MONDAY WORKSHOPS

Pre-Registration Required-\$225

W1 Investigating Publishing: How to Disseminate Your Work

Monday, February 13, 2023 8:30 AM - 4:00 PM **CE Hours:** 5.5

Learning Overview: After attending this workshop, attendees will be able to review and prepare their own work for a scientific publication; determine the best publication venue for specific educational work; develop case work experiences for publication; and create self-promotion through various means on social media.

Impact Statement: This workshop will impact the forensic science community by increasing awareness of the importance of dissemination through educational publications. People within the forensic science community will be able to learn how to best share their work through textbooks, journals, open resources, and social media.

Program Description: It is important for practitioners and educators to share the work done both in the field and in the classroom. Knowing the best ways to publish various types of research and practice can be a challenging task. This workshop will share best practices in scientific publishing. This will include an introduction to scientific publishing, building a strong foundation for your publication, identifying where to publish, working with the peer-review process, transitioning casework into publications, and promoting your work via social media. There will also be a hands-on session to allow participants to bring questions and examples of work for publication.

Chair: Co-Chair:

Lerah Sutton, PhD Gina Londino-Smolar, MS

University of Florida IUPUI

Gainesville, FL Indianapolis, IN

Presenters:

Adrienne Brundage, PhDJason Byrd, PhDTexas A&M UniversityUniversity of FloridaCollege Station, TXGainesville, FL

Kelly Elkins, PhDSharon Plotkin, EdDTowson UniversityMiami Dade College

Towson, MD Miami, FL

Targeted Audience: Anthropology, Criminalistics, Digital & Multimedia Sciences, Engineering & Applied Sciences, General, Jurisprudence, Odontology, Pathology/Biology, Psychiatry & Behavioral Science, Questioned Documents, Toxicology

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8:30 AM – 8:45 AM	Opening Remarks Gina Londino-Smolar, MS
8:45 AM – 9:30 AM	Introduction to Scientific Publishing Lerah Sutton, PhD
9:30 AM – 10:15 AM	Building a Strong Foundation for Your Publication Adrienne Brundage, PhD
10:15 AM – 10:30 AM	BREAK
10:30 AM – 11:15 AM	Identifying Where to Publish Your Work Kelly Elkins, PhD
11:15 AM – 12:00 PM	Working Within the Peer Review Process Jason Byrd, PhD
12:00 PM – 1:15 PM	BREAK
1:15 PM – 2:00 PM	Transitioning Casework in Professional Publications and Portfolios Sharon Plotkin, EdD
2:00 PM – 2:45 PM	BREAKOUT SESSION
2:45 PM – 3:00 PM	BREAK
3:00 PM – 3:45 PM	Promoting Your Publication in Social Media Gina Londino-Smolar, MS
3:45 PM - 4:00 PM	Closing Remarks Jason Byrd, PhD

Program:

W2 Implementing Magnetic Flux Measurements for Forensic Document Examinations

Monday, February 13, 2023

8:30 AM - 4:15 PM

CE Hours: 5.75

Learning Overview: After attending this workshop, attendees will be able to recall and discuss the scientific theory that underlies the instrumentation involved with magnetic flux measurements. They will be able to explain what magnetic properties toner has and how they can be measured. Attendees will be able to prepare a laboratory setup with a Magneto-Optical Imaging Device (MOID) and identify critical variables in the laboratory design, which could impact instrument function. They will be able to follow the methodology provided and operate the instrument to collect magnetic flux measurements from different toner samples. Attendees will be able to evaluate the results they obtain to determine if there has been any type of error or if there is bias. Attendees will be able to interpret the significance of the results.

Impact Statement: This workshop will impact the forensic science community by providing Questioned Document examiners with the knowledge, skills, and abilities necessary to deploy a new methodology for examination of toner-printed documents in their laboratories. This methodology has been found to meet the needs of the community as stated, being rapid, non-destructive, and cost-effective.

Program Description: In this workshop, attendees will learn about the foundational theory behind MOIDs and magnetic flux measurements of toners, as well as the variables that must be considered when developing a method for forensic laboratory use and will then get hands-on experience with instrumentation. During the hands-on portion of the workshop, attendees will learn how to set up the workspace and instrument, how to operate the software associated with the MOID, and how to conduct magnetic flux measurements of different toner samples (including text samples, point samples, and text insertion samples). The attendees will then be able to independently conduct measurements on provided samples to demonstrate their proficiency with the instrumentation and methodology they have learned. Finally, as a group, attendees and instructors will evaluate the results of the independent measurements. At this stage, attendees will learn how to evaluate and interpret the significance of the results they obtain from the instrument and how to assess if the data has been affected by any of the variables discussed during the theoretical session.

