



**34th Annual
Forensic Science Seminar**

September 28–29, 2017

Presented by

Hennepin County Medical Examiner's Office
Minnesota Coroners' and Medical Examiners' Association

Jointly provided by

Minnesota Medical Association
Hennepin County Medical Examiner's Office
Minnesota Coroners' and Medical Examiners' Association



MINNESOTA
MEDICAL
ASSOCIATION





Visit our website!

We invite you to visit the MC&MEA website for the most up-to-date information on the **34th Annual Forensic Science Seminar**.

From this site you can:

- **Download** seminar handouts (when available) and additional seminar registration forms.
- **Get** driving directions to the seminar.
- **Find** useful links and forms.
- **Learn more** about the Minnesota Coroners' and Medical Examiners' Association.

<http://mncmea.org>

Target audience

Physicians

Medical personnel

Attorneys

Law enforcement

Death investigators

Morticians/funeral directors

Continuing Education Credit

- **Legal (CLE)**
- **Peace Officers Standards and Training (POST)**
- **Medical Examiner/Coroner Investigators (ABMDI)**
- **Medical (CME[‡], Nursing CEU[°])**
- **Mortuary Science CEUs (MDH-MSS)**

Application has been filed for CLE, POST, ABMDI and AAFP credits with the proper accrediting organizations. Determination of credit is pending.

[‡]This activity has been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education through the joint providership of the Minnesota Medical Association, the Hennepin County Medical Examiner's Office and the Minnesota Coroners' and Medical Examiners' Association. The Minnesota Medical Association (MMA) is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

The Minnesota Medical Association designates this live activity for a maximum of 15 *AMA PRA Category 1 Credit(s)*[™]. Physicians should claim only the credits commensurate with the extent of their participation in the activity.

[°] This activity is designed to meet the Minnesota Board of Nursing's continuing education requirements. Nurses are responsible for determining whether this activity meets the requirements for acceptable continuing education credit.

Program — Day One

Thursday, September 28, 2017



- 7 a.m.** **REGISTRATION** (*complimentary refreshments*)
- 7:15–7:30** **Introduction**
Lindsey Thomas, M.D.
- 7:30–8** **How to Talk with the Press and Families about Suicide Deaths**
Daniel Reidenberg, Psy.D.
Objectives: Learn best practice language for safely discussing suicides; describe actions and approaches to reduce the risk of copy-cat suicide; teach techniques to help those bereaved by suicide
- 8–9** **Officer-Involved Shooting Deaths: Unique Aspects of the Investigation and the Role of the Forensic Pathologist**
Megan Quinn, M.D.
Objectives: Discuss the history of the investigation of deaths involving use of force in police custody; identify unique aspects of death investigations involving Officer-involved shootings; describe the role of the forensic pathologist in Officer-involved shooting death investigations
- 9–9:30** **Water or Flame... Remains are the Same**
Timothy Koch, B.S.
Objective: Understand the differences between traditional “flame” cremation versus optional “water” cremation
- 9:30–9:45** **BREAK** (*refreshments served*)
- 9:45–10** **Rural Death Investigations**
Catherine Kamman, F-ABMDI
Objective: Recognize the challenges of death investigation in rural Minnesota
- 10–10:30** **Trippin’ on Tryptamines and other Mind Blowing Substances**
Kirk Hughes, R.N., E.M.T., C.S.P.I.
Objectives: Identify agents that are classified as Tryptamines; recognize morbidity and mortality associated with these substances; discuss basic pathophysiology of tryptamines and other hallucinogenics

10:30–11

Fire Fatalities: A Case Study

Owen Middleton, M.D.; Jerry Streich, B.S., CFEI

Objectives: Identify some of the examination challenges with victims who suffer a death as a result of a fire; introduce the basic elements of fire science

11–12

Part I — Barway Collins: A Missing Child, a Murdered Son, and a Father Prosecuted

Stephanie Revering, M.A.; Amy Sweasy, J.D.

