

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 comprehensively applying 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, Surgery, Pharmacy and Health Services Research.

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 system performance and safety, prevent harm when error does occur, help systems recover from error, and mitigate further harm.

Intended Audience and Scope of Practice

The educational activity is designed for all physicians, physician assistants, nurses, information technologists, research scientists, quality improvement specialists, pharmacists, CEOs, middle and upper managers, engineers, risk management professionals, infection control professionals, 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 (HFE)
- Describe the characteristics of a system and the implications for system design
- Understand the use of HFE to improve patient safety
- Summarize challenges to the application of HFE and patient safety
- Evaluate technology design and usability issues for patient safety
- Identify cognitive ergonomics issues for patient safety
- Explain organizational issues related to patient safety
- Explain the role of the physical environment in patient safety
- Identify issues related to workstation design and layout
- Apply methods for work system analysis
- Recognize the impact of teamwork and communication on patient safety
- Describe principles for work system redesign and change management

SEIPS Extended Part I - Human Factors and Sociotechnical Systems Engineering			
Day	Date	Time	Topic
Monday	7/15/13	7:00am-8:00am	Breakfast and Registration
		8:00am-5:30pm (breaks & lunch included)	<ul style="list-style-type: none"> • Introduction to Human Factors Engineering and Safety • Human Factors Engineering - Practical Applications • The Physical Environment • Introduction to the Case Study and an Application
		5:30pm-6:30pm	Reception and Poster Session
Tuesday	7/16/13	7:00am-8:00am	Breakfast and Conversation
		8:00am-5:30pm (breaks & lunch included)	<ul style="list-style-type: none"> • Cognitive Ergonomics • Technology Design and Usability • Usability Principles and Methods • Heuristic Evaluation of Health IT: An Application
Wednesday	7/17/13	7:00am-8:00am	Breakfast and Conversation
		8:00am-4:45pm (breaks & lunch included)	<ul style="list-style-type: none"> • Organizational Design and Resilience • Methods for Work System Analysis • Workstation Design and Layout • Case Study Preparation
		6:30pm-8:00pm	Reception
Thursday	7/18/13	7:00am-8:00am	Breakfast and Conversation
		8:00am-3:30pm (breaks & lunch included)	<ul style="list-style-type: none"> • Teamwork • Human Factors Engineering - A Provider's Experience • Case Study Poster Presentation • Organizational Change and System Redesign
		3:30pm-4:00pm	Wrap-up and Evaluation

Faculty



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Bascom Professor in Total Quality
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Madison, WI

General Information

Dates: July 15-18, 2013

Place: Lowell Center
610 Langdon Street
Madison, WI 53703

Phone: 608/256-2621

Conference Housing

Blocks of rooms are reserved at the DoubleTree Hotel. Please contact the hotel directly to reserve your accommodation. For further details, please visit http://cqpi.engr.wisc.edu/shortcourse_accommodation.

DoubleTree® Hotel – Madison

525 West Johnson Street, Madison, WI 53703

Phone: 608/251-5511 or 800.222.8733

www.doubletreemadison.com

Rates: \$129

Reservation link: http://doubletree.hilton.com/en/dt/groups/personalized/M/MSNDTDT-SEP-20130714/index.jhtml?WT.mc_id=POG

Reservations must be made prior to June 14, 2013. Please reference SEP.

Other Nearby Hotels:

Pending availability, rooms may also be available at the Lowell Center (608/256-2621) and the Dahlmann Campus Inn (608/257-4391). Please call the hotels to reserve your accommodation.

Conference Fees

- \$2,000 - first registrant from an organization
- \$1,700 - each additional registrant from the same organization

The conference fee includes the cost of tuition, materials, one 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

On Line: Go to www.ocpd.wisc.edu; click on "Course Catalog" near the bottom of the left column; scroll down the list of educational activities until you see the start date of 07/15/2013; select "SEIPS Short Course on Human Factors Engineering and Patient Safety; Extended Part I: Human Factors and Sociotechnical Systems Engineering."

By Mail: Return your completed registration form and payment (Step 4 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 265-3163)

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, 3124 ECB, 1550 Engineering Drive
Madison, WI 53706; phone: 608/890-0265 or
608/263-2520; tthuemling@cqpi.engr.wisc.edu

Danielle Hepting

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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 live activity for a maximum of 30.50 *AMA PRA Category 1 Credit(s)*[™]. Physicians should claim only the 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 3.05 continuing education units (CEUs) or 30.50 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/unapproved 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 learner competence and performance and focuses on the American Board of Medical Specialties area of systems based practice.

Registration Form

#9012 ame-cqpi

SEIPS Short Course on Human Factors Engineering and Patient Safety ▪ Extended Part I: Human Factors and Sociotechnical Systems Engineering

July 15-18, 2013

Please complete Steps 1-4 below in BLOCK letters

Step 1. Participant Information:

Name _____
First MI Last

Professional Degree (for credit & name badge) _____

Company Name _____

Dept. Name or Mail Code _____

Work Address _____

City, State, Zip _____

Day Phone _____

FAX _____

E-mail of registrant (required) _____

I request vegetarian options for my meals.

Step 2. Registration Fees:

\$2,000 - first registrant from an organization

\$1,700 - 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 _____

We no longer accept credit card payment on the day of the activity.

Step 3. Where did you learn about this short course? *Check all that apply*

Colleague Brochure Advertisement Internet Other _____

Step 4. Please return your payment with this form to:

CME Specialist, 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:

"Thank you so much! What a wonderful course. Eye opening, provoking, exciting! What a wonderful opportunity to network and learn from each other."

"Once again your focus on participant experience was exemplary! Thank you. Discussions of examples were very rich and helpful."

"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!"

"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 608/890-0265.

Center for Quality and Productivity Improvement
University of Wisconsin
3130 Engineering Centers Building
1550 Engineering Drive
Madison, Wisconsin 53706

**Systems Engineering Initiative for
Patient Safety (SEIPS) Short Course on
Human Factors Engineering and Patient
Safety ▪ Extended Part I: Human
Factors and Sociotechnical Systems
Engineering**

Please Route to:

- PATIENT SAFETY OFFICER
- QUALITY IMPROVEMENT
- RISK MANAGEMENT
- MEDICAL INFORMATICS/IT
- INFECTION PREVENTION

THE UNIVERSITY OF WISCONSIN-MADISON



July 15-18, 2013

Lowell Center, University of Wisconsin-Madison

**SEIPS Short Course on Human Factors
Engineering and Patient Safety
Extended Part I: Human Factors and
Sociotechnical Systems Engineering**

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

- Human Factors Engineering
- Sociotechnical Systems and Macroergonomics
- Cognitive Ergonomics
- Methods for Work System Analysis
- And more...

For short course schedule and registration information go to: **http://cqi.engr.wisc.edu/shortcourse_home**