Date: 1/17/15

UNIVERSITY OF MARYLAND SCHOOL OF NURSING

ACADEMIC VITA

Section I.

A. **Name**

Nancy Staggers

5977 Pioneer Fork Road

Salt Lake City, UT 84108

Phone: 801.581.9877 or cell 801.699.0112

B. **Current Position/Title and Rank**

Adjunct Professor, Biomedical Informatics and College of Nursing, University of Utah

Retired Professor (tenured), University of Maryland, Baltimore, Maryland

C. **Licensure/Certification**

Registered Nurse, UT

D. **Education (Year, Degrees and Institutions)**

**Year Degree Institution**

1992 PhD University of Maryland at Baltimore, Baltimore, MD (Informatics)

1985 MS University of Maryland at Baltimore, Baltimore, MD (Nursing Administration)

1974 BSN University of Wyoming, Laramie, WY (Nursing)

E. **Work History/Experience (Dates, job title, and institution)**

**Dates Position, Institution**

2010 - Adjunct Professor, College of Nursing and Department of Biomedical Informatics, University of Utah, Salt Lake City, UT

2010 - 2014 Professor, Informatics Program, School of Nursing, University of Maryland

2008 - 2010 Director, Informatics Program, College of Nursing, University of Utah

2007- 2008 Interim Informatics Program Director, College of Nursing, University of Utah

2007-2008 Consultant, CliniComp, International, San Diego, CA

1998- 2010 Associate Professor (1998-2007) and Professor (2008-10), University of

 Utah College of Nursing, Salt Lake City, UT

1999- present Adjunct Associate Professor, Biomedical Informatics, University of Utah

 School of Medicine, Salt Lake City, UT

2004-2005 Program Director, Enterprise Clinical Information Systems, Office of the CIO, Catholic Healthcare West, Phoenix, AZ ($137.8M program)

2001-2004 Associate Chief Information Officer, Information Technology Services, University of Utah Health Systems, Salt Lake City, UT

1994-98 Adjunct Assistant Professor, University of Maryland School of Nursing, Baltimore, MD

1997-98 Functional Manager, Clinical Business Area (Department of Defense Information Management), Department of the Navy, Falls Church, VA

1994-98 Research Assistant Professor (Voluntary), University of Utah College of Nursing, Salt Lake City, UT

* 1. Nurse Staff Officer, Department of the Army Office of the Surgeon General, Health Services Directorate, Pentagon, Washington, DC

1994-95 Deputy Director for Corporate Informatics, Office of the Assistant Secretary of Defense, Health Affairs, Health Services Analysis and Measurement, Pentagon, Washington, DC

1993-94 Deputy Director for Clinical Policy Support, Office of the Assistant Secretary of Defense, Health Affairs, Operations and Management Support, Pentagon, Washington, DC

1991-93 Nurse Consultant, Army Defense Medical Information Systems, Washington, DC

1987-88 Nursing Computer Systems Coordinator, Fitzsimons Army Medical Center, Aurora, CO

1985-87 Nurse Methods Analyst, Fitzsimons Army Medical Center, Aurora, CO

1981-83 Senior Clinical Nurse, Neurosurgery and Pediatrics, Walter Reed Army Medical Center, Washington, DC

1978-81 Head Nurse, Staff Nurse, Evening and Night Supervisor; Med/Surg and Peds; Nurnberg Army Hospital; Nurnberg, Germany

1975-78 Head Nurse, GYN, Ft. Ord Army Hospital, Monterey, CA

1974-75 Staff Nurse, Medical, Womack Army Community Hospital, Ft. Bragg, NC

F. **Honors/Prizes/Awards**

Book of the Year 2014 for Information and Technology – American Journal of Nursing award

AMIA Signature Award for a Distinguished Career in Informatics (Virginia Saba award), 2013

Reed A. Gardner Award for Faculty Excellence (a student-nominated award for teaching and

 student mentoring), 2010

American Nurses Foundation Western Institute of Nursing 2009 Scholar

Society for Technical Communication, Publication Award of Merit for the ANA Scope and

 Standards of Practice for Nursing Informatics (N. Staggers, Chair), 2009

College of Nursing Exceptional Teaching Recognition, 2007-2008

College of Nursing Academic Leadership Team Performance “STAR” Award (outstanding faculty

 performance award), 2006-2007

College of Nursing Research award 2006-2007

College of Nursing Exceptional Teaching Recognition, 2006-2007

Pioneer in Nursing Informatics, American Medical Informatics Association-Nursing Informatics

 Working Group

Reed Gardner Biomedical Informatics Teaching award nominee, 2007

College of Nursing Exceptional Teaching Recognition, 2005-2006

Outstanding Health Systems Division Faculty 2005-2006

Co-author of the AMIA best student paper, 2003

College of Nursing Award for Excellence in Scholarship, 2002

American Medical Informatics Association “Best Nursing Informatics” paper nomination, 2001

Fellow, American Academy of Nursing (FAAN), 1999

Distinguished Writer, Sigma Theta Tau International, 1999

Legion of Merit, 1998

Defense Meritorious Service Medal (MSM), 1995

Meritorious Service Medal (MSM), 1994

Who’s Who in America, 1994

Who’s Who in American Nursing, 1990; 1992; 1993

University of Maryland Dissertation Research Award, 1992

Who’s Who in American Colleges and Universities, 1992

Who’s Who in Human Services, 1991

Military Order of Medical Merit, Fitzsimons Army Medical Center, 1988

Meritorious Service Medal (MSM), Fitzsimons Army Medical Center, 1988

Meritorious Service Medal (MSM), Fitzsimons Army Medical Center, 1987

Meritorious Service Medal (MSM), Walter Reed Medical Center, 1983

EFMB (Expert Field Medical Badge), Ft. Sam Houston, 1981

ARCOM (Army Commendation Medal), Nurnberg, Germany, 1981

ARCOM (Army Commendation Medal), Ft. Ord, 1978

GCM (Good Conduct), Ft. Sam Houston, 1974

G. Area(s) of Specialization

Clinical Informatics

H. Current and Past Areas of Teaching Responsibility in the College of Nursing

Informatics

I. Research, Scholarship, and Other Creative Work

1. **Extramural Grants/Funding**

**Dates Amount Title and Funding Agency**

2013-14 $907,600 Co-Investigator. Cognitive Informatics Support of Nurses’

 Medication Stewardship. PI: C. Weir. VA HSR&D #CR12-321.

2013-14 $41,061 Primary Mentor. Exploring the creation of nurses' informal

documentation and use in clinical work. PI: J. Blaz. AHRQ R36

HSO022183-01.

2010-11 $100,000 Co-Investigator: IT Support for Shared Mental Models of

Medication Management for Medical Homes. PI: Weir. VA Health Services Research. #PPO 10-094-1

2010 $181,889 Co-Investigator: “Supporting Continuityof Care for Poisonings

 with Electronic Information Exchange.” PI: Poynton. AHRQ.

2009-14 $4.986M Co-Investigator: “Rocky Mountain Center for Translational

Informatics in Public Health. (M. Samore, PI). Centers for Disease

Control and Prevention (CDC). The CDC reduced this grant in 2011 to 10% of all requested costs, eliminating my work.

2009-11 $4,000 PI: “Determining Nurses’ Cognitive Support for Change of Shift

Report.” American Nurses Foundation.

2009-10 $20,000 Senior mentor: “Optimizing Family Health History Tools for the

 National Children’s Study. National Children’s Study Innovative

 Program Award.

2006-08 $3.011M Co-PI: “A Clinician-Centered Evaluation of the Usability

and Clinical Practice Guidelines in AHLTA at Tripler Army Medical Center” Telemedicine and Advanced Technologies Research Command, Medical Research and Materiel Command, Department of Defense, Ft. Detrick, MD.  Award #W81XWH-06-2-0074.

2005-06 $46,000 Investigator: “A Meta-analysis of Feedback Mechanisms for

 Clinical Systems.” Veterans Administration Health Services

 Research (J. Nebeker, PI) # IIR 02-097.

 2000-05 $199,676 PI: “Nurses’ Evaluation of Computerized Medication Management,”

 TriService Nursing Research Program, Bethesda, MD.

 1999-2001 $147,379 PI: “Validating Mobilization Competencies for AF Clinical Nurses,” TriService Nursing Research Program, Bethesda, MD

1994-1997 $75,971 PI: “Factors Influencing Nurses’ Online Activities,” TriService Nursing Research Program, Bethesda, MD

2. **Intramural Grants/Funding**

Dates Amount Sponsor/Purpose

2011-14 $20,000 Faculty recipient. New nursing faculty award. Maryland Higher

 Education Commission. #12091942

2009-11 $4,600 PI: “Determining Nurses’ Cognitive Support for Change of Shift

 Report.” College of Nursing Research Committee. 9/09-8/10.

2009-10 $5,185 Co-I: “Innovative Technology as a Healthy Lifestyle Behavior

 Catalyst for Young Adults with Intellectual Disabilities.” McGillis

 Innovative Seed Grant Award, College of Nursing, 12/15/09-1/1/11

2009-10 $12,000 PI: Project Management in Health Informatics. Interdisciplinary

 Teaching Grant Award.

2006-08 $23,000 PI: “Change of Shift Report: Exploring a Handoff Essential to Care

Continuity.” University of Utah Incentive Seed Grant Award, 9/1/06-8/31/07.

1999 $1,939 PI: “Nursing Informatics Competencies,” College of Nursing Research Committee, 4/1999-7/2000.

3. **Independent Research**

Dates Title

1. Detecting Critical On-line Information: The Relationship Between Nurse Characteristics, Computer Screen Designs, and Computer Interaction Measures During Laboratory Results Retrieval Tasks (doctoral dissertation)

J. **Publications**

1. **Books (or chapters in books)**

**Staggers, N.**, & Nelson, R. (in press). The data, information, knowledge, wisdom model and related research implications. In S. Henly, (Ed.) *International Handbook of Advanced Quantitative Methods in Nursing Research.* London: Routledge, Taylor and Francis Group.

Nelson, R., & **Staggers, N. (2014).** *Health Informatics: An Interdisciplinary Approach*. St Louis: Elsevier.

**Staggers, N.**, Gallagher, L., Goncalves, L., & Nelson, R. (2014). Confidentiality, safety and security. In R. Nelson & N. Staggers, *Health Informatics: An Interdisciplinary Approach* (pp. 307-322). St Louis: Elsevier.

Nelson, R., & **Staggers, N**. (2014). Theoretical foundations of health informatics. In R.

Nelson & N. Staggers, *Health Informatics: An Interdisciplinary Approach* (pp. 18-39). St. Louis: Elsevier.

**Staggers, N.** (2014). Improving the user experience for health information technology

 products. In R. Nelson & N. Staggers, Health Informatics: An Interdisciplinary

 Approach (pp 335-350). St. Louis: Elsevier.

**Staggers, N.,** Nelson, R., Jones, D. (2014). Future directions and future research in health

 informatics. In R. Nelson & N. Staggers, *Health Informatics: An Interdisciplinary*

 *Approach* (pp. 494-507). St. Louis: Elsevier.

**Staggers, N.** (2013). Improving the Usability of Health Informatics Applications. In T.

Hebda, *Handbook of Informatics for Nurses and Health Professionals*, pp. 170-193. Upper Saddle River, NJ: Pearson Education.

Nelson, R., & **Staggers, N**. (2011). Overview of Nursing Informatics. In K. Mastrian & D.

McGonigle (Eds.), *Nursing Informatics and the Foundation of Knowledge (2nd edition).*  (pp. 95-109). Burlington, MA: Jones & Bartlett Learning.

