing, packaging and labeling of retail marijuana edible products, but regulatory gaps remain that must be explored to protect public health. Examine existing policies that restrict the manufacturing, packaging and labeling of edible products.

## DAILY SCHEDULE

MONDAY, AUGUST 28

12:15 PM – 1:15 PM **Indirect Impacts of City Medical Marijuana Regulations on Adolescent Marijuana Use: Investigating Perceived Risk and Perceived Accessibility of Marijuana Use as Mediating Factors**  
**LUNCH & LEARN ML4**

Mt. Harvard

Katie Branson, UCLA Fielding School of Public Health

### *Public Health and Public Safety*

Policy approaches to control legal substances are key to preventing and reducing use by young people, but very little is known about the impact of city-level medical marijuana regulations on youth marijuana use. Knowing how city policies regulating cannabis might change middle and high school students' perceptions of risk and accessibility. How these factors influence students' marijuana use will help find the balance between accommodating adult access to marijuana and minimizing negative impact on youth.

12:15 PM – 1:15 PM **Marijuana and Pregnancy: A Common Question with a Complex Answer**  
**LUNCH & LEARN ML5**

Mt. Columbia

Kaylin A. Klie, Denver Health and Hospital

### *Science of Cannabis*

With legalization of medical and recreational marijuana increasing across the country, use while pregnant, breastfeeding and mothering has become a concern for women and their health care providers. Review recommendations for screening pregnant women for marijuana use; explore current data regarding maternal, fetal and neonatal impact of marijuana in pregnancy and breastfeeding; and discuss the current medical/legal climate of screening, testing and reporting marijuana use in pregnant and breastfeeding women.

12:15 PM – 1:15 PM **A Fireside Chat: How Digital Tools Can Help with Prevention and Treatment**  
**LUNCH & LEARN ML6**

Mt. Princeton

Tom Hill, National Council for Behavioral Health; Scott Cousino and Chuck Tepper, MyStrength

### *Prevention*

Whether cannabis is used for medical or recreational purposes, it is important to educate the public about substance use disorders and how to prevent them. Digital tools are confidential, available 24/7 and grounded in empirically-supported findings. Learn about digital resources available on the web and via apps and tools to address chronic pain without developing opioid dependence.

1:45 PM – 2:45 PM **The Impacts of Marijuana Legalization in Washington State**

**BREAKOUT B1**

Maroon Peak

Steven Freng and Alison Wassall, Northwest High Intensity Drug Trafficking Area (NW HIDTA)

### *Emerging Research and Epidemiological Data*

A data analysis conducted by Northwest High Intensity Drug Trafficking Area addresses the impact of legalization and commercialization of legalized cannabis possession and production in Washington state. The outcomes of legalization to date focus on the implications for current and future policy decisions.

## DAILY SCHEDULE

MONDAY, AUGUST 28

1:45 PM – 2:45 PM **What Government Entities Can Learn from Colorado’s Marijuana Regulatory Model**

**BREAKOUT B2** Michael Elliott, MRE Legal Consulting

Mt. Columbia *Governance, Federal Law and Emerging Policy*

Colorado led the nation in cannabis reform. Learn from their experience on issues of safety, how to keep cannabis businesses accountable, taxation, preventing teen use, diversion to other states and more. Major aspects of Colorado’s regulatory program will be addressed, comparing and contrasting it to other states’ regulatory programs.

1:45 PM – 2:45 PM **The Role of Perception of Harm in Youth Marijuana Prevention**

**BREAKOUT B3** Kristen Quinlan, Education Development Center; Maria Valenti, SAMHSA’s Center for the Application of Prevention Technologies (CAPT)

Mt. Harvard

*Prevention*

Perception of harm (PoH) is an individual’s assessment of the probability that a behavior will result in harmful consequences, but little is known about the role of PoH in preventing youth use of marijuana prevention. A deeper understanding of how PoH operates in evidence-based marijuana prevention is needed to establish effective, evidence-based prevention strategies.

