35th Annual
Forensic Science Seminar
September 27–28, 2018

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
Visit our website!

We invite you to visit the MC&MEA website for the most up-to-date information on the 35th 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](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 15.75 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.
6:45 a.m.  REGISTRATION *(complimentary refreshments)*

7–7:15  Introduction  
Lindsey Thomas, M.D.

7:15–8  **Death in Childbirth: Examining Maternal Mortality in the United States**  
Kendra Palmer, M.D.

Objectives: Understand the physiologic changes of pregnancy; state the definition of maternal mortality; recognize the most common causes of maternal mortality

8–9  **Homicide or Motor Vehicle Accident?**  
Tim Candahl, Fritz Leinfelder, John Zimmerman

Objectives: Understand the importance of case analysis; recognize the value of trusting your gut and following up on inconsistencies

9–9:45  **Death by Drugs: Current Trends**  
Kirk Hughes, R.N., E.M.T., C.S.P.I.

Objective: Identify morbidity and mortality by current drugs of abuse at the State and National level; discuss mechanisms of toxicity by drug class

9:45–10  **BREAK**

10–10:15  **Investigating Drug Related Death Scenes**  
Carrie Notch, B.S., M.S., Ph.D., F-ABMDI

Objective: Recognize the importance of thorough scene investigation in drug deaths; recognize drug evidence that may not be obvious at death scenes; develop the skills necessary to locate, identify, document and preserve drug evidence at death scenes

10:15–11  **The Romanov’s Remains: a Duel of Myth vs Science**  
Rafael E. Jimenez, M.D.

Objectives: Understand the historical background that lead to and surrounded the assassination of the Russian Imperial family in July 1918; understand the events surrounding the discovery of their remains and the compounding factors of their analysis; review techniques and modalities used in the identification of the remains
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Description</th>
<th>Speaker(s)</th>
<th>Objectives</th>
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<tbody>
<tr>
<td>11–12</td>
<td>Part I:</td>
<td>A Case Study involving the 2014 Murder of Christopher Rossing — Some Bones and Partial Teeth but No Positive Identification or Cause of Death</td>
<td>Tom Kelly, J.D.; Brian Lutes, J.D.; Ann L. Norrlander, D.D.S., DABFO; Dean Olson, A.A</td>
<td>Understand the importance of the “Team Approach” to adjudicate cases; recognize the value of forensic evidence and how to leverage the evidence for a more favorable outcome, and learn about the importance of a Grand Jury</td>
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<tr>
<td>12–1</td>
<td>LUNCH</td>
<td>(included in registration fee)</td>
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<tr>
<td>1–2</td>
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<td>2–2:15</td>
<td>Just Super!</td>
<td>Issues and learnings from the Super Bowl</td>
<td>John Hick, M.D.</td>
<td>Review planning challenges for mass gathering events; discuss key issues with healthcare and EMS preparedness for the Super Bowl; understand regional constructs for EMS and healthcare preparedness and response</td>
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<td>2:15–2:30</td>
<td>My Brother’s</td>
<td>Keeper</td>
<td>Kriste R. Ross, B.S., F-ABMDI</td>
<td>Describe the death investigation of a vulnerable adult under the care of an incompetent caretaker</td>
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<td>2:30–2:45</td>
<td>BREAK</td>
<td>(refreshments served)</td>
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2:45–3  **Surprise Endings**  
Veena Singh, M.D.

Objectives: Recognize the importance of keeping a wide differential during death investigation; recognize the importance of gathering social and medical history even in presumed traumatic deaths

3–4:30  **Drowning or Deception: The Death of Sophia O’Neill**  
Teresa Froehlke, J.D.; Nancy Sanders Harper, M.D., FAAP; Lorren W. Jackson, M.D.; Kristi J. Jarvis, R.N., SANE-A, SANE-P

Objectives: Recognize the importance of multidisciplinary cooperation in the investigation, documentation, certification and adjudication of a death due to pediatric child abuse; compare the medical-forensic sexual assault exam performed on a victim with that performed on a suspect; list the location of injuries on infants and toddlers commonly associated with abuse

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 28, 2018

7 a.m.  REGISTRATION (complimentary refreshments)

7:15–7:30  Welcome Back!
Lindsey Thomas, M.D.

