

26th Annual

Forensic Science Seminar

October 8-9, 2009



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 **26th Annual Forensic Science Seminar**.

From this site you can:

- **Download** 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://home.earthlink.net/~mc-mea>



Acknowledgments

Appreciation is expressed to American Tissue Services Foundation, Minnesota Lions Eye Bank, American Donor Services and LifeSource for providing refreshments at morning and afternoon breaks.

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 (ACCME) through the joint sponsorship of the Minnesota Medical Association, the Hennepin County Medical Examiner's Office and the Minnesota Coroners' and Medical Examiners' Association. The Minnesota Medical Association is accredited by the ACCME to provide continuing medical education for physicians.

The MMA designates this educational activity for a maximum of 14.75 *AMA PRA Category 1 Credits*[™]. Physicians should only claim credit 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, October 8, 2009

7:30 a.m. **REGISTRATION** (*complimentary refreshments*)

8-8:15 **Welcome and remarks**
Donald Deye, M.D.

8:15-9 **Cal Bandt Memorial Lecture**
The new methamphetamine? Prescription painkiller fatalities
Emily Duncanson, M.D.

Objective: Recognize and describe a local increase in fatalities related to prescription painkiller use and abuse

Calvin Bandt: 1933-2003

Dr. Calvin Bandt was an extraordinary physician, forensic pathologist and teacher. He practiced forensic medicine in the early days with Dr. John Coe and Dr. Kenny Osterberg. His passion was knowledge, a skill he applied to medicine, and in particular, pathology. He developed the Hennepin County Medical Center Clinical Labs and created the Hennepin County Medical Center Toxicology Lab. Along with Dr. Coe, he studied postmortem vitreous chemistry. His lifelong quest for knowledge, keen intellect, and passion for teaching illuminated the minds and shaped the lives of many. He is still sorely missed. This lecture is dedicated to his memory and his legacy.

9-10 **Complex domestic homicide: From scene to sentencing**
Andrew Baker, M.D.; Terri Froehlke, J.D.; Detective Kim Jones O'Brien; Detective Mary Olson; Dave Peterson

Objectives: Define the typical features that distinguish suicidal from homicidal gunshot wounds; list the crime laboratory tests that can evaluate computers, printers, and documents; identify police techniques useful in interviewing subjects in a gunshot wound investigation; describe the process of evaluating evidence in a "staged suicide" murder case

10-10:15 **BREAK** (*refreshments served*)

10:15-12:15 **A Harley, a shovel and a Bobcat**
Janis Amatuzio, M.D.; Lindsey Garfield; Susan Myster, Ph.D; Eric Schieferdecker, J.D.

Objectives: Describe the importance of working together on a large multijurisdictional homicide investigation

12:15-1:15 **LUNCH** (*included in registration fee*)

- 1:15-1:45** **So you're going to be a coroner (or M.E.) – some tips from a veteran**
Garry Peterson, M.D., J.D.
- Objectives: Discuss how to prepare for making scene visits; describe how to meet with and answer questions from decedents' family members; discuss simple ways of responding to "the media"; describe how small jurisdictions can have extremely complex cases; discuss how "simple and straightforward" cases can become complex in a hurry
- 1:45-2** **Elder abuse: Overview of problem**
Mary Ann Sens, M.D., Ph.D
- Objectives: List different types of elder abuse; know the common signs for screening of elder abuse; discuss which situations are more commonly associated with elder abuse
- 2-2:20** **After the donation**
Timothy Taylor
- Objectives: Identify donation procedures and techniques that are used during harvesting; gain knowledge in the prosthetics and supplies provided; update the challenges in restoration due to donation
- 2:20-4** **Special session: "Interesting cases"**
Moderator: Lindsey Thomas, M.D.
- 2:20-2:30** **Introduction to interesting cases – when scene and investigations change everything**
Mary Ann Sens, M.D., Ph.D
- Objectives: Recognize some common findings that tip off investigators to an unnatural death; recognize the importance of death scene background information; recognize the importance of scene investigation
- 2:30-2:45** **To err is human: Diagnosing an unexpected, known complication of a common medical therapy**
Owen Middleton, M.D.
- Objectives: Discuss that interpretation of death scene observation is context dependent; recognize the radiographic appearance of air within vital organs; identify potential complications of indwelling medical catheters
- 2:45-3** **Death at the fire hall: Suicide or homicide?**
Kolleen Kennedy, RN
- Objective: Discuss how following the evidence uncovers the truth
- 3-3:15** **BREAK (refreshments served)**

