The University of Maryland School of Nursing

16th Annual Summer Institute in Nursing Informatics

July 19-22 2006

Advancing Clinical Practice Through Nursing Informatics

Conference Resource Guide
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**Healthier Outcomes**

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At Cerner, we understand the important role of nursing in healthcare. We value nurses' knowledge, perspective and talent.

Cerner Corporation and our 350 nursing associates are proud to support the University of Maryland School of Nursing's 16th Annual Summer Institute in Nursing Informatics.

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Misys Healthcare Systems is working hard to help nurses and other clinicians ensure patient safety by offering a patient-centered, point-of-care system that integrates every aspect of the care experience into a single, confidential, computer-based patient record — Misys CPR. Seamlessly integrating your best medical practices with essential patient information. Improving patient care and producing more predictable, successful outcomes.

Misys Healthcare Systems.
Supplying easy-to-use, reliable, high-quality systems and services to hospitals, physicians' offices and homecare providers for over 25 years.
On behalf of the Planning Committee, we would like to welcome you to the 16th Annual Summer Institute in Nursing Informatics: “Advancing Clinical Practice Through Nursing Informatics”. Our presenters are national and international experts, practicing informatics specialists leading the field of information management development and application, who are eager to share their work and their perspectives.

We are pleased to provide you with this resource guide, which contains vital information to help you navigate through each day of the Institute and throughout Baltimore. It contains brief abstracts of invited speaker presentations and lists peer-reviewed paper and poster sessions. We have also included a CD-ROM, which will provide more detailed abstracts as well as presentation materials from the invited speakers.

A special “Thank You” is extended to our corporate sponsors. Siemens is the Summer Institute’s Lead Sponsor for the fifth year. McKesson, GE Healthcare, Elsevier-iCONSULT, HIMSS, Misys, Zynx, MEDITECH, Vocera Communications and Cerner are all participating sponsors. This type of support is important to keeping SINI dynamic, relevant, affordable, and exciting year after year.

The theme for next year’s 17th Summer Institute is “Skills and Systems for Today and Tomorrow” and will be held July 18-21, 2007. We hope to see you here at the University of Maryland School of Nursing next summer. You can stay updated on the progress of this program by checking the informatics website throughout the year for frequent announcements.

Once again, we welcome you to the 16th Summer Institute in Nursing Informatics and look forward to an exciting opportunity to generate new ideas and dialogue.

Sincerely,

Mary Etta Mills, ScD, RN, CNAA, FAAN
Program Chair
Summer Institute in Nursing Informatics, 2006
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### Schedule at a Glance

#### Date/Time

**Wednesday, July 19, 2006**

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<th>Event</th>
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<tr>
<td>12 noon – 2 p.m.</td>
<td>Registration, School of Nursing Lobby</td>
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<tr>
<td>1:00 - 2:00 p.m.</td>
<td>Tips for a Successful SINI Presentation, Room 450</td>
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<tr>
<td>1:00 – 2:00 p.m.</td>
<td>Notes from NI 2006: Panel Discussion, Room 140</td>
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<tr>
<td>2:15 – 3 p.m.</td>
<td>Introductions and Welcome, Room 130</td>
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</table>
| 3:00 – 4:30 p.m. | **Keynote Address:** Current Issues in Improving Clinical Practice Through Informatics  
  Dr. Don Detmer, Room 130 |
| 4:45 – 5:15 p.m. | Simulation Laboratories Tour and Demonstration  
  Living History Nursing Museum Open, Room 235  
  Walking Tour of Baltimore, please pick up a ticket at the Registration Desk |
| 6 – 9 p.m. | Social Event- Dinner, Dancing, and Networking-  
  The Reginald F Lewis Museum of Maryland African American History and Culture |

**Thursday, July 20, 2006**

<table>
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<th>Time</th>
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<tr>
<td>8:00 – 8:30 a.m.</td>
<td>Continental Breakfast, School of Nursing Lobby</td>
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| 8:30 – 9:30 a.m.  | **Distinguished Lecture:** Update on Health Care IT Legislation  
  Rep Patrick Kennedy, Room 130 |
| 9:30 – 10:00 a.m. | Morning Break                                                            |
| 10:00 – 11:00 a.m. | Concurrent Sessions                                                     |

**Track A: Leadership**

<table>
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<tr>
<th>Session</th>
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| 1A.     | The Interoperable EHR to Change Practice  
  Wallace, Room 140  |

**Track B: Evidence-Based Practice**

<table>
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<tr>
<th>Session</th>
<th>Title</th>
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| 1B.     | Reference Terminology  
  Harris, Room 730  |

**Track C: Patient Care Technology**

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<th>Session</th>
<th>Title</th>
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| 1C.     | House Calls: The VHA’s Home Telehealth Program  
  Lancaster, Room 150  |

**Track D: Systems Design**

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<th>Session</th>
<th>Title</th>
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| 1D.     | Panel: Systems Implementation: We are Systems Analysts, We are Vendors, Above All, We are a Team!  
  Nahm, Spivak, and McCauley, Room 106  |

**Track E: Systems Analysis and Evaluation**

<table>
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<tr>
<th>Session</th>
<th>Title</th>
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</table>
| 1E.     | Emergency Response Analysis and Lessons  
  Hurricane Katrina  
  Gephart, Room 740  |

**Track F: Consumer Informatics**

<table>
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<tr>
<th>Session</th>
<th>Title</th>
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| 1F.     | Consumers and the Personal Health Record: Overview  
  From Theory Into Practice  
  Ball, Room 130  |

11:00 a.m. – Lunch (on your own)

1:00 p.m. | Alumni Luncheon (Invitation Only), Room 725 Franklin Lounge  
Volunteer and Invited Speaker Luncheon, Rooms 730 and 732 |
**Date/Time**

**Thursday, July 20, 2006**

1:00 – 2:00 p.m. Concurrent Sessions

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<tr>
<td>Implementing the Electronic Health Record Across the Care Continuum: Profiling Successful Organizations Weaver, Room 140</td>
<td>Revolutionizing Plans of Care - Part One Langford, Room 106</td>
<td>Electronic Health Record: A Journey, Not a Destination Benes-Stickle, Room 740</td>
<td>A Strategic Approach to Meeting Real World Nursing Mobile Computing Requirements McCasky, Room 730</td>
<td>Matching Evaluation Method to System Life Cycle Stage: A Case Study of Mobile Decision Support for Advanced Practice Nurses Bakken, Room 150</td>
<td>Tethered or Not: Connecting Patients to Their Health Information Brennan, Room 130</td>
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2:15 – 3:15 p.m. Concurrent Sessions

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<tr>
<td>Integrating Evidence To Support Care: Great Challenges Greater Opportunities Androwich, Room 730</td>
<td>Revolutionizing Plans of Care - Part Two Langford, Room 106</td>
<td>Tour of the Baltimore VA Medical Center Pierce, Loftus, Sartori, and Van Camp -Meet in Main Lobby (prior registration required)</td>
<td>Systems Integration: CIO Challenges Bame and Kolodner Room 150</td>
<td>Measuring the Impact of Automation on Nursing Satisfaction, Efficiency, and Quality Documentation Smith, Room 140</td>
<td>Tethered or Not: Connecting Patients to Their Health Information Part Two Brennan, Room 130</td>
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</tbody>
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2:15 – 3:15 The Planning Committee for SINI 2007 will meet in room 740