Objectives: Examine the disappearance and murder of 10 year old Barway Collins; understand the complex police investigation, including the use of new technology, intense media and public interest; learn about the collaboration of partners and agencies, and how to work with an immigrant community

12–1

LUNCH (*included in registration fee*)

1–2

Part II — Barway Collins: A Missing Child, a Murdered Son, and a Father Prosecuted

Stephanie Revering, M.A.; Amy Sweasy, J.D.

Objectives: Examine the disappearance and murder of 10 year old Barway Collins; understand the complex police investigation, including the use of new technology, intense media and public interest; learn about the collaboration of partners and agencies, and how to work with an immigrant community

2–3

Investigation and Prosecution of Drug-related Deaths

Peter Lin, M.D.; Eric Woodford, J.D.

Objectives: Understand the role of the medical examiner/coroner in investigating drug-related deaths; understand the challenges of certifying some types of drug-related deaths (delayed deaths, etc.); understand the challenges of prosecuting drug-related deaths; understand the specific prosecutorial challenges presented by drug-related deaths involving multiple controlled substances

3–3:15

BREAK (*refreshments served*)

3:15–3:30

Perfecting our Partnership: The Minnesota Paper Cut Project

Molly Mulcahy Crawford, M.B.A.

Objectives: Recognize the benefits of electronic death registration; describe security features that protect professionals who provide the cause of death and MEs and Coroners who authorize disposition; illustrate system functionality that improves the accuracy, completeness, and timeliness of death records

3:30–4:30 A Multiagency Response: Four perspectives on Emerging Trends in the Overdose Crisis

Sara Love, PhD; Travis Olives, M.D., M.P.H., M.Ed.; Kenneth Solek;
Rebecca Wilcoxon, M.D.

Objectives: Understand law enforcement & medical examiner challenges when investigating & certifying overdose deaths; discuss critical care and rational antidotal therapy in the post-heroin world; describe potential gaps and mitigation strategies in toxicology testing for novel compounds

4:30 CONCLUSION OF DAY ONE

4:45–5:30 MC&MEA Annual Meeting

MC&MEA members may remain in the main room for the annual business meeting.

Program — Day Two

Friday, September 29, 2017



- 7 a.m.** **REGISTRATION** (*complimentary refreshments*)
- 7:30–9** **Overview of Mass Fatality Response for Rural Communities**
Arbie Goings, A.S.
Objectives: Explain how a mass fatality response differs from daily medical legal operations; describe the important factors to consider in formulating a response; provide an overview of the three operational components of a response
- 9–9:45** **Identification via Social Media**
Lieutenant Jeff Rugel, B.A.
Objectives: Understand the capabilities and limitations inherent in using open source and social media information in investigations; see real-world examples of the use of social media information in identifying previously unknown subjects; understand the way information from multiple sources can be combined to increase certainty; understand the ways other investigative agencies can assist in open source & social media based investigations
- 9:45–10** **BREAK** (*refreshments served*)
- 10–10:45** **Child Physical Abuse Mimics**
Arne Graff, M.D.
Objectives: Recognize potential accidental and medical mimics of abuse-like injuries; develop understanding of differential and workup for abusive physical injuries
- 10:45–11** **New Mexico—The Land of Enchantment: A Collection of Interesting and Unusual Cases**
Rebecca Asch-Kendrick, M.D.
Objectives: Illustrate the variety of autopsy investigations in a statewide system
- 11–12** **Part I — Divine Intervention: Solving and Prosecuting the Brutal Murder of Earl Olander**
David Hunt, J.D.; Mark Metz, J.D.; A. Quinn Strobl, M.D.; Christina Wagner, B.S.
Objectives: Illustrate through an actual murder case the investigation, autopsy and prosecution of the case
- 12–1** **LUNCH** (*included in registration fee*)

