

# ***iTIME Symposium***

Information Technology and Imaging for Medical Examiners

**May 6 - 8, 2009**

**Wednesday, May 6, 2009 Day 1:**

<b>7:45 – 8:30</b>	<b>Check in, Registration</b>
<b>8:30 – 10:00</b>	<b>Introduction and Welcome</b> Dr. Ross Reichard, Assistant Chief Medical Investigator and Director of Neuropathology <b>The Future of the Forensic Sciences: The Role of IT</b> Dr. Ross Zumwalt, Chief Medical Investigator of the State of New Mexico
<b>10:00 – 10:20</b>	<b>Break</b>
<b>10:20 – 11:50</b>	<b>Creating an Entirely Electronic Statewide Medical Examiner System</b> Dr. Ross Reichard and NM OMI IT staff
<b>11:50 – 1:15</b>	<b>Lunch</b> Buffet Style
<b>1:15 – 2:45</b>	<b>Telehealth Technologies and Web Conferencing</b> Wesley Pak, Director IT Services Internal Medicine Project ECHO
<b>2:45 – 3:00</b>	<b>Break</b>
<b>3:00 – 3:45</b>	<b>Data Protection Overview</b> Melody Conrad, User Support Analyst NM OMI
<b>3:45 – 4:30</b>	<b>Presentation of VertiQ Software Package CME</b> Anthony Kessel, VertiQ

\* Please join us for a welcome reception at the Marriot from 5:00 – 6:30 on Wednesday, May 6, 2009

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**Thursday, May 7, 2009 Day 2:**

<b>8:00 – 8:30</b>	<b>Thursday Morning Kicker</b> <b>Fact or Crap</b> NM OMI IT Staff
<b>8:30 – 10:00</b>	<b>Digital Imaging for Medical Examiners</b> Dr. Philip Heintz, Professor, Radiation Safety Officer UNMH
<b>10:00 – 10:30</b>	<b>Break</b>
<b>10:30 – 11:50</b>	<b>Information Security</b> Barney Metzner, Information Security Officer and HIPAA Security Officer for the UNM Health Sciences Center
<b>11:50 – 1:15</b>	<b>Lunch</b> Buffet Style
<b>1:15 – 2:45</b>	<b>Communicating with Data</b> Michelle Gibson, Programmer Analyst NM OMI
<b>2:45 – 3:15</b>	<b>Break</b>
<b>3:15 – 4:45</b>	<b>Paperless Future of the OMI Autopsy Suite</b> Melody Conrad, User Support Analyst NM OMI

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**Friday, May 8, 2009 Day 3:**

<b>8:30 – 10:00</b>	<b>Odontology Technologies, Dental ID X-Ray</b> Dr. Peter Loomis, Forensic Odontologist NM OMI
<b>10:00 – 10:30</b>	<b>Break</b>
<b>10:30 – 11:15</b>	<b>Digital Photography/Photography Solutions</b> James Richardson and Alayna Bowman, Photo Technicians NM OMI
<b>11:15 – 12:00</b>	<b>Panel Discussion</b>

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## **Speaker Biographies:**

**Ross E. Zumwalt, M.D.**, Chief Medical Investigator of the State of New Mexico, B.A., Wabash College, Crawfordsville, Indiana; M.D., University of Illinois College of Medicine; internship and pathology residency at the Mary Imogene Bassett Hospital, Cooperstown, New York; pathology residency at the Southwestern Medical School, Dallas; forensic fellowship training at the Dallas County Medical Examiner's Office; military service as director of laboratories at the Navy Regional Medical Center in Camp Lejeune, North Carolina. Two years as deputy coroner in Cleveland, Ohio, and six years as deputy coroner in Cincinnati, Ohio, before coming to the Office of the Medical Investigator in 1987. Dr. Zumwalt is certified in anatomic and forensic pathology by the American Board of Pathology. He was a trustee of the American Board of Pathology from 1993 to 2004.

Dr. Zumwalt has served as president of the National Association of Medical Examiners and is a member of the following professional organizations: The National Association of Medical Examiners; The American Academy of Forensic Sciences; College of American Pathologists; American Society of Clinical Pathologists; United States and Canadian Academy of Pathology; American Medical Association; and the American Association for the Advancement of Science.

**R. Ross Reichard, M.D.**, Assistant Chief Medical Investigator and Director of Neuropathology, received his undergraduate degree (B.A. Anthropology) from Centre College in Danville, KY, and a Masters of Science (Anatomical Sciences and Neurobiology) and Doctor of Medicine from the University of Louisville, Louisville, KY. He then completed a combined Anatomic and Neuropathology Residency at University of Texas, Southwestern Medical Center in Dallas, TX, a 1-year credentialing year in Anatomic Pathology at Stanford University in Stanford, CA, and a 1-year Forensic Pathology Fellowship at the Office of the Medical Investigator in Albuquerque, NM.