Chair: Co-Chair:

Carrie Polston, PhD Zain Bhaloo, MSc

Universite de Lausanne Canada Border Services Agency (CBSA)

Lausanne, SWITZERLAND Ottawa, ON, CANADA

Targeted Audience: Questioned Documents

Knowledge Level Required: Basic

Program:

8:30 AM – 10:00 AM **Section 1: Theory**

Carrie Polston, PhD; Zain Bhaloo, MSc

10:00 AM - 10:30 AM BREAK

10:30 AM – 12:00 PM Section 2: Implementation

Carrie Polston, PhD; Zain Bhaloo, MSc

12:00 PM – 2:00 PM	BREAK
2:00 PM – 3:00 PM	Section 3: Evaluation Carrie Polston, PhD; Zain Bhaloo, MSc
3:00 PM - 3:30 PM	BREAK
3:30 PM – 4:15 PM	Section 4: Questions & Discussion Carrie Polston, PhD; Zain Bhaloo, MSc
3:30 PM – 4:15 PM	,

W3 Forensic Postmortem Radiology: Crossing the Border Between Radiology and Pathology

Monday, February 13, 2023

8:30 AM - 5:00 PM

CE Hours: 6.25

Learning Overview: After attending this workshop, attendees will: (1) have learned the basics in how to get started in the field of forensic radiology, (2) understand the current state-of-the-art and levels of evidence in forensic radiology, (3) will have learned about applications to assist forensic pathologists and practitioners in medical death investigation, and (4) have been made aware of potential resources available to interested practitioners.

Impact Statement: This presentation will impact the forensic science community by providing attendees with expertise from around the world on the use of, best practices for, and the evidence base of forensic postmortem radiology.

Program Description: This workshop will provide an overview of the current state of forensic imaging in the world, the logistics of how to start a forensic imaging program, and how future technologies may impact the field of forensics.

Chair:

Summer Decker, PhDUniversity of South Florida

Tampa, FL

Co-Chair:

Edward Mazuchowski, MD Forensic Pathology Associates

Allentown, PA

Presenters:

Michael J. Thali, MD
University of Zurich
Zurich. SWITZERLAND

Fabrice Dedouit, MDUniversity Hospital of Toulouse
Toulouse, FRANCE

Jonathan M. Ford, PhDUniversity of South Florida
Tampa, FL

Chris O'Donnell, MBBS
Victoria Institute of Forensic Medicine
Victoria, BC, CANADA

Natalie Adolphi, PhD

University of New Mexico School of Medicine Albuquerque, NM

Lars Ebert, PhD
University of Zurich
Zurich, SWITZERLAND

Hideki Hyodoh, MDUniversity of Fukui School of Medicine
Fukui, JAPAN

Rick R. Van Rijn, MD, PhDNetherlands Forensic Institute
Amsterdam, NETHERLANDS

Targeted Audience: Anthropology, General, Pathology/Biology

Program:				
8:30 AM – 9:00 AM	Introductions, Background, and Historical Overview Michael Thali, MD			
9:00 AM – 9:30 AM	Integrating Forensic Imaging Into the Medicolegal Investigation: Practical Step Edward L Mazuchowski, MD, PhD			
9:30 AM – 10:00 AM	Development of a Forensic CT Service in a Medical Examiner Office Natalie L. Adolphi, PhD			
10:00 AM – 10:30 AM	PMCT Status in Australia: An International Perspective Chris O'Donnell, MBBS			
10:30 AM – 10:45 AM	BREAK			
10:45 AM – 11:30 AM	Directed PMCT Angiography and Evaluation of Resuscitative Medical Therapy Edward L Mazuchowski, MD, PhD			
11:30 AM – 12:00 PM	Forensic Postmortem CT in Children: Application and Limitations Rick R. van Rijn, MD, PhD			
12:00 PM – 12:30 PM	Interactive Cases I Rick van Rijn, MD, PhD			
12:30 PM – 1:30 PM	BREAK			
1:30 PM – 2:00 PM	PMCT in Disaster Victim Identification Summer Decker, PhD			
2:00 PM – 2:30 PM	Postmortem Cardiac Imaging Fabrice Dedouit, MD, PhD			
2:30 PM – 3:05 PM	3D Visualization in Forensic Postmortem Radiology: Possibilities and Examples <i>Summer Decker, PhD</i>			
3:05 PM – 3:20 PM	BREAK			
3:20 PM -3:50 PM	The Use of MRI in Forensic Postmortem Imaging Hideki Hyodoh MD, PhD			
3:50 PM – 4:30 PM	Emerging Technologies in Forensic Imaging Jonathan Ford, PhD; Lars Ebert, PD, PhD			
4:30 PM - 5:00 PM	Interactive Cases II Summer Decker, PhD; Lars Ebert, PD, PhD; Jonathan Ford, MD			