- 1–1:45** **Part II — Divine Intervention: Solving and Prosecuting the Brutal Murder of Earl Olander**
David Hunt, J.D.; Mark Metz, J.D.; A. Quinn Strobl, M.D.; Christina Wagner, B.S.
Objectives: Illustrate through an actual murder case the investigation, autopsy and prosecution of the case
- 1:45–2** **Utility of Forensic Examination of Human Skeletal Elements at Autopsy: It’s not just for generating a biological profile**
Walter Kemp, M.D., PhD
Objectives: With examples, describe the utility of removal of bones at autopsy for the purpose of trauma analysis; describe the use of cranial reconstruction to aid in the interpretation of blunt force and gunshot and shotgun wounds of the head
- 2–2:15** **Who Speaks for the Dead? The Epidemiological Impact of Religious Objections to Autopsy**
Nate Wright, MPH
Objectives: Understand the importance of accurate cause of death information as the fundamental health statistic; identify the impact the religious objection to autopsy legislation has had on death certificates and cause of death reporting; recognize the importance of working with families to accommodate their autopsy requests
- 2:15–2:45** **Digital Evidence**
Donald Cheung, M.S.
Objectives: Understand what digital evidence is – how to recognize it, how to handle it in a safe manner; safeguard and preserve digital evidence in its original form; understand types of information we can retrieve from individual devices; understand some of the liability issues that computer crime presents
- 2:45–3:00** **BREAK** (*refreshments served*)
- 3–3:15** **Lights Out**
Lorren Jackson, M.D.
Objectives: Discuss the details of an interesting case of electrocution; review basic principles of electric power; and recognize features of electrical injury possibly encountered during death scene investigation and autopsy
- 3:15–3:45** **Columbia Shuttle Disaster— How it Affected the Community**
Arbie Goings, A.S.
Objectives: Provide an overview of the incident; illustrate how it affected the local residents; describe how the community came together to support the response

3:45–4

Be Careful What You Go Looking For

Andrew Baker, M.D.

Objectives: Explain the general approach to performing an autopsy when a death is in a jail or prison; describe the range of blood levels seen when investigating methamphetamine-related deaths; know the morphological characteristics and life cycle of *Ascaris lumbricoides*

4:00 p.m.

CLOSING REMARKS

Lindsey Thomas, M.D.

Faculty

Rebecca Asch-Kendrick, M.D.

Assistant Medical Examiner
Midwest Medical Examiner's Office

Andrew Baker, M.D.

Board of Directors, MC&MEA
Chief Medical Examiner
Hennepin County Medical
Examiner's Office

Donald Cheung, M.S.

Special Agent in Charge
Minnesota Bureau of
Criminal Apprehension

Molly Mulcahy Crawford, M.B.A.

State Registrar
Minnesota Department of Health

Arbie Goings, A.S.

Owner
Goings Consulting Services, LLC

Arne Graff, M.D.

Medical Director, Child &
Family Advocacy Program
Mayo Clinic

Kirk A. Hughes, R.N., E.M.T., C.S.P.I.

Certified Poison
Information Specialist
Minnesota Poison Control System
Death Investigator
Hennepin County Medical
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David Hunt, J.D.

First Assistant County Attorney
Carver County Attorney's Office

Lorren Jackson, M.D.

Board of Directors, MC&MEA
Assistant Medical Examiner
Hennepin County Medical
Examiner's Office

Catherine Kamman, F-ABMDI

Chief Death Investigator
Midwest Medical Examiner's Office

Walter Kemp, M.D., PhD

Board of Directors, MC&MEA
Associate Professor of Pathology
University of North Dakota School
of Medicine and Health Sciences

Timothy Koch, B.S.

Board of Directors, MC&MEA
Owner/Operator
Metro First Call

Peter Lin, M.D.

Assistant Professor of Laboratory
Medicine and Pathology
Mayo Clinic

Sara Love, Ph.D.

Associate Director for Clinical
Chemistry, Toxicology, and
Point of Care Testing
Hennepin County Medical Center

Mark Metz, J.D.