1:45 PM – 2:45 PM **Live Free or Die? Finding Marijuana Middle Ground in Extreme Times — Lessons from New Hampshire**

**BREAKOUT B4**

Mt. Princeton

Traci Fowler, TF Consulting; Kate Frey, New Futures; Edgar Vargas, Northeast and Caribbean ATTC (moderator)

*Public Health and Public Safety*

Evolving marijuana policies have generated extreme points of view that often can’t find middle ground. Advocates in New Hampshire successfully navigated a middle ground by maintaining a focus on youth, working in a bi-partisan way and engaging unlikely allies. Learn how they successfully used locally generated data, balanced public health and social equality, built public health and prevention coalitions and review the homegrown educational document that helped them reach a middle ground.

1:45 PM – 2:45 PM **Consumer Protection and Legal Marijuana in Denver**

**BREAKOUT B5** Danica Lee, Public Health Inspections Division, Denver Environmental Health

Mt. Yale

*Regulatory Issues*

Consumer protection questions and concerns surround products made by the emerging legal cannabis industry in Colorado. Since 2010, the Denver Department of Environmental Health has regulated cannabis products by conducting consumer protection inspections and public health investigations. As the first health authority regulating cannabis products, Denver has a wealth of data and insight into the challenges of administering this unique regulatory program, including consumer protections concerns, industry characteristics contributing to these concerns, regulatory gaps and communication needs.



## DAILY SCHEDULE

MONDAY, AUGUST 28

2:45 PM – 3:00 PM **Break**

Colorado Foyer

3:00 PM – 4:00 PM **Real Options for Legalization**

**KEYNOTE** Jonathan Caulkins, Ph.D., Carnegie Mellon University, Heinz College

Colorado Ballroom *Governance, Federal Law and Emerging Policy*

Legalizing cannabis responsibly requires creating and preserving policy options. There is much we don't know. How will it affect alcohol abuse, tobacco smoking, opioid overdose or use of other drugs? How do doses over 250 milligrams of THC daily affect overall health? Will the federal government legalize it and when? Will cannabis products be exempted from FDA regulation under the Food, Drug and Cosmetics Act? Will industry lobbyists or public health advocates have more clout with legislators and regulators? We will evaluate the societal goals and strategy of legalization from a real options perspective, leading to several concrete recommendations for how legalization could be managed more prudently than it is today.

4:00 PM – 5:00 PM **Cannabis Legalization and Public Health**

**KEYNOTE** Hilary Karasz, Ph.D., M.A., Seattle & King County; Beau Kilmer, Ph.D., RAND Drug Policy Research Center

Colorado Ballroom

*Public Health and Public Safety*

Dramatic changes in the cannabis policy landscape – especially in the Western Hemisphere – continue to drive debate about the consequences of legalization. As restrictions on cannabis ease worldwide, the impact on public health and safety remains a hot topic. Explore recent changes as we focus on 10 design choices that will shape the consequences of cannabis policy change: production, profit motive, promotion, prevention, policing and enforcement, penalties, potency, purity, prices and permanency.



## DAILY SCHEDULE

MONDAY, AUGUST 28

5:00 PM – 6:30 PM

### NETWORKING RECEPTION AND POSTER PRESENTATIONS

Colorado Foyer

Presenters will be available for discussion during this time.

## POSTER PRESENTATIONS

### Measuring the Social Climate for Cannabis Use in the U.S.

Matthew Farrelly, RTI International

Do people in states where cannabis is legal perceive the benefits and risks associated with use differently than those who live in states where it's not legalized? This study examines how the social climate around cannabis use and legalization may be evolving and determines the factors driving differences in social norms.

### Do Medical Marijuana Dispensaries Increase Car Crashes? Evidence from Oregon

Steven Davenport, Pardee RAND Graduate School

Many fear cannabis legalization will lead to increased impaired driving under the influence. But is it possible cannabis legalization may improve road safety instead? Traffic data from the Oregon Department of Transportation and data from both registered and unregistered marijuana dispensaries will help shed light on this critical issue.

### Synthetic Cannabinoids and Cannabis: An Exploratory Study

Bryce Pardo, BOTEC Analysis

Increasing use of synthetic cannabinoids (SCRA) is a public health concern, but little is known about the relationship between SCRA and cannabis. Does greater access to cannabis have a negative impact on exposure to and use of SCRA? This empirical assessment of consumer behavior revealed a preference for cannabis over SCRA.

