Part II: Human Factors Engineering and Patient Safety

Overview and Course Objectives

This educational activity is designed for all physicians, nurses, physician assistants, pharmacists, engineers, patient safety officers, and other professionals interested in human factors engineering and patient safety.

Specific Learning Objectives

At the conclusion of this activity, participants should be able to:

• Identify the objectives of human factors engineering
• Promote the use of human factors engineering to minimize patient related error
• Recognize the difference between micro and macro human factors engineering approaches
• Summarize what a system is, and what are the implications for its design
• Target and evaluate medical device design and usability issues for patient safety
• Identify cognitive ergonomics issues, such as information processing and human error
• Understand organizational issues related to patient safety (e.g. transitions of care, communication, teamwork, process analysis)
• Ability to assess the physical environment for patient safety associated issues
• Case examples of physical environment issues and patient safety
• Improve situational awareness
• Improve workload management
• Identify human characteristics, capabilities and limitations
• Recognize interfaces between job, person and environment
• Attain skills in the HF method of usability testing and how it fits into healthcare information technology
• Understand how HIT can help HF implementation
• Assess the impact of HIT on patient care processes

Statement of Need

Today, CQPI’s Systems Engineering Initiative for Patient Safety (SEIPS) is the foremost leader in the comprehensive application of Human Factors and Systems Engineering to the patient safety challenge. CQPI/SEIPS is the recipient of multiple Federal, foundation, and industry supported research projects for patient safety, quality of healthcare processes, quality of working life and human factors approaches for improved technology implementation. The various project teams on these studies are multidisciplinary, including investigators and partners in Human Factors and Systems Engineering, Nursing, Medicine and Pharmacy.

Intended Audience

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The SEIPS model is a very helpful framework for thinking and problem solving, not only in patient safety but in all aspects of healthcare. 

"I cannot wait for next year’s SEIPS course Part III! The faculty makes us want to learn more and more about Human Factors and a systems approach to my patient care practices."
Faculty

Pascal Cayron, PhD
Director CQPI, Proctor & Gamble Baucus Professor in Total Quality, Industrial and Systems Engineering, University of Wisconsin-Madison, Madison, WI

Carla J. Alavaci, PhD, CRC
Research Scientist, CQPI and SEIPS Short Course Coordinator, University of Wisconsin-Madison, Madison, WI

Patricia Bailey Brown, RN, PhD, FAAN, MAEd
Baron Professor School of Nursing and Industrial and Systems Engineering, University of Wisconsin-Madison, Madison, WI

Stephen V. Douglass, RN, CCRN, MN, MS
Assistant Researcher, CQPI, University of Wisconsin-Madison, Madison, WI

John W. Cooker, MD, MS
Human Factors Engineering and Health Care Consultant, Ann Arbor, MI

Kern Henriques, PhD
Senior Staff Fellow, Agency for Healthcare Research and Quality (AHRQ), Rockville, MD

Ann Schofield Haist, PhD
Research Scientist, CQPI, University of Wisconsin-Madison, Madison, WI

Ben-Tzion Karch, PhD
Assistant Professor, Industrial and Systems Engineering, University of Wisconsin-Madison, Madison, WI

Robert L. Wears, MD
Professor, Emergency Medicine and Director of Medical Informatics, University of Florida College of Medicine, Jacksonville, FL

Matthew C. Scanlon, MD
Associate Medical Director of The Pediatric Intensive Care Unit and Assistant Professor of Pediatrics, Medical College of Wisconsin, Milwaukee, WI

The University of Wisconsin provides equal opportunities in employment and programming, including Title IX requirement.

General Information

Dates: August 14-18, 2006
Place: The Pyle Center
702 Langdon Street
Madison, WI 53706
Phone: 608/262-1122
Fax: 608/262-8516

Conference Housing

Blocks of rooms are reserved at the following hotels. Please call or write to the hotel to directly reserve your accommodation. Be sure to reference the short course CQPSSEIPS to receive the special room rate.

DoubleTree® Hotel – Madison
25 West Johnson Street, Madison, WI 53703
www.doubletree-hilton.com
Phone: 608/251-5531 Fax: 608/251-4824
Rates: $119.00 single/$169.00 double
Reservations must be made prior to July 14, 2006.

The Campus Inn
601 Langdon Street, Madison, WI 53703
Phone: 608/257-4391 or 900/589-6285 Fax: 608/257-2832
www.thecampusinn.com
Rates: $115.00 single/$130.00 double
Reservations must be made prior to July 14, 2006.

Conference Fees

• $1,500 Part I only – First Registrant from an Organization
• $1,000 Part I only – Each Additional Registrant from the Same Organization
• $1,500 Part II only – First Registrant from an Organization
• $1,000 Part II only – Each Additional Registrant from the Same Organization
• $1,250 Part II only - 2004 & 2005 Part I Short Course Attendees
• $2,200 Part I and Part II – First Registrant from an Organization
• $2,000 Part I and Part II – Each Additional Registrant from the Same Organization

The conference fee includes the cost of tuition, materials, an opening reception, breakfasts, refreshment breaks, lunches, and a nonrefundable registration fee of $50. Should you cancel your registration up to 72 hours prior to the conference, you will be refunded the entire conference fee except the $50 nonrefundable portion. No refunds will be made after that time.

Four Easy Ways To Register

By Mail: Return your completed registration form and payment (Step 5 registration form)
By Phone: 608/262-1397
Please call and give your billing information or pay by MasterCard, VISA, or American Express
By Fax: 608/744-7416 (in Madison Fax 263-3163)
On Line: www.cmce.wisc.edu

Confirmations

All registrations are confirmed in writing. If you do not receive a confirmation, please call 608/262-1397.

