ABOUT THE SUMMIT

TOPICS

- Public Safety
- Prevention and Education
- Emerging Research and Epidemiological Data
- Governance, Federal Law, and Emerging Policy
- Health Effects
- Regulatory Issues
The 2019 North American Cannabis Summit is an objective forum to address public health, science, and health equity in this time of expanding cannabis decriminalization, medical use, and legalization of recreational use.

The 2017 National Cannabis Summit, held in Denver, Colorado, was the first forum convened in the United States for a cross-state discussion of policy, regulatory, and governance issues related to cannabis legalization. Building on this event, the 2019 North American Cannabis Summit aims to continue the conversation around science, policy, and best practices in relation to the emerging legal cannabis marketplace. We are excited to hold the 2019 Summit in California, a state at the forefront of cannabis decriminalization and legalization.

The 2019 North American Cannabis Summit broadens our discussions to encompass the experience of not only U.S. state and local governments, but that of Canada and Mexico, as well. We expanded our scope to include relevant topics in the realm of public health, science, and health equity. Grounded in balanced and objective science-based perspectives, the 2019 Summit does not include an exhibit hall and has no ties to the cannabis industry. Follow the conversation on Twitter at #NACannabisConvo.
**TIPS FOR NAVIGATING THE 2019 SUMMIT**

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**WI-FI**—The hotel offers free Wi-Fi throughout the conference meeting areas. All rooms offer complimentary high-speed internet.

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**SOCIAL MEDIA**—We will be encouraging conversation on social media during the 2019 Summit. The 2019 Summit team will be live-tweeting during the conference, using the hashtag #NACannabisConvo. Feel free to share your social media handles during your presentation and throughout the 2019 Summit. We invite you to add to the online dialogue to enhance what is happening live at the 2019 Summit.

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Poster presentations will be available in the San Diego room starting at 9:00 a.m. on Monday, January 28.

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**FOR YOUR COMFORT**—This is a smoke-free facility and conference, but there are designated smoking areas. Your cooperation is appreciated.

Water bottles are available at designated water stations.

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**GETTING AROUND**—Enterprise Rent-A-Car (213-312-0070) is located at the Westin Bonaventure. You also can rent a car nearby at Hertz (213-625-0997). The nearest subway station is the Metro at 7th and Flower Street (0.3 miles south). The nearest train station is Union Station (1.6 miles northeast). Cabs are available at the hotel lobby entrance.

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**PARKING**—Onsite parking at the hotel is $15 hourly, $49 daily. (Parking is for vehicles up to 6 feet tall. For oversized vehicles, contact the hotel for parking alternatives.)
#NACANNABISCONVO

## PARTNER ORGANIZATIONS

### Advocates for Human Potential, Inc.

For over 30 years, Advocates for Human Potential, Inc. (AHP) 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, which include substance use disorders, mental health, and behavioral health policy. To learn more, visit [www.ahpnet.com](http://www.ahpnet.com)

### California Department of Public Health

With the legalization of commercial cannabis activity in California, California Department of Public Health (CDPH) has four roles: regulating the manufacture of cannabis-containing products, issuing medical marijuana identification cards, preventing secondhand smoke exposure from all smoking products including cannabis, and creating an initial public education campaign. To learn more, visit [www.cdph.ca.gov](http://www.cdph.ca.gov)

### Canadian Centre on Substance Use and Addiction

The Canadian Centre on Substance Use and Addiction (CCSA) is Canada's only agency with a legislated national mandate to reduce the harms of alcohol and other drugs on Canadians. A trusted counsel, CCSA provides national guidance to decision makers by harnessing the power of research, curating knowledge, and bringing together diverse perspectives. CCSA's strategic core functions include providing national leadership, building strategic partnerships, advancing research, and mobilizing knowledge. To learn more, visit [www.ccsa.ca](http://www.ccsa.ca)

### Tobacco-Related Disease Research Program

Tobacco-Related Disease Research Program (TRDRP) funds research that enhances understanding of tobacco use, prevention, and cessation; the social, economic, and policy-related aspects of tobacco use; and tobacco-related diseases in California. In 2018, TRDRP expanded its scope to fund research related to the impacts of cannabis use on tobacco-related disease. TRDRP is administered by the Research Grants Program Office at the University of California, Office of the President. TRDRP revenue is used to make grants for California scientists and community researchers to find better ways to prevent and reduce tobacco use and its related diseases. To learn more, visit [www.trdp.org](http://www.trdp.org)

### UCLA Integrated Substance Abuse Programs

UCLA Integrated Substance Abuse Programs (ISAP) conduct research, provide research and clinical training, and arrange treatment for substance use disorders in coordination with the Department of Psychiatry and Biobehavioral Sciences of the David Geffen School of Medicine at the University of California, Los Angeles (UCLA), and in affiliation with community-based treatment providers. ISAP efforts range from clinical trials of innovative behavioral therapies and pharmacotherapies to epidemiological studies. To learn more, visit [www.uclaisap.org](http://www.uclaisap.org)
Thank you to our generous sponsors for their support.

Advocates for Human Potential, Inc.
AHP is pleased to provide leadership, organizational infrastructure, and financial support to make possible the 2019 North American Cannabis Summit.

Columbia Care
The partner organizations would like to thank Columbia Cares for support of the opening networking reception at the 2019 North American Cannabis Summit.

Hilton Foundation
The partner organizations would like to thank the Conrad N. Hilton Foundation for its generous support of the health equity sessions at the 2019 North American Cannabis Summit.

National Council for Behavioral Health
The partner organizations would like to thank the National Council for Behavioral Health for its communications support of the 2019 North American Cannabis Summit.

Tobacco-Related Disease Research Program (TRDRP)
The North American Cannabis Summit was supported in part by a conference grant from the Tobacco-Related Disease Research Program, Research Grants Program Office of the University of California, Grant No. 27CX-0062.

UCLA Health
The partner organizations would like to thank the UCLA Health Cannabis Research Initiative for support of the opening networking reception at the 2019 North American Cannabis Summit.
The 2019 North American Cannabis Summit is a public health research conference focused on science, policy, and best practices. The 2019 Summit provides an objective forum for researchers, policymakers, public health professionals, and other stakeholders to share scientific evidence and expertise, with the goal of developing and implementing cannabis policy and practice that will lead to improved public health and health equity outcomes.

The goals of the 2019 Summit are to:

- Create a common understanding of the issues that policymakers, administrators, and other key stakeholders need to consider in response to the growing acceptance of cannabis.
- Describe lessons learned and best practices needed to address these issues at state, local, and organizational levels.

The 2019 Summit creates space for professionals who are grappling with rapidly evolving cannabis use laws at the local, regional, and federal level to join in rational, science-based conversations and information sharing.

At the 2019 North American Cannabis Summit, we value respectful dialogue on key issues and challenges in cannabis research, policy, and regulation. In an effort to support this, conference organizers are asking all attendees to follow these participation standards:

- To maintain transparency, all session participants are asked to briefly state their name, affiliation, and any potential bias or conflict prior to asking speakers or panelists a question.
- Session presentations and additional handouts are available online if the speaker has agreed to post them.
- All speakers have disclosed any conflicts of interest (COI) and will include identification of this in their opening statement.
- The only merchandise permitted for distribution at this event is that provided by sanctioned sponsors.
Westin Bonaventure
Hotel & Suites, 404 South Figueroa Street, Los Angeles, CA 90071

The Westin Bonaventure is located in downtown Los Angeles, at the heart of the city’s bustling business district. Near Union Bank and the U.S. Bank towers, the hotel also connects to the World Trade Center via a skyway. Close to the University of Southern California (USC), the Los Angeles Memorial Coliseum, Exposition Park and Shrine Auditorium, the National History Museum, the California African American Museum, and the California Science Center & IMAX theater.
SESSION TOPICS & TRACKS

Public Safety
- Prevention and Education
- Emerging Research and Epidemiological Data
- Governance, Federal Law, and Emerging Policy
- Health Effects
- Regulatory Issues

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 for the overall conference.

BREAKOUT SESSIONS: Smaller sessions that are offered concurrently throughout 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 & LEARN: Similar to Breakout Sessions but held in a more relaxed setting. Attendees should bring a lunch and will eat while they learn. These provide 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.

NETWORKING RECEPTION: A business-casual gathering for attendees to meet and network with other conference participants.

*Sessions related to the theme of Health Equity are noted in the schedule below the session title and track.