**Staggers, N**. & Troseth, M. (2011). Usability and Application Design Collaborative Summary and Recommendations. In M. Ball, J. Douglas (Eds.), *Technology Informatics*

 *Guiding Educational Reform (pp.219-241)*. New York: Springer.

**Staggers, N**. & Nelson, R. (2008). Overview of Nursing Informatics. In D. McGonigle & K.

 Mastrian (Eds.), *Nursing Informatics and the Foundation of Knowledge* (pp. 83-96).

Sudbury, MA: Jones and Bartlett, Publishers.

**Staggers, N.**, Weir, C., & Pfansalkar, S. (2008). Patient safety and health information

technology: Role of Critical Elements of the Electronic Health Record. In R. Hughes (Ed.), *Patient Safety & Quality: an Evidence-based Handbook for Nurses* (chapter 47)*.*AHRQ Publication No. 07-.  Rockville, MD: Agency for Healthcare Research and Quality. E-pub 4/08. Available at: http://www.ahrq.gov/qual/nurseshdbk/docs/StaggersN\_PSHIT.pdf.

Jennings, B. M., **Staggers, N**., & Brosch, L. (2001). A classification scheme for outcome

 indicators. In *Medical outcomes and guidelines sourcebook* (pp. 113-127). New York:

 Faulkner & Gray.

**Staggers, N**. (2001). Human-computer interaction. In S. Englebardt & R. Nelson (Eds.), *Information technology in health care: An interdisciplinary approach* (pp. 321-345). Harcourt Health Science Company.

**Staggers, N.** (2000). Usability concepts and clinical computing. In M. Ball, K. Hannah, U. Jelger, & H. Peterson (Eds.), *Nursing informatics: Where caring and technology meet* (3rd ed., 95-109). New York: Springer-Verlag.

**Staggers, N**., & Gassert, C. (2000). Competencies for nursing informatics. In B. Carty (Ed.), *Nursing informatics: Education for practice* (pp. 17-34). New York: Springer-Verlag.

**Staggers, N.** (1995). Communication technologies for nurse executives. In M. E. Mills, C. A. Romano, & B. Heller (Eds.), *Information management in nursing and health care* (pp. 230-239). Springhouse, PA: Springhouse Corp.

**Staggers, N.** (1995). Usability concepts for the clinical workstation. In M. Ball, K. Hannah, S. Newbold, & J. V. Douglas (Eds.), *Nursing informatics: Where caring and technology meet* (2nd ed., pp. 188-199). New York: Springer-Verlag.

2. **Journal Publications**

 Staggers, N., Iribarren, S., Guo, J.-W., & Weir, C. (2015). Evaluation of a BCMA’s Electronic Medication Administration record, *Western Journal of Nursing Research*. e-pub Jan 19, 2015.

 Chung, S.Y., & Staggers, N. (2014). Measuring nursing informatics competencies of nurses in Korea. *Computers, Informatics, Nursing*, 32(12), 596-605, e-pub Nov 12, 2014.

 Guo, J-W, Sward, K., Beck, S.L., Wong, B., **Staggers**, N., & Frey, L. (2014). Using a content analysis to identify study eligibility criteria concepts in cancer nursing research. *Computers Informatics Nursing.* E-pub ahead of print 5/8/14.

 Weir, C., **Staggers**, N., Gibson, B., Doing-Harris, K., Barrus, R., McCormick, T. & Dunlea, R.

 (in press). A qualitative evaluation of the crucial attributes of contextual information

necessary in EHR design to support Patient-Centered Medical Home care. *BMCl.*

 Guo, J-W., Sward, K., **Staggers,** N., Beck, S. (2014). Quality of reporting randomized

 controlled trials in cancer nursing research. *Nursing Research*, 63(1), 26-35*.*

Matney, S., Maddox, L. & **Staggers, N.** (2014) Nurses as knowledge workers: Is there

 evidence of knowledge in patient handoffs? *Western Journal of Nursing Research*. 36(2),

 171-190, e-pub July 25, 2013.

 **Staggers**, N. (2013). National testimony about EHR implementation and usability. Crucial

 conversations about optimal design. *Online Journal of Nursing Informatics,* 17(3), 1-3*.*

 **Staggers, N**., Benham-Hutchins, M., Goncalves, L., & Langford-Heermann, L. (2013).

 Exploring patient-centered handoffs in surgical oncology. *Journal of Participatory*

 *Medicine*, 5, July 10, 2013 (online journal).

 **Staggers, N.**, Xiao, Y, & Chapman, L. (2013). Debunking health IT usability myths. *Applied*

 *Clinical Informatics,* 4, 241-250. e-pub May 29, 2013.

 Koch, S.H., Weir, C., Westenskow, D., Gondan, M., Agutter, J., Haar, M., Liu, D.,Gorges, M.,

 **Staggers, N.** (2013). Evaluation of the effect of information integration in displays for

 ICU nurses on situation awareness and task completion time: A prospective randomized

 controlled study. *International Medical Informatics Association*, 82(8), 665-675. e-pub

 January 25, 2013.

#  Staggers, N., & Blaz, J. (2013). Research on nursing handoffs for medical and surgical

#  settings: An integrative review. *Journal of Advanced Nursing*, 69(2), 1365-2648.

 Cummins, M., Crouch, B., Gesteland, P., **Staggers, N.**, Wyckoff, A., Wong, R. (2012).

 Electronic information exchange between Emergency Departments and Poison Control

 Centers: A Delphi study. *Clinical Toxicology,* 50(6), 503-513. E-pub on May

 22, 2012

 Koch, S., Weir, C., Haar, M., **Staggers, N**., Agutter, J., Gorges, M., et al. (2012). ICU nurses’

 information needs and recommendations for integrated displays to improve nurses’

 situational awareness. *Journal of the American Medical Informatics Association*, 19(4),

 583-590. e-pub March 21, 2012.

 Weir, C., **Staggers, N**., Laukert, T. (2012). Reviewing the Impact of Computerized Provider

 Order Entry on Clinical Outcomes: The Quality of Systematic Reviews. *International*

 *Journal of Medical Informatics*, 81, 219-231*.*E-pub February 20, 2012.

 Gee, P., Kim, K. Perez, S., Greenwood, D., **Staggers, N**., DeVon, H. (2012). Exploration of

the e-patient phenomenon in Nursing Informatics, *Nursing Outlook*, e-pub ahead of print, January 2, 2012.

 Gibson, B., **Staggers, N.**, Marcus, R.L., Samore, M., Jones, J., Weir C. (2012). Efficacy of a

 computerized simulation in promoting walking in individuals with diabetes. *Journal of*

 *Medical Internet Research*. May 10;14(3):e71.

 **Staggers, N**., Clark, L., Blaz, J., & Kapsandoy, S. (2012). Nurses' information management

and use of electronic tools during acute care handoffs. *Western Journal of Nursing Research,* 34(2), 151-171. E-pub ahead of print May, 2011.

 **Staggers, N**., Clark, L., Blaz, J., & Kapsandoy, S. (2011). Why patient summaries in

Electronic Health Records do not provide the cognitive support necessary for nurses’

 handoffs on medical and surgical units: Insights from interviews and observations.

 *Health Informatics Journal*, 17(3), 209-223.

 **Staggers, N.** (2011). Controversy over creating national measures for EHR

 usability. Column on Crucial Conversations about Optimal Design Column. *Online*

 *Journal of Nursing Informatics (OJNI),15*(3). Available at http://ojni.org/issues/?p=854

 Guo, J., Irbarren, S., Kapsandoy, S., Perri, S., & **Staggers, N**. (2011). Usability evaluation of

an Electronic Medication Administration Record (eMAR). *Applied Clinical Informatics*.

2(2), 202-224.

 **Staggers, N**. (2011). The April 2011 Hearing on EHR Usability. Column on Crucial

 Conversations about Optimal Design Column. *Online Journal of Nursing Informatics*

 *(OJNI), 15(2).* Available at http://ojni.org/issues/?p=542

Chang, J., Poynton, M., Gassert, C., & **Staggers, N**. (2011). Nursing

 Informatics competencies required of nurses in Taiwan. *International Journal of*

*Medical Informatics*, 80(5):332-40, e-pub ahead of print, March 18, 2011.

 Matney, S., Sward, K., Cloyes, K., P., & **Staggers, N**. (2011). Philosophical approaches to

 the nursing informatics data-information-knowledge-wisdom framework. *Advances*

 *in Nursing Science,* 34(1), 6-18.

 Madison, M., & **Staggers, N**. (2011). Electronic health records and the

 regulatory implications on nursing practice. *Journal of Nursing Regulation*, 1(4), 54-60*.*

 **Staggers, N.** (2010). The rapidly emerging national interest in HIT usability. Crucial

 conversations about technology design (column). *Online Journal of Nursing Informatics.*

 **Staggers, N**., Jennings, B.M., & Lasome, C.E.M. (2010). A Usability Assessment of

AHLTA in Ambulatory Clinics at a Military Medical Center, *Military Medicine,*

175(7), 518-24.

 Cho, I., **Staggers, N**., & Park, S. (2010). Nurses’ responses to differing amounts

 and content of information in a diagnostic, computer-based clinical decision support

 system. *Computers, Informatics, Nursing*, 28(2):95-102.

 Alexander, G.A., & **Staggers, N**. (2009). A systematic review on the design of

 clinical technology: Findings and recommendations for future research. *Advances in*

 *Nursing Science, 32(3),* 252-279.

 **Staggers, N**., & Jennings, B.M. (2009). The content and context of change of shift

 report on medical and surgical units. *Journal of Nursing Administration*, 39(9), 393-

 398.

 Weir, C., **Staggers, N.**, & Phansalkar, S. (2009). The state of the evidence for

 computerized provider order entry: A systematic review and analysis of the quality of

 the literature. *International Journal of Medical Informatics*, 78(6), 365-74.

 Koivunen M., Välimäki M., Koskinen A, **Staggers, N**. & Katajisto J. (2009). The impact

 of individual factors on health care staff’s computer use in psychiatric hospitals. *The*

 *Journal of Clinical Nursing*, 18, 1141-1150.

 **Staggers, N.**, McCasky, T., Brazelton, N., & Kennedy, R. (2008). Nanotechnology:

 Implications for patients, providers and informatics. *Nursing Outlook*, 56(5), 268-274.

 Nelson, R., & **Staggers, N.** (2008). Implications of the ANAs Scope and Standards of

 Practice for Nursing Informatics on nursing education. *Nursing Outlook*, 56(2), 93-94.

 Gorges, M., & **Staggers, N**. (2008). Evaluations of Physiological Monitoring Displays: A

 Systematic Review. *Journal of Clinical Monitoring*, 22(1), 45-66.

**Staggers, N**., & Brennan, P. (2007). Editorial. Translating knowledge into practice: Passing the hot potato! *JAMIA,* 14(5), 684.

**Staggers, N**., Kobus, D., & Brown, C. (2007). An evaluation of a novel design for an electronic administration record (eMAR). *Computers, Informatics, Nursing,* 25(2), 67-75.

Gundlapa, A., Olson, J, Smith, S., Baza, M., Hausam, R, Eutropius, L., Pestotnik, S, Duncan, K, **Staggers, N.**, Pincetl, P., & Samore, M. (2007). Hospital electronic medical record-based public health surveillance system deployed during the 2002 winter Olympic Games. *American Journal of Infection Control*, 35(3), 163-171*.*

**Staggers, N.**, & Lasome, C. (2005). RN, CIO: An executive informatics career.  *Computers, Informatics, Nursing*, 23(4), 201-206.