Conference Attire

Since meeting room temperatures and personal comfort levels vary, it is recommended that you dress comfortably.

For Further Information

Dr. Carla J. Alavaci, CQPI, 575 WARF, 610 Walnut Street, Madison, WI 53726; telephone 608/262-2678 or 608/262-1250; calavaci@org.cqpi.org.wisc.edu
Tebose Bailey
Office of Continuing Professional Development in Medicine and Public Health
2701 International Lane, #208, Madison, WI 53706; 608/240-2141; tebosal@wisc.edu

Policy on Faculty and Sponsor Disclosure

This activity has been planned and implemented in accordance with the Essential Areas and policies of the Accreditation Council for Continuing Medical Education through the joint sponsorship of the University of Wisconsin School of Medicine and Public Health and the University of Wisconsin-Madison, Center for Quality and Productivity Improvement (CQPI). The University of Wisconsin School of Medicine and Public Health is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians. Accreditation Statement

The University of Wisconsin School of Medicine and Public Health designates this educational activity for a maximum of 34.25 AMA PRA Category 1 Credits™. Physicians should only claim credit commensurate with the extent of their participation in the activity.

Continuing Education Units

The University of Wisconsin-Madison, as a member of the University Continuing Education Association (UEA), authorizes this program for 34.25 continuing education units (CEUs) or 34.25 hours.

Quotations from past course attendees:

“Great course! Very valuable for the work I do. Thank you for all you did to get a Human Factors and Patient Safety course up and going.”

“Excellent program…I received practical tools I can use immediately back at my hospital.”

“The SEIPS model is a very helpful framework for thinking and problem solving, not only in patient safety but in all aspects of healthcare.”

“I cannot wait for next year’s SEIPS course Part III! The faculty makes me want to learn more and more about Human Factors and a systems approach to my patient care practices.”

Registration Form

SEIPS Short Course on Human Factors Engineering and Patient Safety
Part I and Part II
Part I: August 14-16, 2006 • Part II: August 16-18, 2006

Please complete Steps 1-5 below in BLOCK letters

Step 1. Participant Information:

Name ____________________________
Professional Degree (for credit & name badge) ____________________________
Company Name ____________________________
Dept. Name or Mail Code ____________________________
Work Address ____________________________
City, State, Zip ____________________________
Day Phone ____________________________
FAX ____________________________
E-mail ____________________________
Frequent vegetarian options for my meals ____________________________

Step 2. Confirmation:

Work Address (as provided in Step 1) - or - Home Address ____________________________
Home Address ____________________________
City, State, Zip ____________________________

Step 3. Registration Fees:

$1,500 Part I only - First Registrant from an Organization
$1,000 Part I only - Each Additional Registrant from the Same Organization
$1,500 Part II only - First Registrant from an Organization
$1,000 Part II only - Each Additional Registrant from the Same Organization
$2,200 Part I and Part II - First Registrant from an Organization
$2,000 Part I and Part II – Each Additional Registrant from the Same Organization

TOTAL FEE REMITTED:
___ PO or check enclosed (payable to University of Wisconsin) ____________________________
___ Please bill my company ____________________________
Credit Card: □ MasterCard; □ VISA; □ American Express ____________________________
Cardholder’s Name ____________________________
Card Number ____________________________
Expiration Date ____________________________

Step 4. Where did you learn about this short course? Check all that apply

□ Colleague □ Brochure □ Advertisement □ Internet □ Other ____________________________

Step 5. Please return your payment with this form to:

Kathy Kneebone, The Pyle Center, 201 Langdon Street, Madison, WI 53706 or Fax 608/744-7416 (in Madison Fax 263-3163).

The University of Wisconsin School of Medicine and Public Health fully complies with the legal requirements of the ADA and is committed to making all of its programs accessible to all people with disabilities. If you have a disability and require assistance or if you have questions about physical access, please contact Kathy Kneebone, The Pyle Center, 702 Langdon Street, Madison, WI 53706 or Fax 608/263-3163.
The University of Wisconsin–Madison

Systems Engineering Initiative for Patient Safety (SEIPS) Short Course on Human Factors Engineering and Patient Safety Part I and Part II

This two-part, five-day course for professionals presents nationally recognized speakers discussing a variety of Patient Safety topics and Human Factors Engineering (HFE) including:

Part I: The Basics of HFE & Patient Safety
- Human Factors Engineering
- Sociotechnical Systems and Macroeconomic
- Design of the Physical Environment and Ergonomics
- Cognitive ergonomics
- And more...

Part II: HFE & Healthcare Information Technology (HIT)
- Usability of HIT
- Impact of HIT on Patient Care Processes
- Human Factors of Implementing HIT
- And more...

Please Route to:
- PATIENT SAFETY OFFICER
- QUALITY IMPROVEMENT
- RISK MANAGEMENT
- MEDICAL INFORMATICS

THE UNIVERSITY OF WISCONSIN–MADISON

August 14-18, 2006
Pyle Center, University of Wisconsin–Madison • Madison, WI

Systems Engineering Initiative for Patient Safety (SEIPS)
SEIPS Short Course on Human Factors Engineering and Patient Safety Part I and Part II on HIT (New 2006)

Center for Quality and Productivity Improvement
610 Walnut Street/575 WARF Building
Madison, Wisconsin 53726

www.fpm.wisc.edu/seips

Jointly sponsored by the University of Wisconsin Center for Quality and Productivity Improvement (CQPI) and the University of Wisconsin School of Medicine and Public Health, Office of Continuing Professional Development in Medicine and Public Health