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# NACANNABISCONVO

## SCHEDULE-AT-A-GLANCE

### MONDAY, JANUARY 28

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<td>Continental Breakfast</td>
<td>California Foyer</td>
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<td>7:00 AM – 4:00 PM</td>
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<td>9:00 AM – 6:00 PM</td>
<td>Poster Presentations Open</td>
<td>San Diego</td>
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<td>9:00 AM – 9:30 AM</td>
<td>Welcome and Introductory Remarks</td>
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<td>Break and Poster Presentations</td>
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<td>4:30 PM – 6:00 PM</td>
<td>Networking Reception and Poster Presentations</td>
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### TUESDAY, JANUARY 29

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## TUESDAY, JANUARY 29 (CONTINUED)

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<td><strong>Concluding Remarks, Evaluation, and Adjourn</strong></td>
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## WEDNESDAY, JANUARY 30

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#NACANNABISCONVO
Master of Ceremonies

Monday – Wednesday, January 28 – 30

Dan Adams
Cannabis Reporter, The Boston Globe

MONDAY, JANUARY 28

Goodbye to the Old Guard: Legalization for the New Generation of Leaders
Health Equity

9:30 AM – 10:30 AM | Monday, January 28

Shaleen Title
Commissioner, Massachusetts Cannabis Control Commission

Please note: Keynote speaker bios are available online at NorthAmericanCannabisSummit.org/speakers-2
How Public Health Experts Can Shape the Future of Cannabis Policy

Governance, Federal Law, and Emerging Policy

3:30 PM – 4:30 PM  |  Monday, January 28

Andrew Freedman
Co-founder, Freedman and Koski, Inc.

Lewis Koski
Co-founder, Freedman and Koski, Inc.

Please note: Keynote speaker bios are available online at NorthAmericanCannabisSummit.org/speakers-2
Marijuana as Medicine: Can We See Past the Smoke?

Health Effects

9:00 AM – 10:00 AM | Tuesday, January 29

Igor Grant

Director of Psychiatry Chair and Director of San Diego Center for Medicinal Cannabis Research, University of California, San Diego

Cannabis and Opioids: What is the Role of Cannabis in the Evolving Opioid Epidemic

Emerging Research and Epidemiological Data

3:15 PM – 4:15 PM | Tuesday, January 29

Rosalie Pacula

Senior Economist, Co-Director of Drug Policy Research Center, RAND Corporation

Please note: Keynote speaker bios are available online at NorthAmericanCannabisSummit.org/speakers-2
Public Health Cannabis Monitoring and Surveillance in an Era of Legalization

Emerging Research and Epidemiological Data

9:00 AM – 10:00 AM | Wednesday, January 30

Gillian Schauer
Senior Consultant, Multi-State Collaborative on Cannabis and Public Health

Julia Dilley
Senior Research Scientist/Epidemiologist, Multnomah County and Oregon Public Health Division

Please note: Keynote speaker bios are available online at NorthAmericanCannabisSummit.org/speakers-2
KEYNOTE SPEAKERS

Wednesday, January 30—Public Health Cannabis Monitoring and Surveillance in an Era of Legalization (continued)

Hanan Abramovici
Manager and Senior Science Advisor, Office of Science and Surveillance, Cannabis Legalization and Regulation Branch, Health Canada, Ottawa

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

Althea Grant-Lenzy
Senior Science Officer, Deputy Director of Non-Infectious Diseases, Centers for Disease Control and Prevention

Please note: Keynote speaker bios are available online at NorthAmericanCannabisSummit.org/speakers-2
Wednesday, January 30 (continued)

Perspectives on Moving Forward: What’s Next Across North America?
Governance, Federal Law, and Emerging Policy

3:15 PM – 4:15 PM | Wednesday, January 30

Andrew Freedman
Co-founder, Freedman and Koski, Inc., U.S.A.

Manuel Ruiz de Chavez
President, Comisión Nacional de Bioética de México (National Bioethics Commission of Mexico)

Speaker TBA
Health Canada, Cannabis Legalization and Regulation Branch, Canada

Please note: Keynote speaker bios are available online at NorthAmericanCannabisSummit.org/speakers-2
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<td>Opening Keynote: Goodbye to the Old Guard: Legalization for the New Generation of Leaders</td>
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<tr>
<td>10:45 AM – 12:15 PM</td>
<td>Breakout A2: State Public Health Approaches to Public Education Messaging for Adult Cannabis Users</td>
<td>Hollywood</td>
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**Goodbye to the Old Guard: Legalization for the New Generation of Leaders**

Shaleen Title, Massachusetts Cannabis Control Commission

Commissioner Title was appointed in 2017 by the Massachusetts governor, treasurer, and attorney general to serve as one of five full-time commissioners of the Cannabis Control Commission, the independent state agency charged with regulating the legal marijuana industry.

**Enhancing the Standardized Field Sobriety Testing to Detect Cannabis Impairment**

Amy Porath and Doug Beirness, Canadian Centre on Substance Use and Addiction

This presentation focuses on the Finger-to-Nose (FTN) test as a supplement to the Standardized Field Sobriety Testing (SFST) battery in enabling law enforcement to assess driver impairment by cannabis.

**State Public Health Approaches to Public Education Messaging for Adult Cannabis Users**

- **Alaska’s Responsible Consumer Campaign**
  Eliza Muse, State of Alaska, Department of Health and Social Services
  Alaska’s Department of Health and Social Services developed an adult marijuana public education campaign to educate people about the law, promote responsible consumption among adults, and decrease marijuana-impaired driving.

- **Meg the Budtender: Colorado’s Responsible Use Campaign**
  Jessica Neuwirth, Colorado Department of Public Health and Environment
  The Colorado Department of Public Health and Environment’s adult marijuana public education social marketing campaign, Responsibility Grows Here, educates marijuana consumers about responsible, safe, and legal use in Colorado.

- **Public Health Considerations for Adult Cannabis Use**
  Gillian Schauer, National Institute on Drug Abuse
  This presentation provides an overview of health effects and other public health considerations that pertain to adult cannabis use and can complicate public education messaging to adult cannabis users.
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<th>Time</th>
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<th>Session Title</th>
<th>Presenter(s)</th>
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</table>
| 10:45 AM – 12:15 PM | BREAKOUT A3 | Avalon | Tailoring Cannabis Prevention Campaigns to Resonate with Diverse Communities, Including First Nations | Prevention and Education  
Adaptation of Prevention Strategies for First Nations  
David Sioui and Shantala Langevin, Yarha’  
Presenters will discuss culturally sensitive adaptations to the format and content of legalized cannabis training programs to address disparities and restore power and justice to First Nations people in Canada.  
Tailored Youth Prevention Campaigns for Diverse Communities  
Elaine Ishiara, APICAT for Healthy Communities  
This session describes the Washington Marijuana Prevention and Education Program’s process of community involvement and strategies to develop a culturally relevant and effective prevention education campaign. |
| 10:45 AM – 12:15 PM | BREAKOUT A4 | Beverly | Cannabis in Medical Education: Igniting the Conversation | Prevention and Education  
Laurent Elkrief, Philippe Simard, Didier Jutras-Aswad, Tara D’Ignazio, and Julien Belliveau, Université de Montréal  
A group of medical students, residents, and practicing physicians will discuss the current state of medical education on cannabis, presenting data from a new Canada-wide survey. |
| 10:45 AM – 12:15 PM | BREAKOUT A5 | Palos Verdes | Prevention and Intervention in the Current Environment | Prevention and Education  
Health Effects  
Prevention of Marijuana Misuse: In the Legal Zeitgeist  
Steve Sussman, University of Southern California  
The presenter will explore how a drug abuse prevention model focused on motivation, skills, and decision-making can be applied to today’s legal and easy-to-acquire cannabis products.  
Interventions for Adolescent Cannabis Misuse  
Denise Walker, University of Washington  
Cannabis use poses unique risks to adolescents. This talk will review adolescent cannabis disorder treatments and consider how legalization might be crafted to benefit this population. |

Please note: Presenter bios are available online at http://bit.ly/NACS2019Presenters
### 10:45 AM – 12:15 PM
#### BREAKOUT A6
**Beaudry A**

| Patterns of Cannabis Use Among Youth in the Context of Legalization: Measuring and Interpreting Sales Data |
| Emerging Research and Epidemiological Data |
| **Estimating Cannabinoids Sold from Messy Marijuana Sales Data** |
| Jason Williams, Alcohol and Drug Abuse Institute, University of Washington |
| An accurate seed-to-sale traceability database should provide usable sales data with potencies and answer a host of important questions. Washington’s initial implementation fell short; this presentation offers an analysis and possible solutions. |
| **Use of Alternative Cannabis Products Among Youth** |
| Adam Leventhal, University of Southern California |
| This session presents recently collected data on prevalence, patterns, and correlates of use/poly-use (i.e., use of two or more different products) across the spectrum of cannabis products in cohorts of Southern California youth. |

### 10:45 AM – 12:15 PM
#### BREAKOUT A7
**Santa Anita**

| Emerging Research on the Use of Cannabis in Harm Reduction |
| Emerging Research and Epidemiological Data |
| Health Equity |
| **Emerging Research on the Use of Cannabis in Harm Reduction** |
| Patrick Smith, Fardous Hosseiny, and Leyna Lowe, Canadian Mental Health Association |
| This presentation will examine the evidence for cannabis use as a harm reduction strategy to reduce or replace opioid use, drawing on early evidence from an innovative pilot in Vancouver, Canada. |