County Attorney
Carver County Attorney's Office

Owen Middleton, M.D.

Board of Directors, MC&MEA
Assistant Chief Medical Examiner
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Travis Olives, M.D., M.P.H., M.Ed.

Faculty Physician,
Emergency Medicine
Hennepin County Medical Center
Associate Medical Director
Minnesota Poison Control System

Megan Quinn, M.D.

Forensic Fellow
Hennepin County Medical
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Daniel Reidenberg, Psy.D.

Executive Director
Suicide Awareness Voices of
Education (SAVE)

Stephanie Revering, M.A.

Chief of Police
Crystal Police Department

Lieutenant Jeff Rugel, B.A.

Commander: Strategic
Information Center
Minneapolis Police Department

Kenneth Solek

Assistant Special Agent
in Charge, DEA
United States Department
of Justice

Jerry Streich, B.S., CFEI

Fire Chief/Emergency Manager
City of Andover

A. Quinn Strobl, M.D.

Board of Directors, MC&MEA
Chief Medical Examiner
Midwest Medical Examiner's Office

Amy Sweasy, J.D.

Senior Attorney, Adult Prosecution
Hennepin County Attorney's Office

Detective Christina Wagner, B.S.

Criminal Investigator
Carver County Sheriff's Office

Rebecca Wilcoxon, M.D.

President, MC&MEA
Assistant Medical Examiner
Hennepin County Medical
Examiner's Office

Eric Woodford, J.D.

Chief Deputy Attorney
Olmsted County
Attorney's Office

Nate Wright, MPH

SAMHSA/CSTE Applied
Epidemiology Fellow
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Seminar Planning Team

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Location

Doubletree by Hilton—Park Place

***1500 Park Place Boulevard
St. Louis Park, MN 55416***

Plenty of free parking is available in surface lots at the Doubletree. Maps and directions can be viewed by visiting mapquest.com.

Accommodations

Doubletree by Hilton—Park Place

***1500 Park Place Boulevard
St. Louis Park, MN 55416***

September 27–28, 2017 at a rate of \$135/night. Space and special rate can not be assured after September 13, 2017.

Room reservations can be made by calling 1-800-245-9190 and mentioning the 34th Annual Forensic Science Seminar Group.

Registration form for the 34th Annual Forensic Science Seminar

I will attend: Thursday, 9/28/17 and/or Friday, 9/29/17

Registration Category	Early Rate On or before August 31, 2017	Regular Rate On or after September 1, 2017
<input type="checkbox"/> Physician	\$350	\$390
<input type="checkbox"/> Non-Physician	\$310	\$340
<input type="checkbox"/> I would like a printed copy of the handouts.	\$40	\$40

Registration fee includes lunch.

Total Amount paid: _____

Name Job title

Employer County

Office address

(_____) _____ (_____) _____
Office phone Office fax

COMPLETE e-mail address

NOTE: We will be distributing a list of attendees and their contact information to all conference participants. If you do not wish to be on this list, please check here.

Choice of lunch entrée for day 1 (served tableside at Doubletree by Hilton Hotel)

Please choose: Cranberry Citrus Stuffed Chicken Breast **OR**
 Grilled Vegetable Linguini

Lunch on day 2 will consist of a Italian buffet served at Doubletree by Hilton Hotel

Special needs

Please advise us of any special needs you may have regarding facility access, hearing/vision, diet, etc. We will do our best to accommodate you!

Your comfort

Please dress in layers—room temperature is unpredictable.

Payment

Registration check or purchase order **MUST** accompany registration and be received no later than September 15, 2017. **NO REFUNDS** after September 18, 2017.

Make check payable to:

Hennepin County Medical Examiner

Return completed registration to:

Joan Jung, Seminar Coordinator
Hennepin County Medical Examiner's Office
530 Chicago Ave., Minneapolis, MN 55415

Phone: 612-215-6320

Fax: 612-466-9980

Videotaping and audiotaping are strictly prohibited during the conference.