3:15 – 3:45 p.m. Afternoon Break

3:45 – 4:45 p.m. Concurrent Sessions

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<td>Murray and Bianchi Room 140</td>
<td>Keenan and Womack Room 130</td>
<td>Stemmerman and Newbold Room 106</td>
<td>Murnane and Kitt Room 730</td>
<td>Lasome and Krauss Room 740</td>
<td>McFarren and Shea Room 150</td>
</tr>
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5:00 – 8:00 p.m. Exhibitor Evening and Taste of Baltimore Dinner/Simulation Laboratories Tour and Demonstrations/Nursing Museum Open- School of Nursing Lobby

**Friday, July 21, 2006**

8:30 – 9:00 a.m. Continental Breakfast- University of Maryland School of Nursing Lobby

9:00 – 10:15 a.m. **Distinguished Lecture**- Transformation of the Work Environment Through Information Technology. Victoria Bradley, Room 130

10:15 – 10:45 a.m. Morning Break

10:45 – 11:45 a.m. Concurrent Sessions

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<tr>
<td>Fortin and Elias Room 140</td>
<td>Olson and Sowan Room 106</td>
<td>Seckman and Barbosa Room 730</td>
<td>Kraska and Vapor Room 740</td>
<td>Lyle and Sapnas Room 150</td>
<td>Gordon and Ward-Presson Room 130</td>
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</table>
12 noon – 2 p.m. Hosted Buffet Lunch and Poster Session- School of Nursing Lobby
Book Signing- 2nd Floor Lobby area

2:00 – 3:00 p.m. Concurrent Sessions

6A. Using Information Technology to Support Evidence-Based Care and Pay-for-Performance Initiatives
   Murphy, Room 130

6B. Classification Standards
   Saba, Room 140

6C. Webquest для Teaching Nurses An Integrated Body-Mind-Spirit Approach to Developing A Plan of Care
   Charters, Room 730

6D. Leveraging Breakthroughs: Harmonizing Standards to Enable Health Information Exchange
   Sensmeier, Room 106

6E. Public Health Information Challenges for Emergent and Non-Emergent Needs
   Romano, Room 740

6F. Creating Partnerships To Share Intellectual and Social Capital
   Skiba and Norton, Room 150

3:00 – 3:30 p.m. Afternoon Break

3:30 – 4:30 p.m. Concurrent Sessions

7A. Leadership, Strategy, and Change Management as They Relate to IT and CIS Implementation in Health Care
   Tourville, Room 106

7B. SNOMED CT: Issues for Global Implementation
   Konicek and Lundberg, Room 730

7C. Tour of UMD Medical Center Shock Trauma and ORs
   Smith, Ray, and Stewart – Meet in main lobby (prior registration required)

7D. The Time is Now: Putting Stakes in the Ground for Nursing Informatics
   Ozbolt, Room 140

7E. ROI and Cost-Benefit Analysis of Clinical Applications
   Murphy and Wilson, Room 150

7F. Informatics Challenges for the Impending Patient Information Explosion
   Moss, Room 130

7:00 – 9:00 p.m. CARING Dinner in Little Italy

Saturday, July 22, 2006

8:00 – 9:00 a.m. Full Hot Breakfast- School of Nursing Lobby

9:00 – 10:00 a.m. The Cerner Distinguished Lecture Lighting the Way for Modern Nurses with Nursing Informatics- Kathryn Hannah- Room 130

10:00 – 10:15 a.m. Morning Break

10:15 – 11:00 a.m. Panel Discussion- Coming Innovations
   Goldsmith, Murray, Sensmeier, and Hannah, Room 130

11:00 – 12:00 noon Endnote Presentation- Informatics’ Influence on the Future of Health Care
   Goldsmith, Room 130

12 – 12:30 p.m. Concluding Remarks and Raffle
Announcements

Where To Go:
The conference is primarily located on three floors at the School of Nursing. Elevators and stairs are available for your use. The lobby and three conference rooms (106, 130, 140, 150) are located on the first floor. Two conference rooms are located on the seventh floor (730 & 740). The speaker/sponsor green room (725) is also located on the seventh floor. The cyber café lab (245) is located on the second floor. Wireless internet can be accessed in the first floor lobby and in the second floor lounge at the top of the main lobby stairs. Restrooms are located on each floor beside the elevators.

Contact Hours and Evaluations:
Please sign in at the registration desk each day to receive nursing contact hours for this conference. You will receive an evaluation for the conference as a whole and for the different sessions you may attend. Please complete the evaluation after you attend each session. Before you leave the conference, drop the evaluation form off at the registration desk.

Continuing Education Provided
Contact Hours for Wednesday, July 19th - 1.8
Contact Hours for Thursday, July 20th - 6
Contact Hours for Friday, July 21st - 5.1
Contact Hours for Saturday, July 22nd - 3.3
Total Nursing Contact Hours for Summer Institute in Nursing Informatics - 16.2

Updates:
All schedule changes and updated conference information will be listed on the Daily Update Sheet available each morning at the registration desk. Please remember to pick one up daily.

Need Help:
If you have any questions or concerns during the conference, please locate one of our helpful volunteers. You will find them with the “volunteer” ribbons attached to their badges and in bright orange shirts. They will either answer your questions or refer you to the correct resource.

Raffle:
Join us at the conclusion of our program on Saturday, July 22 for our free raffle. A state-of-the-art PDA, iPod nanos, a portable DVD player, multiple 2007 SINI free registrations, CARING memberships, University of Maryland apparel and the latest healthcare informatics books are a few of the prizes that will be raffled off. Raffle tickets will be available Saturday morning at the Registration Desk. Don’t miss it! You must be present to win.

ATM:
Located in the basement of the School of Nursing. Take the elevators near the catering tables to the basement level, machine will be located immediately to your right.

SINI Blog:
The SINI2006 blog provides an opportunity for SINI participants to comment and report on the event, and for those unable to attend to have a form of virtual interaction with the event. The SINI2006 blog is at: http://differance-engine.net/SINI2006blog/ Peter Murray will maintain it. If you are not familiar with blogging, there is a test area where you can experiment before posting to the real SINI2006 blog – the testbed is at http://www.differance-engine.net/SINIstandpit/ If you have any questions, contact Peter Murray at peter@open-nurse.info.
SUMMER INSTITUTE IN NURSING INFORMATICS 2006 OBJECTIVES

Advancing Clinical Practice Through Nursing Informatics

The objectives of the conference include the following:

- Participate in sessions that address concepts and applications appropriate for many levels and interests
- Choose programs from six different tracks including Leadership, Evidence-Based Practice, Patient Care Technology, Systems Design, Analysis, and Evaluation, and Consumer Informatics
- Acquire skills and techniques for the best use of health care technology in the practice of nursing
- Learn about recent advances in health care information technologies through wide-ranging educational sessions and a highly focused Exhibitor Evening
- Gain a working knowledge about the most recent health care legislation
- Learn how a variety of innovations and systems are being used in national and international organizations through formal case studies and informal networking

TIPS FOR MAKING THE MOST OF THIS CONFERENCE:

- Remember to pick up your conference daily update sheet at the registration desk each day for room changes, reminders, and updates.
- Please sign in each day so that we can reach you in case of emergencies and to qualify for continuing education.
- Take advantage of our social and exhibitor events to network and relax.
- Please keep in mind the temperature of the rooms may vary and tends to be cool when the air conditioning is running. Please bring a light jacket or sweater to ensure your comfort. All meetings are business casual.
- A message board will be located in the registration area.
WEDNESDAY, JULY 19

Noon – 2 p.m.
PARTICIPANT REGISTRATION AND CHECK-IN
School of Nursing Lobby

1 – 2 p.m.
TIPS FOR A SUCCESSFUL SINI PRESENTATION
Free Workshop for Peer-Review Paper and Poster Presenters

Kathleen Charters, PhD, RN, CPHIMS, CNE
Senior Consultant
First Consulting Group

Eun-Shim Nahm, PhD, RN
Assistant Professor
University of Maryland School of Nursing

1 – 2 p.m.
Panel Discussion
Notes from Seoul: Issues, Themes, and Experiences from NI 2006, the Ninth International Congress on Nursing Informatics.
Open to all conference attendees

Facilitators:
Peter J. Murray, PhD, RN, FBCS, CITP
W. Scott Erdley, DNS, RN
Susan K. Newbold, MS, RNBC, FAAN, FHIMSS

Panelists:
Marion J. Ball, EdD; Brian Gugerty, DNS, MS, RN;
Rosemary Kennedy, MBA, RN; Jeongeun Kim, PhD, RN;
Judy Murphy, RN, BSN, FACMI;
Diane Skiba, PhD, FAAN, FACMI; and Charlotte Weaver, PhD, RN

This panel will provide an opportunity for those who were unable to attend NI 2006 in person to share in some of the issues, themes, lessons, experiences, and highlights of the event.