W4 Just Communications: Providing Clear and Accurate Reports and Testimony on Forensic DNA Results

Monday, February 13, 2023

8:30 AM - 5:00 PM

CE Hours: TBD

Learning Overview: DNA experts are asked in court to translate hours of chemistry and complex statistical analysis into yes or no answers. We learn to do this from previous experts who teach us the terms of art, metaphorical examples, and boundaries of permissible expert opinion. Like all human communication, this is an evolving art that adjusts to changes in science, computation, law, and culture. After attending this presentation, DNA analysts, lawyers, judges, criminal justice stakeholders, and other attendees will be better able to evaluate and communicate laboratory procedures and findings. They will be encouraged to adopt agile practices for clear and accurate testimony on the witness stand and will be familiar with tips and tricks for guarding against common pitfalls. Participants will also learn from examples that have led to wrongful convictions, including bias in DNA mixture interpretation.

Impact Statement: This presentation impacts the forensic science community by discussing the critical consequences that can result from false or misleading testimony that is anecdotal rather than based on empirical data and ways in which labs and individual analysts may mitigate some of these consequences through technical training, testimony oversight, and quality management.

Program Description: It is essential that forensic scientists are able to clearly and accurately communicate their work, whether it is casework results or new research. This includes talking to other scientists, investigators, attorneys, judges, or jury members, all of which present their own challenges. The presenters will discuss language choice and the impact of certain words and phrases in forensic DNA reports and testimony and methods for resisting pressures from criminal justice stakeholders to stretch testimony beyond the limits of what science can support. Presenters will discuss best practice for communicating scientific results in reports and courtroom testimony to ensure results are being understood and not misunderstood. Topics that will be covered in the presentation are DNA transfer, persistence, prevalence, and recovery; the hierarchy of propositions; evaluating findings given activity-level propositions; and human factors and cognitive bias.

Chair: Co-Chair:

Tiffany A. Roy, JD, MS Cynthia Cale, MS

ForensicAid CMC Forensic DNA Consulting, LLC

West Palm Beach, FL New Caney, TX

Presenters:

Greg Hampikian, PhDJulie Burrill, PhDBoise State UniversityUniversity of DundeeBoise, IDStony Brook, NY

Targeted Audience: Criminalistics, Jurisprudence, Pathology/Biology

Knowledge Level Required: Basic

Program:

8:00 AM – 10:00 AM How to Practically Establish Multidisciplinary Audience-Based Communication

Julie Burrill, PhD

10:00 AM – 12:00 PM	Human Factors in Forensic Testing and Reporting Tiffany Roy, JD, MS
12:00 PM – 1:00 PM	BREAK
1:00 PM – 3:00 PM	Case Assessment & Interpretation: Review & Application of DNA-TPPR Research Cynthia Cale, MS
3:00 PM – 5:00 PM	Case Examples From the Idaho Innocence Project and the Forensic Justice Project Greg Hampikian, PhD

W5 Diversity, Equity, and Inclusion in the World of Forensic Practice: Lessons and Actions

Monday, February 13, 2023

8:30 AM - 5:00 PM

CE Hours: 6.5

Learning Overview: Upon completing this workshop, attendees should be able to acknowledge the need to address historic and ongoing issues of diversity, equity, and inclusion as they impact the forensics community at all levels. With this understanding of the need for action, participants will be armed with a potential path to light the spark of productive change within their own organization in order to move toward parity for all.