### Drugs Kill Dreams: Reducing Youth Access to Marijuana

Jennifer Harris, Behavioral Health Services, Inc.

With greater access to marijuana, there is a decreased perception of harm associated with its use and increased social acceptance among youth. We need to shift the social norm in our communities and decrease youth access through strategic planning, education and advocacy. The Strategic Prevention Framework (SPF) can help you create a plan of action.

### Primary and Non-Primary Marijuana Using Youth in Recovery: Outcomes Differences

Rachel Gonzales-Castaneda, UCLA Integrated Substance Abuse Programs

Little is known about the psychosocial and behavioral impacts of cannabis use among youth who are receiving substance use disorder (SUD) treatment. Explore differences in psychosocial and behavioral outcomes at treatment discharge between youth in treatment for cannabis compared to youth in treatment for other substances.

## DAILY SCHEDULE

MONDAY, AUGUST 28

### Vehicle Accidents Related to Marijuana Among U.S. High School Seniors

Steven Curry, Westat

Vehicle accidents are the leading cause of death among adolescents in the U.S. and there is evidence that marijuana-impaired driving may be increasing. Examine the frequencies of self-reported vehicle accidents that occurred after smoking marijuana and the research that will inform policy and law, personal behavior and future research.

### Perceived Harmfulness of Marijuana Relative to Alcohol

Jane Allen, RTI International

"If marijuana were as widely available as alcohol, which do you think would be more harmful to society?" That's just one question on RTI International's national marijuana survey. Data from RTI's Oregon and national marijuana surveys examined characteristics associated with perceptions of the relative harmfulness of cannabis and alcohol.

### Drugged Driving in a National Sample of Marijuana Users

Lauren Dutra, RTI International

The impact of legalization of cannabis and other influences on trends in drugged driving has not been investigated. We must understand the factors associated with driving under the influence of marijuana to prevent it. This national survey examines differences in marijuana-related attitudes, beliefs, knowledge and behavior influenced by cannabis legalization

### The Relationship Between Cannabis Use and Youth Anti-Social Behavior

Ivy DeFoe, University of Pennsylvania

Rule-breaking and anti-social behavior have been linked with adolescent cannabis use, but does cannabis use predict conduct problems or do conduct problems predict cannabis use? The question becomes more critical as trends toward cannabis legalization lead to greater access among adolescents. This four-year longitudinal study examines cannabis use and conduct problems in adolescents ages 11-17.

### Relative Interest in Marijuana Content Reflected Through Digital Resources

Scott Jones, IQ Solutions

Marijuana-topic Internet search and website data can provide a critical snapshot of public interest. This evaluation of general Internet searches, specific websites, social media and blogs will show how interests have changed over time, what potential effects public health messaging has had on these interests and possible future impact.

### Non-Medical Versus Medical Marijuana Use Among Three Age Groups of Adults

Namkee Choi and Diana DiNitto, University of Texas at Austin

Increased medical and non-medical use across demographic groups makes understanding factors associated with their use more important than ever. This study focuses on the association of substance use and mental disorders, health conditions and pain interference in three age groups of adults — 18-29, 30-49, and 50+.