2:15 – 3 p.m.
INTRODUCTIONS AND WELCOME
And
Recognition of Award-Winning Peer-Reviewed Presenters

Janet D. Allan, PhD, RN, CS, FAAN
Dean and Professor
University of Maryland School of Nursing
Clinical informatics faces a number of challenges and opportunities in order to improve practice dramatically. Education, research, and policy issues abound. Expert applied clinical informaticians are needed to support the knowledge and skills needed by other clinicians as well as citizens. Preferably, this education will be delivered via peer-reviewed, Web-based offerings such as AMIA’s 10 x10 program. Major research issues include knowledge management relating to decision-support systems and their upkeep, as well as more basic research issues of nomenclature and global standards for high- and low-resource environments. Integrating genetic markers into clinical records has both research and policy dimensions. Other policy issues include the charged environment around patient authentication and less combustible issues such as the needed diffusion of interoperable electronic health records into all kinds of practice settings surrounded by a robust supporting infrastructure.
6 – 9 p.m.

SOCIAL EVENT—DINNER, DANCING, AND NETWORKING

Reginald F. Lewis Museum of Maryland African American History and Culture
830 East Pratt St.
Baltimore, MD 21202

www.africanamericanculture.org

Join us for an evening of dining, networking, and dancing. A Cajun theme will highlight a live jazz band and delicious ethnic cuisine, including alcoholic refreshments. You will enjoy time to view the exhibits portraying the courageous journeys toward freedom and self-determination made by African American Marylanders. Business casual attire is suggested. This event is included with your SINI registration. It is also offered to guests who have not registered for a cost of $99.

Shuttle bus service will be available every 15-20 minutes from the School of Nursing, the Marriott Inner Harbor Hotel, Holiday Inn, and Days Inn to the Museum beginning at 5:15 PM. To meet the buses, from the main entrance of the School, of Nursing turn left toward Penn Street, turn left at the corner of Lombard and Penn and walk down to the end of the block. Buses will be parked directly behind the School of Nursing across from the entrance of the Penn Street Garage. Return trips will begin at 8 PM and continue until 9 PM.

THURSDAY, JULY 20

8 – 8:30 a.m.

CONTINENTAL BREAKFAST
School of Nursing Lobby

8:30 – 9:30 a.m.

DISTINGUISHED LECTURE

Room 130

Update on Health Care IT Legislation
Patrick Kennedy
Congressman
U.S. House of Representatives, First District, Rhode Island

This session will inform participants of the latest legislation supported by Congressman Kennedy and his colleagues. The 21st Century Health Information Act will be discussed, along with the Bipartisan 21st Century Health Care Caucus of the House of Representatives, which is co-chaired by the congressman and Representative Tim Murphy (R-PA). Lastly, you will find out how nurses can get involved to impact the changes put forth on Capitol Hill.

9:30 – 10 a.m.

MORNING BREAK

10–11 a.m.

CONCURRENT SESSIONS

Room 140

1A. The Interoperable EHR to Change Practice

(Intermediate to Advanced Level)
Scott Wallace, JD, MBA
President and CEO
National Alliance for Health Informatics Technology
Chair of National Commission on System Interoperability

Electronic Health Records (EHR), and health care information technology in general, is the hot topic of the moment. Hot topic, perhaps, but not an endpoint. EHRs are a tool, useful in the transformation of care. This talk will link policy, transformation leadership, clinical practice, and technology—the combination of perspectives that is essential to successful EHR use.

1B. Reference Terminology
(Intermediate to Advanced Level)

Marcelline Harris, RN, PhD
Clinical Nurse Researcher
Mayo Clinic

The intent of evidence-based practice is to assist clinicians and patients in making decisions about health care and to improve the outcomes of clinical care. Evidence-based practice requires that we can ask answerable questions, access the best information, appraise the information for validity and relevance, and apply the information to patient care. The purpose of this session is to examine the “state of the science” regarding how standardized and machineable terminologies and knowledge models within information systems can enhance evidence-based practice.

1C. House Calls: The Veterans Health Administration’s Home Telehealth Program
(All Levels)

Betsy Lancaster, BS
Management and Program Analyst
Veterans Health Administration

The Department of Veterans Affairs’ Veterans Health Administration (VA) has implemented a home telehealth program that enables veteran patients with chronic conditions (such as diabetes and heart failure) to continue to live independently in their homes and avoid unnecessary admissions to long-term care institutional care. Through the use of telemonitoring equipment placed in patient homes, information regarding a patient’s health is routed to a VA facility daily. Care coordinators monitor incoming information and intervene when warranted. This presentation focuses on these automated management and analysis tools that have been developed to manage the program.

1D. Panel Discussion: Systems Implementation: We Are Systems Analysts, We Are Vendors, Above All, We Are a TEAM!
(All Levels)

Moderator and Panelist:
Eun-Shim Nahm, PhD, RN
Assistant Professor
University of Maryland School of Nursing

Panelists:
Fran Spivak, MS, RN
Software Product Analyst
SIEMENS Medical Solutions, Health Services
Implementing a Health Information System is a complex process and its success depends on the efforts of multiple stakeholders internal and external to the healthcare organization. Communication between a healthcare organization and a vendor team must be well developed to avoid implementation pitfalls including scope creep, cost and time overruns. In this presentation, using a real life example, an expert panel consisting of a vendor product system analyst, a hospital systems analyst, and a former hospital systems administrator will discuss strategies for successful collaboration between the vendor and the healthcare organization.

**1E. Emergency Response Analysis and Lessons Learned**

**Post Hurricane Katrina**

*Room 740*

*All Levels*

**Charles L. Gephart**

Chief Information Officer (V16)
South Central VA Health Care Network

This presentation will attempt to share what happened to two Veterans Health Administration hospitals on the Gulf Coast after Hurricane Katrina. There will be an analysis of how VA employees responded to ensure that the Electronic Medical Records were preserved so clinicians could continue to provide proper care for both veterans and private sector patients. The presentation will include a video showing Hurricane Katrina footage, with stories of personal sacrifice and heroism, as well as sharing of lessons learned.

**1F. Consumers and the Personal Health Record:**

**Overview from Theory into Practice**

*Room 130*

*All Levels*

**Marion J. Ball, EdD**
Fellow, Global Leadership Initiative
IBM
Professor
Johns Hopkins school of Nursing

The Personal Health Record (PHR) will play a major role in the 21st century health care system. We will address what a Personal Health Record is, how it will be used, and how it fits into the entire health care ecosystem. We will show some easily understood analogies between health data banks and the more familiar banking systems we use on a daily basis. We will relate the alphabet soup of EHRs, PHRs, EMRs, and RHIOs in an orderly fashion that will guide us comfortably into what our health care systems might look like in years to come.