**Staggers, N.** (2004). Assessing recommendations from IOM’s Quality Chasm Report. *Journal of Healthcare Information Management*, 18(1), 30-35*.*

Editor (2004). Health Leaders Roundtable Nursing informatics: Tracking technology advances (interview with the editor). *Health Leaders*, 7(2), RT1-RT9.

Thompson, C.R., Repko, K., & **Staggers, N.** (2003). A Delphi study to validate competencies required of Air Force medical surgical nurses in mobilized environments. *Military Medicine*, 168(8), 518-625.

**Staggers, N.** (2003). Human factors: Imperative concepts for critical care. *AACN Clinical Issues.*14(3), 310-319.

**Staggers, N**., Gassert, C., & Curran, C. (2002). A Delphi study to determine informatics competencies for nurses at four levels of practice. *Nursing Research, 51*(6), 383-390.

**Staggers, N**., & Thompson, C. B. (2002). The evolution of definitions for nursing informatics: A critical analysis and revised definition. *Journal of the American Medical Informatics Association (JAMIA), 9*(3), 255-261*.*

**Staggers, N**., Gassert, C. A., & Curran, C. (2001). Informatics competencies for nurses at four levels of practice. *Journal of Nursing Education, 4*(7)*,* 303-316.

**Staggers, N**., & Thompson, C. B., & Snyder-Halpern, R. (2001). Health policy and systems: History and trends of clinical information systems in the United States. *Journal of Nursing Scholarship, 33*(1), 75-81.

**Staggers, N.**, Gassert, C. A., & Curran, C. (2000). Health professionals’ views of informatics education: Findings from the AMIA spring 1999 conference. *Journal of the American Medical Informatics Association, 7*(6), 550-558.

**Staggers, N**., & Kobus, D. (2000). Comparing the reaction time, errors, and satisfaction of text-based and graphical use interfaces during nurses’ use of computerized nursing interventions. *Journal of the American Medical Informatics Association****,*** *7*(2), 164-176.

**Staggers, N**., & Leaderman, A. (2000). The vision for Department of Defense's computer-based patient record. *Military Medicine. 165*(3), 180-185.

**Staggers, N**., Lyons, A., & Sward, K. (2000). Clinical informatics case studies: Implementation of a new e-mail application in health sciences centers. *Computers in Nursing, 18*(2), 59-61.

Jennings, B. M., & **Staggers, N**. (1999). A provocative look at performance measurement. *Nursing Administration Quarterly, 24*(1), 17-30.

Jennings, B. M., & **Staggers, N**. (1999). The language of outcomes. *Journal of Rehabilitation Outcomes Measurement, 3*(1), 59-64.

Jennings, B. M., **Staggers, N**., & Brosch, L. (1999). A classification scheme for outcome indicators. *Image, 31*(4), 381-388.

**Staggers, N**., & Smith, J. (1999). Clinical informatics case studies: Clinical coding in ambulatory settings. *Computers in Nursing, 17*(5), 207-211.

**Staggers, N**., Thompson, C., & Happ, B. (1999). An operational model for patient-centered informatics. *Computers in Nursing, 17*(6), 278-285.

Thompson, C. B., Snyder-Halpern, R., & **Staggers, N**. (1999). Clinical informatics case studies: Analysis, processes, and techniques. *Computers in Nursing, 17*(5), 203-206.

Womack, D., Lyons, A., Roskos, J., Byrne, F., & **Staggers, N**. (1999). Student perspectives on creating completely web-based graduate programs in nursing informatics *Computers in Nursing, 17*(5), 212-213.

**Staggers, N**., Thompson, C. R., & Happ, B. (1999). The need for patient centered informatics. *Image: Journal of Nursing Scholarship*. Accepted for publication Sep 21, 1999 but never published due to a change in journal editors.

Jennings, B. M., & **Staggers, N**. (1998). The language of outcomes. *Advances in Nursing Science, 20*(4), 72-80.

**Staggers, N**. (1998). Notes from a clinical systems project manager: Requisite survival skills. *Computers in Nursing, 16*(4), 244-246.

**Staggers, N.,** Thompson, C. R., Happ, B., & Bartz, C. (1998). A new definition for nursing informatics needed [letter to the editor]. *Image: Journal of Nursing Scholarship, 30*(2), 110.

Jennings, B. M., & **Staggers**, **N**. (1997). Hazards in outcomes management. *Journal of Outcomes Management, 4*(1), 18-23.

**Staggers, N.** (1997). Notes from a clinical information system project manager: A solid vision makes all the difference. *Computers in Nursing 15*(5), 232-35.

**Staggers, N.** (1996). E-mail tips and tricks. *Computers in Nursing, 14*(5), 264-266.

Staggers, N., & Repko, K. (1996). Strategies for successful clinical information system selection. *Computers in Nursing 14*(3), 146-147, 155.

**Staggers, N.** (1995). Essential principles for evaluating the usability of clinical information systems. *Computers in Nursing, 13*(5), 207, 211-213.

**Staggers, N**., & Parks, P. (1995). A framework for research on nurse-computer interactions: Initial applications. *Journal of Military Nursing Research, 1*(1), 34-40. (Reprint of 1993 article.)

Jennings, B., & **Staggers, N**. (1994). A critical analysis of hardiness. *Nursing Research, 43*(5), 274-281.

Mills, M. E., & **Staggers, N.** (1994). Nurse-computer performance: Considerations for the nurse administrator. *Journal of Nursing Administration, 24*(1), 30-35.

**Staggers, N**., & Mills, M. E. (1994). Nurse-computer interaction: Staff performance outcomes. *Nursing Research, 43*(3), 144-150.

**Staggers, N.** (1994). The Staggers nursing computer experience questionnaire. *Applied Nursing Research, 7*(2), 97-106.

**Staggers, N**. (1993). The impact of screen density on clinical nurses’ computer task performance and subjective screen satisfaction. *International Journal of Man-Machine Studies, 39*, 775-792.

**Staggers, N**., & Norcio, A. (1993). Mental models: Concepts for human-computer interaction research. *International Journal of Man-Machine Studies, 38*, 587

**Staggers, N**., & Parks, P. (1993). A framework for research on nurse-computer interactions: Initial applications. *Computers in Nursing, 11*(6), 282-290.

**Staggers, N**. (1991). Human factors: The missing element in computer technology. *Computers in Nursing, 9*(2), 47-49.

Oda, D., Frelin, A., & **Staggers, N.** (1990). The role of the clinical nurse specialist in the AMEDD: A descriptive study. *Clinical Nurse Specialist, 4*(3), 147-150.

**Staggers, N.** (1990). Communicating in the 1990s: A technology update. *Nursing Economic$, 8*(6), 408-412.

**Staggers, N**. (1989). Electronic mail basics. *Journal of Nursing Administration, 19*(10), 31-35.

**Staggers, N**. (1988). Using computers in nursing: Documented benefits and needed studies. *Computers in Nursing, 6*(4), 164-170.

**Book reviews**

**Staggers, N**. (2002). Internet-based organizational memory and knowledge management (review of the book). *Computers, Informatics, Nursing*, *20*(3), 81-82.

**Staggers, N**., & Snyder-Halpern, R. (1999). The internet and healthcare [Review of the book]. *Computers in Nursing, 17*(4), 154-157.

**Staggers, N**., & Thompson, C. (1998). [Review of the book *Nursing and computers: An anthology, 1987-1996*]. *Computers in Nursing, 16*(6), 289, 301-302.

3. **Papers, Monographs and Reports**

 Utah Digital Health Service Commission (2012). Enhancing privacy and security of protected health information in the state of Utah Through Education, Training and Technical Assistance. December 2012.Available at: Health.utah.gov/phi/.

 HIMSS (2011). Promoting Usability in Healthcare Organizations: Initial Steps and Progress

 Toward a Usability Maturity Model. Co-leads **N. Staggers** and M. Rodney, Usability

 Taskforce. Health Information Management and Systems Society. Available at:

 http://www.himss.org/content/files/HIMSS\_Promoting\_Usability\_in\_Health\_Org.pdf.

 **Staggers, N.**, & Troseth, M. (2009). Technology Informatics Guiding Educational Reform

 (TIGER) Usability and Clinical Application Design Collaborative Summary Report.

 TIGER publication and on the TIGER wiki at: http://www.tigersummit.com/.

 Weir, C., & **Staggers, N**. (2008). Recommendations for Directions in Nursing Informatics

 Research. Veterans Health Administration National Nursing Research Committee.

American Nurses Association (2008). *The scope and standards of practice for Nursing Informatics.* Washington, D.C: ANA. N. Staggers, Chair and 27 panel members.

**Staggers, N**. (2007). *Final report: Validating mobilization competencies for Air Force clinical nurses.*” Tri-Service Nursing Research Service (N99-PO8). National Technical Information Service, Washington, D.C.

**Staggers, N**. (2005). *Final report: Nurses’ evaluations of computerized medication management.* Tri-Service Grant MDA #905-00-1-0008 and NTIS.

Birz,Susie (2004). Nurses in the CIO suite. *Interview*. Nurse zone (on-line publication.) http://www.nursezone.com/job/DevicesandTechnology.asp?articleID=12954

American Nurses Association (2001). *The scope and standards of practice for nursing informatics*. Washington, DC: American Nurses Association. (Panel authors: N. Staggers, Chair; C. A. Gassert, C. Bickford, J., Sensemeier, K., Hunter, & R. Nelson.)

**Staggers, N**. (1999). *Final report: Factors influencing nurses’ on-line activities*. Tri-Service Grant Number TSNRP N93-046. Washington, DC: National Technical Information Service.

4. **Conference Proceedings**

Weir, C., Dunlap, R., Doing-Harris, C., & **Staggers, N**. (2014). An exploratory study comparing narrative versus numerical display of functional information. Society of Medical Decision Making, Oct 18-22, 2014, Miami, FL.

Weir, C., Dunlea, R., **Staggers, N.,** Doing-Harris, K., & Barrus, R. (2014). Comparing

 narrative versus numerical display of functional information: Impact on sense-making.

 MIE 2014 (Medical Informatics Europe). Istanbul, Turkey, Aug 29-Sep 3, 2014. (Weir

 presented).

Perri, S., Shao, A.., Swai, N., Mitchell, & **Staggers**, N. (2014). Crucial issues in think-aloud techniques for cross-cultural studies. MIE 2014 (Medical Informatics Europe). Istanbul, Turkey, August 29-Sep 3, 2014.

Georgsson, M., Weir, C., & **Staggers**, N. (2014). Revisiting heuristic evaluation methods to improve the reliability of findings. MIE 2014 (Medical Informatics Europe). Istanbul, Turkey, Aug 29-Sep 3, 2014.

Staggers, N., Benham-Hutchins, M., Heermann-Langford, L., & Goncalves, L. (2014). *User Experience Considerations for Patient-Centered Handoffs in Surgical Oncology.* In C. Stephanidis & M. Antona (Eds.): UAHCI/HCII (Human Computer Interaction International) 2014, pp. 378-386, Crete, Greece. June 22-27, 2014.

Koch SH, Westenskow D, Weir C, Agutter J, Haar M, Görges M, Liu D, **Staggers N**. (2012). [ICU nurses' evaluations of integrated information displays on user satisfaction and perceived mental workload.](http://www.ncbi.nlm.nih.gov.proxy-hs.researchport.umd.edu/pubmed/22874217) Stud Health Technol Inform, 180:383-7.

 **Staggers, N**., & Rodney, M. (2012). Promoting Usability in Organizations with a New

 Health Usability Model: Implications for Nursing Informatics. NI 2012, Montreal,

 Canada, 2012.

