

# Health Care TG News



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October 16-20, 2006, Hilton San Francisco Hotel

## 50th Annual Meeting of HFES Notes

With the 50th Annual Meeting fast approaching, this edition of the newsletter is to inform you of resources and details for the upcoming meeting. We look forward to seeing you in San Francisco! ~HCTG Executive.

### Meeting Registration

◆The Registration Information Booklet has been mailed to all HFES members, and is also available online at

<http://www.hfes.org/web/HFESMeetings/2006AMReg.html>

◆You can register and renew your membership online at

<http://www.signup4.net/Public/ap.aspx?EID=HFES10E%05>

◆The meeting will be held at the Hilton San Francisco Hotel. Reservations at the special group rate can be made at

[http://www.hilton.com/en/hi/groups/private\\_groups/sfofhhh\\_hfa/index.jhtml](http://www.hilton.com/en/hi/groups/private_groups/sfofhhh_hfa/index.jhtml)



## HCTG Annual Business Meeting

The HCTG Annual Business Meeting will be held on Wednesday, October 18th at 4:30 pm.

But it won't all be business. We'll have some food, great conversation, and award the Best Student Paper Prize. This is a great opportunity to meet other members of the TG, learn about the activities of the TG and meet the executives. We cordially invite all members and students to this meeting. No RSVP necessary!

## 50TH ANNUAL MEETING OF HFES HEALTH CARE TECHNICAL GROUP SESSIONS

This year we have a large collection of submissions covering a wide range of topics in health care. 42 submissions have been organized into 8 sessions plus poster sessions for the upcoming conference.

The Health Care TG sessions are organized as follows:

- ◆ HC1 - Understanding and Facilitating Collaboration in Healthcare (Invited Symposium)
- ◆ HC2 - Teams, Communication and Culture in Medical Care
- ◆ HC3 - Modeling and Decision Making in Healthcare
- ◆ HC4 - Adverse Events and Reporting Systems in Healthcare
- ◆ HC5 - Modes of Perception in Medical Tasks
- ◆ HC6 - Workflow, Interruptions and Information Exchange in Healthcare
- ◆ HC7 - Patients as Partners in Treatment (Invited Symposium)
- ◆ HC8 - Reports from the Field: Evaluation of Medical Equipment, Materials and Methods

In addition, there are three jointly sponsored sessions, organized in collaboration with the Environmental Design TG, with the Macroergonomics TG, and with the General Sessions. The first is a collection of investigations about evaluating medical environments and examining equipment that can produce medical problems. The second is an invited symposium on Macroergonomics and Patient Safety. The third is a panel discussing the Veterans Administration Medical System's error reporting system, MEDCAS.

- ◆ ED3 - Diagnosing Environments: Environmental and Medical Human Factors
- ◆ ME2 - Macroergonomics and Patient Safety (Invited Symposium)
- ◆ GS5 - Learning from Investigation: Reviewing the First Year of MEDCAS (Discussion Panel)

Additionally, a lunch-time "Birds of a Feather" session has been organized on the topic of "Cutting Edge Human Factors in International Healthcare: World Views."

### **BIRD Cutting Edge Human Factors in International Healthcare: World Views**

Wednesday October 18, 2006 12:15-1:15

Chair: F. Jacob Seagull, Co-Chair: Caroline Cao

1. Penelope Sanderson, View from Australia
2. Rhona Flin, View from UK
3. Ulrich Matern, View from Germany
4. Danny Gopher, View from Israel

The detailed schedule is listed on the next page. Sessions are scheduled as follows:

	Tues	Wed	Thurs	Fri
8:30-10:00		HC2	HC4	HC6
10:30-12:00			ED3	HC7
12:15-1:15		BIRD		
1:30-3:00		HC3	HC5	HC8
3:30-5:00	HC1		GS5/ME2	

## HCTG Sessions at 50th HFES

### HC1 Understanding and Facilitating Collaboration in Healthcare

Tuesday October 17, 2006. 3:30 PM - 5:00 PM

Chair: Cynthia Dominguez Co-chair: Yan Xiao

1. Jeffrey Brown "Multidisciplinary perspectives on collaborative care"
2. Ayse Gurses "A distributed cognition approach to understanding information transfer in mission critical domains"
3. Anna McHugh "Barriers and Facilitators of Common Ground in Critical Care Teams"
4. Christopher Nemeth "Managing Uncertainty: How Clinicians Preserve Care Continuity Through ICU Sign-Outs"
5. Emily Patterson "Structured Interdisciplinary Communication Strategies in Four ICUs: An Observational Study"

### HC2 Teams, Communication and Culture in Medical Care

Wednesday October 18, 2006. 8:30 AM - 10:00 AM

Chair: Ayse P. Gurses Co-chair: Sara Kramer

1. Yael Einav "The Justification and Benefits of Team Briefing in the Operating Room"
2. Rhona Flin "Experimental evaluation of a behavioural marker system for surgeons' non-technical skills (NOTSS)"
3. Ben-Tzion Karsh "Exploring the Determinants of the Provision of Quality Nursing Care"
4. Terry von Thaden "The Perception of Just Culture Across Disciplines in Healthcare"
5. Melanie Wright "Piloting Team Coordination Training at Duke University Health System"

### HC3 Modeling and Decision Making in Healthcare

Wednesday October 18, 2006. 1:30 PM - 3:00 PM

Chair: Emilie Roth Co-Chair: Munira Jessa

1. Meghan Dierks "Risk and Recovery in Complex Medical Domains: Use of Modeling Tools to Understand Hidden Interactions and Variations in Risk Across Different Phases of Care"
2. Rebecca Green "Medical Terminology and the Sources Used to Explore Unfamiliar Terms"
3. Calvin Ka Lun Or "The Patient Technology Acceptance Model (PTAM) for Homecare Patients with Chronic Illness"
4. Marc Resnick "The Influence of Resource Pressure on Medical Treatment Decisions"
5. Sara Waxberg "Is Residency Evaluation Score a Good Predictor of Success?"