Dr. Reichard is board certified in Anatomical Pathology, Neuropathology, and Forensic Pathology. He is a member of multiple national organizations and his research interests are in forensic neuropathology, particularly pediatric head injury.

**Peter W. Loomis, D.D.S.**, received his undergraduate education at the University of New Mexico and his dental degree from the University of Missouri School of Dentistry. After a one-year general practice residency, he spent two years at the Indian Health Service Hospital in Zuni, NM, as a general dentist. He received his training in Forensic Odontology at the Armed Forces Institute of Pathology and the University of New Mexico. He maintained a private general dental practice in Albuquerque for 28 years, and has been a forensic odontology consultant with OMI since 1976.

Dr. Loomis is board certified in Forensic Odontology, a Fellow of the American Academy of Forensic Sciences and member of the American Society of Forensic Odontology. He is the founder and director of the New Mexico Mass Disaster Dental Identification Team, and is a forensic odontologist for DMORT Region 6. His research interests include oral infections, age estimation based on transparent dentin and pattern injury analysis.

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***Wesley Pak, M.B.A.***, is the Systems and Programming Manager at University of New Mexico, Health Sciences Center, Project ECHO. He is responsible for leading and implementing effective and efficient management of information technology to improve health care across New Mexico. He has 12 years of experience in networking, programming and building telemedicine infrastructure. He earned a B.S. from University of Maryland, a M.B.A. from University of Phoenix and nine Microsoft certifications including MCSE (Microsoft Certified Systems Engineer) and MCDBA (Microsoft Certified Database Administrator). Wesley is instrumental in extending the telemedicine infrastructure at the University of New Mexico, Health Sciences Center and seeks new technology innovations to streamline and enhance access to care for all New Mexicans. His recent projects at ECHO included the development of the IT Strategic plan for India and Egypt to replicate ECHO model. He is interested in building global communication to improve healthcare around the world.

***Philip H. Heintz, Ph.D.***, Professor of Radiology, Radiation Safety Officer at UNMH, received his B.S. from the California State Polytechnic University in Mechanical Engineering, his M.S. in Nuclear Engineering and his Ph.D. in Bio-Nuclear Engineering from the University of Washington. Dr. Heintz is certified in Diagnostic and Therapeutic Radiological Physics by the American Board of Radiology.

Dr. Heintz currently serves the American Association of Physicists in Medicine as co-chairman of the radiographic system quality control task group (151) and a member of the information transfer from beam data acquisition systems task group (11). He is a professor for the University of New Mexico in the Departments of Radiology, Physics, Chemical and Nuclear Engineering. He has also authored many publications regarding Radiology.

***Melody Conrad, A.A.S.***, is the User Support Analyst II at the New Mexico Office of the Medical Investigator. She has both CompTIA A+ and Server+ certifications. Melody's computer involvement started with a FORTRAN IV class in the early 70's. She joined the OMI 10 years ago and was told the MUMPS database and Ultrix server it ran on was not part of her duties, however, just about "everything" else computer related was included. Her duties include user training and support, hardware and operating system support, security monitoring, account provisioning, network troubleshooting, backup and recovery. She is looking forward to redesigning the current system into an infrastructure that will support the new software and devices, which will address OMI's technology needs of the future.

***Michelle Gibson, A.A.S.***, Programmer Analyst NM OMI, Computing Technology Concentration in Computer Programming and Database Administration. Helping to promote the effectiveness of transmitting electronic records regarding medical and investigative information to determine cause and manner of death, she develops methods of transmitting electronic information regarding death investigations from remote areas of New Mexico, merge the xml data into a SQL database, and then provide that information to the Bureau of Vital Statistics and other government agencies through both secure and insecure web services. Other web services in production include allowing transcriptionists to work from anywhere with the ability to connect to the internet, natural death reports from Hospice facilities and photo uploads from the field investigators.

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**Barney Metzner, MM.**, is the Information Security Officer for the UNM Health Sciences Center. A UNM employee since 1993, his responsibilities have included HSC enterprise services including directory services, email services, and file services. He earned his CNE (Certified NetWare Engineer) in 1992 and his MCP (Microsoft Product Specialist) in 1996. He has participated in a broad range of conferences including Educase, BrainShare, and the AAMC Management Education Programs and is a frequent presenter at various committees such as the HIPAA Oversight and the UH IT Steering Committee. Since the HIPAA security rule went into effect in 2005, his role has changed from manager of the systems group at HSLIC (Health Sciences Library and Informatics Center) to the full time HIPAA Security Officer as well as the manager of the HSLIC IT Security group. Over the course of this career at UNM he has authored or contributed to a number of IT Security policies, standards, procedures and guidelines, and is the current owner of the 50 HSC IT security policies protecting ePHI (electronic Protected Health Information).

