32nd Annual Forensic Science Seminar
September 17-18, 2015

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

Jointly sponsored 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 32nd 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 (MMA) designates this live activity for a maximum of 15 AMA PRA Category 1 Credits™. 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.
7 a.m.  REGISTRATION (complimentary refreshments)

7:30-7:45  Introduction

7:45-8  Atypical Administration of Alcohol
Rebecca Wilcoxon, M.D.
Objective: Describe unusual methods in which alcohol is administered and the forensic significance

8-8:45  Sharp Force Injuries
Stephanie Stauffer, M.D.
Objectives: Review the three main types of sharp force injuries (stab wound, incised wound, chop wound); discuss the examination of a sharp force injury (external examination, photographic documentation, internal examination)

8:45-9  Minnesota State Patrol Death Notifications
Captain Christopher Erickson, B.S.
Objectives: Understand when the State Patrol becomes involved with death notifications; learn about the resources the State Patrol provides to grieving families; discuss how to contact the MN State Patrol to request a death notification; review tips and practices for making effective and proper death notifications

9-10  Drugs, Demons and Death on the Street: Trends and Treatments
Kirk Hughes, R.N., E.M.T., C.S.P.I.
Objectives: Summarize current Drugs of Abuse trends in Minnesota and the US; describe physiological effects of street and synthetic drug use and abuse; identify morbidity and mortality associated with use of Drugs of Abuse

10-10:15  BREAK (refreshments served)

10:15-10:45  Ebola: Global Crisis: Local Response
Stacy Holzbauer, D.V.M., M.P.H.
Objectives: Describe the epidemiology of Ebola virus disease (EVD); understand the exposures that propagated EVD in West Africa; understand the local measures enacted to respond to EVD

10:45-12 p.m.  Malina’s Bar Homicide
Lindsey Garfield, B.A.; Michael McGee, M.D.; Jake Peterson, B.S.
Objective: Learn the importance of a complete and thorough investigation
12-1  LUNCH *(included in registration fee)*

1-1:30  **How The (Bleep) Did They Do That??!? Freeway Traffic Cameras and Incident Investigation**  
John McClellan  
Objectives: Understand the uses and limitations of the MNDOT traffic cameras; recognize the importance of maintaining traffic flow on the freeways when possible; be aware of common crash causes seen on MN DOT cameras

1:30-1:50  **Investigating Death in Epilepsy Patients**  
Thomas Henry, M.D.  
Objectives: Review epilepsy and mortality; define SUDEP and communicate key factors regarding SUDEP deaths; explain why categorizing is important with a direct correlation to research

1:50-2:10  **Rural Funeral Director as the Last Line of Defense**  
Everett H. Bain, B.S.  
Objective: Recognize the valuable information the rural funeral director can contribute at the death scene

2:10-2:30  **Beyond ‘Flu-like’ Symptoms: Exploring the Differential Diagnosis for a Common Presenting Complaint**  
Sarah Meyers, M.D.  
Objective: Compare scene and autopsy findings suggestive of influenza to those of other natural diseases and conditions

2:30-2:45  **BREAK** *(refreshments served)*

2:45-3:45  **The Jeffrey Dahmer Case: A 25 Year Review**  
Jeffrey Jentzen, M.D., Ph.D.  
Objectives: Understand the qualities and practices of serial killers; prepare the medical examiner/coroner for high-profile case investigations; demonstrate the techniques of examining unique autopsy specimens

3:45-4:30  **Using DNA Technology to Identify the Missing**  
Leah Arnold, B.A.  
Objective: Learn about the capabilities of the BCA Laboratory for missing and unidentified person cases and the important role of forensic anthropology and the MN Missing Persons Clearing House

4:30  **CONCLUSION OF DAY ONE**

4:45-5:30 p.m.  **MC&MEA Annual Meeting**  
MC&MEA members may remain in the main room for the annual business meeting.
7:30 a.m. REGISTRATION (complimentary refreshments)

7:45-8:15 Vital Signs: Improving the Quality and Timeliness of Minnesota Death Records
Molly Mulcahy Crawford, M.B.A.

Objectives: Describe the process and requirements for successfully completing the cause and manner of death in the electronic vital records system; illustrate the importance of clear and descriptive statements and their impact on meaningful ICD10 coding and use by public health professionals and others consumers of death data; recognize the critical role physicians and medical examiners play and their unique responsibilities in correctly recording death events for medical and legal purposes.

