COPI

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

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
- 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
- Ability to assess the physical environment for patient safety associated issues
- Give examples of physical environment issues and patient safety
- Improve workload management
- Identify human characteristics, capabilities and limitations
- Recognize challenges to the application of HFE and Patient Safety
- Attain skills in usability of HIT
- Understand impact of HIT on Patient Care Processes
- Promote human factors for implementing HIT

Schedule

SEIPS PART I		onday 8-18-08	
7:00-8:00am	Breakfast and Registration	D 0 1 0	
8:00-8:45am	Overview and Course Objectives	Dr. Pascale Carayon	
8:45-10:15am	What is Human Factors Engineering, What is an Error and What is a System-1	Dr. Ben-Tzion Karsh	
10:15-10:30am	Break		
10:30am-12:30pm	What is Human Factors Engineering, What is an Error and What is a System-2	Dr. Ben-Tzion Karsh	
12:30-1:30pm	Lunch	5 0 11 5 1	
1:30-2:45pm	Overview of Human Factors Engineering in Healthcare	Dr. Sue M. Bosely	
2:45-3:00pm	Break The District of the Dist	D.C.L.AL.	
3:00-5:00pm	The Physical Environment and Ergonomics	Dr. Carla J. Alvarado	
5:00-6:30pm	Reception	Attendees and Faculty	
7.00.0.00		uesday 8-19-08	
7:00-8:00am	Breakfast and Conversation	D. D. J. A. W.	
8:00-10:00am	Cognitive Ergonomics Break	Dr. Douglas A. Wiegmann	
10:00-10:15am 10:15am-12:00pm	Organizational /Job Design and Workload	Dr. Pascale Carayon	
12:00-1:00pm	Lunch	Di. rascaic Calayoff	
1:00-2:45pm	Technology Design and Usability-1	Dr. John W. Gosbee	
2:45-3:00pm	Break	2 jo 11. Gosbee	
3:00-4:00pm	Technology Design and Usability-2	Dr. John W. Gosbee	
4:00-5:00pm	Case Study Analysis	Attendees and Faculty	
		nesday 8-20-08	
7:00-8:00am	Breakfast and Conversation		
8:00-10:00am	Organizational Issues and the Role of the Healthcare Provider	Dr. Robert L. Wears	
10:00-10:15am	Break	Au 1 15 h	
10:15-11:45am	Team Activity and Poster Session	Attendees and Faculty	
11:30am-12:00pm	Wrap-up and Evaluations	Faculty	
12:00pm	Lunch		
SEIPS PART II	- HFE & Healthcare Information Technology Wed	nesday 8-20-08	
12:00-1:00pm	Lunch and Registration	,	
1:00-1:15pm	Overview and Course Objectives	Dr. Pascale Carayon	
1:15-2:15pm	Overview of Human Factors Engineering and	Dr. Robert L. Wears	
'	Healthcare Information Technology		
2:15-3:15pm	Human Factors Engineering Principles of HIT Design	Dr. Ben-Tzion Karsh	
3:15-3:30pm	Break		
3:30-4:30pm	Human Factors Engineering Principles of HIT Design	Dr. Ben-Tzion Karsh	
4:30-5:30pm	Usability Principles and Methods	Dr. Ann Schoofs Hundt	
5:30-6:30pm	i i i i i i i i i i i i i i i i i i i		
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Faculty



Pascale Carayon, PhD Director CQPI, Procter & Gamble Bascom Professor in Total Quality Industrial and Systems Engineering University of Wisconsin-Madison Madison, WI



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



James M. Walker, MD, FACP Chief Medical Information Officer Geisinger Health System Danville, PA



Sue M. Bosley, PharmD Medication Safety Pharmacist Saint Elizabeth Regional Medical Center Lincoln, Nebraska



John W. Gosbee, MD, MS Human Factors Engineering and Healthcare Specialist Michigan Health Systems Ann Arbor, MI



Ann Schoofs Hundt, PhD Research Scientist, CQPI University of Wisconsin-Madison Madison, WI



Ben-Tzion Karsh, PhD Associate Professor, Industrial and Systems Engineering University of Wisconsin-Madison Madison, WI



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



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



Douglas A. Wiegmann, PhD Associate Professor, Industrial and Systems Engineering University of Wisconsin-Madison Madison, WI

General Information

Dates: August 18-22, 2008 Place: Memorial Union 800 Langdon Street

Madison, WI 53706

Phone: 608/262-2511 **Fax:** 608/265-8299

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.doubletreemadison.com

Rates: \$159

Reservations must be made prior to July 18, 2008 Please reference CME-SEIPS

The Edgewater Hotel

666 Wisconsin Avenue, Madison, WI 53703 phone: 800.922.5512 www.theedgewater.com

Rates: \$129

Reservations must be made prior to July 17, 2008 Please reference ZZ0000

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 2004-2007 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.

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By Phone: 608/262-1397.

Please call and give your billing information or pay by MasterCard,

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By Fax: 1-800/741-7416

(in Madison Fax 265-3163)

On Line: http://www.ocpd.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 bring a sweater or jacket.

For Further Information

Dr. Carla J. Alvarado,

CQPI, 575 WARF, 610 Walnut Street Madison, WI 53726; phone 608/263-2678 or 608/263-2520; calvarado@cqpi.engr.wisc.edu

Amy Meyer

Office of Continuing Professional Development in Medicine and Public Health 2701 International Lane, Suite 208 Madison, WI 53704 phone: 608/240-2150, fax: 608/240-6040 ameyer3@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 37 AMA PRA Category 1 CreditsTM. 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 3.7 continuing education units (CEUs) or 37 hours.

Policy on Faculty and Sponsor Disclosure As a sponsor accredited by the ACCME, it is the policy of the University of Wisconsin School of Medicine and Public Health to require the disclosure of the existence of any significant financial interest or any other relationship a faculty member or a sponsor has with either the commercial supporter(s) of this activity or the manufacturer(s) of any commercial product(s) discussed in an educational presentation. Detailed disclosure will be made in the course handout materials.

SEIPS Short Course on Human Factors Engineering and Patient Safety ■ Part I and Part II

Part I: August 18-20, 2008 Part II: August 20-22, 2008	Part I: August	18-20,	2008	■ Part	II: August	20-22,	2008
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Please complete Steps 1-5 below in BLOCK letters	Quotes from
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□ \$1,250 Part II only - Past SEIPS Short Course Attendees	organization and instruction
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Systems Engineering Initiative for Patient Safety (SEIPS) Short Course on Human Factors Engineering and Patient Safety • Part I and Part II

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THE UNIVERSITY OF WISCONSIN-MADISON



August 18-22, 2008

Memorial Union, 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 2008)

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 Macroergonomic
- 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...

For short course schedule and registration information go to: www.fpm.wisc.edu/seips