Goncalves, L., Wolff, L., Staggers, N. (2012). Nursing Informatics Competencies: An

 Analysis of the Latest Research. NI 2012. Montreal, Canada, 2012.

Weir, C., **Staggers, N**., Doing-Harris, C., Dunlea, R., McCormick, T., & Barrus, R. (2012).

Ataxonomy for contextual information in Electronic Health Records. NI 2012,

Montreal, Canada, June 2012.

Hunt, S., & Staggers, N. (2011). An analysis and recommendations for multidisciplinary

 computerized handoff applications in hospitals. AMIA 2011 Annual Conference

 Proceedings.

Koch, S., **Staggers, N**., Weir, C., Agutter, J., Liu, D., Westenskow, D. (2010). Integrated

 Information Displays for ICU Nurses: Field Observations, Display Design, and Display

 Evaluation. Human Factors and Ergonomics Society, San Francisco, CA.

**Staggers, N**., Guo, J., Blaz, J., & Jennings, B. (2009). Clinical System Design

 Considerations for Critical Handoffs. *HCI International 2009 Conference* [CD]. San

 Diego, CA.

Koch, S., Shereen, A., & **Staggers, N**. (2009). Using Personas and Prototypes to Define

User Requirements for a Novel Patient Monitoring Display for Nurses. Studies in Health Technology and Informatics,146:69-73. (*NI2009*. Helsinki, Finland).

Phansalkar, S., **Staggers, N.**, & Weir, C. (2006). Development of the QUASII (Quality Assessment of Studies in Informatics Implementations) Instrument. *2006 Health Services Research and Development National Meeting*, Washington, D.C.

Leung, E., & **Staggers, N**. (2005). Application of usability methods to create a surgical intensive care unit log. *HCI International Conference proceedings* [CD]. Las Vegas, NV.

Taylor, D., Bray, B., **Staggers, N**., & Olsen, R. (2003). User-centered development of a web-based preschool vision screening tool. *Proceedings of the 2003 American Medical Informatics Association Symposium,* Washington, DC, pp 654-658.

Gundlapalli, V, Olson, J., Smith, S., Baza, M., Hausam, R., Eutropius, L., Pestotnik, S., Duncan, K., **Staggers, N**., Pincetl, P., Samore, M. (2002). *Proceedings of the 2001 American Medical Informatics Association Symposium*, pp. 1036.

**Staggers, N**., & Miller, S. (2001). Using a web-based prototype and human-computer interaction concepts to develop a vision for a next generation patient care management system. *Proceedings of the 2001 American Medical Informatics Association Symposium* [CD]. Washington, DC, November 3-7, 2001.

**Staggers, N**., & Kobus, D. (2001). The relationship of nurses’ cognitive and demographic characteristics with reaction time in GUI and text-based clinical information systems. In M. Smith & G. Salvendy (Eds.), *Systems, social and internationalization design aspects of human-computer interaction*. London: Lawrence Erlbaum Associates.

Kobus, D., & **Staggers, N.** (2000). Text-based versus graphic displays in health care: Comparing user performance Proceedings of the XIVth Triennial Congress of the International Ergonomics Association and 44th Annual Meeting of the Human Factors and Ergonomics Association, 'Ergonomics for the New Millennium', pp. 173-176. San Diego, CA.

**Staggers, N**., & Parks, P. (1993). Collaboration between unlikely disciplines in the creation of a conceptual framework for nurse-computer interactions. In M. Frisse (Ed.), *Proceedings of the sixteenth annual symposium on computer applications in medical care* (pp. 661-665). New York: McGraw-Hill.

**5.** **Posters**

 Matney, S., Avant, K., & Staggers, N. (2013). The Construct of Wisdom in Action for Clinical Nursing. Western Institute of Nursing (WIN), Anaheim, CA. April 2013. FIRST PLACE award

 Maddox, L., Matney, S., & Staggers, N. (2013). Data, Information, Knowledge and Wisdom in Nursing Change of Shift Report. American Nursing Informatics Association (ANIA) Annual Conference, San Antonio, TX. April 2013. THIRD PLACE award.

 Staggers, N., Doing-Harris, K., Weir, C. (2012). Integrating Nursing Handoffs with

 Automated Topic Identification. AMIA Annual Conference, Chicago, IL. Nov 2012.

 Doing-Harris, K., Staggers, N., Weir, C. (2012). Integrating Qualitative Analysis with

 Automated Topic Identification. AMIA Annual Conference, Chicago, IL. Nov. 2012.

 Blaz, J., Kapsandoy, S., & **Staggers, N**. Developing and Evaluating a Nursing Handoff Tool

 for the Apple iPAD. *AMIA Annual Conference*, October 25, 2011, Washington, D.C.

Gibson, B., Weir, C., Marcus, R., Samore, M., **Staggers, N**., Jones, J. (2011). Evaluation of a Simulation-Based Behavior Change Intervention. National Library of Medicine Fellows

Annual Meeting, Bethesda, MD.

Poynton, M.R., Crouch, B.I., Gesteland, P., Allen, T.L., Corneli, H., Wong, B.G., **Staggers,**

 **N**., & Wyckoff, A. (2011). Electronic information exchange between emergency

 departments and poison control centers: consensus opinion on issues, opportunities, and

 barriers. *Poster presentation, 2011 Society for Academic Emergency Medicine Annual*

 *Meeting*, *Boston, MA, June 3, 2011.*

McPhail, J., Aguilar, L., Eldrege, A., Groot, J., Staggers, N., & Clark, L. (2011). Technology

 as a Behavior Change Catalyst for Adults with Intellectual Disabilities. Western

 Institute of Nursing Annual Conference, Las Vegas, NV, April 2011.

 Zafar, N., Bray, B., Hurdle, J., & **Staggers, N**. A Usability Evaluation of a Vendor’s Product

 in the University of Utah ED. National Library of Medicine NLM Fellows Annual

 Conference, Bethesda, MD, June 2010.

 Poynton, M. Crouch, B.I, Gesteland, P., Wyckoff, A., **Staggers, N**., Corneli, H., Allen,

 H. Electronic Exchange of Poison Information: Synthesizing Evidence to Ask Salient

 Questions. AHRQ Patient Safety Conference, Rockville, MD. September 2010

 Najeev, D., Staes, C. & **Staggers, N**. A Pilot Usability Study of Public Health Websites in

 Determining What Conditions Are Reportable Where. AMIA, Washington, DC,

 November 2010

 Jiang, Y., **Staggers, N**., Hulse, N., Firth, S. & Staes, K., Requirements for documenting

 family health history for the National Children's Study, AMIA, Washington, DC,

 November 2010.

 **In the news**

Interview with American Medical News. Available at:

 <http://amednews.com/article/20130401/business/130409989/5/>. April 1, 2013.

Interview with AJN editor. Wallis, L. (2013)l Computerization in Nursing Handoffs.

 AJN, 113(4), 16. Available at:

<http://journals.lww.com/ajnonline/Fulltext/2013/04000/Computerization_in_Nursing_Handoffs.16.aspx>. April 2013.

**6. Grant/Manuscript Reviews**

Peer Review Panel: Health Care Research Training Study Section. Agency for Healthcare Research and Quality (AHRQ), Regular member, Appointed: 2010-2014.

Peer Review Panel: Decision Support and Simulation Study Section. Agency for Healthcare Research and Quality (AHRQ) June, 2009.

Peer Review Panel: Health Care Research Training Study Section. Agency for Healthcare Research and Quality (AHRQ), “Ad hoc” member, Oct 2008-March 2010.

Peer Review Panel: Ambulatory Safety and Quality Program: Improving Management in Individuals with Complex Needs through the use of Health IT. Agency for Healthcare Research and Quality (AHRQ), Jun, 2008.

Peer Review Panel: Ambulatory Safety and Quality: Enabling Patient-Centered Care through Health IT. Agency for Healthcare Research and Quality (AHRQ), 2007.

Manuscript Reviewer: *Applied Clinical Informatics, 2012-*

Manuscript Reviewer: *American Nurse Today.* 2008 - present.

Manuscript Reviewer: *Journal of Biomedical Informatics*, 2008 - present

Manuscript Reviewer: *Computers, Informatics, Nursing*, 1995 - 2012

Manuscript Reviewer: *JAMIA (Journal of the American Informatics Association)*, 2000 -present

Manuscript Reviewer: *IEEE Transactions on Information Technology in Biomedicine*, 1999 -2001

Manuscript Reviewer: *Nursing Outlook*, 1993 - 2003

Manuscript Reviewer: *International Journal of Quality*, 2003.

Peer Review Panel: Working Conditions and Their Effects on the Quality of Care and Patient Safety, Agency for Healthcare Research and Quality (AHRQ), 8/01

Peer Review Panel, Biomedical Library Review Committee, National Library of Medicine, 2000

Peer Review Panel, Advanced Nursing Education, Department of Health and Human Services, 2000

7. **Editorial Boards**

Chair and Co-chair, Board of Directors, *Online Journal of Nursing Informatics*, 2007- 2011

Associate Editor for Clinical Informatics, *Computers, Informatics, Nursing*, 1995 - 2005

8. **Other**

*Published Interviews*

Wallis, L. Computerizing nursing handoffs. American Journal of Nursing, 113(4), 16. Available at:

[http://journals.lww.com/ajnonline/Fulltext/2013/04000/Computerization\_in\_Nursing\_ Handoffs.16.aspx](http://journals.lww.com/ajnonline/Fulltext/2013/04000/Computerization_in_Nursing_%20Handoffs.16.aspx)

*National/International Podcasts*

Staggers, N., & Chapman, L. EHRs: Secrets of Successful Usability. Podcast.

 Available at:

 [http://info.macadamian.com/EHRsSecretsofSuccessfulUsability.html](https://sonmail.umaryland.edu/owa/redir.aspx?C=3ee4f395fc3041ee8a909e12177bb357&URL=http%3a%2f%2finfo.macadamian.com%2fEHRsSecretsofSuccessfulUsability.html)

*Newsletter Publications*

 Staggers, N. (1991). Multimedia communications. *Input/Output, 7*(1), 1.

 Staggers, N. (1990). More about BBSs. *Input/Output, 6*(1), 3.

 Staggers, N. (1989). Groupware: E-mail. *Input/Output, 5*(2), 5.

1. **Invited Speeches/Lectures/Demonstrations/Peer-Reviewed Presentations**

Mo/Yr Title, Sponsor

9/14 Benham-Hutchins, M.,Staggers, N., Heermann-Langford, L., & Goncalves, L. (2014).

 Exploring Patient-Centered Handoffs in Surgical Oncology. Council for the

 Advancement of Nursing Science (CANS): 2014 State of the Science Conference;

 Washington, DC. September 18-20, 2014. (Accepted as Presentation of Distinction)

6/14 **Staggers, N**., Benham-Hutchins, M., Heermann-Langford, L., & Goncalves, L. (2014).

 User Experience Considerations for Patient-Centered Handoffs in Surgical Oncology.

Paper Presentation. HCI International 2014: 16th International Conference on Human-Computer Interaction; Crete, Greece. June 22-27, 2014. (Staggers presenting).

5/14 Creating a Culture Based Upon Usability. HIMSS Clinical Informatics Initiative. Denver, CO, May 16, 2014.

2/14 Five proven methods for multidisciplinary teams to create great clinical user experiences, 2/25/14. HIMSS14, Orlando, FL.

2/14 Leveraging user experience to be a strategic asset in health organizations. HIMSS14, 2/26/14, Orlando, FL.

12/4 Finding the Way Forward for Nursing and e-Health. Norwegian Nurses Society, Oslo, Norway.