8:15-9:15 Death in a Bathtub: The Defense of Drew Peterson
Jeffrey Jentzen, M.D., Ph.D.

Objectives: Investigation of deaths due to drowning; review of head injuries due to falls; pitfalls of the scene investigation; preparing for court in high-profile cases; understanding the legal application and consequences of “Drew’s Law”

9:15-9:45 The Development of the New Law on Religious Freedom Objections to Autopsies in MN
Tadd Johnson, J.D.

Objectives: Understand how and why the new law was developed; review how the law will apply to Medical Examiners; understand how to work with diverse cultures and faiths with Native Americans as an example

9:45-10 Forensic Toxicology Testing in Three Acts
Sara Love, Ph.D.

Objectives: Recognize the importance of sample type and timing in toxicology interpretation; describe common pitfalls in toxicology testing; describe strategies to avoid those common pitfalls in testing.

10-10:15 BREAK (refreshments served)

10:15-11 Norman County Case: Multiple Jurisdictions, Caregivers, and Responders in Judicial Resolution of a Child’s Death
Mary Ann Sens, M.D., Ph.D.

Objectives: Recognize the importance of first responder notes and observations; describe autopsy studies for potential cervical neck injury; recognize difficulties in investigation and judicial resolution of child deaths with multiple caregivers.
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<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
<th>Objectives</th>
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<tbody>
<tr>
<td>11-11:30</td>
<td>3D Printing: Uses in Forensic Science</td>
<td>Jonathan Morris, M.D.</td>
<td>Objectives: Discuss the role of 3D printing as a demonstrable aid in non-accidental, varied traumas, and post mortem forensic pathology; illustrate the benefits of 3D printing including education to the legal community, forensic pathologists, and forensic radiologists</td>
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<td>11:30-11:45</td>
<td>The Perfect Murder</td>
<td>Agnieszka Rogalska, M.D.</td>
<td>Objectives: Define two different types of neck holds; understand the physiologic mechanisms resulting in asphyxia in each type of hold; identify the potential dangers of each type of neck hold; identify groups of people at risk of death from such neck holds</td>
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<td>11:45-12 p.m.</td>
<td>I Object!</td>
<td>Shawn Wilson, B.S., F-ABMDI</td>
<td>Objective: Understand the new religious objection law and its impact on how medical examiners interact with families</td>
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<td>12-1</td>
<td>LUNCH (included in registration fee)</td>
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<td>1-1:20</td>
<td>Mechanical Circulatory Support Devices Encountered at Autopsy</td>
<td>Melissa Blessing, D.O.</td>
<td>Objectives: Understand the role of mechanical circulatory support devices; describe possible complications associated with mechanical circulatory support devices; understand how to assess and properly document mechanical circulatory support devices at autopsy</td>
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<td>1:20-1:40</td>
<td>The MN Compassionate Care Act</td>
<td>Janet Conn, M.S.W, M.S.</td>
<td>Objective: Explore how implementation of an aid-in-dying law would affect the work of the death investigation community</td>
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<td>1:40-2</td>
<td>Climbing High</td>
<td>Lorren Jackson, M.D.</td>
<td>Objective: Discuss a case of electrocution during tree trimming; review basic electrical principles; appreciate common findings and hazards of death scene investigations involving electric power</td>
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The Byron Smith Case: The Death Investigation of Nicholas Brady and Haile Kifer
Kelly Mills, M.D.; Chad Museus, B.A.; Nathaniel Pearlson, M.S.; Brent Wartner, J.D.
Objectives: Learn details of an interesting case that crossed the line from self-defense to premeditated murder; understand the contributions of investigators, forensic scientists (including CSIs), medical examiners and prosecutors

3:30-4
Toxic Vaults: Chemical Warfare Agents and Turn of the Century Safe Cracking
Travis Olives, M.D., Med, M.P.H
Objectives: Describe the signs and symptoms of upper respiratory chemical irritants; identify atypical sources of exposure to historical lacrimating agents; recognize ongoing sources of exposure to lacrimating agents in greater Minnesota