- 3:15-3:30** **Vertebral artery dissection**
Anne Bracey, M.D.
- Objective: Discuss the clinical history, presentation and autopsy findings of vertebral artery dissection
- 3:30-3:45** **Unusual injury patterns in a restrained passenger of a motor vehicle crash – legal and forensic perspectives**
Janis Amatuzio, M.D.; Jeff Edblad, J.D.
- Objectives: Recognize the importance of injury correlation and causation; identify the legal ramifications when charging criminal vehicular operation/homicide
- 3:45-4** **An unusual finding in a heart donor**
Emily Duncanson, M.D.
- Objective: Describe a rare malignancy found in tissue removed for donation
- 4:00** **CONCLUSION OF DAY ONE**
Save your materials for tomorrow!
- 4:15-5** **MC&MEA Annual Meeting**
MC&MEA members may remain in the main room for the annual business meeting commencing immediately at the conclusion of the day's program
- 5-7** **DINNER (*on your own*)**
- 7-8:30 p.m.** **WORKSHOP: Conducted energy devices – set your phasers to stun**
Janis Amatuzio, M.D.; Sergeant Matthew Woitel
- Objectives: Interpret knowledge of the electrophysiology and effect of CED on the human body; tell participants suggested guidelines for performance of the death scene and autopsy on deaths which occur in association with the use of a CED; review with participants the opportunity to observe someone being subdued; illustrate to participants the importance of collaboration in the investigation of CED associated deaths

Program — Day Two

Friday, October 9, 2009

- 7:45 a.m. REGISTRATION (*complimentary refreshments*)**
- 8-8:45 Staphylococcus aureus: An innovative and audacious adversary**
Ruth Lynfield, M.D.
- Objectives: Describe the epidemiology of staphylococcal disease, including methicillin-resistant infections; discuss the clinical manifestations of severe staphylococcal disease
- 8:45-9:30 Personal reactions to professional situations: Critical incident stress management**
Sue Johnston, LICSW
- Objectives: Identify professional situations that constitute a “critical incident”; describe the rationale for providing critical incident stress management; describe the services provided by critical incident stress management interventions
- 9:30-10:30 Fatal fires: Down and dirty**
Denise DeMars
- Objective: Differentiate how the evidence found at the scene of a fire fatality is unlike that of any other death scene
- 10:30-10:45 BREAK (*refreshments served*)**
- 10:45-11:30 Sudden unexplained natural death – a brief overview with forensic implications and case studies**
Dennis Firchau, M.D.
- Objectives: Relate what sudden unexpected natural death is; summarize some of the common medical causes of sudden unexpected natural death; recognize some scenarios that may represent sudden unexpected natural deaths; recognize that some cases of sudden unexpected natural death may result in circumstances and scenes that may be suspicious
- 11:30 -12:30 Tragedy on landing: The Owatonna plane crash**
Deputy Aaron Guzman; Timothy Koch; Kellyanna Moore, M.D.; Investigator John Petterson; Susan Roe, M.D.; Jill Romann
- Objectives: Recognize the importance of interagency cooperation in plane crash fatalities; describe strategies to deal with out-of-state families in a plane crash
- 12:30-1:30 LUNCH (*included in registration fee*)**

1:30-2:30

Media interactions

Caroline Lowe

Objectives: Describe how to interact with news media to reduce preventable deaths; understand the role of the news media

2:30-2:45

Lodox

A. Quinn Strobl, M.D.

Objectives: Discuss the latest in radiologic technology for postmortem examinations; update how radiology can assist in identification; recognize the benefits of full body scanning

2:45-3

BREAK (*refreshments served*)

3-4

Special session: "Interesting cases part II"

Moderator: Lindsey Thomas, M.D.

3-3:15

Who's afraid of the big bad wolf?

Thomas Uncini, M.D.

Objectives: Discuss the process of a scene altered by animals; explain the value of interacting with other agencies; describe difficulties of processing scattered decomposed remains

3:15-3:30

"You need it when?!?" A sensitive case unfolds in real time

Lorren Jackson, M.D.

Objective: Recognize the importance of collaborative investigation when rapid case turnaround is required

3:30-3:45

Things are not always what they seem: The value of an autopsy

Susan Roe, M.D.

Objective: Recognize the value of an autopsy in the context of an apparent toxicology case

3:45-4

Up in smoke

Shawn Wilson

Objective: Illustrate the importance of thorough investigation and evidence recovery

4:00 p.m.

Closing remarks

Owen Middleton, M.D.

- PARTICIPANT EVALUATIONS
- ATTENDANCE VERIFICATION FORMS

Please complete and submit both at the registration table prior to leaving the seminar!

Faculty

Janis Amatuzio, M.D.

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

Denise R. DeMars

Deputy State Fire Marshall Investigator
State of MN Fire Marshall Division
Bureau of Criminal Apprehension

Donald L. Deye, M.D.

Assistant Medical Examiner
President, MC&MEA

Emily R. Duncanson, M.D.

Cardiovascular Pathologist
Jesse E. Edwards Registry of
Cardiovascular Disease

Jeffrey R. Edblad, J.D.

Isanti County Attorney

Dennis J. Firschau, M.D.

Forensic Fellow
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Office

Teresa Froehlke, J.D.