11 a.m. – 1 p.m.

**LUNCH (on your own)**

**ALUMNI LUNCHEON (by invitation only)**
Sponsored by the University of Maryland School of Nursing
Alumni Office

**Volunteer and Invited Speaker Networking Luncheon**

**Room 725**
Franklin Lounge

Rooms 730 and 732
Instances of different organizations that put in the same clinical information system but have vastly different outcomes is a familiar scenario. Organizations vary in leadership strengths, cohesiveness of the executive team, inclusion of nurse executive, resource availability, and focused commitment to quality transformation. These characteristics are akin to the “Magnet Hospital” profile and carry a significant correlation to risk/failure or world class success in EHR implementations. Two contrasting case studies will be presented to illustrate this profile and its relationship to implementation/transformation outcomes.

Laura K. Heermann Langford, PhD, RN Professional
Director, Nursing Informatics
Intermountain Health Care

Three different examples will demonstrate innovative ways to use electronic systems in providing, documenting, and measuring plans of care. This two-part lecture will show how interdisciplinary, evidenced-based care can be applied at the bedside. Learn how a combination of capturing clinical communications, patient documentation, and applying process improvement measures can improve the quality of care.

Jocelyn Benes-Stickle, RN, MSN
Vice President, Quality & Patient Safety
Children’s Hospital of Pittsburgh

Children’s Hospital of Pittsburgh implemented CPOE as the first phase of its strategic rollout of an electronic health record. Learn about the strategies related to implementation leadership, workflow process redesign, and outcomes metrics. Listen to the experience of one pediatric hospital’s transformational change and the profound effect on culture, including post-implementation results.

Teresa McCasky, MBA, RN, BC
Chief Nurse Strategist
McKesson Provider Technologies

Mobile computing promised vast patient safety improvements by automating point-of-care decision-making. Yet, even with remarkable advances in mobile computing technology, the health care community has struggled
to understand the most effective way to leverage mobile devices. Effective clinical mobile computing must set—as its primary goal—the ability to access and document at the point of care in a manner that complements a clinician’s workflow. This session will discuss a strategic approach to mobile computing to drive patient safety improvements. The presentation will briefly review the history of point-of-care devices, the current state, what we’ve learned, and how this is driving the direction of clinical information technology.

2E. Matching Evaluation Method to System Life

Cycle Stage: A Case Study of Mobile Decision Support for Advanced Practice Nurses
(Intermediate to Advanced Level)

Suzanne Bakken, RN, DNSc, FAAN
The Alumni Professor of Nursing and Professor of Biomedical Informatics
Columbia University

This session will use a case study to illustrate a variety of evaluation methods. The theoretical underpinnings of the methods include cognitive science (including comprehension theory), information processing theory, and behavioral theories. Methods include cognitive methods for comprehension assessment, heuristic evaluation, think-aloud protocols in usability testing, usefulness and ease-of-use surveys, and clinical process measurement (i.e., adherence to guideline recommendations).

2F. Tethered or Not:

Connecting Patients to Their Health Information
(All levels)
Two-session tutorial. Second session will be session 3F

Patricia Flatley Brennan, RN, PhD, FAAN, FACMI
Moehlman Bascom Professor
School of Nursing and College of Engineering
University of Wisconsin-Madison

Personal Health Records (PHRs) complement clinical documentation by providing patients with access to subsets of their clinical records and with the health information management tools needed for self-care and effective health care utilization. E-health portals provide lay people with access to health care systems resources, including health information, appointment scheduling and provider communication, and personal health tracking. This two-part tutorial will introduce nurses to critical issues regarding the design and deployment of personal health records, and to successful strategies for e-health portal construction and use. During the first tutorial, participants will have an opportunity to examine and critically evaluate existing personal health records tools and explore e-health portals.

2:15 – 3:15 p.m.
CONCURRENT SESSIONS

3A. Integrating Evidence to Support Care:

Great Challenges—Greater Opportunities
(Intermediate to Advanced Level)

Ida Androwich, PhD, RNC, FAAN
Professor and Director, Health Systems Management
Marcella Niehoff School of Nursing, Loyola University, Chicago

Increased use of an evidence base in the delivery of care is a national health care priority, yet a challenge faced by nursing informaticians today is how to translate the best existing evidence into useful information that can
assist the nurse at the point of care. Ideally, systems would also support automated data capture so information from current patient encounters could be aggregated to inform future encounters. This session will identify and explore issues, barriers, and potential solutions.

3B. Revolutionizing Plans of Care
(Intermediate to Advanced Level)
The second session of two-session tutorial

Laura Heermann Langford, PhD, RN Professional
Director, Nursing Informatics
Intermountain Health Care

Three different examples will demonstrate innovative ways to use electronic systems in providing, documenting and measuring plans of care. This two-part lecture will show how interdisciplinary evidenced-based care can be applied at the bedside. Learn how a combination of capturing clinical communications, patient documentation, and applying process improvement measures can improve the quality of care.

3C. Tour of the Baltimore VA Medical Center with
Computerized Provider Order Entry (CPOE) Demonstration
(All Levels)

Janet Pierce, BSN, MSEd
Clinical Informatics Coordinator

Jeff Sartori, RN, BSN
Clinical Informatics Coordinator

Shawn M. Loftus, BS
Clinical Informatics Coordinator

Philip VanCamp, MED
Clinical Informatics Coordinator

**Note: Pre registered participants will meet the tour guide in the School of Nursing Main Lobby

Participants will tour the Baltimore VA Medical Center to see CPOE in action. Participants will be shown how order entry is used in an inpatient and outpatient setting. They will be able to speak to end users to determine the effects of provider order entry on everyday practice.

3D. Systems Integration: CIO Challenges
(Intermediate to Advanced Level)

Bill Bame, BS
Software Architect
University of Maryland Medical System

Robert Kolodner, MD
Chief Health Informatics Officer
Veterans Health Administration

The Chief Information Officer (CIO) faces unique challenges in designing and implementing information systems in consideration of technologic, organizational, health information, and health care delivery requirements. Clinical redesign requires information technology changes that impact and challenge those in the role of CIO.
3E. Measuring the Impact of Automation on Nursing Satisfaction, Efficiency, and Quality Documentation  
(All levels)

Laura Smith, RN, MSN  
Cardiovascular Clinical Nurse Specialist  
University Community Hospital, Tampa

Transitioning from paper to electronic health records can impact nursing satisfaction, efficiency, and quality of documentation. This session will describe one hospital’s journey to measure these three variables as it moved to electronic health records. Study design, methodology (including instrument development), and outcomes will be discussed.

3F. Tethered or Not:  
Connecting Patients to Their Health Information  
(All levels)  
Second session of two-session tutorial

Patricia Flatley Brennan, RN, PhD, FAAN, FACMI  
Moehlman Bascom Professor  
School of Nursing and College of Engineering  
University of Wisconsin-Madison

In this, the second of two tutorials, we will focus on the clinical, technical, ethical, and policy considerations related to the deployment of personal health information tools.

The Planning Committee for SINI 2007 will be meeting in room 740.

3:15 – 3:45 p.m.  
AFTERNOON BREAK

3:45 – 4:45 p.m.  
CONCURRENT SESSIONS

PEER-REVIEWED PAPER PRESENTATIONS  
Full abstracts are available on the conference CD.

