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

June 24–27. 2004 University of Wisconsin–Madison 702 Langdon Street Madison, WI 53706–1487

GENERAL INFORMATION

Conference Fee

The conference fee of \$1250 (\$1000 for each additional registrant from the same organization) includes the cost of tuition, materials, a nonrefundable registration fee of \$75, an opening reception, three full breakfasts, refreshment breaks, and three lunches. Should you cancel your registration up to 72 hours prior to the short course, you will be refunded the entire short course fee except the \$75.00 nonrefundable portion of the fee. No refunds will be made after that time.

For further course information

For short course information please contact Dr. Carla J. Alvarado (Course Coordinator), CQPI, 575 WARF, 610 Walnut Street, University of Wisconsin–Madison, Madison, WI 53726; telephone (608) 263–2678 or (608) 263–2520. Email: *calvarado@cqpi.engr.wisc.edu*

SCHEDULE

Thursday, June 24, 2004	6:30-8:00 P.M. Registration and Reception,	
	Lakeside Room—Pyle Center	
Friday, June 25, 2004 AM	7:00–8:30 Breakfast and Conversation	
	7:30–8:30 Registration	
	8:30–9:00 Overview and Course Objectives	
	Dr. Pascale Carayon	
	9:00–10:00 Overview of Human Factors Engi-	
	neering and Patient Safety	
	Dr. Kerm Henriksen	
	10:00–10:45 Videotape	
	10:45–11:00 <i>Break</i>	
	11:00–12:00 What is Human Factors Engineer-	
	ing, What is an Error and What is a	
	System. Part One	
	Dr. Ben-Tzion Karsh	
Friday, June 25, 2004 PM	12:00–1:00 Lunch	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1:00–2:45 What is Human Factors Engineering.	
	What is an Error and What is a	
	System. Part Two	
	Dr. Ben-Tzion Karsh	
	3:00–5:00 Physical Environment	
	Dr. Carla Alvarado	
Saturday. June 26. 2004 AM	7:30–8:00 Breakfast and Conversation	
	8:30–10:30 Technology Design and Usability	
	Dr. John Gosbee	
	11:00–12:00 Cognitive Ergonomics, Part One	
	Dr. Pascale Caravon	
Saturday, June 26, 2004 PM	12:00–1:00 Lunch	
outur au// June 20/ 2001 1111	1:00–2:15 Cognitive Ergonomics. Part Two	
	Dr. Pascale Caravon	
	2:30–3:30 Physical Ergonomics	
	Dr. Carla Alvarado	
	3:30–4:30 Physical Ergonomics—Preventing	
	Injuries Using an Ergonomic	
	Approach	
	Dr. Bernice D. Owen	
Sunday, June 27, 2004 AM	7:30–8:00 Breakfast and Conversation	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	8:30–10:30 lob and Organizational Issues	
	Dr. Robert Wears and Dr. Pascale	
	Caravon	
	10:30–10:45 Break	
	10:45–12:00 The Role of the Healthcare	
	Provider	
	Dr. Robert Wears	
Sunday, June 27, 2004 PM	12:00–12:45 Wrap up and Evaluation and Box	
	lunch	
	Drs. Pascale Carayon, Carla	
	Alvarado and Ben-Tzion Karsh	

COPI

Founded in 1985, the University of Wisconsin Center for Quality and **Productivity Improvement (CQPI)** is

recognized for multidisciplinary research, requiring input and interaction from many different fields. Since its inception, CQPI has been at the forefront in the development of new techniques for improving the quality of products and processes. Today, the Center's Systems Engineering Initiative for Patient Safety (SEIPS) is also at the forefront of developing methods aimed at improving the quality of healthcare work processes, quality of working life, and quality of healthcare patient safety.

FACULTY



Carla J. Alvarado, Ph.D., Research Scientist CQPI (SEIPS Short Course Coordinator), University of

son

Arbor, MI

Wisconsin-Madi-

John W. Gosbee, M.D., M.S., Human Factors Engineering and Health Care Consultant, Ann



Ouality (AHRO), Rockville, MD Ben-Tzion Karsh, Ph.D., Assistant Professor, Industrial Engineering,

Pascale Carayon,

Ph.D., Professor, Industrial Engi-

neering and

Director CQPI, University of Wis-

consin- Madison

Kerm Henriksen.

Service Fellow.

Ph.D., Staff

Agency for

Healthcare

Research and



son Robert L. Wears, M.D., Professor, Emergency Medicine,

Bernice D. Owen,

Ph.D., R.N., Pro-

fessor Emeritus.