Hennepin County Attorney's Office

Lindsey Garfield

Toxicology/Crime Scene Team Leader
Bureau of Criminal Apprehension

Aaron P. Guzman

Sheriff's Deputy
Steele County Sheriff's Office

Lorren W. Jackson, M.D.

Assistant Medical Examiner
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Executive Director
Metro Critical Incident Stress
Management Team

Kim Jones O'Brien

Police Detective
Bloomington Police Department

Kolleen Kennedy, RN

Chief Investigator
St. Louis County Medical Examiner

Timothy J. Koch

Mortician Investigator
MN Department of Health
Mortuary Science Section

Caroline Lowe

News Reporter
WCCO Television

Ruth Lynfield, M.D.

State Epidemiologist
MN Department of Health

Owen Middleton, M.D.

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Kellyanna J. Moore, M.D.

Family Medicine Physician
Owatonna Clinic — Mayo Health
System

Susan T. Myster, Ph.D.

Director, Forensic Sciences Certificate
Program
Hamline University

Mary M. Olson

Police Detective
Bloomington Police Department

Dave Peterson

Forensic Science Supervisor
Board of Directors, MC&MEA
Bureau of Criminal Apprehension

Garry Peterson, M.D., J.D.

Chief Medical Examiner Emeritus
Hennepin County Medical Examiner's
Office

John Petterson

Corporal Investigator
Owatonna Police Department

Susan Roe, M.D.

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Minnesota Regional Medical
Examiner's Office

Jill Romann

Senior Investigator
Minnesota Regional Medical
Examiner's Office

Eric Schieferdecker, J.D.

Assistant Attorney General
MN Attorney General Office

Mary Ann Sens, M.D., Ph.D.

Professor and Chair of Pathology
Board of Directors, MC&MEA
University of North Dakota

A. Quinn Strobl, M.D.

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

Timothy S. Taylor

Owner
Methven-Taylor Funeral Homes

Lindsey Thomas, M.D.

Chief Medical Examiner
Program Chairperson
Board of Directors, MC&MEA
Minnesota Regional Medical
Examiner's Office

Thomas Uncini, M.D.

Medical Examiner
Board of Directors, MC&MEA
St. Louis County

Shawn J. Wilson

Investigator
Hennepin County Medical Examiner's
Office

Matthew Woitel

Detention Sergeant
Anoka County Sheriff's Office

Seminar Planning Team

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Chief Medical Examiner
Program Chairperson
Minnesota Regional Medical Examiner's Office

*denotes faculty & planning team member

Location

Earle Brown Heritage Center

Garden Center Ballroom

6155 Earle Brown Drive, Brooklyn Center, MN 55430

Plenty of free parking is available in surface lots at the Heritage Center. Maps and directions can be viewed and downloaded at <http://home.earthlink.net/~mc-mea>, or by visiting mapquest.com.

From Minneapolis or Saint Paul:

Take I-94 West to I-694 West to Shingle Creek Parkway exit. Follow cloverleaf around. Turn right onto Shingle Creek, left at second stoplight (Summit Drive North), left again one block at Earle Brown Drive. Follow around to the main entrance on your right.

Accommodations

The Crowne Plaza Minneapolis North

2200 Freeway Blvd. in Brooklyn Center

Rooms blocked for October 7-10, 2009, at a rate of \$89/night. This rate includes a daily breakfast buffet and an evening beverage. Space and special rate cannot be assured after October 1, 2009. Rooms can be reserved by visiting <http://home.earthlink.net/~mc-mea> or calling 763-566-8000 and mentioning the MN Coroners' & Medical Examiners' Association group rate.

Registration form (may be photocopied)

I will attend: Thursday, 10/8/09 **and/or** Friday, 10/9/09

Registration fee: \$260 to attend both days – lunch is included

- I am a physician and have added **\$40** for Continuing Medical Education (AMA Category 1) credit.
- I am a family physician and have added **\$40** for Continuing Medical Education (AAFP) credit.
- Optional Thursday evening session:** Conducted energy devices – set your phasers to stun. *(To be eligible to participate in the evening session from 7 – 8:30 p.m., you must have registered and paid. There is no additional fee for this session.)*

Name

Job title

Employer

County

Office address

()
Office phone

()
Office fax

COMPLETE e-mail address (Contact me via e-mail **OR** standard mail)

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 Earle Brown)

Please choose: Roasted turkey **OR**
 Vegetable pot pie

(Lunch on day 2 will consist of an Italian buffet served at Earle Brown)

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!

Payment

Registration check or purchase order **MUST** accompany registration and be received no later than October 2, 2009. **NO REFUNDS** after October 5, 2009.

Make check payable to:

Minneapolis Medical Research Foundation (MMRF)

Return completed registration to:

Joan Jung, Seminar Coordinator

Hennepin County Medical Examiner's Office

530 Chicago Ave., Minneapolis, MN 55415

Phone: 612-215-6320

Videotaping and audiotaping are strictly prohibited during the conference.