12/6 Facilitators and Barriers to Creating Online Education. Institute for Health and Society

Faculty of Medicine, University of Oslo, Oslo, Norway.

11/13 Informatics implications of patient-centered handoffs. Biomedical informatics series.

 University of Utah, Salt Lake City, UT.

11/13 Exploring patient-centered handoffs in surgical oncology. Nurse Practitioner Conference,

 University of Maryland, Baltimore, MD.

5/13 Nelson, R., Moen, A., Park, H., Staggers, N. & Goncalves, L. Innovative Approaches to

 Achieving Nursing Informatics Competencies: An International Perspective. International

 Council of Nurses. Melbourne, Australia.

5/13 Morse, J., Maddox, L., Staggers, N. (2013). Informatics Research and Qualitative

 Methods: An Uneasy Marriage? The Ninth International Congress of Qualitative Inquiry.

 University of Illinois at Urbana-Champaign.

5/13 Matney, S., Avant, K., & Staggers, N. (2013). The Construct of Wisdom in Action for

 Clinical Nursing. ANIA Annual conference, San Antonio, TX, May 2013.

2/13 Staggers, N., & Chapman, L. (2013). The top 10 healthcare usability myths debunked!

 HIMSS Annual Conference, New Orleans, LA

2/13 Chapman, L., & Staggers, N. (2013). EHRs: The Secrets of Usability. Podcast. Available

 at: Macadamian.

12/12 Staggers, N. **Distinguished Speakers’ Series**. Caring at Its Best: The art & Science of Nursing. 4th Annual Event, Nursing Leaderships Role in the Integration of Technology in Health Care. Sloan Kettering, New York City. December 7, 2012.

6/12 Staggers, N., & Rodney, M. (2012). Promoting Usability in Organizations with a New

 Health Usability Model: Implications for Nursing Informatics. NI 2012, Montreal,

 Canada, 2012.

 6/12 Weir, C., Staggers, N., Doing-Harris, C., Dunlea, R., McCormick, T., & Barrus, R.

 (2012). Ataxonomy for contextual information in Electronic Health Records. NI 2012,

Montreal, Canada, June 2012. (given for Dr. Weir).

 5/12 Handoffs and Technology: A Marriage Made in Heaven? **Keynote**, Research Conference,

 Franklin Square Hospital, Baltimore, MD.

 5/12 The Gift of a Great Handoff. **Keynote** for Nurses’ Day. Riverside Health System,

 Gloucester, VA.

 3/12 Guest Lecture, “Methods for Everyone From Informatics.” NURS 7040, Data

 Collection, University of Utah, March 28, 2012.

 3/12 Solving Wicked Problems in Health IT with a Usability Maturity Model. Human Factors

 and Ergonomics Society. March 13, 2012

 3/12 **Distinguished Professor Series**. Nanotechnology: The Promise and Peril in Healthcare.

 William J. Patterson University, Patterson, NJ.

 3/12 Guest lecture, “Integrative Review: A Method for Synthesizing Research Findings.”

 NURS 841 Theory and Concept Development in Nursing, University of Maryland,”

 March 9, 2012.

2/12 Tips and Tricks for Improving Usability in Electronic Health Records. National webinar for Siemens NI educational series. 400 sites/individuals. February 29, 2012.

2/12 Promoting Usability with a Novel Usability Maturity Model. HIMSS Annual Conference. February 22, 2012. With Melanie Rodney.

2/12 Learning from TIGER: What Matters Most about Usability and Clinical Application Design. Health Information Management and Systems Society Annual Conference. With Michelle Troseth. February 22, 2012

2/12 Handoffs on Medical and Surgical Units: Present and Future. Columbia University Biomedical Informatics Seminars. New York.

1/12 Wicked Problems in Health IT. Biomedical Informatics Seminar Series, University of Utah, Salt Lake City, UT.

12/11 Technology Informatics Guiding Education Reform: Usability and Clinical Application Design. National Webinar presentation to the HIMSS Usability Taskforce. December 6, 2011 (with Michelle Troseth)

10/11 Handoff Methods: Evidence of Effectiveness. Panel participant on, “Dimensions of Hand-off Communication and Documentation: Implications for Patient Safety.” AMIA Annual Conference, October 22-26, 2011.

10/11 Hunt, S. & Staggers, N. An analysis and recommendations for multidisciplinary computerized handoff applications in hospitals. *AMIA 2011 Annual Symposium Conference Proceedings*, October 22-26, 2011.

10/11 Handoff Methods and Their Impacts. Continuing Education presentation for nurses. Good Samaritan Hospital, Baltimore, MD, October 11, 2011.

10/11 Collaborations to Improve Cognitive Support for HIT. University of Maryland Fall HIT Summit, College Park, Maryland, October 7, 2011.

8/11 International Perspectives on Information and Communication Technology for Supporting Nurses in Nursing Homes: *Workflow Assessments.* Panel at Medical Informatics Europe. Oslo, Norway, August 24, 2011.

7/11 User interface standards and design principles. Veteran Health Administration national informatics 10x10 course. Videotaped for online presentation.

7/11 Using Knowledge Management as a Strategic Planning Tool in Organizations. Summer Institute in Nursing Informatics. Baltimore, Maryland, July 20, 2011.

6/11 Promoting Usability in Organizations with a Health Usability Maturity Model. A Community-Building Workshop: Measuring, Evaluating and Improving the Usability of Electronic Health Records. National Institute for Standards and Technology, June 7, 2011.

6/11 Staes C, Bradshaw R, Rajeev D, Mottice S, Lui ZW, Altamore R, Hulse N, Staggers N, Narus S. Design and Development of a Standards-based Knowledgebase to Publish Electronic Laboratory Reporting Criteria. 2011 Annual Conference of the Council of State and Territorial Epidemiologists (CSTE), Pittsburg, PA, USA.

 4/11 Invited testimony on EHR usability at the Office of the National Coordinator for Health Information Technology’s Hearing for the HIT Policy Committee. 4/21/11.

 4/11 State of the Science Presentation. Optimizing Patient Care Handoffs Using Information Technology. Western Institute of Nursing. Las Vegas, NV.

 2/11 The Design of Workstations to Support Nurses’ Work: Not a Simple Solution. Staggers and Blaz. Design Principles and Practices, Sapienza University, Rome Italy.

 11/10 Interdisciplinary Communication: Best Practices in Handoffs (panel). AMIA, Washington DC. 11/15/10. Panel moderator and presenter.

 9/10 **Keynote:** Human Computer Interaction: Opportunities and Challenges. Taipei Joint Medical Informatics Conference, Taipei, Taiwan. 9/25/10.

 7/10 Usability Over the Last 20 Years: Progress or Not So Much? Summer Institute for Nursing Informatics. Baltimore, MD. 7/25/10.

 5/10 “Designing Support for Critical Activities: Handoffs and Usability,” New England Nursing Informatics Conference, Boston, MA.

 3/10 **Keynote**: “EHR Meaningful Use: Implications for Nurses.” Rutger’s Nursing Informatics Conference. Baltimore, MD.

 2/10 **Keynote:** “A Practical Approach to Usability: Making Systems Work for Nurses.” HIMSS Nursing Informatics Symposium. Atlanta, GA.

 1/10 “Usability 101 for Public Health Professionals.” Rocky Mountain Center of Excellence for Public Health. Salt Lake City, UT.

 12/09 “Usability and Patient Safety.” Baylor Health System Informatics Conference. Dallas, Texas, 12/1/09.

 10/09 Research Program Overview. PhD Program Series. “Taming a Schizophrenic Research Program on Knowledge Management. 10 students and faculty. UU, 10/23/09.

 7/09 **Distinguished Lecture**. “Usability: Past Work and Future Directions.” *Summer Institute for Nursing Informatics*. Presentation and 150 webinar sites. Baltimore, MD, 7/25/09.

 7/09 Invited Panel: “Creating Usable Systems for Nurses: Recommendations from
The TIGER Usability Collaborative.” *Summer Institute for Nursing Informatics.*

Presentation and 150 webinar sites. Baltimore, MD, 7/25/09.

 6/09 “Crucial Conversations about the Design of Clinical Technology.” (Nancy Staggers, Michelle Troseth, Greg Alexander). *NI2009*. Helsinki, Finland, 6/29/09.

 6/09 “Using Personas and Prototypes to Define User Requirements for a Novel Patient

 Monitoring Display for Nurses.” *NI2009*. Helsinki, Finland. 6/29/09.

 4/09 “Crucial Conversations about Creating Usable Systems.” (Nancy Staggers, Michelle Troseth,Greg Alexander, Cheryl Parker, Denise Tyler). *NIWG (Nursing Informatics Working Group), AMIA National Webinar*. 3/26/09.

 4/09 Invited Workshop: “Informatics Competencies.” (Nancy Staggers, Mollie Poynton,

 Kathy Sward, Valerie Gooder). *Western Institute for Nursing Annual Conference.* Salt

 Lake City, UT*.*

 1/09 Guest Lecture (virtual): “Informatics Competencies.” *Duke University* Informatics Students.

 11/08 “Crucial Conversations about Usability.” *HIMSS or Health Information Management Systems Society National (Virtual) Webinar* 11/25/08.

 9/08 “Nanotechnology: Implications for Consumers, Clinicians and Informaticists.” *Biomedical Informatics Seminar*, University of Utah.

 7/08 “Case studies in Usability and Clinical Application Design.” (Nancy Staggers, Michelle Troseth, Denise Tyler, Greg Alexander and Marisa Wilson). Summer Institute for Nursing Informatics, School of Nursing, University of Maryland. Baltimore, MD.

 6/08 **Keynote**: “Patient Care and Informatics: An Optimal Fit.” *Iowa Annual Nursing Informatics and Classification Conference*. Iowa City, IA.

 4/08 “A critical missing element in Longitudinal Health Records: Usability.” *Forum on the Future of Defense Health Information Technology*, Georgetown University, Washington, DC.

4/08 “The Scope and Standards for Nursing Informatics Practice.” Nancy Staggers and Carol

 Bickford. *HIMSS national WebEx* (42 sites connected).

 3/08 Guest Lecture: “Human-Computer Interaction Research: Designs and Methods. BMI

 6110 (Research Design). University of Utah.

 2/08 Guest Lecture: “University of Utah’s EHR Vendor Selection Process.” Weber State

 University Healthcare Administration class. Layton, UT.

 1/08 “Evaluations of Physiological Monitoring Displays: A Systematic Review.”

 Biomedical Seminar Series. Nancy Staggers and Matthias Georges.

 11/07 **Keynote**: “What to Expect When You’re Expecting (a CIS).” *Baptist Health System*

 *Nursing Informatics conference*. Miami, FL

 11/07 “Hot Off the Press: The ANA’s 2008 Scope and Standards for Nursing Informatics. “

 *National CARING (Capitol Area Roundtable Informatics in Nursing). Webinar*. Nancy

 Staggers and Carol Bickford.

11/07 “Beyond the 2007 Nursing Informatics Scope and Standards of Practice: Implications for Practice, Education and Research.” *AMIA annual conference*, Chicago, IL

10/07 “[Developing Informatics Standards for Nursing](http://www.nursingscience.org/meetings/conference2007/speakers/Nancy_Bergstrom.pdf)**. Presentation as part of the panel:**

 **Strategies and Techniques to Support Practice-Based Evidence and Evidence-Based**

 **Practice.” *Council for the Advancement of Nursing Science Special Topics Meeting.***

 **Washington, DC. Panel chair: Marceline Harris, Susanne Bakken, Colleen Goode,**

 **Nancy Staggers**

**9/07 “The Implications of the ANAs NI Scope and Standards of Practice on Nursing Education.” *NLN National Conference*. Phoenix, AZ. R. Nelson, N. Staggers.**

7/07 “Hot Off the Press: The ANA’s 2007 Scope and Standards for Nursing Informatics,”

 *Summer Institute for Nursing Informatics* (SINI), Baltimore, MD.