Impact Statement: This workshop will impact the forensic science community by addressing many issues encountered that are impacted by failure to recognize diversity, equity, and inclusion, thus allowing attendees to see the scope of the problem from a historical and present-day view. This recognition of the breadth and depth of the problem—along with a primer on working within organizations to make changes for the better—will lead the community toward unity and fairness.

Program Description: This workshop will focus on social justice in the forms of Diversity, Equity, and Inclusion (DEI). *E pluribus unum.* From many one. From its founding, the United States has been seen as a celebration of strength through diversity, although that lesson that can be too easily forgotten, lost, or worse. DEI can be viewed as a means to that lofty ideal—that all people are created equal. Efforts toward social justice attempt to level the playing field for all members of society at local, regional, national, and international levels. Targeted sessions on general forensic practice, medicolegal forensics, representing the hated, and humanitarian efforts will illustrate the need for DEI to strive for parity. The story of the tragic "Pulse shooting" illustrates the depths of depravity, but also tells of the success that can be achieved by embracing unity through diversity. Finally, a primer to ignite organizational efforts will provide a roadmap to a path forward for all.

Chair:

J.C.U. Downs, MD

forensX, LLC

Savannah, GA

Presenters:

Claude Roux, PhD

University of Technology Sydney

Sydney, AUSTRALIA

Jan Gorniak, DO

Clark County Coroner/Medical Examiner

Las Vegas, NV

Duarte Vieira, MD

University of Coimbra Coimbra, PORTUGAL

James McKim, PMP

Organizational Ignition, LLC

Goffstown, NH

Targeted Audience: All Sections

Knowledge Level Required: Basic

Co-Chair:

Gina Londino-Smolar, MS

IUPUI

Indianapolis, IN

Ann Geisendorfer, JD

SUNY Delhi Delhi, NY

Ashley Pennington, JD

Charleston County Public Defenders Office

Charleston, SC

Robin Maynard, AS

Libby's Legacy Breast Cancer Foundation

Orlando, FL

Program:	
8:30 AM – 8:35 AM	Introduction J.C.U. Downs, MD
8:35 AM – 9:15 AM	DEI in Everyday Forensic Practice Claude Roux, PhD
9:15 AM – 10:00 AM	Bias in the Classroom Ann Geisendorder, JD
10:00 AM – 10:15 AM	BREAK
10:15 AM – 11:00 AM	Bias in Medicine Jan Gorniak, DO
11:00 AM – 11:45 AM	Representing Those We Dislike Ashley Pennington, JD
11:45 AM – 12:00 PM	Questions and Answers
12:00 PM – 1:30 PM	BREAK
1:30 PM – 2:15 PM	DEI in Humanitarian Forensic Action Duarte Vieira, MD
2:15 PM – 3:00 PM	The Pulse Shooting—The Phoenix Rises Robin Maynard, AS
3:00 PM – 3:15 PM	BREAK
3:15 PM – 4:45 PM	The Diversity Factor: Igniting Superior Organizational Performance James McKim, PMP

4:45 PM – 5:00 PM Questions and Answers

W6 How Science Works to Identify Unknown Decedents Decades After Death

Monday, February 13, 2023

8:30 AM - 5:15 PM

CE Hours: 7.0

Learning Overview: After attending this workshop, attendees will better understand how science works in a multidisciplinary approach to identify unknown decedents decades after death via multiple lines of evidence and objective data.

Impact Statement: The presentations in this workshop will impact the forensic science community by illustrating a trustworthy process that uses anthropology alongside historical research, archaeology, material evidence analysis, odontology, and biological/chemical analyses—underpinned by a comprehensive quality assurance program and case management system—to make identifications.

Program Description: This workshop will highlight the case resolution process at the Defense POW/MIA Accounting Agency where identifying decedents decades after death is the norm. The presenters will demonstrate the need for objective data from the disciplines of Forensic Archaeology, Forensic Anthropology, Forensic Odontology, Material Evidence Analysis, Chest Radiograph Comparison, Isotope Analysis, and DNA Analysis to support forensic identification using case examples. Participants will learn how a robust surety, or quality assurance, program ensures all scientific work is trustworthy and above reproach in an ASI National Accreditation Board (ANAB) -accredited laboratory. A special emphasis will be included at the end of the workshop to bring all the methods/evidence together to make a complete case for an identification. This integrated portion of the workshop is designed to help the practitioner understand why a multidisciplinary approach is necessary for cold case resolution.