First presentation for each track will be held 3:45 – 4:15 PM  
Second presentation for each track will be held 4:15 – 4:45 PM  
Please note: Primary authors are in bold

4A. Track: Leadership  
Room 140

Exploring Blogs as a Collaborative Tool for Advancing Nursing Informaticians’ Professional Development  
Peter Murray, PhD, RN; Rod Ward RN, BSc, MAEd, MBCS; and Karl Øyri RN, RCCN, MS

Raising the Bar of Clinical Practice- Using a Collaborative Interdisciplinary Approach to Set Standards and Define Content for an Electronic Health Record  
Agnese Bianchi, RN, BScN, MN; Christine Henhoeffer, RN, BScN; and Brenda Laurie-Shaw, RN, BScN, MN
4B. **Track: Evidence-Based Practice** Room 130

**Voted Most Influential and High Scholarship Winner**

The HANDS Project and Vision for Nursing Informatics
  Gail Keenan, PhD, RN; Elizabeth Yakel, PhD; and Dana Tschannen, PhD, RN

The Right Communication at the Right Place, the Right Time, and Between the Right People: Technology's Role in Facilitating Verbal Information Exchange
  Dana Womack, MS, RN

4C. **Track: Patient Care Technology** Room 106

**Scholarship Winner**

Leveraging Technology to Improve Performance
  Jill Stemmerman, RN, MS, CAN, BC; Stephanie Kitt, R.N, MS; Michael Sills, R.N, BSN, BC; and Julie Garrett, R.N, BSN, CCRN

Technology's Role in Addressing Maryland's Nursing Shortage
  Susan Newbold, MS, RN, BC; Barbara Covington, PhD, RN; and Maria Koszalka, EdD, RN

4D. **Track: Systems Design** Room 730

**Scholarship Winner**

Nurses’ Attitudes Towards the Computerization of Nursing Record Systems, a Pre-Implementation Study
  Rosaleen Murnane, RGN, BNS, MSc

A Structure to Drive Optimization of the EHR- A Nursing Approach
  Stephanie Kitt, RN, MSN and Jill Stemmerman, RN, MS

4E. **Track: Systems Analysis and Evaluation** Room 740

The Promises and Perils of Automating Clinical Practice Guidelines in a Large Integrated Delivery Network
  Caterina Lasome, MSN, MBA, MHA, RN; Nancy Staggers, PhD, RN, FAAN; and Bonnie M. Jennings, PhD, RN, FAAN

Perioperative Patient Tracking System: Planning, Implementation, Benefits, and Lessons Learned
  Deborah Krauss, MS, RN and Jan Bahner, MSHA, RN, CPHQ

4F. **Track: Consumer Informatics** Room 150

**Scholarship Winner**

Development and Evaluation of Complementary Therapies and Cancer Care: Interactive Online Continuing Education for Nurses and Health Educators
  Ann McFarren, RN; Jane Bishop; Susan Brink and Marguerite Beckley, CHES

Best Practice Methods for Building Trust in Telehomecare
  Kimberly Shea, MS, RN
5 – 8 p.m.

Exhibitor Evening and Taste of Baltimore Dinner
Hosted by the University of Maryland School of Nursing
University of Maryland School of Nursing Lobby

Interact with dozens of exhibitors featuring products, services, and opportunities for informaticians and health care personnel. A delicious hot and cold buffet dinner, including alcoholic refreshments, will be served to all registered participants. Guests may attend for a fee of $50.

FOR A LIST OF SPONSORS AND EXHIBITORS, PLEASE SEE PAGE 31

SIMULATION LABORATORIES TOURS AND DEMONSTRATIONS

Debra L. Spunt, MS, RN
Assistant Professor
Director, Clinical Stimulation Laboratories
University of Maryland School of Nursing

The Clinical Simulations Laboratories will be used to demonstrate the application of clinical simulation to nursing education of all levels. These 45-minute tours will start on the hour at 5, 6, and 7 p.m. Interested participants can meet on Floor 2 near the elevators.

SCHOOL OF NURSING MUSEUM: A LIVING HISTORY
Floor 2, room 235

The University of Maryland School of Nursing Museum is one of the only museums of its type in the nation. The fascinating story of health care’s unsung heroes is captured in hundreds of photographs, personal items and the written and spoken words of the nurses themselves, including the retired nurses who serve as volunteer museum docents.

FRIDAY, JULY 21

8:30 – 9 a.m.
Continental Breakfast
University of Maryland School of Nursing Lobby

9 – 10:15 a.m.
DISTINGUISHED LECTURER
Room 130
Transformation of the Work Environment
Through Information Technology

Victoria Bradley, RN, DNP, FHIMSS
Director of Patient Information
University of Kentucky Hospital
National Board Member
Healthcare Information and Management Systems Society

Information technology (IT) has the potential to transform the work environment. The benefits of IT to nursing productivity and retention, patient safety, and patient care outcomes are reviewed. Real life experiences are used to illustrate the challenges nurses face as these new systems are implemented. Strategies to promote transformation and attainment of these benefits are also shared.
10:15 –10:45 a.m.
MORNING BREAK

10:45 – 11:45 a.m.
CONCURRENT SESSIONS

PEER-REVIEWED PAPER PRESENTATIONS
Full abstracts are available on the conference CD.

First presentation for each track will be held 10:45 – 11:15 AM
Second presentation for each track will be held 11:15 – 11:45 AM
Please note: Primary authors are in bold

5A.  Track: Leadership
Room 140
The Nurses Acceptance of Technology and the Role of Nursing Informatics
Debra Fortin, BA, RN, C, CNOR, MEd

Evaluation of a Healthcare Information System: Attitudes of Nurses and Physicians
Beth Elias, MS, PhD

5B.  Track: Evidence-Based Practice
Room 106
Advancement and Innovation in Patient Safety Through the Use of Nursing Informatics Driven Processes and Technology
Carol Olson, RN, MSN, CNA, BC and Randi Sims, RN, MSN

The Effect of Computerized Orders with Standardized Concentrations for Continuous Infusions on Medication Administration Errors
Azizeh Sowan, PhD, RN; Karen Soekan, Phd; Elora Hilmas, PharmD; Mohamed Gaffoor, M.D; Mary Etta Mills, PhD, RN; and Vinay Vaidya, M.D.

5C.  Track: Patient Care Technology
Room 730
Design Efficiencies and Satisfaction of Computerized Physician Order Entry: A Comparison of Two Order Entry Methods
Charlotte Seckman, MSN, RN, BC; Carol Romano, PhD, RN, FAAN; Rubi Defensor, MS, RN; and Mary Benham-Hutchins, MSN, RN

Web-based Simulation: A Tool to Teach Critical Care Nursing
Sayonara Barbosa, PhD and Heimar Marin, PhD

5D.  Track: Systems Design
Room 740
**High Scholarship Winner**
VA Maryland Healthcare System Admission Nursing Assessment: Forging the Way into the Future
CherylAnn Kraska, BSN, RN; Janet Pierce, BSN, MEd, RN; Philip VanCamp, MEd; Linda S. Lottes, BSN, MS, RN; and Shawn Loftus

Integration of a Critical Care Application with a Computerized Patient Record: System Implementation
Janet Yapor, RN, BSN; Miguel Toledo, RN, BSN, MSN, MSA; Claire Monzeglio, RN, MSN, CCRN; and Kathryn Sapnas, RN, PhD, CCRN, CNOR

nursing.umaryland.edu/informatics
5E. **Track: Systems Analysis and Evaluation**

Integrating Clinical Systems to Provide Continuity of Care, Outcomes Reporting and Financial Analysis in a Psychiatric Evaluation Center
Cindy Lyle, BSN

Post Implementation System Design and Technology Evaluation: BCMA Multidisciplinary Process Improvement for Nursing Phase 2
Kathryn Sapnas, PhD, RN, CCRN, CNOR; Cathleen Rhoades, MS, RN; Kathryn “Ginger” Ward-Presson, MSN, RN; and Marie Schafer, MSN, RN