5/07 Invited Panel: “Nursing Informatics Competency Continuum: Bridging Education, Practice and Management.” *Spring AMIA*. Orlando, FL. (Ruth Schleyer, Nancy Staggers, Sue Newbold.)

4/07 “The 2007 Scope and Standards of Practice for Nursing Informatics.” American Nursing Informatics Association/CARING Conference. Las Vegas, NV.

4/07 “Future Technology Trends: Impacts for Nurses.” *Intermountain Healthcare Nurse Leader Conference, Southern Region*. Zion National Park, UT.

2/07 “The Missing Element in Evidence-Based Practice: Human-Computer Interaction.” Evidence-Based Practice Conference. University of South Florida, Park City, UT.

2/07 “The New Scope and Standards for Nursing Informatics Practice.” *Health Information Management and Systems Society*. New Orleans, LA. (with Tina Dieckhaus.)

11/06 “Nurses’ Evaluations of a Novel Design for an eMAR.” Doctoral Program Brown Bag Luncheon. College of Nursing, University of Utah (with David Kobus, Chris Brown).

10/06 “Clinical Nurses' Evaluations of a Novel Design for an Electronic Medication Administration Record.” *CANS (Council for the Advancement of Nursing Science)*. Washington DC. (Staggers, Kobus, Brown).

7/06 “The Promises and Perils of Automating Clinical Practice Guidelines in a Large Integrated Delivery Network.” *Summer Institute in Nursing Informatics*, Baltimore, MD. (Lasome, Staggers & Jennings)

3/06 **Keynote**: “Electronic Health Records: Optimizing e-Nursing Data.” *NNN 2006 International Conference* (NIC NOC NANDA - Nursing Language Conference). Philadelphia, PA.

3/06 “Four Elements of Successful Projects.” Nursing Research Conference: Understanding & Conducting Evidence-based Nursing Research. Veterans’ Administration, Salt Lake City, Utah.

9/05 “Initial Findings from Nurses’ Evaluations of an Electronic Medication Administration Record.” *CNIA Conference* (Canadian Nursing Informatics Association). Toronto, Canada.

7/05 “Application of Usability Methods to Create a Surgical ICU Log.” *HCI International 2006,* Las Vegas, NV. (with Eugene Leung, MD)

6/05 Contributing scholar presentations. Informatics for nurse leaders. Walden University (filmed presentation for continuing on-line courses).

2/05 Chair, Nursing Documentation panel presentation. Nursing informatics symposium at *HIMSS annual conference*, Dallas, TX.

7/04 **Keynote:** “Realizing the Vision of the Electronic Health Record: Challenges and Opportunities.” *Summer Institute for Nursing Informatics*, Baltimore, MD.

2/04 Panel Presentation: “Innovative Roles for Nurse Informaticists.” HIMSS Annual conference, Orlando, FL. (with Diane Skiba, Charlotte Weaver).

7/03 Paper Presentation: “The Role of Speech in Nursing: Habitual Aspects of Work are Uncovered Through Contextual Inquiry” University of Maryland Summer Institute, Baltimore, MD (with Dana Womack)

4/03 Guest Lecture: “System Selection” (on-line course); NRSG871, Nursing Informatics in Health Systems; University of Nebraska, School of Nursing

1/03 Guest Lecture: “Usability and Computing; Nursing 313, Introduction to Nursing Informatics; University of Washington School of Nursing; Seattle, WA

3/03 Panel Presentation: “Alternative Sources of Research Funding,” University of Utah College of Nursing Doctoral Seminar Brown Bag, Salt Lake City, UT

12/02 “The Quality Chasm Report: Implications for Clinical Informatics,” Biomedical and Health Informatics Seminar Series, University of Washington, Seattle, WA

12/02 “A Vision for Nursing Informatics,” University of Washington School of Nursing, Seattle, WA

11/02 “Linking Nursing Informatics Scope of Practice, Standards, and Competencies to Practice” (with C. Gassert & C. Curran), American Medical Informatics Association Symposium, San Antonio, TX

11/02 “Validated Mobilization Competencies for AF Medical-Surgical Nurses” (with K. Repko), American Military Surgeons of the United States, Louisville, KY

10/02 “The Three Secrets of Scholarly Publishing,” University of Utah College of Nursing Doctoral Seminar Brown Bag, Salt Lake City

10/02 Guest Lecturer: Human Factors in Clinical Computing, MedInfo 6000 and NURS 6100.

9/02 “Creating Research-based Informatics Competencies for Nurses” (with C. Curran & C.A. Gassert), State of the Science Congress, Washington, DC

7/02 “Human Computer Interaction and Care Transformation: A Natural Fit,” University of Maryland Summer Institute in Nursing Informatics, Baltimore, MD

4/02 “Informatics Competencies: An Essential Component of Evidence-Based Practice,” American Organization of Nurse Executives 2002 annual meeting, Orlando, FL.

11/01 “Toward the State of the Science for US Nursing Informatics,” 2001 American Medical Informatics Association Symposium, Washington, DC

11/01 “Using a Web-based Prototype and Human-computer Interaction Concepts to Develop a Vision for a Next Generation Patient Care Management System,” 2001 American Medical Informatics Association Symposium, Washington, DC

8/01 “The Relationship of Nurses’ Cognitive and Demographic Characteristics with Reactions Time in GUI and Text-based Clinical Information Systems,” Human Computer Interaction International 2001, New Orleans, LA

7/01 “Human Factors as an Imperative for Patient Safety in CISs,” University of Maryland Summer Institute in Nursing Informatics, Baltimore, MD

4/01 “The ANA’s Revised Scope and Standards for Nursing Informatics,” American Nursing Informatics Association, Las Vegas, NV

4/01 “Making a Difference in Clinical Applications for Providers and Patients: Usability as a Part of Practice,” American Nursing Informatics Association, Las Vegas, NV

4/01 “The Future of Informatics,” American Nursing Informatics Association, Las Vegas, NV **(**Closing presentation)

11/00 Poster Presentation: “Mobilization Competencies for Air Force Nurses” (with K. Repko), American Military Surgeons in the United States, Las Vegas, NV (accepted for presentation but canceled due to the terrorist attacks of 9/11/01)

7/00 “Text-Based versus Graphic Displays in Healthcare: Comparing User Performance” (with D. Kobus), Human Factors and Ergonomics Society 2000 Conference, San Diego, CA

7/00 “Informatics Competencies and Nursing Curricula: Implications from a Delphi Study,” University of Wisconsin School of Nursing, Madison, WI

4/00 “Differentiating and Validating Nursing Informatics Competencies in the U.S.” (with. Gassert & Curran), Nursing Informatics 2000, Auckland, New Zealand

4/00 “Human Factors,” Nursing Informatics Certification Review, Salt Lake City, UT

8/99 “Comparing Computerized Nursing Orders in Text-Based and GUI Screens” (with D. Kobus), American Psychological Association Annual Meeting, Boston, MA

7/99 “Advanced Topics in Human Factors,” University of Maryland Summer Institute in Nursing Informatics, Baltimore, MD

5/99 “Nursing Informatics at the University of Utah,” American Medical Informatics Association, Chicago, IL

5/99 “A National View of the Computer-based Patient Record,” Utah Health Information Systems Society, Deer Valley, UT

10/98 “Successful Selection Methods for CISs,” UNIN Meeting, Salt Lake City, UT

10/98 “Usability Principles Every Nurse Should Know,” National Health Information Management Systems Society, Salt Lake City, UT

9/98 “The Application of Technology in a Military Environment: Where the Rubber Meets the Sky,” Distinguished Leaders’ Symposium, Walter Reed Army Medical Center, Washington, DC

7/98 “Designing Nursing Interventions as an Enterprise Tool: Choosing and using Nurse-friendly Computer Systems,” University of Maryland Summer Institute for Nursing Informatics, College Park, MD

1997 “DoDs Computer-based Patient Record,” Army CIOs, Honolulu, HI

1996 “Community Health Nurses and the Potential of Computing,” Med-Surg Clinical Conference, Willigen, Germany

1997 “Usability: What Nurses Really Want in Clinical Computing,” Ontario Nursing Informatics, Toronto, Canada

1997 “Usability and Nursing: Creating Systems Nurses Can Use,” Southern Regional Education Board, NIH, Bethesda, MD

1997 “Nurses’ Interaction with Computerized Nursing Interventions: Initial Results,” University of Utah, Salt Lake City, UT

1997 “Computer Usability,” UMAB Summer Institute, Baltimore, MD

1997 “DoDs Computer-based Patient Record,” AMEDD Information Management, San Diego, CA

1996 “Clinical Information Systems,” Health Education Symposium, Seoul, Korea

1996 “A Vision for Clinical Information in Theater (Wartime),” Health Education Symposium, Seoul, Korea

1996 “A Vision for the Future of Clinical Information,” AMEDD Information Management Symposium, San Diego, CA

1996 “Can Informatics Nurses Shorten the ‘Go-Live’ Cycle?” American Nurses Association, Washington, DC

1996 Keynote Presentation: “Back to the Future: Touch and High Tech,” Nurses’ Day Awards, Ft. Belvoir, VA

1995-96 “Clinical Information Systems,” Four Army Conferences, San Antonio, TX

1994-96 “Choosing and Using Friendlier Computer Systems,” UMAB Summer Informatics Institute, Baltimore, MD

1995 Graphics Presentation: “Creating Jazzier Presentations,” University of Maryland School of Nursing Faculty, Baltimore, MD

1994 “Future Direction for the Clinical Workstation,” AMSUS, Orlando, FL

1994 “Clinical Case Management,” Uniformed Nurse Practitioners Association, Bethesda, MD

1994 “Detecting Critical On-line Information,” University of Maryland, Baltimore, MD

1994 Electronic Mail,” Nursing Management National Congress, Washington, DC

1994 “High Tech: We Need It Now!” Army Nurse Corps Clinical Issues Conference, Denver, CO

1993 “Integrating Usability Concepts into DoD Computing,” Army Nurse Corps Informatics, Rockville, MD

1993 “Computers and Clinical Outcome Measures,” UMAB Summer Nursing Informatics Institute, Baltimore, MD

1993 “Influence of Nurse Characteristics on Nurses’ Critical information Detection,” Washington Nurse Researchers’ Consortium, George Washington University, Washington, DC

1993 “Human Factors and Computers,” UMAB Summer Nursing Informatics Institute, Baltimore, MD

1993 “Design Prototyping,” University of Utah, Salt Lake City, UT

1992 “Human Factors in Computer Technology for Health Care,” Greater Baltimore’s High Tech Assembly, Baltimore, MD

1992 “Influence of Screen Design and Nurse Characteristics in Detecting On-line information,” University of Utah, Salt Lake City, UT

1992 “Exploring the Match Between Nurses and Computer Interface Designs,” Software Psychology Society, George Washington University, Washington, DC

1992 “Human-Computer Interfaces: Screen Design Research,” Summer Nursing Informatics Institute, Baltimore, MD

1992 “Detecting Critical On-line Information,” Phyllis Verhonick Nursing Research Conference, Army Nurse Corps, Washington, DC

1991 “A Meta-Analysis of Nurses’ Attitudes Toward Computers,” Graduate Student Research Day, University of Maryland, Maryland, MD