Chair:

Rebecca J. Wilson-Taylor, PhD

Defense POW/MIA Accounting Agency

Kapolei, HI

Presenters:

Kristin Bukovec, BS

Defense POW/MIA Accounting Agency

Mililani, HI

J.S. DeMeo, DMD

Defense POW/MIA Accounting Agency

Honolulu, HI

Timothy P. McMahon, PhD

Defense Health Agency

Camden, DE

Denise To, PhD

Defense POW/MIA Accounting Agency

Kailua, HI

John E. Byrd, PhD

Defense POW/MIA Accounting Agency

Mililani, HI

Targeted Audience: Anthropology, General, Odontology, Pathology/Biology

Knowledge Level Required: Basic

Co-Chair:

Gregory E. Berg, PhD

Defense POW/MIA Accounting Agency

Kaneohe, HI

Lesley A. Chesson, MS

Defense POW/MIA Accounting Agency

Joint Base Pearl Harbor-Hickam, HI

Susan Jaques, MA

Defense POW/MIA Accounting Agency

Joint Base Pearl Harbor-Hickam, HI

Owen O'Leary, PhD

Defense POW/MIA Accounting Agency

Joint Base Pearl Harbor-Hickam, HI

Elizabeth Andreas-Feeney, BS

Defense POW/MIA Accounting Agency

Joint Base Pearl Harbor-Hickam, HI

Program:	
8:30 AM – 8:45 AM	Welcome & Overview John Byrd, PhD
8:45 AM – 9:30 AM	Science Begins in the Field with Forensic Archaeology Denise To, PhD
9:30 AM – 10:15 AM	Forensic Anthropology at the DPAA Rebecca Wilson-Taylor, PhD
10:15 AM – 10:30 AM	BREAK
10:30 AM – 11:15 AM	Dental Identifications in Military Cases at the DPAA J S DeMeo, DMD
11:15 AM – 12:00 PM	Contextual, Circumstantial, and Individualizing Data of Material Evidence Owen O'Leary, PhD
12:00 PM – 1:00 PM	BREAK
1:00 PM – 1:45 PM	Chest Radiograph Comparison in Identifications of U.S. Military Personnel Susan Jaques, MA
1:45 PM – 2:15 PM	The Power of DNA for Cold Case Resolution: Time Depth, Relationships, and Technology Timothy McMahon, PhD
2:15 PM – 2:30 PM	BREAK
2:30 PM – 3:15 PM	Isotope Testing in the Forensic Identification Process Lesley Chesson, MS
3:15 PM – 4:00 PM	The Need for Robust Quality Assurance and Data Management Programs and Benefits of ANAB Accreditation Elizabeth Andreas-Feeney, BS; Kristin Bukovec, BS
4:00 PM – 4:15 PM	BREAK
4:15 PM – 5:00 PM	All the Puzzle Pieces Fit: Personal Identification at the DPAA Gregory Berg, PhD
5:00 PM – 5:15 PM :	Questions and Answers

W7 The Seven Habits for Highly Effective Standards Development

Monday, February 13, 2023 8:30 AM - 12:00 PM

Learning Overview: After attending this presentation, attendees will (1) gain a better understanding of the role and importance of consensus-based standards in strengthening forensic science in the United States and internationally; (2) gain a greater awareness of their own individual role in the development of consensus-based standards, and (3) learn how to provide input and get involved.

CE Hours: 3.25

Impact Statement: The 2009 National Academy of Sciences (NAS) Report emphasized the need for standards in forensic science. Since this Report was issued, more than 140 forensic science standards have been published, and more than 100 of those have been placed on the Organization of Scientific Area Committees (OSAC) Registry. Still, many more disciplinespecific standards are needed to continue to strengthen the field. Standards development is a long and sometimes contentious process. To be successful, those involved must be able to lead themselves and influence, engage, and collaborate with others. This workshop will provide attendees with information on how they can become more effective in the standards development process.

Program Description: Attendees will hear updates about forensic science standards development efforts in the United States and internationally. They will also gain a better understanding of ways to become more effective in participating in the development of consensus-based standards, including how to write documents, submit public and committee comments, and adjudicate those comments. Attendees will also learn the various ways they can get involved in forensic science standards development.