5E. **Track: Consumer Informatics**

Leveraging Mobile Resources to Enhance Student Mastery of the Nursing Process
Mary Gallagher Gordon, MSN, RN, CNE; Linda Wilson, PhD, RN, CPAN, CAPA, BC; Fran Cornelius, PhD, RN, CNE; and Leland Rockstraw, MSN, RN

Disaster Nursing Information: Are You Ready?
Kathryn Ward-Presson, RN, BSN, MSN; Kathryn G. Sapnas, RN, PhD, CCRN, CNOR; Susan Mangery, RN, MEd, BSN, BS, CAN-BC; and Cathleen Rhoades, RGN, MS

12 – 2 p.m.
HOSTED BUFFET LUNCH and POSTER SESSION
School of Nursing Lobby

**Poster Presentations**

Complete abstracts can be viewed on the conference CD.
Please note: Primary authors are in **bold**

1. **High Scholarship Winner**
   Nursing Attitudes Before the Implementation of an Electronic Patient Record in Critical Care: Application of the Theory of Planned Behavior
   Susan Hall, RN; Rosemary Wilson, RN, HBScN, MN, ACNP, CON(c); and Elizabeth VanDenKerkhof, RGN, BScN, MSc, DrPH

2. **High Scholarship Winner**
   Nursing Identification of Delirium in Patients with Support of Mechanical Ventilation: A Comparison of the RASS and CAM-ICU in Usual Nursing Assessment
   Elaine Polinak, RN, MSN and Christopher Hughes, MD

3. **Scholarship Winner**
   Designing and Evaluating a Web-Based, Tailored Breast Cancer Educational Program
   Zu-Chun Lin, MSN, RN, PhD; Judith Effken, PhD, RN, FACMI, FAAN; and Yun Ju Li

4. **Scholarship Winner**
   Improving Clinical Practice by Use of Information Technology Based Education
   Ann Gunnett, MSN, MS, RN, BC

5. **Scholarship Winner**
   Meeting Specialized Care Needs with a Niche System- Nice and Necessary
   Laura Kearns, MSN, RN, BC

6. The Study of Using Port-A Simulator on the Improvement of Injection Knowledge Skill
   Sing-ling Tsai, PhD; Ji-Liang Doong, PhD; Shirling Lin, MN; Fang-meii Taur, MSN; Li-fend Hsieh, MSN; and Yi-Feng Huang, MSN

nursing.umaryland.edu/informatics
7. How Do You Eat an Elephant?: Educating and Supporting End Users After a Twenty-Seven Application Go Live
   Bonnie Brown, RN, BC, MSN; Rod Meek, Med; and Kay Merryman, RNC

8. The Internet as a Resource for Nurses Working in Ireland: Nursing Information Research Exchange
   Geraldine Hiney, MSc, BNS, RGN, RCN

9. Monitoring Patient Throughput: Impact of Bed Tracking System Implementation in the Post Anesthesia Care Unit
   Cynthia Murphy, RN, MS; Marian Thomas, RN, BSN; Shelby Brown, JD; and Mick Owen, RN, BSN

10. Advances in Nurse Reporting
    Ethel Pascal, RN, MSN, BC

11. Resources Information Technology Program Office Journey to Software Acquisition Capability Maturity Model (SA-CMM) Level 3
    Joel Parker, RN, CNOR, MS, BC, PMP; Canice Levin, MA, PMP; and Bob Dasher, BA, PMP

12. Champion Model & EPR Training at Stony Brook University Hospital
    Carmen McCoy, MA and Kathy Holzmacher, MS, RNC, NP, CPHIT, CPEHER

13. Imagine If You Will… The Nursing Unit of the Future
    Mary Kenney, BSN, RN and Katherine Sibila, BSN, R.N.

    Ji-Young An, PhD, MPH, RN

15. The Effect of Personal Digital Assistants for Patient Care Documentation on Student Nurses’ Professional Nursing Judgment, Attitudes Toward Computerized Documentation and Satisfaction with a PDA for Documentation
    Kristine Newman, RN, BNSc, MSc and Ena Howse, R.N., PhD

16. An Audit Tool for Nursing Documentation in the Electronic Medical Record
    Paulette Fraser, MS, RN, BC, Carol Montoni, BS, RN; Jane Clemons, RN; Sandra Driscoll, MS, RN, CNS; Carol Frock, RN; Jessica Giguere, RN; Dawn Kritter, RT; Rachel Loneragan, RN; Diane Loranger, DT; Linda Mitchell, RN; Sandra Parker, PT; Deborah Payson, RN; Joan Racyzi, Pharm; Anne Steele, MS, RN; Sue Trotta, RN; and Sara Wassel, RN

17. Nursing Satisfaction with Data Entry During Stressful Hospice
    Debra Smith, RN, BSN; Barbara Ridell, MHA, BSN, R.N.-C; Kathy Terman, RN, BSN; and Debbie Terpenning, RN, BSN, CEN

18. Use of Clinical Information Systems to Increase Compliancy in Documentation of Advance Directives
    Rekha Mathew, RN, MS; Anna Schoenbaum, R.N, MS; Natasha Haris, R.N; and Nancy Adeniyi, RN, MS

19. Using Centricity Perinatal Clinical Information System to Assist with Hand Off Communications
    Debra Chandler, BSN, RNC and Cindy Mann, BSN, RNC

20. Clinical Predictive Modeling and Pattern Recognition: Methodologies for Advancing Nursing Practice Through Implicit Electronic Data Analysis
    Zelia Taylor-Pearson, BS, RN, IT T3; Jeff Sartori, RN, BSN; and Kitty Price, CCISA, CCISP, IT T3
21. **Blue Sky**: Developing Technology-Enhanced Chronic Care Management for Teens with Depression  
   Susan Kossman, RN, PhD

22. **Information is Knowledge**: Reengineering Patient Care Documentation  
   Joyce Walls, MSN, RN

23. **Physical, Psychological, and Social Environmental Variables Associated with Self-Reported Disability in Community Residing Elders—A Secondary Data Analysis Approach**  
   Marisa L. Wilson, DNSc., MHSc., RN

24. **The Nursing Dashboard, A New Tool for VA Nurses to Manage Patients**  
   Leah Grove, BSN, RN and Patricia Slonaker, MSN, RN

25. **An Information Technology Approach for Implementing Evidence Based Practice**  
   Mary Doyle, PhD, RN

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**BOOK SIGNINGS**

Second Floor Lounge

**Marion Ball, Kathryn Hannah and Susan Newbold**  
Nursing Informatics: Where Caring and Technology Meet (3rd ed) New York: Springer-Verlag

**Kathryn Hannah, Marion Ball Susan Newbold and Joyce Sensmeier**  
Introduction to Nursing Informatics (3rd ed) New York: Spring-Verlag

**Karen Martin**  
The Omaha System: A Key to Practice, Documentation, and Information Management (2nd ed) St. Louis: Elsevier

**Mary Etta Mills and Nalini Jairath**  
Online Health Science Education: Development and Implementation. Philadelphia: Lippincott Williams, and Wilkins 2005

**Carol O’Neil, Cheryl Fisher, and Susan Newbold**  
Developing an Online Course: Best Practices for Nurse Educators. New York: Springer

**Virginia Saba**  
Essentials of Computers for Nurses: Informatics for the New Millennium (4th ed)  
New York: McGraw Hill

**Linda Thede**  
Informatics and Nursing: Opportunities and Challenges (2nd ed) 2003

**Charlotte Weaver**  
2 – 3 p.m.

CONCURRENT SESSIONS

6A. Using Information Technology to Support Evidence-Based Care and Pay-for-Performance Initiatives
(Beginner to Intermediate Level)

Judy Murphy, RN, FACMI
Vice President, Information Services
Aurora Health Care

The overall goal of Pay for Performance is to create a compelling set of financial incentives that will drive breakthrough improvements in the quality of health care and the patient experience. This presentation will elaborate on one organization’s experiences in using information technology to support the delivery of evidence-based care in the hospital, while capturing the data needed for Pay-for-Performance initiatives. How data is aggregated, analyzed, benchmarked, and reported to determine compliance/variance to the defined clinical performance measures will be described, along with how the data is used for outcome assessment and quality improvement.