### 10:45 AM – 12:15 PM
#### BREAKOUT A8
**Santa Barbara**

| Cannabis and the Workplace: Cannabis Retail Workers, and Users in Other Workplace Settings |
| Emerging Research and Epidemiological Data |
| Regulatory Issues |
| **Health and Safety of Cannabis Workers** |
| Marc Schenker, University of California, Davis |
| The presenter will discuss health and safety risks of cannabis cultivation, such as biological hazards, chemical risks, and physical hazards, based on a review of extant information and field visits. |
| **Defining Safe Cannabis Consumption within the Retail Space** |
| Michele Cadigan, University of Washington |
| This study investigates legal cannabis retail store workers’ definitions of safe use, how that relates to customers’ definitions of safe consumption, and how using cannabis relates to job duties. |

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Please note: Presenter bios are available online at http://bit.ly/NACS2019Presenters
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<td>Health Equity</td>
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<td></td>
<td>Measuring “THC Obtained”</td>
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<td>Why Do Consumers Continue to Use Unregulated Sources Following Legalization?</td>
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<td>Beau Kilmer, RAND Corporation</td>
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<td>Jane Allen, RTI International</td>
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<td>This discussion explores two Washington datasets and other sources to better understand the amount of THC obtained at individual and aggregate levels, including THC obtained by product type and change over time.</td>
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<td>This presentation explores research showing that social and economic factors likely play a role in marijuana purchase decisions, possibly explaining why some consumers don’t transition to the regulated market upon legalization.</td>
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<td>Flavored Cannabis Products: Lessons from Tobacco</td>
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<td>Dealing with Unlicensed Cannabis Business Operators</td>
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<td>Stanton Glantz, University of California, San Francisco</td>
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<td>Brad Rowe, UCLA Luskin School of Public Affairs</td>
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<td>This presentation summarizes the evidence that flavors in tobacco products attract and hold young users and contribute to increased use of e-cigarettes and how these lessons apply to cannabis regulation.</td>
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<td>Learn about the tools for regulators and law enforcement to cut down on illicit growers, manufacturers, and retail operations and provide an environment favorable to compliance in the legal market.</td>
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<td>Lessons from Tobacco: Potency, Flavors, and Advertising</td>
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<td>Lynn Silver, Public Health Institute</td>
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<td>This presentation describes a project that seeks to protect youth/reduce harm from legalized cannabis through lessons from decades of tobacco/alcohol control and balancing social equity/public health concerns.</td>
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<td>Signs of the Times: Cannabis Retail Advertising in Oregon</td>
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<td>Julia Dilley, Multnomah County and Oregon Public Health Division</td>
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<td>This presentation describes patterns of self-reported exposure to cannabis advertising among adults and youth in Oregon after a legalized retail market opened and identifies groups with greatest exposure.</td>
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<td>12:15 PM – 12:30 PM</td>
<td>California Foyer</td>
<td><strong>LUNCH &amp; LEARN SESSIONS</strong>&lt;br&gt;Enjoy your lunch in a relaxed and interactive learning environment.</td>
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<td>12:30 PM – 1:30 PM</td>
<td>Avalon</td>
<td><strong>LUNCH &amp; LEARN ML1</strong>&lt;br&gt;Adaptation of Prevention Strategies for First Nations&lt;br&gt;Prevention and Education&lt;br&gt;Health Equity&lt;br&gt;David Sioui and Shantala Langevin, Yarha’&lt;br&gt;Learn about the field experience and adaptations made to training formats and content that address the disparities between First Nations and Canadians in relation to the legalization of cannabis.</td>
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<td>12:30 PM – 1:30 PM</td>
<td>San Gabriel</td>
<td><strong>LUNCH &amp; LEARN ML2</strong>&lt;br&gt;A Digital Campaign to Address Youth Multi-Substance Use&lt;br&gt;Prevention and Education&lt;br&gt;Jeffrey Jordan, Rescue: The Behavior Change Agency&lt;br&gt;This presentation reviews the formative research, key campaign insights, and preliminary results of “Hustle &amp; Strive,” an online intervention to help teens choose a substance-free life focused on their interests and passions to build life skills.</td>
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<td>12:30 PM – 1:30 PM</td>
<td>Santa Barbara</td>
<td><strong>LUNCH &amp; LEARN ML3</strong>&lt;br&gt;What if Marijuana Were NOT a Schedule 1 Drug? Legal and Policy Implications&lt;br&gt;Governance, Federal Law, and Emerging Policy&lt;br&gt;Health Equity&lt;br&gt;Kerry Cork and Hudson Kingston, Public Health Law Center&lt;br&gt;Examine the legal and policy implications if the U.S. Government were to remove marijuana and tetrahydrocannabinols from Schedule 1 classification and eliminate federal criminal penalties for most marijuana-related offenses.</td>
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<td>12:30 PM – 1:30 PM</td>
<td>Emerald Bay</td>
<td><strong>LUNCH &amp; LEARN ML4</strong>&lt;br&gt;Opportunities and Challenges of Cannabis Equity Programs&lt;br&gt;Health Equity&lt;br&gt;Shaleen Title, Massachusetts Cannabis Control Commission; Cat Packer, Los Angeles Department of Cannabis Regulation&lt;br&gt;Join Commissioner Title and Cat Packer as they delve deeper into issues from Commissioner Title’s keynote address and open a conversation about implementing equity programs at the state and city level.</td>
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<td>12:30 PM – 1:30 PM</td>
<td>Hollywood</td>
<td><strong>LUNCH &amp; LEARN ML5</strong>&lt;br&gt;Regulating Cannabis: Building a New Tobacco Industry or Learning from the Past? Lessons from California&lt;br&gt;Regulatory Issues&lt;br&gt;Lynn Silver, Public Health Institute&lt;br&gt;Complementing “Lessons from Tobacco: Potency, Flavors, and Advertising,” this session will discuss key challenges for the protection of youth, public health, and social equity in the regulation of the emerging cannabis industry.</td>
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<td>1:30 PM – 1:45 PM</td>
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<td><strong>Break</strong></td>
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<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Location</th>
<th>Presenters</th>
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<tbody>
<tr>
<td>1:45 PM – 3:15 PM</td>
<td><strong>BREAKOUT B1</strong> Understanding and Navigating the Decision to Legalize Marijuana</td>
<td>Santa Barbara</td>
<td>Eric Siegel, University of California Botanical Garden at Berkeley</td>
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<td><strong>Fact-Based Public Education in Cannabis</strong></td>
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<td>This presentation reports on a successful university-based education program that provides fact-based public education about cannabis to inform responsible and effective use of cannabis and public policy.</td>
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<td><strong>New Hampshire: Finding Marijuana Middle Ground in Extreme Times</strong></td>
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<td>Kate Frey, New Futures</td>
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<td>This session illustrates how public health advocates in New Hampshire were able to successfully find middle ground on controversial issues by focusing on youth, bi-partisan compromise, and engaging unlikely allies.</td>
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<td><strong>I Perform Above the High—A Youth-Led Campaign to Prevent Marijuana Use</strong></td>
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<td>This workshop describes the California Performing Above the High (PATH) project focused on increasing knowledge and the social skills necessary to combat marijuana and other drug use in youth.</td>
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<td><strong>Youth Education and Prevention for the Cannabis Industry</strong></td>
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<td>Sarah Grippa, Marijuana Education Initiative</td>
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<td>Learn about Colorado educators who collaborate with school districts, legislators, and leaders within the cannabis industry to address community concerns surrounding legalization and youth prevention.</td>
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<tr>
<td>1:45 PM – 3:15 PM</td>
<td><strong>BREAKOUT B3</strong> Pregnant &amp; Breastfeeding Women: Crafting Prevention Messaging &amp; Women’s Motivations</td>
<td>Beverly</td>
<td>Sophia Lerdahl, Rescue: The Behavior Change Agency</td>
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<td><strong>Pregnant and Breastfeeding Marijuana Use Prevention Messages</strong></td>
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<td>This session will cover the psychographics of pregnant and breastfeeding women at risk for marijuana use to inform future health campaigns to reduce cannabis use among these women nationwide.</td>
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<td><strong>Pregnant/Breastfeeding Women’s Motivations Post-Legalization</strong></td>
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<td>Sophia Lerdahl, Rescue: The Behavior Change Agency</td>
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<td>This session reviews research on pregnant or breastfeeding women in a western state to help public health practitioners tailor their cannabis prevention messages to align with insights gained in the study.</td>
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</tbody>
</table>
| 1:45 PM – 3:15 PM | **BREAKOUT B4** | Prevalence and Correlates of Cannabis Use Disorder Among Latinos  
*Emerging Research and Epidemiological Data*  
*Health Equity*  
Lillian Gelberg, UCLA Department of Family Medicine  
Learn about pre-legalization cannabis use rates among Latinos in California, the importance of routine screening for marijuana use in Federally Qualified Health Centers, and the potential role of acculturation factors. |
|---|---|---|
| 1:45 PM – 3:15 PM | **BREAKOUT B5** | Community Responses to Cannabis Legalization in Canada and the United States  
*Governance, Federal Law, and Emerging Policy*  
*Health Equity*  
**Bureaucracy Meets the Bong: Public Health and Retail Cannabis**  
Scott Neal, Public Health—Seattle & King County  
Local governments and public health departments have an important role in cannabis legalization efforts. Explore the Washington public health perspective of cannabis legalization: lessons learned, potential pitfalls, and recommended strategies.  
**Cannabis Legalization in Canada: Key Community Responses**  
Tara Marie Watson and Sergio Rueda, Centre for Addiction and Mental Health  
This presentation draws on three qualitative data sources to report on an ongoing study to examine how some Canadian provinces are responding to federal legalization with their own regulatory frameworks. |
| 1:45 PM – 3:15 PM | **BREAKOUT B6** | Balancing Regulatory, Research, and Industry Interests: Perspectives from the California Experience  
*Governance, Federal Law, and Emerging Policy*  
**The Great California Cannabis Experiment—Is It Working? Industry and Regulatory Perspectives on the Successes and Challenges of 2018**  
Jennifer Price, Golden State Government Relations  
This presentation looks at how the California cannabis industry and regulating agencies have managed transitioning from an unregulated “gray” market to the confines of state and local governance.  
**A UC Perspective on Regulatory Barriers to Cannabis Research**  
Agnes Balla, University of California Office of the President  
Rigorous scientific research on cannabis is critical to keep pace with legalization, but there are regulatory barriers. This presentation shares approaches to support research interests in this space. |
| 1:45 PM – 3:15 PM | **BREAKOUT B7** | Health Effects of Secondhand Smoke from Marijuana  
*Health Effects*  
Matthew Springer and Suzaynn Schick, University of California, San Francisco; Cynthia Hallett, Americans for Nonsmokers Rights; Phillip Gardiner, Tobacco-Related Disease Research Program  
Secondhand smoke from tobacco and marijuana have rapid adverse effects on vascular function in rats. Legalization leads to increased opportunities for involuntary exposure. Public health and policy implications of these findings will be discussed. |