KDX Forensic Consulting, LLC

Chair: Co-Chair:

Agnes Winokur, MS Marc A. LeBeau, PhD

Drug Enforcement Agency Federal Bureau of Investigation

Miami, FL Quantico, VA

Presenters:

Teresa L. Ambrosius, BA Karen Reczek, MLS

AAFS Standards Board NIST

Colorado Springs, CO Rockville, MD

Allison Getz, MS Kevin P. Kulbacki, MSFS **NIST**

Monrovia, MD Chicago, IL

Targeted Audience: Criminalistics, Digital & Multimedia Sciences, General, Jurisprudence, Odontology,

Pathology/Biology, Questioned Documents, Toxicology

Program:	
8:30 AM – 8:45 AM	Introduction and What's New Since AAFS 2022 Teresa Ambrosius, BA
8:45 AM - 9:15 AM	How to Write a Good Standard Karen Reczek, MLS
9:15 AM - 9:45 AM	What is Consensus and How Do We Get There? Agnes Winokur, MS
9:45 AM - 10:00 AM	BREAK
10:00 AM - 10:30 AM	The Best Way to Write and Submit Comments Marc LeBeau, PhD
10:30 AM - 11:00 AM	How Are Comments Adjudicated? Kevin P. Kulbacki, MSFS
11:00 AM - 11:15 AM	How Can YOU Get Involved in the Standards Allison Getz, MS
11:15 AM - 12:00 PM	Questions and Answers

W8 Postmortem Interval Estimation Using a Novel Data Set and Methods

Monday, February 13, 2023

8:30 AM - 12:00 PM

CE Hours: 3.25

Learning Overview: Attendees of this workshop will learn how to use geoFOR application to record decomposition characteristics and estimate the Postmortem Interval (PMI) using the available machine-learning models.

Impact Statement: This workshop will impact the forensic science community's practice by demonstrating a procedure for recording scene and decomposition information and machine learning models to estimate PMI.

Program Description: This workshop will introduce a data repository and associated machine learning models to provide a novel method of estimating the PMI in the geoFOR application. The lack of a large reference dataset for developing reliable and accurate models has been a major barrier for improving methods for determining the time since death.

Since 2019, data from forensic cases and observations from anthropological research facilities have been collected in a reference dataset that contains over 1,500 cases from locations across the United States. This reference dataset is representative of forensic casework; it is geographically diverse and encompasses the various scenarios in which human remains are discovered in forensic casework. Along with decomposition characteristics, the application records location, which allows environmental data from existing databases from the National Oceanic and Atmospheric Administration (NOAA), such as temperature, humidity, and precipitation, to be tied to the location of death to model variables important in the decomposition process. The availability of this reference dataset allows for machine learning models to be employed to provide a robust estimate of PMI with an associated prediction interval.

This workshop will first demonstrate the application, reference data set, and the data entry process. Secondly, Geographic Information Systems (GIS) methods and spatial coding will be introduced to demonstrate how environmental datasets are automatically populated and used in the statistical models and how ArcGIS® is used to store and manage data for collaborators. Third, machine learning models that are used in the predictions of PMI from both observed decomposition variables and integrated environmental variables will be explained. Next, Bayesian generative models will be discussed. These methods are useful for improving research design for future studies of decomposition. For example, using expert knowledge and a priori knowledge, this information can be integrated to provide data-informed stages of decomposition or how decomposition variables are associated with body size or age. Finally, this workshop will provide an overview of how this project aims to follow an Open Science model from the National Institutes of Health with the goal of sharing scientific data to accelerate research discovery, enhance research rigor and reproducibility, provide accessibility to high-value datasets, and promote data reuse for future research studies. Participants will gain experience using the geoFOR application to input data, manage their data in ArcGIS®, and make predictions of PMI.