7:30–8  Improving our Data, Enhancing Our Response: Drug Overdose Surveillance
Terra Wiens, B.A., MPH; Nate Wright, B.A., MPH
Objectives: Describe the current state of drug overdose mortality in Minnesota; understand current drug overdose surveillance systems in Minnesota; illustrate examples of how MDH is using Medical Examiner data to improve drug overdose surveillance

8–9  Investigating Officer Involved Shootings
Christopher S. Olson, B.S., M.A.
Objective: Understand the current investigative practices involving the use of deadly force by police officers

9–9:15  Calling an Audible: Continuity of Medicolegal Operations during a Superbowl
Shawn J. Wilson, B.S., ABMDI
Objective: Understand the importance of developing a COOP plan and an agency specific mass fatality plan; understand the need to plan for contingencies in large scale events

9:15–9:30  LARGE... and in Charge!
Timothy Koch, B.S.
Objective: Implement best practice techniques for safely lifting, transferring and transporting obese cases; identify and discuss available equipment for obese removals

9:30–9:45  BREAK

9:45–10:30  Fatality Search and Recovery Team Capabilities
Justin Boucher, B.S.; Jessica Smart
Objective: Describe the opportunities to utilize the Fatality Search and Recovery Team’s capabilities
10:30–11  Investigation of Injuries and Deaths in Vulnerable Adults
Elizabeth Bosneag, LSW; Mark Koponen, M.D.

Objectives: Understand the definition of “Vulnerable Adult”; describe the circumstances in which MN Regulatory Agencies would be involved with vulnerable adults; understand how to collaborate on death investigations

11–12  Part I: Minnesota Serial Killer Case Study
Kari Gibson, Psy.D, LP

Objectives: Describe BDSM and how it relates to this serial killer investigation; discuss the offender’s personality characteristics and how that impacted this serial killer investigation; illustrate through case study complexities of working multi-jurisdictional serial killer investigation

12–1  LUNCH (included in registration fee)

1–2  Part II: Minnesota Serial Killer Case Study
Kari Gibson, Psy.D, LP

Objectives: Describe BDSM and how it relates to this serial killer investigation; discuss the offender’s personality characteristics and how that impacted this serial killer investigation; illustrate through case study complexities of working multi-jurisdictional serial killer investigation

2:30–2:45  BREAK (refreshments served)

2:45–3:30  Hoarding Disorder: Understanding the How’s and Why’s
Janet Yeats, M.A., LMFT

Objectives: Learn the definition of hoarding disorder; recognize causes and triggers of hoarding behaviors; understand effective techniques for interactions with people who hoard and family members
3:30–3:45  The Gift of Time
Lisa Kinsella, B.S.
Objectives: Understand a personal experience with postmortem tissue donation; discuss the decision to donate tissue and the process for donation from a donor family’s perspective; highlight the emotional benefits, healing and catharsis achieved as a result of the decision to donate tissue

3:45–4:15  Stories Told by Bloodstains in Forensics
Jenny Bunkers, B.S., M.B.A, CSCSA, CLPE
Objectives: Learn what information can be gained by Bloodstain Pattern Analysis (BPA); demonstrate the impact of BPA on real cases

4:15 p.m.  CLOSING REMARKS
Lindsey Thomas, M.D.
Faculty

Elizabeth D. Bosneag, LSW
Licensed Social Worker and Assessor
Minnesota Department of Human Services
Office of Inspector General, Licensing Division

2nd Lieutenant Justin Boucher, B.S.
Fatality Search & Recovery Liaison Officer
55th Chemical Biological Radiological Nuclear Enhanced Response Force Package

Jenny Bunkers, B.S., M.B.A., CSCSA, CLPE
Business Analyst
Zuercher Technologies

Tim Candahl
Chief Medical Examiner
La Crosse County, WI

Teresa Froehlke, J.D.
Senior Attorney
Juvenile Prosecution Division
Hennepin County Attorney’s Office

Karie A. Gibson, Psy.D., LP
Supervisory Special Agent
Critical Incident Response Group
Behavioral Analysis Unit
Federal Bureau of Investigation (FBI)

Amanda M. Gronhovd, M.S., RPA
Minnesota State Archaeologist
Office of the State Archaeologist

Nancy Sanders Harper, M.D. FAAP
Director, Otto Bremer Trust Center for Safe and Healthy Children, Child Abuse Pediatrics
Dept. of Pediatrics, University of Minnesota Masonic Children’s Hospital

John L. Hick, M.D.
Department of Emergency Medicine
Hennepin County Medical Center

Kirk A. Hughes, R.N., E.M.T., C.S.P.I.
Education Director/Certified Specialist in Poison Information
Minnesota Poison Control System