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### TBA
**San Gabriel**

**1:45 PM – 3:15 PM**

**BREAKOUT B8**

Health Effects
Drug Policy Alliance

### Analysis of Cannabis Advertisements in Print, Social Media, and Online
**Avalon**

**1:45 PM – 3:15 PM**

**BREAKOUT B9**

Cannabis Advertising Exposure and Use Among Adolescents
Pamela Trangenstein, Boston University School of Public Health

Nearly half of teens report “almost constant” Internet use. This presentation examines how exposure to and engagement with cannabis advertising on social media is associated with youth cannabis use.

Content Analysis of Marijuana Advertisement in Print Media
Beatriz Carlini, University of Washington Alcohol and Drug Abuse Institute

This presentation focuses on ways research on recreational cannabis ads in print publications in Washington State can inform public health interventions, such as media campaigns and media literacy programs.

### Marijuana Secondhand Smoke Exposure in Multi-Unit Housing: Preliminary Findings
**Beaudry A**

**1:45 PM – 3:15 PM**

**BREAKOUT B10**

Peggy Toy and Ying-Ying Meng, UCLA Center for Health Policy Research

Presenters will discuss how legalization of recreational cannabis has heightened the urgency to address cannabis second-hand smoke (SHS) policy. Los Angeles, with the UCLA-SAFE study team, is examining marijuana SHS in multi-unit housing.

### Break
**3:15 PM – 3:30 PM**

### KEYNOTE
**California Ballroom**

**3:30 PM – 4:30 PM**

How Public Health Experts Can Shape the Future of Cannabis Policy
Andrew Freedman and Lewis Koski, Freedman and Koski, Inc.

Over the past decades, North America has been torn apart by diametrically opposed and deeply held beliefs about cannabis. Join Freedman and Koski as they provide a tempered view of what we currently know about the effects of legalization, lessons learned, and how we can impact policy for the better.

### Networking Reception and Poster Presentations
**San Diego**

**4:30 PM – 6:00 PM**

_Poster presentations on next page._

MONDAY, JANUARY 28* (CONTINUED)

POSTER PRESENTATIONS

Prevention and Education

P1. Cannabis Workers’ Safety and Health
Farzaneh Khorsandi Kouhanestani, University of California, Davis

P2. Computerized Interventions to Reduce Youth Cannabis Use
Joanna Jacobus, University of California, San Diego

P3. Developing Activities for Youth Cannabis Use Prevention
Bonnie Halpern-Felsher, Adrienne Lazaro, and Richard Ceballos III, Stanford University

P4. Developing Equitable Approaches to Route of Administration
Lorraine Greaves, Nancy Poole, and Natalie Hemsing, Centre of Excellence for Women’s Health

P5. Helpline Staff Knowledge of Marijuana: Evaluation & Training
Beatriz Carlini, Sharon Garrett, and Meg Brunner, Alcohol and Drug Abuse Institute, University of Washington

P6. Relevant Local Data on Cannabis Issues
Catherine Dizon, Jorge Andrews, Sarah Hellesen, Robin Kipke, Danielle Lippert, Tobacco Control Evaluation Center, University of California, Davis

Emerging Research and Epidemiological Data

P7. Analysis of Cannabis-Related Patient-Provider Communications
Judith Prochaska and Kathleen Gali, Stanford University; Kelly Young-Wolff, Kaiser Permanente Division of Research

P8. Analysis of the Association Between Cannabis and Opiate Use
Jesse Goldshear, Keck School of Medicine, University of Southern California

P9. Cannabis Use Among Sexual Minority Men in Los Angeles County
Lorree (Katy) Berteau, Ian Holloway, and Diane Tan, University of California, Los Angeles (UCLA); Ayako Miyashita Ochoa, UCLA Luskin School of Public Affairs

Judith Prochaska and Kathleen Gali, Stanford University; Sandra Winter, Stanford Prevention Research Center; Erica Frank, University of British Columbia

P11. Development of a CBD Registry
Martha Kelly, IMPAQ International

P12. Impact of Cannabis Legalization on Juvenile Offenders
Emily Kan, University of California, Irvine

Please note: Presenter bios are available online at http://bit.ly/NACS2019Presenters
P13. Increasing Marijuana Use by Older Adults: Causes for Concern
Susan Stoner, University of Washington

P14. Marijuana Legalization and the Opioid Crisis
Nima Shahidinia, RAND Corporation

P15. Measuring Indoor Smoking Using Air Particle Monitors
John Bellettiere, San Diego State University

P16. Motivations for Cannabis Use Among People Who Inject Drugs
Kelsey Simpson, Keck School of Medicine, University of Southern California

P17. Secondhand Exposure to Marijuana and Cigarette Smoke in the United States
Shu-Hong Zhu, University of California, San Diego

LaTrice Montgomery, University of Cincinnati

P19. Stigmatization of Marijuana Consumers in the Context of Legalization
Matthew Farrelly, Jane Allen, and Brian Bradfield, RTI International

P20. Substance Use Among Youth in Washington State
Julia Dilley, Multnomah County and Oregon Public Health Division; Charles Fleming, Isaac Rhew, and Katarina Guttmannova, University of Washington

Alexandra Kritikos, Student at Brandeis University

Governance, Federal Law, and Emerging Policy

P22. Cannabis Legalization in Canada: Recommendations of Quebec’s Public Health Directors
Julie Loslier, Université de Sherbrooke

P23. Price Sensitivity of Legal vs. Illegal Cannabis
Michael Amlung, McMaster University

P24. Public Health and the Cannabis Retail Environment, Los Angeles County
Jane Steinberg, Keck School of Medicine, University of Southern California; Cynthia Hallett, Americans for Nonsmokers Rights; Will Nicholas, Los Angeles Department of Public Health

P25. U.S. Adult-Use and Medical Cannabis Purchase Limits
Stanton Glantz and Candice Bowling, University of California, San Francisco

Please note: Presenter bios are available online at http://bit.ly/NACS2019Presenters
### Health Effects

**P26. Cannabis-Induced Psychotic Disorder: Case Series**  
Nathan Pearson, West Virginia University School of Medicine; James Berry, West Virginia University

**P27. Effects of Cannabis Products According to THC:CBD Ratios**  
Violaine Mongeau-Pérusse, University of Montréal

**P28. Kidney Toxicity Induced by Cannabinoid Consumption**  
Pierre-André Dubé, Institut National de Santé Publique du Québec

**P29. Physician Perceptions of Marijuana's Harm and Benefit**  
Shu-Hong Zhu, University of California, San Diego

**P30. Youth Cannabis Use and Cognitive Function**  
Natalie Castellanos Ryan, Université de Montréal

### Regulatory Issues

**P31. Compendium and Comparison of State Medical Cannabis Testing**  
Satyam Patel, Sherman Hom, and Steven Nguy, New Jersey Department of Health, Public Health & Environmental Labs

**P32. Impacts of Point-of-Sale Marijuana Marketing on Adolescent Marijuana Consumption**  
Yuyan Shi and Yiwen Cao, University of California, San Diego

**P33. Interviews with Washington State’s Cannabis License Holders**  
Sam Hampsher and Clarissa Manning, BOTEC Analysis, LLC

Sharon Garrett, Alcohol and Drug Abuse Institute, University of Washington

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Please note: Presenter bios are available online at http://bit.ly/NACS2019Presenters
**TUESDAY, JANUARY 29**

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<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
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<tbody>
<tr>
<td>7:45 AM – 8:45 AM</td>
<td>Continental Breakfast</td>
<td>California Foyer</td>
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<td>7:00 AM – 4:00 PM</td>
<td>Registration Open</td>
<td>California Foyer</td>
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<tr>
<td>9:00 AM – 11:00 AM</td>
<td>Poster Presentations Open</td>
<td>San Diego</td>
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<tr>
<td>9:00 AM – 10:00 AM</td>
<td><strong>KEYNOTE</strong></td>
<td>California Ballroom</td>
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<tr>
<td>10:00 AM – 10:30 AM</td>
<td>Break and Poster Presentations</td>
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<tr>
<td>10:30 AM – 12:00 PM</td>
<td><strong>BREAKOUT C1</strong></td>
<td>Santa Barbara</td>
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<td>10:30 AM – 12:00 PM</td>
<td><strong>BREAKOUT C2</strong></td>
<td>Palos Verdes</td>
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**KEYNOTE**

**Marijuana as Medicine: Can We See Past the Smoke?**

*Health Effects*

Igor Grant, San Diego Center for Medicinal Cannabis Research, University of California, San Diego

In this presentation, the evidence for therapeutic efficacy of cannabis will be reviewed with respect to specific conditions such as neuropathic pain, muscle spasticity, and other indications, as well as possible future evolution of therapies based on modulating the endocannabinoid system.