4:15-4:30
Did He Really Do This and Who is He?
Kenneth Snell, M.D.
Objectives: Recognize that persistent investigation into a decedent’s activities can be invaluable and improving your knowledge of unusual suicide methods can calm fears; recognize the importance of Forensic Odontology in the identification process

4:30 p.m.
CLOSING REMARKS
Anne Bracey, M.D.
Faculty

Leah L. Arnold, B.A.
Forensic Scientist I
Minnesota Bureau of Criminal Apprehension

Everett H. Bain, B.S.
Deputy Coroner, Chippewa & Yellow Medicine Counties
President/Owner Wing-Bain Funeral Home, Inc

Melissa M. Blessing, D.O.
Anatomic and Clinical Pathology Resident
Mayo Clinic

Janet Conn, M.S.W, M.S.
Chapter President
Compassion & Choices of MN

Molly Mulcahy Crawford, M.B.A.
State Registrar, Office of Vital Records
Minnesota Department of Health

Christopher Erickson, B.S.
Captain—District #2400 Commander
Minnesota State Patrol

Lindsey G. Garfield, B.A.
Forensic Scientist III
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Thomas Reid Henry, M.D.
Professor of Neurology
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Stacy Holzbauer, D.V.M, M.P.H.
Sr. Staff Veterinary Epidemiologist
Minnesota Department of Health

Kirk A. Hughes, R.N., E.M.T., C.S.P.I.
Certified Poison Information Specialist
Hennepin Regional Poison Center

Lorren W. Jackson, M.D.
Assistant Medical Examiner
Board of Directors, MC&MEA
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Tadd M. Johnson, J.D.
Professor of American Indian Studies
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Senior Teaching Specialist
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Sara A. Love, Ph.D.
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Michael S. Madsen, M.D.
Assistant Medical Examiner
Board of Directors, MC&MEA
Midwest Medical Examiner’s Office

John McClellan
Freeway Operations Supervisor
MN Department of Transportation

Michael B. McGee, M.D.
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Board of Directors, MC&MEA
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Sarah E. Meyers, M.D.
Deputy Medical Examiner/Coroner
Associate Professor of Pathology
Board of Directors, MC&MEA
University of North Dakota

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Principal Assistant Medical Examiner
Ramsey County Medical Examiner’s Office

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Assistant Professor of Radiology
Mayo Clinic

Chad Museus, B.A.
Senior Special Agent
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Travis Olives, M.D., MEd, M.P.H.
Medical Toxicology Fellowship
Health Partners/Regions Hospital

Nathaniel J. Pearlson, M.S.
Forensic Scientist 3
Minnesota Bureau of Criminal Apprehension

Jake B. Peterson, B.S.
Sergeant Investigator--Homicide Unit
St. Paul Police Department

Agnieszka Rogalska, M.D.
Deputy Medical Examiner
Dane County, Wisconsin

Mary Ann Sens, M.D., Ph.D.
Chief Medical Examiner/Coroner
Department of Pathology
Board of Directors, MC&MEA
University of North Dakota

Kenneth S. Snell, M.D.
Coroner/Medical Examiner
Minnehaha County Coroner/Medical Examiner
Sanford Health Pathology Clinic

Stephanie Stauffer, M.D.
Forensic Fellow
Hennepin County Medical Examiner’s Office

Brent D. Wartner, J.D.
First Assistant County Attorney
Washington County Attorney’s Office

Rebecca Wilcoxon, M.D.
Assistant Medical Examiner
Vice-President, MC&MEA
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Southern Minnesota Regional Medical Examiner’s Office

Dr. Mary Ann Sens  
University of North Dakota

Jackie Ulven  
Hennepin County Medical Examiner’s Office

Shawn Wilson  
Hennepin County Medical Examiner’s Office

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 16-18, 2015 at a rate of $129/night. Space and special rate can not be assured after August 26, 2015.

Room reservations can be made by calling 1-800-245-9190 and mentioning the MN Coroners’ and Medical Examiners’ Group.
Registration form (may be photocopied)

I will attend: ❑ Thursday, 9/17/15 and/or ❑ Friday, 9/18/15

Registration fee: $300 to attend both days – lunch is included
❑ I would like a printed copy of the handouts and have enclosed $40.
❑ I am a physician and have added $40.

________________________________________________________
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 an Italian lunch 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 11, 2015.
NO REFUNDS after September 14, 2015.

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.