Lorren W. Jackson, M.D.
Assistant Medical Examiner
Hennepin County Medical Examiner’s Office
Board of Directors, MC&MEA

Kristi J. Jarvis, R.N., SANE-A, SANE-P
Forensic Nurse Examiner
Program Coordinator, Hennepin Assault Response Team (HART)
Hennepin County Medical Center

Rafael E. Jimenez, M.D., MHA
Associate Professor, Mayo Clinic
Department of Laboratory Medicine & Pathology, Division of Anatomic Pathology

Tom Kelly, J.D.
Wright County Attorney
Wright County Attorney’s Office

Lisa M. Kinsella, B.S.
Forensic Scientist 2
Minnesota Bureau of Criminal Apprehension
Firearm and Toolmarks

Timothy Koch, B.S.
Owner/Operator
Metro First Call
Board of Directors, MC&MEA

Mark A. Koponen, M.D.
Associate Professor of Pathology
University of North Dakota School of Medicine and Health Sciences
Vice-President, MC&MEA

Fritz Leinfelder
Investigator
La Crosse County Sheriff’s Office

Brian Lutes, J.D.
Chief of Criminal Division
Wright County Attorney’s Office

Ann L. Norrlander, DDS, DABFO
Adjunct Assistant Professor
University of Minnesota School of Dentistry
Department of Dentistry
Hennepin County Medical Center

Carrie Notch, B.S., M.S., Ph.D., F-ABMDI
Investigator
Hennepin County Medical Examiner’s Office
Adjunct Professor, Hamline University

Christopher S. Olson, B.S., M.A.
Senior Special Agent
Metro Regional Office—Homicide
Minnesota Bureau of Criminal Apprehension

Dean Olson, A.A.
Deputy Sheriff
Wright County Sheriff’s Office

Kendra L. Palmer, M.D.
Forensic Fellow
Hennepin County Medical Examiner’s Office

Veena Singh, M.D., MPH
Assistant Medical Examiner
Midwest Medical Examiner’s Office

Continued on page 11
Faculty  continued

Technical Sergeant Jessica N. Smart  
Fatality Search and Recovery, NCO  
55th Chemical biological Radiological Nuclear  
Enhanced Response Force Package  
Duluth, MN

Terra Wiens, B.A., MPH  
Applied Epidemiology Fellow  
Drug Overdose Surveillance Project Coordinator  
Minnesota Department of Health  
Injury and Violence Prevention

Shawn J. Wilson, B.S., ABMDI  
Forensic Operations Manager  
Hennepin County Medical Examiner’s Office

Nate Wright, B.A., MPH  
Epidemiologist Intermediate  
Drug Overdose Surveillance Project Coordinator  
Minnesota Department of Health  
Injury and Violence Prevention

Janet R. Yeats, M.A. LMFT  
Marriage and Family Therapist  
Private Practice

John Zimmerman  
Captain of Investigative Bureau  
La Crosse County Sheriff’s Office

Seminar Planning Team

Andrew Baker, M.D.  
Hennepin County Medical Examiner’s Office

Darlyne Erickson, CAE  
MN Funeral Director’s Association  
Executive Director

Joan Jung, B.A.  
Hennepin County Medical Examiner’s Office

Melissa Lallak, MBA, MLS (ASCP)  
Hennepin County Medical Examiner’s Office

C. Paul Martin, M.D.  
Owen Middleton, M.D.  
Hennepin County Medical Examiner’s Office

Lindsey Thomas, M.D.  
Program Chairperson

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 26–27, 2018 at a rate of $139/night. Space and special rates cannot be assured after September 7, 2018.

Room reservations can be made by calling 1-800-245-9190 and they should identify themselves as members of the 35th Annual Forensic Science Seminar Group.
Registration form for the 35th Annual Forensic Science Seminar

I will attend: ❑ Thursday, 9/27/18 and/or ❑ Friday, 9/28/18

<table>
<thead>
<tr>
<th>Registration Category</th>
<th>Rate</th>
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<tbody>
<tr>
<td>❑ Physician</td>
<td>$350</td>
</tr>
<tr>
<td>❑ Non-Physician</td>
<td>$310</td>
</tr>
<tr>
<td>❑ I would like a printed copy of the handouts.</td>
<td>$40</td>
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</tbody>
</table>

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 one: ❑ Roasted Pork Loin ❑ Vegetarian Shepard’s Pie
Lunch on day 2 will consist of a Southwest 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 14, 2018. Unfortunately, we are unable to accept credit cards. NO REFUNDS after September 21, 2018.

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.