Chair:

Katherine E. Weisensee, PhD

Clemson University

Clemson, SC

Presenters:

D. Hudson Smith, PhD

Clemson University

Clemson, SC

Patricia Carbajales-Dale, MS

Clemson University

Clemson, SC

Co-Chair:

Cristina I. Tica, PhD

Clemson University

Clemson, SC

Carl Ehrett, PhD

Clemson University

Clemson, SC

Targeted Audience: Anthropology, Criminalistics, General, Pathology/Biology

Knowledge Level Required: Basic

Program:

8:30 AM – 8:45 AM	Introduction and Background
	Katherine E. Weisensee, PhD
8:45 AM – 9:15 AM	Survey Instrument and Data Manual
	Cristina I. Tica, PhD
9:15 AM – 10:00 AM	ArcGIS and Spatially Coded Environmental Data for Informing Models of
	Decomposition
	Patricia Carbajales-Dale, MS
10:00 AM – 10:15 AM	BREAK
10:15 AM – 11:00 AM	Machine-learning Models for Predicting PMI
	Carl Ehrett, PhD
11:00 AM – 11:45 AM	Bayesian Methods for Generating Understanding of Decomposition Process
	D. Hudson Smith, PhD
11:45 AM – 12:00 PM	Open Science, Wrap-up, and Discussion of Next Steps
	Katherine E. Weisensee, PhD

W9 Inside the Black Box: Forensic Psychiatry for Lawyers

Monday, February 13, 2023 9:00 AM - 5:00 PM **CE Hours:** 6.5

Learning Overview: After attending this workshop, attendees will: (1) have an expanded understanding of mental illness; (2) learn how to effectively utilize an expert psychiatric witness in criminal and civil cases; (3) understand the difference between appropriate and inappropriate consult questions for the expert; (4) learn about unethical expert witnesses (how to spot them, why to avoid them, and effectively crossing them); and (5) understand the ethical obligations of an expert witness and anticipate when these can conflict with an attorney's ethical duties.

Impact Statement: This workshop will have a positive impact on the forensic science community in terms of helping attorneys work more effectively and ethically with experts in the mental health field. The skill and knowledge acquired will also help inform members of the forensic mental health field to avoid some of the pitfalls that can occur in the midst of complex legal cases. Some of the ethical issues examined will be generalizable to other expert witnesses.

Program Description: This workshop will cover the history of forensic psychiatry, the use and types of experts, and the clinical and ethical guidelines followed. Discussion will include the crucial differences between a treating clinician and an expert, the use and misuse of psychological testing, and the application of case law and statutes to appropriately answer psychiatric-legal questions. This workshop will be interactive, with case debates prepared by the presenters and invited submissions from attendants. This workshop is designed to help inform attorneys how to work more effectively with mental health experts, as well as confidently navigate the ethical waters when doing so.

Chair: Co-Chair:

Corina Freitas, MDVivian Shnaidman, MDFreitas and AssociatesJersey Forensic Consulting, LLCAlexandria, VAPrinceton, NJ

Presenters:

George D. Annas, MDForensic Psychiatry Consulting, LLC
Syracuse, NY

Targeted Audience: Jurisprudence
Knowledge Level Required: Basic

Program:

9:00 AM - 10:00 AM Introduction of Speakers, Topic, & Basic Psychiatry

Corina Freitas, MD

10:00 AM – 12:00 PM History of Forensic Psychiatry and How to Formulate a Psychiatric-Legal Question

Corina Freitas, MD; Vivian Shnaidman, MD; George D. Annas, MD

12:00 PM – 1:00 PM	BREAK
1:00 PM – 2:00 PM	Ethics in Forensic Psychiatry Corina Freitas, MD; Vivian Shnaidman, MD; George D. Annas, MD
2:00 PM – 3:00 PM	DSM-5, Diagnoses, and Psychological Testing <i>Corina Freitas, MD; Vivian Shnaidman, MD; George D. Annas, MD</i>
3:00 PM – 3:15 PM	BREAK
3:15 PM – 4:30 PM	Active Case Participation Corina Freitas, MD; Vivian Shnaidman, MD; George D. Annas, MD
4:30 PM – 5:00 PM	Questions and Answers

W10 Reefer Madness: The History of Tetrahydrocannabinol (THC) Psychosis and Modern Adverse Events

Monday, February 13, 2023

1:00 PM - 4:30 PM

CE Hours: 3.25

Learning Overview: After attending this workshop, attendees will have a better understanding of the state of cannabis legalization and regulations, the history of cannabis psychosis and adverse events, gaps in the scientific knowledge and promulgated mythology, modern incidents of adverse effects and potential mechanisms, and cases in which evidence and circumstances indicate THC-related psychosis. Content will enable attendees to influence, educate, and collaborate with stakeholders in their communities regarding threats to public health and public safety.