1. “Nurses’ Attitudes Toward Computers,” Phyllis Verhonick Nursing Research Conference, Army Nurse Corps, Washington, DC

1989 Computers: A Meta-Analysis of the Findings,” Research Conference, Washington, DC

1989 Workshop: “Computers in Nursing: Preparing for an HIS,” Department of Nursing, Ft. Gordon, GA

1988 “Computers and Nurses,” Army Wardmasters National Conference, Aurora, CO

1987 “Questionnaire Development-Quality of Information Processing,” Colorado Nurses’ Association, Colorado Springs, CO

1987 “Computer Basics,” 91C Students, Aurora, CO

1986-7 “In-process Review: Nursing and FITZ HIS,” Tri-Service IPR, Aurora, CO

1986 “Quality of Information Processing on Nursing Units With and Without Computerization of Nursing Activities,” Army Nurse Corps Nursing Research Conference, Washington, DC

1986 Workshop: “Computers in Nursing,” Ft. Gordon Department, Ft. Gordon, GA

1986 “Computer Systems: What the Research Literature Shows,” Fitzsimons Nursing Personnel, Aurora, CO

1986 “VA Hospital Information System,” Fitzsimons Nursing Personnel, Aurora, CO

1986 “VA System Implementation Issues,” Fitzsimons Directorate of Resources Management, Aurora, CO

1986; Management Seminar: “Computers in Nursing,” Nurse Managers, Aurora, CO

1985

1984 “Computer Applications in Nursing Practice,” Undergraduate Students, University of Maryland at Baltimore, Baltimore, MD

1984 “Gender of a Nurse Affects Perceptions of Nursing Competency,” Graduate Student Research Symposium, University of Maryland at Baltimore, Baltimore, MD

L. **Consultation**

**Mo/Yr Firm/Client**

 2010-11 Expert panel for developing usability toolkit grant. PI: Constance Johnson, Duke

 University. AHRQ Grant title “NRC D2 HER Information Design and Usability

 Toolkit.” 2010-2012 (The agency canceled the grant 9/11 due to funding issues.)

 2009- Advisory Board member: Nursing Informatics Program, University of Maryland

 School of Nursing

 2008-10 Consultant: University of Missouri, Gregory Alexander, K08 award.

 2007 Consultant: University of Maryland, School of Nursing, Informatics Program.

 (HRSA Grant, PI: Judith Ozbolt).

 2006 Consultant: University of Kentucky, Nursing Management. (HRSA Grant. PI: Julie

 Sebastian, Marcia Stanhope).

 2006 Consultant, Mayo Clinic Executive Nursing Leadership, Rochester, Minnesota.

 2006–2008 Consultant, “Combat Casualty Care: Integrative Review and Validation of Nursing

 Competencies.” TriService Nursing Research Service (funded 9/06, PI: Elizabeth

 Bridges).

 2006 CliniComp, International. (Strategic directions for this vendor).

 2005-2006 Advisory Board, University of Maryland School of Nursing Informatics Program.

2005-2006 Consultant: Automated Clinical Practice Guidelines Project. Tripler Army Medical

 Center. C. Lasome, PI.

2003-2005 Consultant: “A Meta-Analysis of Feedback Mechanisms in Clinical Systems. Dr.

 Charlene Weir, PI (funded 11/03).

2002-2003 Consultant: “PDA Capture of Electronic Source Documents, “ National Institutes of

 Mental Health, Grant #N44MH22052 (funded 12/02, PI; Jerome Soller)

2002-2003 Consultant: “Clinical Informatics Leadership,” HRSA, Duke University, E.

 Goodman, PI, (funded Summer 2002)

2002-2004 Consultant: “Integrating Informatics into the BSN Curriculum,” HRSA, University of

 Washington, (funded Summer 2002).

2001 Consultant, Clinicomp International (work on computerized clinical pathways)

8/00 Consultant, “A Human Factors Assessment of IHC’s Patient Care Management

 System,” Intermountain Health Care, Salt Lake City, UT.

1999 Consultant, “E-mail as a Communication Tool for Army Nursing Management,” Tri-

 Service Nursing Research Grant ($127,000)

1998-99 Consultant: “Linking Nursing Care to the ANAs Quality Indicators” (Hildreth, PI),

 Tri-Service Nursing Research Grant ($19,172)

1998 Consultant, “E-mail as a Communication Tool for Army Nursing Management,” Tri-

 Service Nursing Research Grant (pilot grant $5,000)

1997 Expert Panel: “A National Informatics Agenda for Nursing Education and Practice,”

 US Department of Health and Human Services, Washington, DC

8/94-12/97 Nursing Informatics Consultant, US Army Surgeon General.

11/85-7/87 Nursing Veteran’s Administration HIS Coordinator, Fitzsimons Army Medical

 Center, Aurora, CO

M. **University, Professional, and Public Service**

1. University Committees

Judge, Innovate 4 Health competition sponsored by Johnson & Johnson, Smith School of

 Business, University of Maryland, May 2012

University Retention, Promotion, Tenure, U. Utah, 2009-2010

Academic Senate Executive committee 2008-2009

Cyberinfrastructure Commmittee, 2007-2008 (work completed in 2008)

Academic Senate, 2006-2009

Personnel and Elections Committee, 2006-2008

Information Technology Council (was IT e-Commerce), 2001-2003

3. Health Science Center Committees

University Hospital Clinical Systems Advisory Committee or CSAC (2008- )

University Technology Infrastructure Administrative Committee (TIAC), 2008-2009

Orthopaedic Institute Core Steering Committee, 2002-2004

New Huntsman Cancer Institute IT Planning, 2002-2004

HSC Space Allocation Committee 2002-2004

Information Technology (IT) Core Steering, 2001-2004

Information Technology (IT) Project Approval, 2001-2004

University of Utah Medical Group Population Research Committee, 2001-03

Inpatient Medical Directors, 2001-2004

Outpatient Medical Directors, 2002-2004

Eccles Pavilion Core Steering, 2001-2003

Health Sciences Education Building Core Steering, 2002-03

Information Technology (IT) Strategy for the Ambulatory Arena

 Co-chair, 2002

Chair, EMR Leadership Selection Committee, 2001

Information Technology (IT) Strategic Planning Committee, 2000

4. College/School Committees

U. Maryland, AMIA Nurse Planner (for CNE), 2013-

U. Maryland, SINI Planning Committee member, 2010-

U. Maryland NI Advisory Board member, 2010-

Utah College of Nursing (CON) Retention, Promotion and Tenure Committee member, 2009-2011

Chair, CON Research Committee, 2008-2009

CON Research Committee, 2006-2008; 1998-2000

MS-DNP Committee, 2007-2010

Chair, Academic Misconduct and Appeals Committee, 2007

PhD Program Committee, 2006-2010

Alumni Board (faculty representative), 2005-2007

Doctorate of Nursing Practice Taskforce, 2005-2006

Graduate Admissions and Advancement, 2000-2001

Information Resources Committee (IRCC), 1998-2001

5. State

State Commissioner, Utah Digital Health Commission, 2008 – present

6. Professional Societies

a. Local/State

Gamma Rho Chapter, Sigma Theta Tau International

b. Regional

UHIMSS board 2013-

Alliance Nursing Representative, 2013-

UNIN (Utah Nursing Informatics Network), President, 2007-2008

UNIN (Utah Nursing Informatics network) Board member, 2006-2007 and 2008-2009

UNIN 1998-present

c. National

HIMSS Usability Committee, 2010-present

AMIA Scientific Program Committee, 2013-2014

Senior editor, Online Journal Nursing Informatics (technology design column)

AMIA AACN Accreditation Representative from U. Maryland School of Nursing, 2013-

Chair, NI Synergy Meeting, AMIA NI Working Group, 2009.

AMIA (American Medical Informatics Association) Policy Committee, 2008-2010

Co-Chair, TIGER (Technology Informatics Guiding Educational Reform) Usability and Clinical Application Design workgroup, 2007-9

Chair, American Nurses’ Association committee on nursing informatics, Dec 2005- 2007.

Human Factors and Ergonomics Society, 2000-2003, 2009-2011

 Chair, Scientific Program, Medical and Rehabilitation Technical Group, 2001

Health Information & Management Systems Society (HIMSS), 1998-present

 Nursing Informatics Program Planning Committee, 2004 & 2005

Chair, ANA revision for the NI Scope and Practice, 2000-2001, 2005-2008

AMIA, 2007- present, 1993-94; 1996-03

AMIA Nursing Informatics Werley Award Reviewer, 1998

Best Nursing Informatics Paper Nominee, 2001

Phi Kappa Phi, 1990-present

American Nurses Association, 1974-80; 1986-present

National League for Nursing, 1974-95

d. International

Sigma Theta Tau International, 1974-present

 . Fulbright mentor - Luciana Goncalves, University Parana, Curitiba, Brazil.

6. Public Service

Section II.

O. Teaching Responsibilities/Assignments (indicate role, i.e. single instructor, lead teacher, team member, discussion leader, etc.)

Year/ Course Number, Title, Number of Role

Term Credit Hours ( ) Students

 2014 S Technology Solutions for Knowledge Generation in 90 Lead

 Healthcare Instructor

 2013 F Human-Technology Interaction 19 Instructor

 2013 F Technology Solutions for Knowledge Generation in 23 Instructor

 Healthcare

 2013 S Technology Solutions for Knowledge Generation in 40 Instructor

 Healthcare

 2012 F Technology Solutions for Knowledge Generation in 24 Instructor

 Healthcare

2012 F Human Factors and Human-Computer Interaction 14 Instructor

2012 S Guest lecture, “Integrative Review: A Method for Synthesizing Research Findings.”

 To NURS 841 Theory and Concept Development in Nursing, University of

 Maryland.”

2012 S Human Factors in Health IT 22 Instructor

 Johns Hopkins University

2012 S Technology Solutions for Knowledge Generation in 21 Instructor

 Healthcare

2011 F Technology Solutions for Knowledge Generation in 23 Instructor

 Healthcare

2011 S “An Integrative Review of Handoff Research” 10 Guest Lecturer

 NURS 841

2010 F “Critical Concepts in Human-Computer Interaction.” Weir 30 Guest lecturer

 & Staggers. BMI/NI 6010/6810

2009-2010

 S Project Management for Healthcare Informatics 17 Lead

 Instructor

 F “Critical Concepts in Human-Computer Interaction.” Weir 35 Guest lecturer

 & Staggers. BMI/NI 6010/6810

 F NURS 7010 8 Guest Lecturer

 F NI/BMI 6804 Systems Implementation 15 Lead

 Instructor

2008-2009

 S NI/BMI 6820 Human-Systems Interaction 11 Lead

 Instructor

 F “Critical Concepts in Human-Computer Interaction.” Weir 18 Guest lecturer

 & Staggers. BMIINF 6010

 F NI/BMI 6804 Systems Implementation 7 Lead

 Instructor

 F 6815 NI Practicum 3 Instructor

2007-2008

 S “Human-computer Interaction Research: Designs 8 Guest

 and Methods BMI6110 Lecturer

 S N6815 Nursing Informatics Practicum (2) 3 Lead

 Instructor

 S N6805 Nursing Informatics Practicum Seminar (1) 3 Lead

 Instructor

 F “Critical Concepts in Human Systems Interaction” 20 Guest

 BMI 6010 Lecturer

 F N/BMI6804 Implementing Successful Systems in 7 Lead

 Healthcare Settings (3) Instructor

 2006-2007

 F Critical Concepts in Human-Computer Interaction.” Weir 18 Guest lecturer

 & Staggers. BMIINF 6010

 F N/BMI 6804 Implementing Successful Systems in 6 Lead

 Health Settings Instructor

 S N/BMI68020 Human Systems Interaction in Healthcare 13 Lead

 Environments Instructor

 F Critical Concepts in Human-Computer Interaction.” Weir 21 Guest lecturer

 & Staggers. MDINF 6000

 F “Implementing and Evaluating Systems: The Case for 11 Guest lecturer

 Human-Computer Interaction” NURS 6800

 F NURS/MDINF 6804, A Primer of IT Operations 11 Lead

 Instructor

 2005-2006

 S “Critical Concepts in Human-Computer Interaction.” Weir 50 Guest lecturer

 & Staggers. MDINFO Seminar Series

 Ongoing The Nurse Administrator: Leading and Managing for Excellence. Guest lecturer

 “Information Management” Walden University (online)

 S NURS6888 Master’s Synthesis (3) 9 Instructor

 S MDINF6110, Research Design (3) Guest lecturer

 “Research Design and Usability Testing.”