## DAILY SCHEDULE

TUESDAY, AUGUST 29

8:00 AM – 4:00 PM	<b>Registration Open</b>	Colorado Foyer
9:00 AM – 10:00 AM	<b>Regulatory Issues and Marijuana Legislation from a State Perspective</b> <b>KEYNOTE</b> Colorado Ballroom	John Carnevale, Ph.D., Carnevale Associates, LLC (moderator); Rick Garza, Washington State Liquor and Cannabis Board; Lewis Koski, M.B.A., Freedman & Koski, Inc. <i>Regulatory Issues</i> This moderated panel will discuss the challenges governments face when developing and implementing contemporary cannabis policy that commercializes an industry that was largely unregulated and illegal in advance of their efforts. Panelists will share their thoughts on lessons learned and the expansion of legalized cannabis along with their perspective on the future of cannabis policy.
9:00 AM – 11:00 AM	<b>Poster Presentations Open</b>	Colorado Foyer
10:00 AM – 10:30 AM	<b>Coffee Break and Poster Presentations</b> Colorado Foyer	Presenters will be available for discussion during this time. See page 16-17 for poster descriptions.
10:30 AM – 11:30 AM	<b>The Collaborative Path to Packaging and Labeling Standards</b> <b>BREAKOUT C1</b> Mt. Harvard	Jordan Wellington and Chloe Grossman, Vicente Sederberg LLC <i>Governance, Federal Law and Emerging Policy</i> Why is it important to create national standards for cannabis packaging and labeling? A national stakeholder working group conducted a survey and combined the results with extensive research into FDA and other best practices to create a white paper detailing best practices and model regulations. Learn the theories behind why the work is important and some of the policy developments resulting from the project.
10:30 AM – 11:30 AM	<b>Overview of State Marijuana Legalization Policy: Implications for Public Health</b> <b>BREAKOUT C2</b> Mt. Columbia	Gillian Schauer, Centers for Disease Control and Prevention Foundation; Mary Segawa, Washington State Liquor and Cannabis Board; Jay Butler, Association of State and Territorial and Health Officials Alaska Department of Health and Social Services, Division of Public Health; Andy Baker-White, Association of State and Territorial Health Officials <i>Public Health and Public Safety</i> Explore the public health and safety implications of cannabis legalization with representatives of states that have already implemented legislation. Panelists will share first-hand experiences and lessons learned, including an analysis of public health-related policy elements across the eight states with legal recreational/adult marijuana use, policies Washington state has put in place to protect public health, policy challenges and lessons learned from Alaska and emerging policy areas to watch with consideration for the protection of public health and safety as marijuana legalization policies continue to evolve.  *Continue the conversation during the Lunch & Learn at 11:45 AM

## DAILY SCHEDULE

TUESDAY, AUGUST 29

- 10:30 AM – 11:30 AM  
**BREAKOUT C3**  
Mt. Princeton
- Harmonized Standards, Regulation, Quality Management and Public Health**  
Jeremy Applen, ASTM International; Diana Padilla, Northeast and Caribbean ATTC (moderator)  
*Regulatory Issues*  
The lack of standards and regulations for cannabis producers, manufacturers and laboratories increases the risk of adulterated or misbranded products reaching consumers. Explore current issues in cannabis production, manufacturing and testing and how collaboration between regulatory, quality and public health professionals can advance harmonization, reduce the potential for adverse events and facilitate public health planning and policy development.
- 
- 10:30 AM – 11:30 AM  
**BREAKOUT C4**  
Mt. Oxford
- Implementing Retail Marijuana Legalization: Public Health's Role in Implementation of Prevention and Education Efforts Following Legalization of Retail Marijuana**  
Shannon Brietzman, Health Management Associates  
*Prevention*  
After a ballot initiative or legislation to legalize retail marijuana has passed, state agencies begin the complex process of implementation. Considerations include regulatory and programmatic needs to ensure safe and responsible adult use while preventing harm to vulnerable populations like children and adolescents. This overview of Colorado's experience creating and implementing a prevention and education program provides lessons learned, including making data-driven decisions, engaging diverse stakeholders, collaborating with state and local agencies and developing effective education campaigns.
- 
- 10:30 AM – 11:30 AM  
**BREAKOUT C5**  
Maroon Peak
- Endocannabinoids: Defining the Health in Public Health Impact**  
Jenny Wiley, RTI International  
*Science of Cannabis*  
Medicinal use of cannabis spans hundreds of years, yet only in the last several decades have scientists started to unravel the biological mechanisms underlying the therapeutic and intoxicating effects of this plant. This overview of the endogenous system through which it acts focuses on the brain. Plant-based cannabinoids contained in cannabis will be distinguished from endocannabinoids contained naturally in the body and synthetic cannabinoids. Understanding these dynamics will improve the impact on public health.  
\*Continue the conversation during the Lunch & Learn at 11:45 AM.
- 
- 10:30 AM – 11:30 AM  
**BREAKOUT C6**  
Mt. Yale
- Marijuana Use, Marijuana Use Disorders and Related Problems Among Older Adults**  
Namkee Choi and Diana DiNitto, University of Texas at Austin  
*Science of Cannabis*  
As more older adults use cannabis, an investigation of its consequences was conducted using the 2012-2013 National Epidemiologic Survey on Alcohol and Related Conditions and the 2008-2012 National Survey on Drug Use and Health. The results of this study provide much-needed insight into use patterns of adults 50+. Since more older adults are expected to use marijuana, care is needed in suggesting medical cannabis, screening for cannabis-related problems and ensuring those with problems get help.