Impact Statement: This workshop will impact the forensic science community by increasing attendees' understanding of the complexities of the impacts of cannabis and THC analogs in our communities and the need for a multidisciplinary collaboration to know the incidents of adverse events and importance of appropriately and thoroughly describing the etiology of adverse events.

Program Description: In many jurisdictions across the United States, alternative cannabimimetic products have erupted and proliferated. Due to knowledge gaps, confusion, and lack of enforcement, new products that are claimed to be legal and safe derivatives of hemp have been propagated. The pervasiveness of products containing synthetic (i.e., unnatural) THC isomers is well known in communities, as they are commonly sold in vape shops, Cannabidiol (CBD) stores, gas stations, and convenience stores. These synthetic THC isomers and derivatives include, but are not limited to, Δ8-THC, Δ10-THC, Δ6a-10a-THC, THC-acetate (THC-O), CBD-di-acetate (CBD-di-O), Tetrahydrocannabiphorol (THC-P), exo-THC, Hexahydrocannabinol (HHC), Tetrahydrocannabutol (THC-B), and halogenated THC. Unknown internet sources have misinterpreted the scientific literature, perpetuating falsehoods and misinformation, and consumers have a false sense of security in the quality and efficacy of these products. A current and significant challenge facing the United States is that the population of persons taking traditional THC products as well as these THC analogs is exponentially more than those who would consume the "older" synthetic cannabinoids. The incidence of reported adverse effects is on the rise, as demonstrated by the increase in calls to poison control centers. However, attribution of the adverse event to a defined drug rarely happens because the product consumed by the person is not analyzed for chemical content and toxicology testing is often limited. Conversely, symptomology and general health of persons is also rarely recorded in the event that products are tested from the self-reporting individual.

Chair:

Michelle R. Peace, PhD

Virginia Commonwealth University Richmond, VA

Co-Chair:

Nicholas B. Tiscione, MS

Palm Beach County Sheriff's Office West Palm Beach, FL

Presenters:

Alaina Holt, BS

Virginia Commonwealth University North Chesterfield, VA

Adam White, PhD

Adam J. White Clinical & Forensic Psychology West Palm Beach, FL

Justin L. Poklis, BS

Virginia Commonwealth University North Chesterfield, VA Targeted Audience: Criminalistics, General, Jurisprudence, Pathology/Biology, Psychiatry & Behavioral Science,

Toxicology

Program	ľ
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1:00 PM – 1:10 PM	Introduction: Cannabis and THC Isomer Products Proliferation Nicholas B. Tiscione, MS
1:10 PM – 1:30 PM	National Cannabis Legislation and Regulations Michelle R. Peace, PhD
1:30 PM – 1:50 PM	THC Mythology and Knowledge Gap Analysis Michelle R. Peace, PhD
1:50 PM – 2:00 PM	The Scope of THC Analogue Analytical Challenges Alaina Holt, BS
2:00 PM – 2:30 PM	THC Psychosis: Historical Perspective and Modern Incidents Justin L. Poklis, BS
2:30 PM – 2:45 PM	BREAK
2:45 PM – 3:00 PM	THC Adverse Effects Potential Mechanisms: Modern Literature Michelle R. Peace, PhD
3:00 PM – 3:45 PM	Case Reports From the Practitioner Lab—Typical THC Impairment vs. THC Madness (Forensic Cases) Nicholas B. Tiscione, MS
3:45 PM – 4:00 PM	Case Report From the Research Lab–Self-Reported, Requested Product Analysis Alaina Holt, BS
4:00 PM – 4:20 PM	Case Report From the Practitioner–Psychiatric Clinical Case Adam White, PhD
4:20 PM – 4:30 PM	Questions and Answers

W11	Acetabular	Age Estimation:	: Theory.	. Method.	and Application
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Monday, February 13, 2023

1:00 PM - 4:30 PM

CANCELED

W12 An Introduction to Automatic and Objective Firearm Evidence Identification and Report of Error Rate

Monday, February 13, 2023

1:00 PM - 5:00 PM

CE Hours: 3.75

CE Hours: 3.25

CANCELED

W13 Intraoral Photography for the Forensic Scientist

Monday, February 13, 2023 1:00 PM - 5:00 PM CE Hours: 3.75

CANCELED