 S NRSG 877 Data Management in Nursing Informatics,

 University of Nebraska, School of Nursing. Guest lecturer

 “Overview of Human-Computer Interaction in Healthcare”

 F NURS6804 A Primer of IT Operations (3) 6 Instructor

 F NRSG871 Nursing Informatics in Health Systems; University Guest lecturer

 of Nebraska, School of Nursing “System Selection”

 F MDINF6000, Introduction to Medical Informatics (6) Guest lecturer

 “Patient Care Information Systems”

 F NURS6800, Introduction to Nursing Informatics (2) Guest Lecturer

 “Overview of Human-Computer Interaction in Health Care”

 2003-2004

 S MDINF6804/N6804, A Primer of IT Operations (3) 13 Instructor

 F MDINF 6000, Introduction to Medical Informatics (6) Guest Lecturer

 “Lessons Learned from the Implementation of the Cerner

 EMR at the University of Utah;”

 N 6100, Introduction to Nursing Informatics (6)

 “Human Factors in Clinical Computing”

 MDINF 6000, Introduction to Medical Informatics (6)

 “Human Factors in Clinical Computing” Guest Lecturer

2002-03

 F MDINF 6000, Introduction to Medical Informatics (6) Guest Lecturer

 “Lessons Learned from the Implementation of the Cerner

 EMR at the University of Utah;”

 MDINF 6000, Introduction to Medical Informatics (6) Guest Lecturer

 “Training, Marketing and the Technical

 Environment of the Olympus EMR;”

 MDINF 6000 and NURS 6100 Introduction to Medical (6) Guest Lecturer

 and Nursing Informatics (3) “Human Factors

 and Ergonomic Principles in Clinical Computing”

 MDINF6804/N6804, A Primer of IT Operations (3) 12 Instructor

 N6800, Introduction to Clinical Informatics (2)

 “Human Factors and Ergonomic Principles in

 Clinical Computing”

 N6803, Clinical Database Design (3) Guest Lecturer

 “Integrating Usability Techniques into Database Design”

2001-02

 S N6804/MDINF6804, A Primer of IT Operations (3) 7 Instructor

 F MDINF 6000, Introduction to Medical Informatics (6) Guest Lecturer

 “Human Factors and Ergonomics Principles in

 Clinical Computing”

 N6803, Clinical Database Design (3) Guest Lecturer

 “Integrating Usability Techniques into Database Design”

 N6800, Introduction to Clinical Informatics (2) Guest Lecturer

 “Human Factors and Ergonomics Principles in

 Clinical Computing”

 Staff Leadership Development Seminar (lower campus) Guest Lecturer

 “IT and Higher Education” (with Dr. S. Hess)

2000-01

 S N6805, Clinical Informatics Seminar (1) 5 Instructor

 N6815, Clinical Informatics Practicum (1-3) 4 Instructor

 MDINF6200, Health Information Systems (3) Guest Lecturer

 “Successful Strategies for CIS Selection”

 F N3100, Roles and Values (2) Guest Lecturer

 “Military Clinical Informatics”

 N6800, Introduction to Clinical Informatics (2) Guest Lecturer

 “Human Factors Principles for Nurses”

 N6803, Clinical Database Design (3) Guest Lecturer

 “Usability Testing”

 N6804, Clinical Systems Implementation (2) 12 Instructor

 N6804, Clinical Systems Implementation Lab (1) 3 Instructor

 MDINF6200, Health Information Systems (3) Guest Lecturer

 “Successful Strategies for CIS Selection”

1999-00

 S N6803, Clinical Database Design (3) Guest Lecturer

 “Graphical User Interface”

 N6804, Clinical Systems Implementation (2) 5 Instructor

 N6805, Clinical Informatics Practicum (3-4) 8 Instructor

 MDINF 6000, Introduction to Medical Informatics (6) Guest Lecturer

 “Usability Concepts in Clinical Computing”

 F N6800, Introduction to Clinical Informatics (3) Guest Lecturer

“Human Factors in Clinical Informatics” and

“Web Design Principles”

 N6802, Clinical Decision Support (2) Guest Lecturer

 “Screen Design Principles”

 MDINF 6000, Introduction to Medical Informatics (6) Guest Lecturer

 “Nursing Information in Enterprise Clinical

 Information Systems”

1998-99

 S N6801, Clinical Systems Analysis and Design (4) 12 Co-Instructor

N6805, Clinical Informatics Practicum (3-4) 3 Instructor

 F N6800, Introduction to Clinical Informatics (3) Guest Lecturer

“Human Factors Principles for Nurses”

 N6804, Clinical Systems Implementation (2) 8 Instructor

P. Development of New Courses

Term/Year Course Number & Title

F/2012 NURS719, Synthesizing Health IT Outcomes (3)

F/2008 N6661, Project Management in Healthcare (3)

S/2007 N6820, Human-Systems Interaction (3)

S/2002 N6804, A Primer in IT Operations (3)

F/2000 N6814, Clinical Information Systems Implementation Lab (1)

Q. Graduate Students Supervised

Member/ Name Degree Date of Thesis/Dissertation Title

Chair Level Degree

*University of Utah*

Chair & Matney PhD (Dissertation)

Co-Chair

Chair & Blaz PhD 2014 Exploring the creation of nurses' informal

Co-Chair documentation and use in clinical work

External Furlong PhD 2014 A Narrative Inquiry into Nurses' Experiences of

 Examiner Learning: The Case of an Electronic Health

 Record (University of New Brunswick, Canada)

Member Kapsandoy PhD 2014 Feasibility and Psychometric Evaluation of the

 Studio Alterazioni Cutanee Stomali (SACS)

 Instrument for Assessment of Peristomal Skin

 Lesions in Children

Member Thum-Thomas PhD (Dissertation)

Member Maddox PhD (Dissertation)

Content Crittenton DNP 2013 Learning to Save Lives One Handoff at a Time

Member

 Member Perri PhD 2013 Using electronic Decision Support to

 Enhance Provider-Caretaker

 Communication for Treatment of

 Children under Five in Tanzania

Member Guo PhD 2012 Eligibility Criteria Data Standards for

 Randomized Clinical Trials in Cancer Nursing

 Research

Member Gibson PhD(BMI) 2011 The Use of Computerized Simulations to Promote

 Self Management Behaviors in Individuals with

 Type 2 Diabetes

Chair Zafar MS (BMI) 2011 Usability evaluation of a vendor's Emergency

 Department Computerized Provider Order Entry

 application at the University of Utah hospital

Member Arisoto PhD 2011 Factors Leading to False Positive CPOE Opiate

 Allergy Alerts

Member Koch PhD (BMI) 2010 Integrated Displays for Nurses in ICUs

 Member Merrill PhD 2010 The Relationship Among Nurse Manger Leadership Style, Span of Control, Staff Nurse Practice Environment, Safety Climate and Nurse-Sensitive Patient Outcomes

Chair Wallace PhD 2009 Exploration of Provider Information Processing in the Care of Patients with Diabetes in Primary Care

 Chair Leung MS (BMI) 2009 Application of Usability Methods to Create a Surgical Intensive Care Log

Chair Danielson PhD (BMI) 2006 The Impact of Clinical Information Systems on

 Pharmacy Work Design

Member Madsen MS 2006 Selection of a niche system within an existing

 electronic medical records environment: An

 academic ophthalmology department experience

Member Neilson MS 2005 Improved Prediction of Need for Therapeutic Laparotomy using Existing Data

College of Nursing no longer required committees for master’s projects after 2003

Member Taylor MS 2003 Development of a Web-based Preschool Vision Screening Tool for Home Use

Chair Glover MS 2002 Inpatient Nutritional Screening: Defining the Primary User Requirements for an Electronic Medical Record Information System

Chair Hilz MS 2001 Nursing-Pharmacy Workflow Requirements for the Management of Inpatient Mental Health Medical Orders (Project)

Chair Roskos MS 2000 Beginning Functional Requirements for a Service Category for a Geriatric Care Management Program Information System

Chair Womack MS 1999 Synchronous Verbal Interaction in Acute Care Nursing (Thesis)

Member Hilden MS (BMI) 2002 The Development of a Feedback Program for the LDS Hospital Radiology Department

Member Toth PhD 2002 A Standardized Vocabulary for Occupational Health Surveillance

Member Gooder PhD 2001 Predictive Value of Physiologic Variables in Bedside Caregiver-Initiated Extubation of Postoperative Cardiac Surgery Patients

Member Sward MS 1998 Database Usability: Automation of the Birthcare/Healthcare Birth Log

Supervisor Ekstrom MS No progress *2002-2003. Student declined to finish his project due to family issues*

Supervisor Sower MS No progress *2000-2003. Student moved away from Utah for the Air Force and did not complete her project*

Supervisor Brazleton PhD No progress *Supervised dissertation 1998-2003. Student was advised in 2003 to change chairs because I was her new supervisor in information technology services. She withdrew from the program in 2007 and completed an informatics master’s certificate in 2008.*

Supervisor Lussier MS No progress *Supervised project 1998-2000. Student moved away from Utah and did not complete the project*

Supervisor Righter MS No progress *Supervised project 1998-2000. Student moved out of state and did not pursue her project.*

 *University of Maryland prior to employment there*

Member Lasome PhD 2008 Business-Information Technology Alignment Between Chief Nurse Executives
and Informatics Nurse Specialists:  An Instrument Development

Member Charters PhD 1998 Information Integration in a Geographically Distributed Organization

Member Rydgren MS 1996 Comparison of SNOMED and nursing taxonomy terms in orthopedic procedures

*University of Phoenix*

Preceptor Barker MS 2005 Marketing methods for a new clinical system

R. Independent Study Students Supervised

Year Level of Student Number

2010 PhD 5

2009 PhD/MS 2/1

2009 MS 1

2008 PhD 1

2007 PhD 1

2003 Masters 1

2000 Masters 2

1999 Masters 2

1998 Masters 1

S. Student Advising

Year Level of Student Number

 2012 Masters/Doctoral 17/2

 2011 Masters/Doctoral 7/2

 2010 Masters/Doctoral 6/5

 2009 Masters/Doctoral 6/5

 2008 Masters/Doctoral 4/3

 2007 Masters/Doctoral 4/1

 2006 Masters/Doctoral 3/1

 2005 Masters/Doctoral 2/1

 2004 Masters/Doctoral 1/1

 2000 Masters/Doctoral 4/1

1999 Masters/Doctoral 6/1

1998 Masters/Doctoral 9/1

T. Preceptor: University of Maryland

Ahearne, Fall 1997

Ross, Spring 1997

Rydren, Spring 1996

Struck, Fall 1995

Kukla, Spring 1993