To rise to the challenge of the international quality revolution, the Center for Quality and Productivity Improvement (CQPI), a research center, was founded in October of 1985. Since its inception, CQPI has been at the forefront in the development of new techniques for improving the quality of products and processes.

Today, CQPI's Systems Engineering Initiative for Patient Safety (SEIPS) is the foremost leader in a 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.

Statement of Need
This short course is designed to provide an understanding of human factors and systems engineering and how this approach to patient safety can improve performance, prevent harm when error does occur, help systems recover from error, and mitigate further harm.

Intended Audience and Scope of Practice
This educational activity is designed for Primary care, ICU, and ER physicians, Physician assistants, Nurses, Information technologists, Research scientists, Quality management, Pharmacists, CEOs, Middle and upper management, Engineers, Patient safety officers and other professionals interested in human factors engineering and patient safety who work in the healthcare field.

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

- Identify the objectives of human factors engineering
- Facilitate the use of human factors engineering to improve patient safety
- Summarize the characteristics of a system and the implications for system design
- Evaluate medical device design and usability issues for patient safety
- Identify cognitive ergonomics issues, such as information processing and human error
- Recognize organizational issues related to patient safety (e.g., transitions of care, communication, teamwork, process analysis)
- Assess the physical environment for patient safety
- List examples of physical environment issues and patient safety
- Identify methods for workload management
- Identify human characteristics, capabilities and limitations
- Recognize challenges to the application of HFE and patient safety
- Attain skills in usability of health IT
- Evaluate the impact of health IT on patient care processes
- Utilize human factors engineering principles for implementing health IT

Schedule ▪ 2010

| AM | 7:00-8:00 | Breakfast and Registration | Attendees, Faculty |
| AM | 8:00-8:15 | Overview and Course Objectives | Pascale Carayon |
| PM | 10:00-10:15 | Break | Ann Schools Hundt |
| PM | 11:15-12:15 | Usability Principles and Methods | Ann Schools Hundt |
| AM | 12:15-1:15 | Lunch | Attendees, Faculty |
| AM | 1:15-2:45 | Technology Design and Usability - 1 | John W. Gosbee |
| AM | 2:45-3:00 | Break | Attendees, Faculty |
| AM | 3:00-4:00 | Technology Design and Usability - 2 | John W. Gosbee |
| AM | 4:00-5:00 | Case Study Analysis | Attendees, Faculty |
| PM | 5:00-6:00 | Graduate Student Poster Session | Attendees, Faculty, Students |

| AM | 7:00-8:00 | Breakfast and Conversation | Matthew Scanlon |
| AM | 8:00-10:00 | Application of Human Factors Engineering to Healthcare and Patient Safety | Matthew Scanlon |
| AM | 10:00-10:15 | Break | Matthew Scanlon |
| AM | 10:15-11:15 | Team Activity and Poster Session | Attendees, Faculty |
| AM | 11:45-12:00 | Wrap-up and Evaluations | Pascale Carayon, Faculty |
| PM | 12:00-1:00 | Lunch | Attendees, Faculty |

| AM | 7:00-8:00 | Breakfast and Conversation | Mary Sesto |
| AM | 8:00-9:45 | Physical Ergonomics | Carla J. Alvarado |
| PM | 9:45-10:00 | Break | Carla J. Alvarado |
| AM | 10:00-12:00 | Impact of Health IT on Patient Care Processes and Tasks | Carla J. Alvarado |
| PM | 12:00-1:00 | Lunch | Carla J. Alvarado |
| PM | 1:00-2:45 | Impact of Health IT on Patient Care Processes and Tasks | Carla J. Alvarado |
| PM | 2:45-3:00 | Break | Carla J. Alvarado |
| PM | 3:00-5:00 | Healthcare Professionals’ Interaction with Health IT | Shawna Perry |

| AM | 7:00-8:00 | Breakfast and Conversation | Ben-Tzion Karsh |
| AM | 8:00-10:00 | Human Factors of Implementing Health IT | Ben-Tzion Karsh |
| AM | 10:00-10:15 | Break | Ben-Tzion Karsh |
| AM | 10:15-12:00 | Human Factors of Implementing Health IT | Ben-Tzion Karsh |
| PM | 12:00-2:00 | A Provider’s Conversion Experience (Box Lunch Available) | Shawna Perry |

| AM | 7:00-8:00 | Breakfast and Conversation | Carla J. Alvarado |
| AM | 8:00-10:00 | Human Factors Engineering Principles of Health IT Design | Carla J. Alvarado |
| AM | 10:00-10:15 | Break | Carla J. Alvarado |
| AM | 10:15-12:00 | Human Factors Engineering Principles of Health IT Design | Carla J. Alvarado |
| PM | 12:00-2:00 | A Provider’s Conversion Experience (Box Lunch Available) | Carla J. Alvarado |
General Information

Dates: July 26-30, 2010
Place: 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 hotels directly to reserve your accommodation.