School of Nurs-

ing, University of

Wisconsin-Madi-



University of Florida College of Medicine

SPECIFIC LEARNING OBJECTIVES

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

- Identify the objectives of human fac-٠ tors 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
- Give examples of physical environment issues and patient safety
- Understand the aims, objectives and benefits of ergonomics

- Identify human characteristics, capabilities and limitations
- Define the scope of ergonomics and systems of work
- Recognize interfaces between job, • person and environment
- Develop solutions that are successful in reducing musculoskeletal injuries
- Set up a successful ergonomics process
- Attain skills in the HFE method of usability testing and how it fits into proactive risk assessment (e.g., FMEA) and problem investigation

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 (ACCME) through the joint sponsorship of the Center for Quality and Productivity Improvement, University of Wisconsin-Madison and The University of Wisconsin Medical School. The University of Wisconsin Medical School is accredited by the ACCME to provide continuing medical education for physicians.

- Credit Designation Statement: The University of Wisconsin Medical School designates this educational activity for a maximum of 17 category 1 credits toward the AMA Physician's Recognition Award. Each physician should claim only those credits that he/she actually spent in the activity.
- Continuing Education Units: This program is accredited by the University of Wisconsin, Continuing Medical Education, for up to 1.7 CEU's (17 hours). This credit applies to nurses, engineers, and other health professionals.

American Osteopathic Association, American Academy of Physicians Assistants: AOA and AAPA accept AMA category 1 for their credit requirements.

Conference Completion Report: You will be mailed a completion report 4 to 6 weeks after the conference.

Policy on Faculty and Sponsor Disclosure

It is the policy of the University of Wisconsin Medical School that the faculty and sponsor disclose real or apparent conflict of interest relating to the topics of this educational activity, and also disclose discussions of unlabeled/unapproved uses of drugs or devices during their presentation(s). Detailed disclosure will be made in the course handout materials.

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.

REGISTRATION

Register online at www.peopleware.net/2723 or use the form below.

SEIPS Short Course on Human Factors Engineering and Patient Safety

June 24-27, 2004

Circle one: Home or Business address

Web

Additional Options (check all that apply):

Yes, I prefer vegetarian meals

Yes, I plan on attending the reception June 24

Complete a separate registration form (or copy) for each registrant.

Name		
Company/Affiliation		

Address _

City/State/Zip

Daytime Phone Fax

E-mail ____

Registration Fees:

\$1,250 Full Short Course/First Registrant from an Organization \$1,000 Each Additional Registrant from the Same Organization

Total Enclosed

Checks payable to UW-Madison

- Check attached.
- Bill Purchase Order Number: _ \square
- Please charge on the following account:

VISA	Master Card	
Card Number _		
Exp. Date	Name on Card	
Signature		

If you have registration questions, please call CALS Outreach Services at 608-263-1672. No phone registrations please.

> Mail or fax this form to: UW-Madison CALS Outreach Services 620 Babcock Drive Madison, WI 53706 FAX: 608-262-5088

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

The University of Wisconsin Medical School 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 Dr. Carla J. Alvarado in order to receive service. Please call (608) 263-2678.

ACCOMMODATIONS

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

The Lowell Inn and Conference Center

University of Wisconsin–Extension 610 Langdon Street Madison, WI 53703-1195 Guest Room Reservations: 866-301-1753 Rate: \$70/single, \$80/double Reservations must be made prior to May 24, 2004.

Howard Johnson Plaza Hotel-Madison

525 West Johnson Street Madison, WI 53703-1993 Phone: 608-251-5511 Fax: 608-251-4824 Rate: \$89/single Reservations must be made prior to May 24, 2004.

The Campus Inn

601 Langdon Street Madison, Wisconsin 53703 Phone: 608-257-4391 or 800-589-6285 Fax: 608–257–2832 info@thecampusinn.com Rate: \$93/single Reservations must be made prior to May 7, 2004.



THE UNIVERSITY OF WISCONSIN–MADISON



June 24–27, 2004 Pyle Center University of Wisconsin–Madison Madison, WI

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

This 3 day course for professionals presents nationally recognized speakers discussing a variety of Human Factors Engineering and Patient Safety topics including:

- Human Factors Engineering
- Design of the Physical Environment
- Cognitive Ergonomics
- Sociotechnical Systems and Macroergonomics
- Technology Design and Implementation
- Job Design
- Physical Ergonomics
- Healthcare-related Case Studies

www.fpm.wisc.edu/seips/courses/coursehome.html

Jointly Sponsored by the University of Wisconsin Center for Quality and Productivity Improvement (CQPI) and the University of Wisconsin Medical School Office of Continuing Medical Education

E The College of Engineering University of Wisconsin-Madison

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

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

Please Route to:

- PATIENT SAFETY OFFICER
- QUALITY IMPROVEMENT
- INFECTION CONTROL PROFESSIONAL
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