**Alayna Bowman and James (George) Richardson** are photography students at the University of New Mexico. After having worked as Photography Morphology Technicians at NM OMI for a year, they have become well versed in many of the photographic troubleshooting issues inherent in visually documenting deaths. Their duties at NM OMI are two-fold. On one hand, they provide technical support for Morph-techs in autopsy giving bi-weekly lectures on autopsy imaging as well as assisting techs on a daily basis with their camera needs. On the other hand, they provide the investigators in the field with technical imaging support via bi-annual conference presentations as well as through more frequent outlets such as reports they write in seasonal newsletters for investigators. Additionally, they work closely with IT personnel at NM OMI overseeing the uploading and managing of digital images coming out of both autopsy and the field.

**Anthony Kessel, BAS**, is the VertiQ Software Product Manager. Since March 2005 he has been involved in customizing and development of CME applications including:

New Development - Adams County Coroner, Arapahoe County Coroner, San Mateo County Coroner, Alameda County Coroner, Franklin County Coroner, Madison County Coroner, West Virginia State ME, Kern County Coroner, Alaska State OCME

Upgrade Development - Travis County Medical Examiner, Los Angeles County Coroner

He is also involved with technical support of CME applications and user training on CME applications.

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## **Day 1**

### **8:30 – 10:00 *The Future of the Forensic Sciences: The Role of IT***

“Discussion of future Medicolegal Death Investigations from the National Academy of Science and Forensic Sciences.”

### **10:20 – 11:50 *Creating an Entirely Electronic Statewide Medical Examiner System***

“How to convert from a paper based Medical Examiner’s office to a completely electronic system.”

### **1:15 – 2:45 *Telehealth Technologies and Web Conferencing***

“Project ECHO (Extension for Community Healthcare Outcomes) is a new and innovative model in treating complex chronic diseases in rural and underserved areas of New Mexico. Via technology, ECHO bridges the gap between urban healthcare specialists and providers in rural settings. Learn about the technologies used to bring rural providers in touch with urban centers.”

### **3:00 – 3:45 *Data Protection Overview***

“There is no “superhero silver bullet” to magically keep your data accurate and available, however, we will look at ways that won’t bust your budget to manage your data risk and recover from “oops”.”

### **3:45 – 4:50 *Presentation of VertiQ Software Package CME***

“Web based toolkit designed specifically for Coroners and Medical Examiners”

## **Day 2**

### **8:00 – 8:30 *Thursday Morning Kicker – Fact or Crap***

“A fun morning to wake-up and shake off the mile high altitude and jet lag”

### **8:30 – 10:00 *Digital Imaging for Medical Examiners***

“This talk will discuss the basic concepts of Digital Imaging as it applies to Medical Examiners. It will cover how digital images are formed, stored and viewed. Special interest will be given in how it will be used at NM OMI. The talk will also explain how the CT scanner and the MRI imager operates.”

### **10:30-11:50 *Information Security***

“The growing dependence on electronic information, in motion and at rest, is pushing individuals and organizations to take a structured approach toward information security. In this presentation current technology will be explored and the resulting new security challenges reviewed, followed by a high level view describing the basic components of a security program as currently outlined in HIPAA.”

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**1:15 – 2:45 *Communicating with Data***

“A web service is a class stored on one machine that can be accessed on another machine over a network. They provide a platform independent means to share data between businesses (B2B). NM OMI currently has several web services running that allows communicating data between remote areas of New Mexico, our main office and the Vital Records and Health Statistics Office in Santa Fe.”

**3:15 – 4:45 *Paperless Future of the OMI Autopsy Suite***

“The talk starts with a quick overview of the forces moving OMI even farther down the paperless path. We will take a tour of the technology and software needed to adapt to the restrictions imposed by a BSL3 autopsy suite.”

**Day 3**

**8:30 – 10:00 *Odontology Technologies, Dental ID X-Ray***

“The tooth fairy has gone digital in the practice of forensic dentistry. Digital photographic and radiographic imaging, the paperless forensic dental examination, bitemark/pattern injury analysis with imaging software, identification using radiographic and photographic super imposition, local and national missing and unidentified persons databases, age estimation and more.”

**10:30 – 11:15 *Digital Photography/Photography Solutions***

“How to capture the moment. Proper technique in photography will give you images that more accurately document your cases.”