**BREAKOUT C1**

**Tools and Practices for Testing Cannabis and Cannabis Product Safety**

*Prevention and Education*

**Regulatory Issues**

**Food Safety Resources for Cannabis-Infused Products**

Elizabeth Landeen, National Environmental Health Association

Learn about newly developed resources for food safety agencies to address cannabis-infused edibles, including the Glossary of Terms, Food Safety Guidance for Cannabis-Infused Products, and other useful tools.

**Cannabis Microbiome Sequencing Implications for Cannabis Safety Testing**

Kyle Boyar, Medicinal Genomics

This presentation discusses how commonly used food-testing methodology is not the best approach for cannabis and offers new perspectives on how to tackle microbiological contaminants in cannabis.

**BREAKOUT C2**

**Engaging Teens in Prevention Messaging and Youth Perspectives on Use**

*Prevention and Education*

**How to Engage Teens to Create Prevention Messaging**

Renee Fraser, Fraser Communications; Rachel Tyree, Los Angeles County Department of Public Health

This presentation shares how Los Angeles County engaged teens in a peer-to-peer cannabis use prevention campaign and describes ways attendees can build programs that involve teens in addressing community health.

**Youth Perspectives on Marijuana Use: Themes from Youth Listening Sessions**

Kaylin Bolt and Meghan King, Public Health—Seattle & King County

Presenters will describe a series of listening sessions conducted in Washington state to understand youth perceptions around cannabis use and social and health risks to inform prevention efforts.

Please note: Presenter bios are available online at http://bit.ly/NACS2019Presenters
**DAILY SCHEDULE**

**TUESDAY, JANUARY 29**

### BREAKOUT C3

**10:30 AM – 12:00 PM**

**Beaudry C**

**Developing Cannabis Education and Prevention Campaigns**

**Prevention and Education**

**Lessons from the Tobacco Years**

Pamela McColl, Campaign for Justice Against Tobacco Fraud

This session reviews historic tobacco prevention messages and strategies and how these approaches can be applied to cannabis products in relation to control and prevention.


Shannon Breitzman and Joe Conrad, Health Management Associates

Learn about and discuss public prevention and education efforts in states with legal marijuana, including what went into the development of messages and early evaluation outcomes.

### BREAKOUT C4

**10:30 AM – 12:00 PM**

**Beverly**

**Tools to Inform Cannabis Public Health, Prevention Strategies, and Policies**

**Prevention and Education**

**Health Equity**

**Advocacy Tools for Local Environmental Policy Change**

Gilbert Mora, Behavioral Health Services, Inc.; Sokhom Phou, Los Angeles County Office of Education; Raunda Jones, Behavioral Health Services, Inc.

Learn about innovative prevention strategies and tools for public health, including how to develop and utilize them to gather data and inform policies and approaches that protect youth.

**Marijuana: Prevention First!**

Annay Picazo and Jenifer Harris, Behavioral Health Services, Inc.

Learn how to use environmental scanning and asset mapping to inform local policies and gain information about legal and illegal marijuana outlets; presentation includes discussion of prevention and engagement.

### BREAKOUT C5

**10:30 AM – 12:00 PM**

**Emerald Bay**

**Perinatal Use: Effects of Cannabis Legalization on Use and Route of Administration**

**Emerging Research and Epidemiological Data**

**Effect of Cannabis Legalization on Prenatal Use Rates**

Danica Taylor, University of California, Davis

This session explores the gaps in research around how cannabis legalization impacts prenatal cannabis use rates, with a focus on health behaviors among pregnant women.

**Modes of Marijuana Administration Before & During Pregnancy**

Kelly Young-Wolff, Kaiser Permanente Division of Research

The presenter will discuss the results and implications of a pilot test of a modified screening questionnaire that asks about mode of administration among pregnant women who self-report marijuana use.

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Please note: Presenter bios are available online at http://bit.ly/NACS2019Presenters
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Please note: Presenter bios are available online at http://bit.ly/NACS2019Presenters

**TUESDAY, JANUARY 29* (CONTINUED)**

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<th>Time</th>
<th>Session</th>
<th>Room</th>
<th>Description</th>
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| 10:30 AM – 12:00 PM | **BREAKOUT C6** | Santa Anita | Experience of Pain Patients in Minnesota’s Medical Cannabis Program  
*Health Effects*  
Tom Arneson, Minnesota Department of Health, Office of Medical Cannabis  
Based on Minnesota’s experience, this presentation demonstrates how patient- and clinician-derived data collection can be built into a state medical cannabis program and what can be learned from it. |
| **BREAKOUT C7** | 10:30 AM – 12:00 PM | San Gabriel | Overview of Cannabis Policies in the United States and Canada  
*Governance, Federal Law, and Emerging Policy*  
**Overview of U.S. State Adult-Use Cannabis Policies**  
Gillian Schauer, National Institute on Drug Abuse  
This session details an ongoing policy tracking initiative to track variables related to public health from state adult-use cannabis policies in the 10 states with legal retail sales.  
**Québec’s Public Not-for-Profit Distribution System**  
François Gagnon, Institut National de Santé Publique du Québec  
This presentation explores Quebec’s role as the only exclusively public, not-for-profit distribution system of non-medical cannabis in the world. Regulatory, operational, and motivational topics will be discussed. |
| **BREAKOUT C8** | 10:30 AM – 12:00 PM | Beaudry A | Cannabinoid Stress Reduction: Building Emotional Resilience  
*Health Effects*  
Reef Karim, UCLA Medical Center and Semel Institute for Neuroscience & Human Behavior  
This session explores understanding of cannabinoids and their connection to resilience, how they can increase well-being and resilience, and how they may provide treatment for refractory biological/psychological conditions. |
| **BREAKOUT C9** | 10:30 AM – 12:00 PM | Avalon | Cannabis and the Opioid Epidemic  
*Health Effects*  
**Cannabis/Cannabinoids and the North American Opioid Crisis**  
M-J Milloy, British Columbia Centre on Substance Use; Philippe Lucas, University of Victoria, Social Dimensions of Health  
In this session, scientific experts from the United States and Canada will discuss their efforts to investigate the possible role of cannabis in mitigating the ongoing opioid crisis.  
**Colorado, Cannabis, and the Opioid Epidemic**  
Kenneth Finn, Springs Rehabilitation, PC  
This session will review current literature on medical cannabis, especially as it relates to pain, and will outline Colorado’s experience in the face of the opioid epidemic. |
## TUESDAY, JANUARY 29*