DoubleTree® Hotel – Madison
525 West Johnson Street, Madison, WI 53703
Phone: 608/251-5511 or 800.222.8733
www.doubletreamadison.com
Rates: $139
Reservations must be made prior to June 25, 2010
Please reference SEP

The Edgewater Hotel
666 Wisconsin Avenue, Madison, WI 53703
Phone: 800.922.5512
www.theedgewater.com
Rates: $139
Reservations must be made prior to June 25, 2010
Please reference M20000

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
- $1,300 Part II only - Past 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: 1-800/741-7416
(in Madison Fax 263-3163)

On Line: http://www.ocpd.wisc.edu
Click on course catalog

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 bring a sweater or jacket.

For Further Information
Teresa N. Thuemling
CQPI, 3134 ECB, 1550 Engineering Drive
Madison, WI 53706; phone: 608/890-0265 or
608/263-2520; tthuemling@cqpi.engr.wisc.edu

Amy Meyer
Office of Continuing Professional Development
2701 International Lane, Suite 208
Madison, WI 53704
phone: 303/362-1867, fax: 608/240-6040
ammeyer@ocpd.wisc.edu

Accreditation Statement
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.

Credit Designation Statement
The University of Wisconsin School of Medicine and Public Health designates this educational activity for a maximum of 36.75 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 (UCEA), authorizes this program for 3.675 continuing education units (CEUs) or 36.75 hours.

Policy on Disclosure
It is the policy of the University of Wisconsin School of Medicine and Public Health that the faculty, authors, planners, and other persons who may influence content of this CME activity disclose all relevant financial relationships with commercial interests in order to allow CME staff to identify and resolve any potential conflicts of interest. Faculty must also disclose any planned discussion of unlabeled/approved uses of drugs or devices during their presentation(s). Detailed disclosures will be made in the activity handout materials.

Elements of Competence
This CME activity has been designed to change patient care and systems-based practice, two of the six competencies embraced by the American Board of Medical Specialties.
Registration Form #3001 ame-cqpi

SEIPS Short Course on Human Factors Engineering and Patient Safety
Part I and Part II on Health IT
Part I: July 26-28, 2010 • Part II: July 28-30, 2010

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
☑ I request 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
☐ $1,300 Part II only - Past SEIPS 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

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, 702 Langdon Street, Madison, WI 53706
or Fax 1-800/741-7416 (in Madison Fax 265-3163).

Quotes from past course attendees:

“Thanks again for the exceptional experience. The class is really life/mind changing as evidenced by coming back to a potential event and my first thought was not, who messed up, rather I wonder what else was going on, how many lines were running etc, etc!”

“Thanks for all these materials, and thanks again for the wonderful course -I very much enjoyed it. So yes, the course has changed the way I look at things...”

“Thanks again for the great effort you put to organize an excellent course.”

“Thank you so much for the wonderful experience! The class has opened my eyes and re-charged my batteries.”

“Awesome course! Top-notch organization and instruction. Thank you for a successful and valuable week of learning!”

“Thank you so much for providing us an excellent course.”

“This is a tremendous short course. The instruction and resources you provided us are tremendously helpful.”

“What a great experience. I felt as though I had returned to college! The beautiful university setting, the outstanding professors...great course!”

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

The University of Wisconsin School of Medicine and Public Health fully complies with the legal requirements of the ADA and the rules and regulations thereof. If any participant in this educational activity is in need of accommodations, please notify Teresa N. Thuemling in order to receive service. Please call 608/263-2678.
Systems Engineering Initiative for Patient Safety (SEIPS) Short Course on Human Factors Engineering and Patient Safety • Part I and Part II on Health IT

Please Route to:
☒ PATIENT SAFETY OFFICER
☒ QUALITY IMPROVEMENT
☒ RISK MANAGEMENT
☒ MEDICAL INFORMATICS/IT
☒ INFECTION CONTROL

THE UNIVERSITY OF WISCONSIN–MADISON

July 26-30, 2010
Pyle Center, University of Wisconsin-Madison

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

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 Macroergonomics
- Design of the Physical Environment and Ergonomics
- Cognitive ergonomics
- And more...

**Part II: HFE & Health Information Technology**
- Usability of Health IT
- Impact of Health IT on Patient Care Processes
- Human Factors of Implementing Health IT
- And more...

For short course schedule and registration information go to: [http://cqpi.engr.wisc.edu/shortcourse_home](http://cqpi.engr.wisc.edu/shortcourse_home)