6B. Classification Standards
(Novice to Intermediate Level)

Virginia Saba, EdD, RN, FAAN, FACMI
Distinguished Scholar, Adjunct
Georgetown University, Washington, D.C.

This presentation provides an overview of nursing classification standards that have emerged as critical for their integration into the electronic health record (EHR) systems. It focuses on the 13 classification systems recognized by the American Nurses Association (ANA). It provides information on the national and international standards organizations that impact on their uses. Finally, it will provide an example of one classification system—Clinical Care Classification (CCC)—and how it can be used to document and code a critical pathway, as well as generate reports that demonstrate how quality, safety, outcomes, and costs can be measured.

6C. WebQuest for Teaching Nurses an Integrated Body-Mind-Spirit Approach to Developing A Plan of Care
(All Levels)

Kathleen Charters, PhD, RN, CPHIMS, CNE
Senior Consultant
First Consulting Group

An adult nurse practitioner and a nurse informatician explain and demonstrate the process of teaming to create a Web-based learning module. The type of learning experience developed is a Webquest. The focus of the learning experience is gaining knowledge and experience in integrating physical, psychological, and spiritual care. The subject matter covers care for a family consisting of a caregiver grandmother, a daughter-in-law with AIDS, and an HIV-positive granddaughter. The outcome is a plan of care for each family member addressing physical, psychological, and spiritual care.

6D. Leveraging Breakthroughs — Harmonizing Standards to Enable Health Information Exchange
(Intermediate to Advanced Level)

Joyce Sensmeier, MS, RN, BC, CPHIMS, FHIMSS
Vice President, Informatics
Healthcare Information and Management Systems Society

This session will examine the role of standards in providing a foundation for interoperability; identify key strategies of public/private collaborations for delivering EHR interoperability; and determine the importance of standards harmonization in enabling health information exchange.
6E. Public Health Information Challenges for Emergent and Non-Emergent Needs  (All Levels)

Carol A. Romano PhD, RN, FAAN
Assistant Surgeon General
Chief Nurse Officer, U.S. Public Health Service
Deputy CIO, Clinical Research Informatics
Clinical Center, National Institutes of Health

The mission of the Public Health Service (PHS) is to protect, promote, and advance the health and safety of the nation. Information management plays a critical role in this mission. This session will review the public health challenges of the 21st century and describe the informatics needs to address these challenges. National informatics initiatives will be reviewed, and the nursing challenges in this area for both emergent as well as non-emergent needs will be discussed.

6F. Creating Partnerships to Share Intellectual and Social Capital  (All Levels)

Diane J. Skiba, PhD, FAAN, FACMI
Professor and Project Director, I-Collaboratory: Partnerships in Learning
University of Colorado at Denver and Health Sciences Center

Michele Norton, RN, MS
Product Specialist, Horizons Clinical Enterprise Sales Support
McKesson Provider Technologies

This presentation will discuss how intellectual and social capital can be shared to reach the goals of advancing the discipline of informatics and the promotion of technological innovation. Case scenarios will be used to explore methods and accomplishments of partnerships. The focus will be on the strategies necessary to create successful partnerships. Content to be covered includes: finding partners, assessment of intellectual and social capital, mutual goal setting, memorandums of agreements/contracts, examples of partnership activities, and evaluation mechanisms.

3 – 3:30 p.m.
AFTERNOON BREAK

3:30 – 4:30 p.m.
CONCURRENT SESSIONS

7A. Leadership, Strategy and Change Management as They Relate to IT and CIS Implementation in Healthcare  (All Levels)

Sharon Tourville RN MSN, CNAA
Former Senior Vice President & Chief Nursing Officer
Children’s Medical Center Dallas

Never is strong leadership, strategy and change management more important than during IT implementation projects and, or, any CIS implementation in Healthcare. Whether it is a new project or the expansion of a program that has been present in the organization for a number of years, the change can bring the organization to its knees. This presentation, through the use of actual case studies will explore and demonstrate how these challenges can be met and even bring the organization to a higher level.
SNOMED International, a division of The College of American Pathologists (CAP), and NHS Connecting for Health, an executive agency of the Department of Health in England, have announced a proposal to establish an international Standards Development Organization (SDO) to offer countries the opportunity to take a leading role in the development, ownership, and maintenance of SNOMED CT. This session will describe the evolution of the SDO process, highlighting recent developments as well as implications for nurse informaticians, both in the United States and other countries.

A guided tour of UMMC’s R Adams Cowley Shock Trauma Center (STC) will provide access to the Trauma Resuscitation Unit, operating rooms, hyperbaric chamber, heliport, and critical care unit. UMMC’s STC provides level 1 trauma care throughout Maryland and surrounding states, treating more than 7,000 in-patients and outpatients per year.

A guided tour of the University of Maryland Medical Center’s Operating Rooms of the Future (Weinberg ORs), Adult Ambulatory Care Unit, and the Pediatric Surgicenter, and the Adult Post-Anesthesia Care units will be provided. The General Operating Rooms, Ambulatory Surgical Care Unit and Post Anesthesia Unit recently opened in 2003 and contain the latest surgical technology available in the country.

**Note: Pre registered participants will meet the tour guide in the School of Nursing Main Lobby**

Having identified informatics as the key to quality, safety, and cost control in health care, a number of federal and private initiatives are underway to promote the development and widespread adoption of electronic health
records, personal health records, and appropriate, secure sharing of information across providers and agencies. The current climate offers Informatics Nurse Specialists unprecedented opportunities to create, implement, evaluate, and improve applications to serve healthcare providers, consumers, and researchers. This presentation will highlight strategies to capitalize on these opportunities to use informatics for the betterment of health care and the health of the public.

7E. ROI and Cost-Benefit Analysis of Clinical Applications
(Intermediate to Advanced Level)

Lyn Stankiewicz Murphy, PhD, MBA, MS, RN
Assistant Professor
University of Maryland School of Nursing

Marisa L. Wilson, DNSc., MHSc., RN
Assistant Professor
University of Maryland School of Nursing

The culture of safety is maturing, and the desire to make nursing practice more efficient is growing in Health care Delivery Organizations (HDOs). Clinical applications such as CPOE, Electronic Medication Administration, and Electronic Nursing Documentation can address both these goals, yet they remain costly to acquire, implement, and maintain. Faced with limited funds for capital improvement, HDO executives and boards may strongly desire to invest these technologies, yet balk at the costs involved. A practical Cost Benefit Analysis (CBA) method, yielding Return-On-Investment (ROI) and other data that is particularly well-suited to clinical applications will be presented and discussed. Armed with CBA and ROI data, the nurse informatician and nurse executive can “speak the language” of other HDO executives and put potentially high clinical application costs into perspectives that can facilitate management decision-making.

7F. Informatics Challenges for the Impending Patient Information Explosion
(All Levels)

Jacqueline Moss, PhD, RN
Assistant Professor, School of Nursing
Scientist, Center for Outcomes Effectiveness Research & Education
University of Alabama, Birmingham

We are moving toward an era when health information will be more readily accessible and transferable. When this occurs, clinicians and patients will have more information than ever at their fingertips, perhaps too much. This presentation will address the challenges and possible solutions associated with the impending patient information explosion.