### DAILY SCHEDULE

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<tr>
<th>Time</th>
<th>Location</th>
<th>Session Title</th>
<th>Presenter(s)</th>
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<tr>
<td>10:30 AM – 12:00 PM</td>
<td>Hollywood</td>
<td><strong>BREAKOUT C10</strong> Patients Leading the Doctors: How Do Health Professionals Respond to Medical Questions About Cannabis?</td>
<td>Barbara Herbert, Massachusetts Chapter, American Society of Addiction Medicine. This presentation highlights efforts to create standardized curriculum to assist providers in incorporating cannabis into practice; this is still needed despite acknowledged medical efficacy in Canadian and U.S. national publications.</td>
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<tr>
<td>12:00 PM – 12:15 PM</td>
<td>California Foyer</td>
<td><strong>Pick Up Lunch</strong></td>
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<tr>
<td>12:15 PM – 1:15 PM</td>
<td>Santa Barbara</td>
<td><strong>LUNCH &amp; LEARN TL1</strong> Factors Related to Drug-Impaired Driving in Canada</td>
<td>Karen Koundakjian, Public Safety Canada. Come discuss attitudes about cannabis and driving based on an analysis of demographic factors related to beliefs about drug-impaired driving and behaviors such as driving within 2 hours of using cannabis.</td>
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<tr>
<td>12:15 PM – 1:15 PM</td>
<td>San Gabriel</td>
<td><strong>LUNCH &amp; LEARN TL2</strong> Let's Stay Connected: Building a Cannabis Network</td>
<td>Jane Allen, RTI International. Join us as we begin the process of building a collaborative cannabis network focused on what participants would want, the technologies available, and how different platforms might promote specific types of communication.</td>
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<tr>
<td>12:15 PM – 1:15 PM</td>
<td>Avalon</td>
<td><strong>LUNCH &amp; LEARN TL4</strong> TBA</td>
<td>Igor Grant, San Diego Center for Medicinal Cannabis Research, University of California, San Diego.</td>
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<tr>
<td>1:15 PM – 1:30 PM</td>
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<td><strong>Break</strong></td>
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<thead>
<tr>
<th>Time</th>
<th>Location</th>
<th>Session Title</th>
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<tr>
<td>1:30 PM – 3:00 PM</td>
<td><strong>BREAKOUT D1</strong></td>
<td>Biology of Cannabis Use: Impact on Driving and on Adolescents</td>
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<td>Avalon</td>
<td>Public Safety&lt;br&gt;Emerging Research and Epidemiological Data</td>
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<td><strong>What You Cannot See When High: Marijuana and Retinal Ganglion</strong></td>
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<td>Denise A. Valenti, IMMAD, LLC</td>
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<td>This overview will discuss research related to visual function and structural imaging of the retina and brain, as well as a functional retinal forensics tool under development for law enforcement.</td>
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<td><strong>Neurobiological Consequences of Adolescent Cannabinoid Use</strong></td>
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<td>Stephen Mahler, University of California, Irvine</td>
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<td>The presenter will discuss recent findings from neuroscience in rodents and talk about potential implications for teenagers with regard to their risk of psychiatric disorders, such as addiction or schizophrenia.</td>
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<td>1:30 PM – 3:00 PM</td>
<td><strong>BREAKOUT D2</strong></td>
<td>Dealing with Recreational Cannabis in the Workplace</td>
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<td>Beaudry B</td>
<td>Prevention and Education</td>
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<td>Melissa Snider-Adler, DriverCheck, Inc.</td>
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<td>This session will share what Canada has learned about legal cannabis for adult use and medical cannabis since the legalization that occurred in October 2018.</td>
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<tr>
<td>1:30 PM – 3:00 PM</td>
<td><strong>BREAKOUT D3</strong></td>
<td>State Public Health Approaches for Youth Cannabis Prevention</td>
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<td>San Gabriel</td>
<td>Prevention and Education</td>
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<td><strong>Multi-State Considerations for Youth Cannabis Prevention</strong></td>
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<td>Gillian Schauer, National Institute on Drug Abuse</td>
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<td>This presentation will focus on public health considerations when designing youth cannabis prevention programs, including health effects, policies that may impact youth access and use, and overlap with other substances.</td>
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<td><strong>Multi-State Considerations for Youth Cannabis Prevention</strong></td>
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<td>Tricia Blocher, California Department of Public Health (CDPH)</td>
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<td>This presentation will describe the strategy CDPH used to inform the Let’s Talk Cannabis campaign and review the challenges of developing a statewide youth campaign.</td>
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<td><strong>Oregon Youth Cannabis Prevention Campaign</strong></td>
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<td>Amanda Cue, Oregon Health Authority</td>
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<td>The presenter will share an approach to youth cannabis prevention, highlighting a health communications campaign funded by legislature and policy recommendations to more fully address youth cannabis prevention.</td>
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<td><strong>Youth &amp; Cannabis: Prevention Strategies that Work</strong></td>
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<td>Jessica Neuwirth, Colorado Department of Public Health &amp; Environment; Gillian Schauer, National Institute on Drug Abuse</td>
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<td>Colorado’s continued success in youth prevention requires multiple strategies to get “upstream.” Presenters will describe social marketing campaigns, policy and regulatory recommendations, and diverse stakeholder engagement.</td>
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### 1:30 PM – 3:00 PM  
**BREAKOUT D4**  
**Beaudry A**  
**Air Quality Impacts of Cannabis Cultivation**  
*Emerging Research and Epidemiological Data*  
Kaitlin Urso, Colorado Department of Public Health and Environment  
Learn about a Colorado study quantifying the rate of volatile organic compound (VOC) emissions from cannabis cultivation. VOCs contribute to ground-level ozone, which is harmful to human health and the environment.

### 1:30 PM – 3:00 PM  
**BREAKOUT D5**  
**Beverly**  
**Cannabis Legalization in Canada and Comparisons with the United States**  
*Emerging Research and Epidemiological Data*  
Elle Wadsworth, Samantha Goodman, and David Hammond, University of Waterloo  
Learn about the International Cannabis Policy Study survey, with U.S. and Canada data on consumption, sources, pricing, risk behaviors, policy-relevant outcomes, and problematic use.

### 1:30 PM – 3:00 PM  
**BREAKOUT D6**  
**Emerald Bay**  
**Cannabis Legalization Campaign Contributions and Outcomes**  
*Governance, Federal Law, and Emerging Policy*  
Daniel Orenstein and Stanton Glantz, University of California, San Francisco  
From a study comparing campaign contribution data for 32 legalization initiatives, attendees will gain insight into voter support and initiative passage, as well as implications for health advocates.

### 1:30 PM – 3:00 PM  
**BREAKOUT D7**  
**Santa Anita**  
**How Cannabis Taxation Is Likely to Evolve**  
*Governance, Federal Law, and Emerging Policy*  
Patrick Oglesby, Center for New Revenue  
This session will compare cannabis revenue techniques and a variety of jurisdictions’ revenue laws, explain why many current cannabis taxes don’t serve public health, and evaluate possible improvements to revenue laws.

### 1:30 PM – 3:00 PM  
**BREAKOUT D8**  
**Palos Verdes**  
**Medical Cannabis in Canada: Implications for Health Care Professionals**  
*Governance, Federal Law, and Emerging Policy*  
Caroline MacCallum, Greenleaf Medical Clinic; Ashley Chisholm, Canadian Nurses Association; Shelita Dattani, Canadian Pharmacists Association  
This panel provides an interprofessional perspective of cannabis legalization in Canada, reinforcing the importance of preserving a medical stream and strengthening the value of the interprofessional approach to care.

### 1:30 PM – 3:00 PM  
**BREAKOUT D9**  
**Hollywood**  
**Cannabis Reform as Criminal Justice Reform**  
Douglas Berman, Ohio State University College of Law, Drug Enforcement & Policy Center; John Card, Northeastern University School of Law  
This session will explore how cannabis reforms could and should seek to address individual and structural harms that have resulted from prohibitionist policies and their disproportionate burden on certain populations.

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**TUESDAY, JANUARY 29* (CONTINUED)**

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<th>Time</th>
<th>Event</th>
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| 1:30 PM – 3:00 PM | **BREAKOUT D10**  
Santa Barbara  
Perceptions of Secondhand Smoke from Cannabis, Vape, and Support for Smoke-Free Multi-Unit Housing Regulations  
*Regulatory Issues*  
*Health Equity*  
Steve Sussman, Lourdes Baezconde-Garbanati, Yaneth Rodriguez, Rosa Barahona, and Jennifer Unger, University of Southern California  
This session will feature findings from a study of multi-unit housing (MUH) tenants and discuss implications of a city-wide MUH smoke-free policy, as well as related state and local tobacco-control policies. |
| 3:00 PM – 3:15 PM | Break                                                                 |
| 3:15 PM – 4:15 PM | **KEYNOTE**  
California Ballroom  
Cannabis and Opioids: What is the Role of Cannabis in the Evolving Opioid Epidemic  
*Emerging Research and Epidemiological Data*  
Rosalie Pacula, Drug Policy Research Center, RAND Corporation  
There is growing evidence that adoption of medical cannabis laws is associated with reductions in rates of opioid mortality, related hospitalizations, and fills of prescription opioids and that the opioid epidemic has transitioned to use of heroin and other illicit opioids. What do these competing trends mean in terms of cannabis’ role in the opioid crisis? This presentation centers on what we do and do not know scientifically about the role of cannabis policy in addressing the opioid crisis. |
| 4:15 PM – 4:30 PM | **Wrap-Up and Announcements**                                          |