## DAILY SCHEDULE

TUESDAY, AUGUST 29

**LUNCH & LEARN SESSIONS:** Pick up your box lunch from the Colorado Foyer and proceed to a Lunch & Learn Session. Please enjoy your lunch in a more relaxed and interactive learning environment.

- 11:45 AM - 12:45 PM  
**LUNCH & LEARN TL1**  
Mt. Columbia
- Overview of State Marijuana Legalization Policy: Implications for Public Health**  
Gillian Schauer, CDC Foundation & Andy Baker-White, Association of State and Territorial Health Officials (moderators); Norman Birenbaum, Rhode Island Department of Business Regulation; Jay Butler, Alaska Department of Health and Social Services, Division of Public Health; Randy Mayer, Iowa Department of Public Health; Mary Segawa, Washington State Liquor and Cannabis Board; Daniel Vigil, Marijuana Health Monitoring and Research Program (panelists)
- Public Health and Public Safety*
- Explore the public health and safety implications of cannabis legalization with representatives of states that have already implemented legislation. (See full description on page 18.)
- \*This is a continuation of the Breakout Session at 10:30 AM.
- 
- 11:45 AM - 12:45 PM  
**LUNCH & LEARN TL2**  
Mt. Wilson
- Effect of Enrollment in the New Mexico Medical Cannabis Program on Prescription Opioid Use in Chronic Pain Patients**  
Sarah Stith and Jacob Vigil, University of New Mexico
- Public Health and Public Safety*
- How does enrollment in a U.S. state-authorized Medical Cannabis Program (MCP) affect prescription opioid consumption in people with chronic pain? Despite higher initial use, a pragmatic retrospective cohort study conducted in New Mexico indicates that one year after enrollment, MCP patients reported no cannabis-related side-effects, significant pain reduction and improved quality of life, social life and activity levels.
- 
- 11:45 AM - 12:45 PM  
**LUNCH & LEARN TL3**  
Mt. Princeton
- Mobilizing and Engaging Stakeholders for Community Change**  
Cory Mashburn, Somerville Office of Prevention
- Public Health and Public Safety*
- Youth cannabis use is a growing problem throughout the United States and many states with legalized use or legalized medical marijuana programs have trouble gaining support from key stakeholders to assist in prevention efforts. Learn how to make a case for prevention programs, intervention efforts and policy change using readily available local health data. At this interactive session, you'll examine strategies to build capacity and share local health data with key stakeholders within your community.
- 
- 11:45 AM - 12:45 PM  
**LUNCH & LEARN TL4**  
Mt. Oxford
- Meet the Regulators: A Deep Dive into Marijuana Regulations**  
John Carnevale, Carnevale Associates LLC; Rick Garza, Washington State Liquor and Cannabis Board; Lewis Koski, Freedman & Koski, Inc.
- Regulatory Issues*
- Explore some of the challenges regulators faced in implementing cannabis regulations in their states. Learn first-hand some of the thornier regulatory matters confronted by two state regulators and ask the questions you need to know.