7 – 9 p.m.
CARING NETWORKING DINNER in Baltimore’s Little Italy

This dinner is self paid and is open to all interested participants. There is separate registration for this dinner. To register, please visit the CARING Web site: www.caringonline.org. For more information, please contact Susan Newbold at newbold@umaryland.edu.
8–9 a.m.
**Full Hot Breakfast**
*Sponsored by Elsevier*
University of Maryland School of Nursing Lobby

9–10 a.m
**The CERNER DISTINGUISHED LECTURE**
*Room 130*

**Lighting the Way for Modern Nurses with Nursing Informatics**

**Kathryn J. Hannah, PhD, RN**
President
HECS, Inc.
Professor
Department of Community Health Sciences
Faculty of Medicine, University of Calgary

Dr. Hannah will identify and discuss emerging trends impacting health informatics, specifically: outcomes orientation; evidence-based practice; nursing terminology standards; change management; computer-based patient records and electronic health records; and information networks to support integrated delivery.

Dr. Hannah will follow this discussion by sharing her personal predictions and insights into the future of health and nursing informatics, including the impact of bioinformatics, genomics, individually customized care, electronic health records, and robotics. To conclude, Dr. Hannah will explore the ethical considerations and dilemmas facing nurses as a result of the potential developments in nursing informatics in the future.

10–10:15 a.m.
**MORNING BREAK**

10:15 – 11 a.m.
**Panel Discussion**
*Room 130*

**Coming Innovations**

*Facilitated by:*
**Jeffrey Goldsmith, PhD**
President
Health Futures, Inc.

Panel Members include:
**Peter Murray, PhD, RN, FBCS CITP**
Founding Fellow, Centre for Health Informatics Research and Development
Chair, IMIA-NI Open Source Nursing

**Joyce Sensmeier, MS, RN, BC, CPHIMS, F HIMSS**
Vice President, Informatics
Healthcare Information and Management Systems Society

[nursing.umaryland.edu/informatics](nursing.umaryland.edu/informatics)
Over time, the roles and responsibilities of nurses and nursing informatics specialists were defined via societal and or information technology advancements, leading to reactionary development of the profession. To define roles and scope-of-practice, nurses and nurse informaticists need to identify the most probable future directions and intersections of information technology health care, nursing, and society. This panel will explore the implications of such a future-focused perspective on health care, nursing and nursing informatics, incorporating domestic and international views.

11–Noon
ENDNOTE PRESENTATION

INFORMATICS’ INFLUENCE ON THE FUTURE OF HEALTH CARE

Jeffrey Goldsmith, PhD
President
Health Futures, Inc.

This presentation will examine converging technical advances in clinical information technology that will reshape medical practice. They include pharmacogenomics, the “intelligent” electronic clinical record, remote clinical monitoring, turbocharged diagnosis, and improved connectivity to patients and within the care team. How will these technologies converge, and enable changes both in the organization of care and in health care payment? How will these changes affect the role of nursing in the care team and care system?

Noon – 12:30 p.m.
CONCLUDING REMARKS AND RAFFLE

The items to be raffled include a state-of-the-art PDA, two iPod Nanos, portable DVD player, several free registrations to SINI 07, informatics books and University of Maryland apparel.

Note: Participants must be present to win. Planning committee members and volunteers are excluded.
Cyber Café

**Room 245**

Hours of Operation:
- Wednesday, July 19\textsuperscript{th} 12:00PM – 5:30PM
- Thursday, July 20\textsuperscript{th} 8:00AM – 8:00PM
- Friday, July 21\textsuperscript{st} 8:00AM – 6:00PM
- Saturday, July 22\textsuperscript{nd} 9:00AM – 1:00PM

Cyber Café Rules:
1. 15 minute session limit when other conference participants are waiting
2. No food or drink allowed in the computer lab
3. No loud talking or disruptive discussions
4. Select computers are available for Internet and email usage
5. Select computers are available for printing session materials
6. Printing is limited to 15 pages per visit

Please be courteous to the student volunteers monitoring the cyber café and to your fellow SINI participants. Thank you for observing these rules.

Comfort Room for Invited Speakers and Sponsors

**Room 725**

Hours of Operation:
- Thursday, July 20\textsuperscript{th} 8:00 – 10:00 AM and 2:00 – 5:00 PM
- Friday, July 21\textsuperscript{st} 8:00 – 5:00 PM

Beverages will be provided in this quiet area for you to review your presentation, relax or network with other speakers and program sponsors.
List of Local Eateries

The Penn Restaurant – Exit the School and make a left onto Lombard. Walk to the light and make a left onto Penn Street. The Penn Restaurant is down Penn, directly across Pratt Street.

University of Maryland Medical Center Cafeteria – Walk directly across the street from the School of Nursing. Enter through the Emergency Room double doors. Turn right to the elevator. Ride the elevator up to the second floor. The cafeteria is straight ahead when you exit the elevator.

Subway/Mamma Ilardo’s Pizzeria – Walk directly across the street from the School of Nursing. Enter through the Emergency Room double doors. Turn right to the elevator. Ride the elevator up to the second floor. Take a left when you exit the elevator. Subway/Mamma Ilardo’s Pizzeria is located on the left.

Donna’s – Turn right after exiting the School of Nursing. Walk east on Lombard St. until it intersects with Greene St. Enter the main doors of the University of Maryland Medical Center. Walk through the atrium. Donna’s is located on the right.

The Great Cookie – Turn right after exiting the School of Nursing. Walk east on Lombard St. until it intersects with Greene St. Enter the main doors of the University of Maryland Medical Center. Walk into the atrium. The Great Cookie is located on the far end of the atrium.

Cypriana Café – Turn right after exiting the School of Nursing. Walk east on Lombard St. until it intersects with Greene St. Enter the main doors of the University of Maryland Medical Center. Walk through the atrium and make a left into the rotunda. Straight ahead on the right is Cypriana Café.

Tower Café – Turn right after exiting the School of Nursing. Walk east on Lombard St. until it intersects with Greene St. Enter the Health Science and Human Services Library. Make an immediate left through the glass door into the Tower Café.

Luna del Sea – Turn left after exiting the School of Nursing. Walk west on Lombard until it intersects with Penn St. Make a left onto Penn St. Walk one block and make a left onto Pratt St. Follow this for about two lights. Luna Del Sea is on your left.

Camden Pub – Turn left after exiting the School of Nursing. Walk west on Lombard until it intersects with Penn St. Make a left at Penn St. Cross the street and it is directly next to the Penn Restaurant.

Vending Machines – Vending machines, pay phones, and an ATM machine are also located in the basement at the School of Nursing. Take the elevators in the older section of the School of Nursing building (keep right after you enter the School of Nursing) to the basement level. The vending machines are located directly in front of the elevators as you exit.

Inner Harbor Restaurants: There are numerous choices located in Baltimore’s beautiful Inner Harbor. When exiting the School of Nursing, make a left onto Lombard, a left onto Penn Street, then a left on Pratt Street. The Inner Harbor pavilions and stand-alone restaurants are located a moderate distance down on your right. Some restaurants include: Cheesecake Factory, Phillips Seafood, ESPN Zone and the Hard Rock Café. Shopping is also available.

Baltimore’s Inner Harbor Attractions

Perhaps the two biggest attractions to our downtown area are the National Aquarium and Maryland Science Center. The Science Center includes an IMAX Theater with programs running daily. Below is information you may need to plan a visit, if you are looking for a different form of activity, please ask one of our helpful volunteers to direct you.

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