

Novel Synthetic Drug Threat Symposium



When: November 11-13, 2024

Where: Science History Institute, Philadelphia, USA (Hybrid)

Registration: \$800 (In-Person & Virtual)



The CFSRE and NPS Discovery present the 2024 Novel Synthetic Drugs Threat Symposium, November 11-13, 2024, in Philadelphia. This is the year's only global forum on the drug threat topic that encompasses global NPS trends, updates on the toxicology of the latest emerging drugs, laboratory approaches for early identification of new and emerging illicit substances, novel surveillance strategies for new drugs, public health harm reduction testing for NPS, and clinical and forensic expert panels reviewing the adverse effects of the newest emerging drugs. The event consists of ten panels of experts from around the world invited to share their scientific expertise. This hybrid event will be offered live at the Science History Institute in downtown Philadelphia, Pennsylvania, USA, and virtually in real-time.

November 11, 2024 **The NPS Landscape & Beyond**

Welcome

Barry Logan PhD, CFSRE

Plenary

Fentanyl Express - The Supply Chain

Maurice (Mo) Tamman, Reuters

Program 1

International Trends

Australia
North America
Europe
Africa
Asia

Session Chair, Barry Logan PhD, CFSRE

Jennifer Schumann PhD, EDNA
Alex Krotulski PhD, CFSRE
Michael Evans-Brown PhD, EUDA
Prince Sellase Gameli, UnivPM
Wendy Lee, Singapore HSA

Program 2

Emerging Threats and Future NPS

Prophetic Drug Pharmacological Profiling
Novel Synthetic Opioids and Cannabinoids
Prophetic Drugs: Potential New Drug Classes

Session Chair, Simon Elliott PhD, Elliott Forensic Consulting

Christophe Stove PhD, University of Ghent
Alex Krotulski PhD, CFSRE
Istvan Ujvary PhD, Budapest University

Program 3

NPS Trafficking & Surveillance

Wastewater NPS Surveillance
Interdiction Initiatives on NPS Drugs in Shipping
NPS Testing and Collaborative Approaches

Session Chair, Mandi Mohr MSFS, CFSRE

Richard Bade PhD, University of Queensland
Dave Fluty, U.S. Customs & Border Protection
Agnes Winokur PhD, DEA

November 12, 2024

Laboratory Support for Emerging Drug Threat Investigations

Program 4	NPS Identification, Challenges, and Resources Standards and Reference Materials Analytical Methods - LCMS to QTOF Adulterants & Synthetic Drug Mixtures	Session Chair, Joshua DeBord PhD, CFSRE Donna Iula PhD, Cayman Chemical Sara Walton MSFT, CFSRE Thom Browne, Colombo Plan
Program 5	NPS Pharmacological Threat Assessment Drug Potency Assessment (In Vitro and In Vivo) Sentinel NPS Cases w/o Pharmacology Data Pharmacological Characterization of NPS NPS Pharmacology and Adverse Effects	Session Chair, Barry Logan PhD, CFSRE Michael Baumann PhD, NIDA Donna Papsun MS, NMS Labs Atheir Abbas MD PhD, OHSU Barry Logan PhD, CFSRE
Program 6	NPS Outbreak Adverse Event Testing Cathinone Outbreaks in Florida Nitazene Outbreak in Ireland Synthetic Cannabinoid Outbreaks	Session Chair, Donna Papsun MS, NMS Labs Bruce Goldberger PhD, University of Florida Nicki Killeen PhD, National Science Office Robert Middleberg PhD, NMS Labs

November 13, 2024

Legislation and Policy & Clinical and Forensic Round Tables

Program 7	Synthetic Drugs, Policy, and Legislation International Controls and WHO Scheduling NPS Precursor Controls Drug Scheduling Impacts on NPS Trends	Session Chair, Alex Krotulski PhD, CFSRE Simon Elliott PhD, Elliott Forensic Consulting Sandra Ferreira, Canada Border Services Mandi Mohr MSFS, CFSRE
Program 8	Public Health Drug Checking & Harm Reduction Analytical Approaches & Data Management Drug Checking in Public Health & Harm Reduction Drug Checking Program Experience in Canada	Session Chair, Sherri Kacinko PhD, NMS Labs Joshua DeBord PhD, CFSRE Daniel Teixeira da Silva MD, Philadelphia DPH Karen McDonald, Toronto Drug Checking
Program 9	NPS Clinical Case Round Table A panel of our medical toxicology colleagues will describe and discuss their experience of diagnosing and treating overdoses and adverse events/outbreaks resulting from NPS use, in the emergency room.	Moderator, Timothy Wiegand, University of Rochester Medical Center Lewis Nelson MD, Rutgers NJ Medical School Alex Manini MD, Icahn School of Medicine Joseph D'Orazio MD, Cooper Medical School Alex Krotulski PhD, CFSRE
Program 10	NPS Postmortem Case Round Table A panel of forensic pathologists will share their experience of investigating, interpreting toxicology results and certifying deaths in cases involving NPS use and combined drug overdose.	Moderator, MJ Menendez JD, CFSRE Lorenzo Gitto MD, Cook County ME Office Darinka Mileusnic-Polchan MD, Knox Co. ME Katie Becker, Boulder Co. Coroner's Office Donna Papsun MS, NMS Labs