## DAILY SCHEDULE

TUESDAY, AUGUST 29

- 11:45 AM - 12:45 PM **Endocannabinoids: Defining the Health in Public Health Impact**  
**LUNCH & LEARN TL5** Jenny Wiley, RTI International  
 Maroon Peak *Science of Cannabis*  
 Medicinal use of cannabis spans hundreds of years, yet only in the last several decades have scientists started to unravel the biological mechanisms underlying the therapeutic and intoxicating effects of this plant. This overview of the endogenous system through which it acts focuses on the brain. (See full description on page 19.)  
 \*This is a continuation of the Breakout Session at 10:30 AM..
- 
- 1:00 PM - 2:00 PM **Marijuana in Colorado: Marijuana Use and Health Effects Data**  
**BREAKOUT D1** Daniel Vigil, Colorado Department of Public Health and Environment  
 Mt. Harvard *Emerging Research and Epidemiological Data*  
 When recreational marijuana sales began in Colorado in 2014, state health officials began monitoring trends in marijuana use and adverse health effects among the population who chose to consume. What data sources were available to accomplish these tasks? How were trends compared and interpreted without baseline marijuana use data prior to 2014? The Colorado Department of Public Health and Environment shares three years' experience collecting and analyzing cannabis use-specific data.
- 
- 1:00 PM - 2:00 PM **Navigating Youth Prevention in the Age of Legal Marijuana**  
**BREAKOUT D2** Tara Dunn, Colorado Department of Public Health and Environment; Jess Neuwirth, State of Colorado; Kim-Monique Johnson, Training and Practice Implementation Institute (moderator)  
 Mt. Princeton *Prevention*  
 The Colorado Department of Public Health and Environment launched its youth cannabis prevention campaign, Protect What's Next, aimed at Colorado youth ages 12-20. It was built on research indicating the most compelling reason for youth not to use cannabis was that it could prevent them from reaching their immediate goals. A mix of digital strategies promotes pro-social, positive youth engagement while delivering accurate information on laws and health effects. Parents and trusted adults provide practical tips to encourage conversations with youth.
- 
- 1:00 PM - 2:00 PM **Supporting Medical Cannabis with a Cannabis Dispensing Pharmacist**  
**BREAKOUT D3** Melani Bersten, Minnesota Medical Solutions LLC  
 Maroon Peak *Public Health and Public Safety*  
 Inadequate education and awareness directly impacts the overall quality of patient care in cannabis dispensaries. Abuses in dosage and use occur all too often. Education surrounding common cannabis drug interactions and side-effects is imperative combined with specific institutional policies for all members of the health care team, including methods of supporting medical cannabis patients. Implicit in this call to action is a respect for cannabis as a medicine and support of safe and effective self-medication for cannabis patients.

## DAILY SCHEDULE

TUESDAY, AUGUST 29

1:00 PM - 2:00 PM **Cannabis Use Disorder: Outcomes and Treatment**  
**BREAKOUT D4** Thomas E. Freese, University of California, Los Angeles; Aaron Williams, National Council  
 Mt. Oxford for Behavioral Health (moderator)

*Science of Cannabis*

Approximately one out of 12 cannabis users in the U.S. will develop cannabis use disorder (CUD). A current NIDA-funded investigation of functional outcomes – health, cognition and psychosocial – associated with cannabis use in individuals with CUD will focus on effects associated with early and chronic use, including school and work performance, medical conditions, cognition, quality of life and psychiatric symptoms. Evidence-based behavioral and pharmacological treatment approaches for CUD will also be outlined.

1:00 PM - 2:00 PM **How Did We Get Here? History of State Cannabis Programs and Colorado Close-Up**  
**BREAKOUT D5** Karmen Hanson, National Conference of State Legislatures

Mt. Columbia *Regulatory Issues*

With 20 years of experience regulating cannabis for medical and adult use, laws and regulations are constantly changing and, ideally, improving. Learn what other states have done, through both the voter-led initiative and legislative process lenses, from national and Colorado cannabis policy experts.

2:00 PM - 2:15 PM **Break** Colorado Foyer

2:15 PM - 3:15 PM **The State of the Science of Cannabis**  
**KEYNOTE** Susan Weiss, Ph.D., National Institute on Drug Abuse

Colorado Ballroom *Science of Cannabis*

Many of the laws around cannabis are rapidly changing, as are attitudes towards cannabis use. More research is needed, but we know that cannabis is associated with specific harms and many are exacerbated in users who start young and use often. Understanding the state of the science of cannabis provides a better understanding of how cannabis works to exert its diverse effects. We'll also identify critical research needs and opportunities, including those stemming from changing cannabis policies.



## DAILY SCHEDULE

WEDNESDAY, AUGUST 30

8:00 AM – 11:30 AM **Registration Open**

Colorado Foyer

9:00 AM – 10:00 AM **Public Health Considerations for Legalized Marijuana Use**

**BREAKOUT E1**

Mt. Yale

Cynthia Hallett, American Nonsmokers' Rights Foundation; Aaron Williams, National Council for Behavioral Health (moderator)

*Public Health and Public Safety*

Despite public awareness that tobacco secondhand smoke (SHS) is harmful, many people still assume that marijuana SHS is benign. Despite evidence of it causing acute cardiovascular harm, lack of information about the constituents of marijuana SHS is frequently mistaken for evidence that it is harmless, despite chemical and physical similarity between marijuana smoke and tobacco smoke. Examine current local and state policy trends to regulate cannabis SHS like secondhand tobacco smoke by including it in smoke-free laws.