## WEDNESDAY, JANUARY 30*

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<tr>
<th>Time</th>
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<tr>
<td>7:45 AM – 8:45 AM</td>
<td>California Foyer</td>
<td>Continental Breakfast</td>
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<td>8:00 AM – 12:00 PM</td>
<td>California Foyer</td>
<td>Registration Open</td>
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<tr>
<td>9:00 AM – 11:00 AM</td>
<td>San Diego</td>
<td>Poster Presentations Open</td>
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<tr>
<td>9:00 AM – 10:00 AM</td>
<td>California Ballroom</td>
<td><strong>KEYNOTE</strong>&lt;br&gt;<strong>Public Health Cannabis Monitoring and Surveillance in an Era of Legalization</strong>&lt;br&gt;Emerging Research and Epidemiological Data&lt;br&gt;Gillian Schauer, Multi-State Collaborative on Cannabis and Public Health; Julia Dilley, Multnomah County and Oregon Public Health Division; Hanan Abramovici, Health Canada, Ottawa; Susan Weiss, National Institute on Drug Abuse; Althea Grant-Lenzy, Centers for Disease Control and Prevention&lt;br&gt;Legalization of cannabis for medical or adult use is expanding in the United States and in other countries. This panel presentation, moderated by Susan Weiss, brings together national and international experts to discuss the most important considerations for cannabis surveillance to inform public health policy.</td>
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<td>10:00 AM – 10:30 PM</td>
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<td>Break</td>
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<tr>
<td>10:30 AM – 12:00 PM</td>
<td>Santa Barbara</td>
<td><strong>BREAKOUT E1</strong>&lt;br&gt;The Impact of Legalization on the Environment&lt;br&gt;Public Safety&lt;br&gt;Governance, Federal Law, and Emerging Policy&lt;br&gt;Health Equity&lt;br&gt;The Environmental Impact of Cannabis Liberalization&lt;br&gt;Tony Silvaggio, Humboldt Institute for Interdisciplinary Marijuana Research&lt;br&gt;The study presented in this session evaluates the environmental policy dimensions of liberalization efforts and outlines a set of policy recommendations for regulators and industry to consider.  &lt;br&gt;Gold Rush to Green Rush: Marijuana Cultivation on Yurok Land&lt;br&gt;Kaitlin Reed, University of California, Davis; Dartmouth College&lt;br&gt;Yurok tribal lands in northwestern California are currently under siege by illicit marijuana production. This session discusses social and environmental justice strategies the Yurok Tribe has used to actively resist the “Green Rush.”</td>
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<td>10:30 AM – 12:00 PM</td>
<td>Hollywood</td>
<td><strong>BREAKOUT E2</strong>&lt;br&gt;All Youth Are Not At-Risk: Using Psychographic Segmentation&lt;br&gt;Prevention and Education&lt;br&gt;Jeffrey Jordan, Rescue: The Behavior Change Agency&lt;br&gt;This session will review peer crowd segmentation science and how it can be used to develop and implement relevant and effective prevention campaigns. Examples from teen public health campaigns will be discussed.</td>
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<tr>
<th>Time</th>
<th>Session</th>
<th>Topic</th>
<th>Presenter(s)</th>
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| 10:30 AM – 12:00 PM | **BREAKOUT E3** Beverly | Sex, Gender, and Cannabis: Equitable Approaches  
Prevention and Education  
Health Effects  
Translating Evidence on Cannabis, Alcohol, and Reproduction  
Emerging evidence on the influence of sex and gender on patterns of use and the health effects of cannabis will be presented. | Lorraine Greaves, Nancy Poole, and Natalie Hemsing, Centre of Excellence for Women’s Health                                                            |
| 10:30 AM – 12:00 PM | **BREAKOUT E4** Beaudry A | Effects of Adolescent Exposure to Cannabinoids, and Co-Exposure to Cannabinoids and Nicotine  
Emerging Research and Epidemiological Data  
Health Effects  
Effects of Adolescent Cannabinoid and Nicotine Exposure  
Psychosocial and Cognitive Outcomes of Youth Cannabis Use | Christie Fowler, University of California, Irvine  
Natalie Castellanos Ryan, Université de Montréal                                                                                                                                                                |
| 10:30 AM – 12:00 PM | **BREAKOUT E5** San Gabriel | Cannabis Research in Mexico  
Panelists to be announced; organized by Manuel Ruiz de Chavez, Comisión Nacional de Bioética de México (National Bioethics Commission of Mexico) |                                                                                                                                                                                                             |
| 10:30 AM – 12:00 PM | **BREAKOUT E6** Emerald Bay | States Responses to the Ongoing Opioid Crisis  
Presenters will explore a study on cannabis substitution for prescription opioids and other drugs, as well as new state policies allowing opioid use disorder and opioid replacement as a qualifying medical condition. | Camille Gourdet and Kevin Conway, RTI International                                                                                                                                                           |
| 10:30 AM – 12:00 PM | **BREAKOUT E7** Palos Verdes | Clearing the Smoke: Vaping Marijuana among Adolescents—Recent Trends and Implications  
Emerging Research and Epidemiological Data  
This presentation focuses on recent trends of cannabis use among youth, how cannabis is complemented with other substances, the role vaporizers play, and policy decisions that could impact adolescent cannabis use. | Alexandra Kritikos, Student at Brandeis University                                                                                                                                                           |

**Please note:** Presenter bios are available online at http://bit.ly/NACS2019Presenters

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<th>Time</th>
<th>Event</th>
<th>Details</th>
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| 10:30 AM – 12:00 PM | **BREAKOUT E8**                                                      | **Access to Economic Opportunities: Lessons from Washington State**  
Governance, Federal Law, and Emerging Policy  
Health Equity  
Anne Tseng, Michele Cadigan, and Alexes Harris, University of Washington  
Learn about a study that examines opportunities and constraints within cannabis markets and investigates how regulatory systems create structural conditions that allow only certain people to enter the market. |
| 10:30 AM – 12:00 PM | **BREAKOUT E9**                                                      | **Cannabis Regulation: Equitable Policymaking and a Blueprint from Alcohol**  
Governance, Federal Law, and Emerging Policy  
Health Equity  
**A Blueprint for Cannabis Regulation: Lessons from Alcohol**  
Steve Schmidt, National Alcohol Beverage Control Association  
The cannabis regulatory debate has direct parallels to the repeal of federal prohibition on alcohol. This session will focus on recommendations outlined in a historic analysis and assess the potential policy implications for cannabis today.  
**Equitable Policymaking Across Cannabis and Tobacco**  
Maya Hazarika Watts, ChangeLab Solutions  
This session will highlight socioeconomic disparities in smoking and smoking-related harm. It will also address how cannabis legalization and related equity considerations present unique opportunities and challenges for the tobacco control movement. |
| 10:30 AM – 12:00 PM | **BREAKOUT E10**                                                     | **Strengthening Cannabis Regulation at the Local Level**  
Regulatory Issues  
Health Equity  
**Critical Issues Regarding City-County Marijuana Regulations**  
William Perno, Social Advocates for Youth (SAY) San Diego  
This workshop will discuss local-level regulatory issues associated with marijuana sales and production facilities. Participants will learn how to engage local decision makers to create local regulations.  
**Local Approaches to Cannabis Regulation in California**  
Leslie Zellers, Public Health Policy & Law  
This session will explain how communities are exceeding state law. Local ordinances may be better equipped to respond to diverse local needs and can motivate the state to strengthen its approach. |
| 12:00 PM – 12:15 PM | **LUNCH & LEARN SESSIONS**                                      | **Pick Up Lunch (California Foyer)**  
Enjoy your lunch in a relaxed and interactive learning environment. |
**WEDNESDAY, JANUARY 30** *(CONTINUED)*

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<th>Time</th>
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<th>Details</th>
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| 12:15 PM – 1:15 PM | **LUNCH & LEARN WL1**                                                | Emerald Bay | **Why You Should Tell a Reporter All Your Secrets**  
**Prevention and Education**  
Dan Adams, *The Boston Globe*  
Find out why policymakers, regulators, and researchers benefit from a strong relationship with a reporter covering their area of interest, especially when it is cannabis, and how to positively influence public health. |
| 12:15 PM – 1:15 PM | **LUNCH & LEARN WL2**                                                | Santa Anita | **Let’s Stay Connected: Building a Cannabis Network**  
**Emerging Research and Epidemiological Data**  
Jane Allen, RTI International  
Join us as we begin the process of building a collaborative cannabis network focused on what participants would want, the technologies available, and how different platforms might promote specific types of communication. |
| 12:15 PM – 1:15 PM | **LUNCH & LEARN WL3**                                                | San Gabriel | **Design Considerations for Legalizing Cannabis**  
**Governance, Federal Law, and Emerging Policy**  
Beau Kilmer, RAND Corporation  
The consequences of cannabis legalization on health, safety, and social equity outcomes will depend on several design considerations—discuss some of these decisions and how they are addressed in various jurisdictions. |
| 12:15 PM – 1:15 PM | **LUNCH & LEARN WL4**                                                | Santa Barbara | **What if Marijuana Were NOT a Schedule 1 Drug?: Legal and Policy Implications**  
**Governance, Federal Law, and Emerging Policy**  
Kerry Cork and Hudson Kingston, Public Health Law Center  
Examine the legal and policy implications if the U.S. Government were to remove marijuana and tetrahydrocannabinols from Schedule 1 classification and eliminate federal criminal penalties for most marijuana-related offenses. |
| 12:15 PM – 1:15 PM | **LUNCH & LEARN WL5**                                                | Avalon      | **Regulatory Approaches and Issues: the California Perspective**  
**Regulatory Issues**  
Mark Starr, California Department of Public Health; Lori Ajax, California Department of Consumer Affairs; Richard Parrot, California Department of Food and Agriculture  
This session provides an overview of the regulatory environment of implementation for cannabis safety in California. This will be of interest to other jurisdictions approaching the oversight of cannabis production and distribution. |
| 1:15 PM – 1:30 PM  | **Break**                                                            |             |                                                                                                                                     |
### DAILY SCHEDULE