9:00 AM – 10:00 AM

**How State and Federal Revenue Tools Can Serve Cannabis Policy**

**BREAKOUT E2**

Mt. Princeton

Patrick Oglesby, Center for New Review

*Regulatory Issues*

Government tax writers are behind the curve in dealing with cannabis. Potential revenue tools to advance cannabis policy that should be explored will be discussed, include taxing by price, weight, canopy, fossil fuel consumption and THC content; government sales; and denial of tax deduction for advertising and marketing.

9:00 AM – 10:00 AM

**Cannabis and Congress: A Federal Policy Update**

**BREAKOUT E3**

Mt. Columbia

Andrew Kessler, Slingshot Solutions LLC

*Governance, Federal Law and Emerging Policy*

Changes to federal cannabis policies have taken a much slower pace than the states. In addition to the health and criminal justice aspects of cannabis use, federal policy focuses on research and trafficking as well. Over the last three years, we have seen more legislation introduced and champions of change are emerging in both chambers. Examine where we've been, where we are now and — most important — where we might be going in terms of federal involvement.

9:00 AM – 10:00 AM

**Teen Culture and Marijuana Use: Which Teens are At-Risk?**

**BREAKOUT E4**

Mt. Wilson

Jeff Jordan, Rescue: The Behavior Institute

*Prevention*

Public health campaigns in numerous states are working to educate and discourage underage cannabis use. Many recent campaigns try to reach all teens, assuming they are equally at risk. However, research shows this isn't the case. By understanding the reasons behind the decision to use or not to use cannabis, campaigns can specifically appeal to those who are most at risk. Peer crowd segmentation identifies the macro-level connections between peer groups that influence teen values, beliefs and health-related behaviors.

## DAILY SCHEDULE

WEDNESDAY, AUGUST 30

- 9:00 AM – 10:00 AM **Getting It Right from the Start: Local Regulation of Recreational Marijuana**  
**BREAKOUT E5** Alisa Padon, Public Health Institute; Lynn Silver, Public Health Institute  
 Mt. Harvard *Regulatory Issues*  
 How can communities use local law to reduce youth and problem use as recreational marijuana is legalized? What makes advertising and products attractive to children and youth and how can we address these issues? Answers to these questions and more to help you get it right from the start.
- 
- 9:00 AM – 10:00 AM **Counseling Parents and Teens About Marijuana in the Era of Legalization**  
**BREAKOUT E6** Seth Ammerman, Stanford Children’s Health  
 Maroon Peak *Prevention*  
 What do you say to parents and teens about marijuana use now that it’s legal in many states? Learn the current epidemiology of youth marijuana use in the U.S., the issues surrounding use of medical marijuana in the pediatric and adolescent age groups and the adverse outcomes of regular and heavy use of recreational marijuana by adolescents.
- 
- 10:00 AM - 10:15 AM **Coffee Break**  
 Colorado Foyer
- 
- 10:15 AM – 11:15 AM **Let’s Stop Asking, “Should We Legalize Marijuana?”**  
**CLOSING KEYNOTE** *Emerging Research and Epidemiological Data*  
 Colorado Ballroom Andrew Freedman, J.D., Freedman & Koski, Inc.  
 While the debate about marijuana legalization rages on at the federal level and in some states, for many it is already a reality. Medical cannabis is legal in 29 states and 65 million people now have access to recreational marijuana. These states need a strong public health voice. Look at legalization through the eyes of policymakers, including lessons learned, gaps in research and thoughts on how public health experts can guide good public policy.
- 
- 11:15 AM **Summit Concludes**

## NATIONAL CANNABIS SUMMIT PROGRAM PLANNING COMMITTEE

### CO-CHAIRS

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Beth Rutkowski, Pacific Southwest Addiction Technology Transfer Center\*

### COMMITTEE MEMBERS

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*Partner representatives are indicated with an asterisk (\*)*



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