#### WEDNESDAY, JANUARY 30* (CONTINUED)

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<th>Time</th>
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<th>Title</th>
<th>Speaker</th>
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<tr>
<td>1:30 PM – 3:00 PM</td>
<td>BREAKOUT F1</td>
<td>Avalon</td>
<td><strong>Driving Under the Influence: What Do We Know?</strong></td>
<td><em>Public Safety</em></td>
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<td><strong>Cannabis Legalization and Driving Under the Influence</strong></td>
<td><em>Lauren Dutra, RTI International</em></td>
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<td>The presenter will explore U.S. policies on driving under the influence of cannabis (DUIC), the prevalence of DUIC in a national sample, and the relationship between legalization and DUIC.</td>
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<td><strong>Marijuana-Impaired Driving: What the Data Shows</strong></td>
<td><em>Phillip Drum, AALM</em></td>
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<td>This session will review THC pharmacology and its impact on driving skills, the world’s THC-impaired driving literature, and comparisons to alcohol-impaired driving and differences in impaired driving laws.</td>
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<td>1:30 PM – 3:00 PM</td>
<td>BREAKOUT F2</td>
<td>San Gabriel</td>
<td><strong>Los Angeles County: Community Engagement and Health Impact Assessment</strong></td>
<td><em>Prevention and Education</em></td>
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<td><strong>Emerging Research and Epidemiological Data</strong></td>
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<td><strong>Health Equity</strong></td>
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<td><strong>It Takes a Village: Engaging the Community to Prevent Underage Cannabis Availability</strong></td>
<td><em>Yolanda Cordero, Los Angeles County Department of Public Health, SAPC</em></td>
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<td>This workshop highlights the L.A. Department of Public Health, Substance Abuse Prevention and Control’s (SAPC) prevention service portfolio with the enactment of the Adult Use of Marijuana Act in Los Angeles County.</td>
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<td><strong>Health Impact Assessment of Cannabis Regulation in LA County</strong></td>
<td><em>Will Nicholas, Los Angeles County Department of Public Health</em></td>
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<td>The presenter will discuss a health-impact assessment being conducted on cannabis regulation, which will assess potential health impacts of decisions under the purview of a proposed cannabis commission.</td>
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<td>1:30 PM – 3:00 PM</td>
<td>BREAKOUT F3</td>
<td>Palos Verdes</td>
<td><strong>Retail Marijuana in Colorado: Lessons Learned</strong></td>
<td><em>Prevention and Education</em></td>
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<td><strong>Emerging Research and Epidemiological Data</strong></td>
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<td><strong>Health Equity</strong></td>
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<td>This session will present research, trends, current efforts, challenges, and lessons learned from the first state to legalize cannabis.</td>
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<td>1:30 PM – 3:00 PM</td>
<td>BREAKOUT F4</td>
<td>Beverly</td>
<td><strong>Juvenile Marijuana Arrests in the Era of Adult Legalization</strong></td>
<td><em>Emerging Research and Epidemiological Data</em></td>
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<td><strong>Health Equity</strong></td>
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<td>In Oregon, youth are exposed to a retail marijuana market, yet marijuana remains an illegal substance for them. Presenters will share impacts of adult legalization on juvenile justice trends and racial/ethnic disparities.</td>
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### WEDNESDAY, JANUARY 30* (CONTINUED)

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<tr>
<td>1:30 PM – 3:00 PM</td>
<td>Beaudry A</td>
<td><strong>Regulation of Cannabis in Smoke-Free Laws in California</strong></td>
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<td><strong>Governance, Federal Law, and Emerging Policy</strong></td>
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<td>Judith Prochaska, Stanford University; Lisa Henriksen and Eric Daza, Stanford Prevention Research Center; Maya Hazarika Watts, Leslie Zellers, Darlene Huang, and Melissa Peters, ChangeLab Solutions</td>
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<td>This session will discuss an epidemiologic study of California cities and counties that included cannabis in their smoke-free ordinances. Model ordinance language will be shared.</td>
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<td>1:30 PM – 3:00 PM</td>
<td>Beaudry B</td>
<td><strong>Cannabis and Mental Health</strong></td>
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<td><strong>Health Effects</strong></td>
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<td><strong>Health Equity</strong></td>
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<td><strong>Adolescent Cannabis Use, Depression, and Anxiety in LGB Youth</strong></td>
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<td>Kira London-Nadeau, Université de Montréal</td>
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<td>The presenter will discuss a study that explores the links between cannabis use and depression and anxiety at ages 13, 15, and 17 years in heterosexual and lesbian, gay, and bisexual youth.</td>
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<td><strong>New Cannabis Use Disorder Guidelines for Older Adults</strong></td>
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<td>Amy Porath, Canadian Centre on Substance Use and Addiction; Rand Teed, Rand Teed Consulting; Andra Smith, University of Ottawa; Jonathan Bertram, Centre for Addiction and Mental Health</td>
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<td>This session will discuss guidelines for preventing, screening, assessing, and treating cannabis use disorder among seniors, as well as a process for incorporating the voices of those with lived experience.</td>
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<td>1:30 PM – 3:00 PM</td>
<td>Santa Anita</td>
<td><strong>Analysis of Cannabis retailers’ Advertising Tactics</strong></td>
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<td><strong>Regulatory Issues</strong></td>
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<td>Meghan Moran, Johns Hopkins Bloomberg School of Public Health</td>
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<td>As cannabis becomes legalized in various locations, cannabis marketing presents an unexplored regulatory landscape. Learn more about a study that examined how cannabis is marketed on the websites of retailers.</td>
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<td>3:00 PM – 3:15 PM</td>
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<td><strong>Break</strong></td>
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<td>3:15 PM – 4:15 PM</td>
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<td><strong>Perspectives on Moving Forward: What’s Next Across North America?</strong></td>
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<td><strong>Governance, Federal Law, and Emerging Policy</strong></td>
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<td>Andrew Freedman, Freedman and Koski, Inc., Denver, CO, U.S.A.; Manuel Ruiz de Chavez, Comisión Nacional de Bioética de México (National Bioethics Commission of Mexico), Mexico City; TBA, Health Canada, Cannabis Legalization and Regulation Branch</td>
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<td>This closing panel will address perspectives on opportunities and challenges in evolving cannabis legalization approaches across North America.</td>
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<td>4:15 PM – 4:30 PM</td>
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<td><strong>Concluding Remarks, Evaluation, and Adjourn</strong></td>
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<td>Dan Adams, <em>The Boston Globe</em></td>
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*Please note: Presenter bios are available online at http://bit.ly/NACS2019Presenters*
In a city of nearly 200 languages and 90 neighborhoods, everyone has a voice. Los Angeles is not only one of the most diverse cities in the world, it’s also one of the most culturally vibrant. From Thai Town to Tehrangeles to Little Osaka, the entire world is under the Hollywood sign.
EXPLORE LOS ANGELES
Welcome to Los Angeles, one of America’s major arts, fashion, film, nature, and culinary centers. It’s home to miles of beaches, boardwalks, and beachside communities—each with a unique personality. Enjoy the glitz of Hollywood and the glamor of Rodeo Drive; every type of food and restaurant imaginable; a host of nightly options for music, theater, dance, and nightlife; countless museums and diverse neighborhoods to explore; and attractions such as Universal City Walk Hollywood, the Getty Center, Santa Monica Pier, the Hollywood Walk of Fame, the iconic Hollywood sign, Griffith Park and Observatory, Venice Beach and boardwalk, and TCL Chinese Theater.

EXPLORE
Whether you prefer the out-of-doors, celebrity sightings, adventure, or relaxation, Los Angeles’ options for sight-seeing are endless. Options within walking distance of the hotel include Bunker Hill Steps, the Museum of Contemporary Art, the architectural wonder of Walt Disney Concert Hall, Los Angeles Central Library, OUE Skyspace LA, the Performing Arts Center of Los Angeles County, and LA Walking Tours.

EAT
Los Angeles boasts many of the nation’s finest restaurants and most renowned chefs, in addition to every type of ethnic food possible, food trucks with innovative offerings, and countless stands and trucks with authentic Mexico-style street tacos. You will find dozens of restaurants within walking distance of the Bonaventure, along with coffee shops, delis, juice bars, and bakeries. You can even join a sidewalk food tour of the city for an insider’s take on “must eats.” Some of the more upscale options within walking distance include LA Prime (at the hotel), Café Pinot, 71 Above, Olive Branch, and Nick & Steph’s Steakhouse. More casual or eclectic eateries include Mendocino Farms, Colori Kitchen, Angry Chef (at the hotel), and Nickel Diner.
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WE BELIEVE THAT CONTINUING THE CONVERSATION IS IMPORTANT TO ESTABLISHING A PUBLIC HEALTH AND BEST PRACTICE APPROACH TO OVERSIGHT AND REGULATION OF THE EMERGING LEGAL CANNABIS MARKETPLACE.

– Neal Shifman, President and CEO, Advocates for Human Potential, Inc.