### HC4 Adverse Events and Reporting Systems in Healthcare

Thursday October 19, 2006. 8:30 AM - 10:00 AM

Chair: Doug Weigmann

1. Samuel Alper "Violations in the medication administration process"
2. Kenneth Funk "A Methodology to Identify Systemic Vulnerabilities to Human Error in the Operating Room"
3. William Lee "WARD: An Exploratory Study of an Affective Sociotechnical Framework for Addressing Medical Errors"
4. Ido Morag "Development of a Novel Reporting System and Approach for Improving Healthcare Quality and Safety in Hospital Wards"
5. Kristopher Thornburg "Categorizing Adverse Medical Device and Medication Event Frequency"

### HC5 Modes of Perception in Medical Tasks

Thursday October 19, 2006. 1:30 PM - 3:00 PM

Chair: Caroline Cao Co-chair: Grace Zhou

1. Caroline Cao "Improving Depth Perception in Laproscopic Surgery Using Color-Contrasting Shadows"
2. Yukari Enomoto "Effects of Visualization Tools on Cardiac Telephone Consultation Processes"
3. Dawn Riddle "Integrating Instructional Strategies and Haptic Technologies to Enhance the Training Efficacy of an Army 91Q (Combat Medic) Medical Skills Training Simulation"
4. Ryan Schoonmaker "Vibrotactile feedback enhances force perception in minimally invasive surgery"
5. Alexandra Wee "Effect of Mnemonics in Learnability of Melodic Medical Alarms with Registered Nurses"

### HC6 Workflow, Interruptions and Information Exchange in Healthcare

Friday October 20, 2006 8:30 AM-10:00 AM

Chair: Greg Jamieson Co-chair: Andrea Cassano-Piche

1. Caroline Cao "Fixation and Attention Allocation in Anesthesiology Crisis Management: An Abstraction Hierarchy Perspective"
2. Sandra Garrett "Task Coordination and Group Foraging in Healthcare Delivery Teams"
3. Stephanie Guerlain "Converting to an Electronic Beside Flowsheet in the Pediatric Intensive Care Unit: the Effects on Workflow and Information Exchange"
4. Richard Sledd "Characterization of Sign-Out in Pediatric Acute Care Wards to Inform Process Improvement"
5. Douglas Wiegmann "An Empirical Investigation of Surgical Flow Disruptions and Their Relationship to Surgical Errors"

...Continued

**HC7 - Patients as Partners in Treatment**

Friday October 20, 2006 10:30 AM-12:00 PM

Chair: Helen Altman Klein Co-chair: Laura Militello

1. Markus Feufel "Facilitating the Use of At-Home Colorectal Screening Tests: The Effect of Cognitive and Motivational Instruction Manipulations"
2. Jamye Hickman "Doctor-Patient Communication: Guidelines for Improvements"
3. Devorah Klein "Medication Adherence: Many Conditions, A Common Problem"
4. Katherine Lippa "How Patients Understand Diabetes Self Care"
5. Vimla Patel Discussant

**HC8 - Reports from the Field: Evaluation of Medical Equipment, Materials and Methods**

Friday October 20, 2006 1:30 PM-3:00 PM

Chair: Ben-Tzion Karsh

1. Agnieszka Bojko "Eye Tracking Study on the Impact of the Manufacturer's Logo and Multilingual Description on Drug Selection Performance"
2. Jon Boyer "Development of a group-based exposure assessment strategy for characterizing physical workload in health-care workers"
3. Hui Dong "Pinch Forces and Instrument Tip Forces during Dental Scaling"
4. Munira Jessa "Human Factors Evaluation of Automatic External Defibrillators in a Hospital Setting"
5. Emily Seto "Usability Evaluations as Part of the Procurement Process: Case Study of Hospital Point of Care Carts"

**ED3 - Diagnosing Environments: Environmental and Medical Human Factors**

Thursday October 19, 2006 10:30 AM-12:00 PM

Chair: Nancy Stone

1. Scott Haynes "Use of a Wheelchair Seating System to Measure Postural Effects on User Comfort and Typing Performance"
2. Alan Hedge "Why does ergonomic furniture reduce but not eliminate musculoskeletal symptoms in offices?"
3. Sonja Koneczny "Combining checklists and staff surveys - a powerful tool to evaluate operating rooms"
4. Douglas Wiegmann "Identifying Systemic Factors that Impact Performance in the Cardiac Surgery Operating Room"
5. Teresa Zayas-Cabán "Health Information Maps: Combining Macroergonomics Concepts with Facilities Layout Tools"

**GS5 - Learning from Investigation: Reviewing the First Year of MEDCAS**

Thursday October 19, 2006 3:30 PM-5:00 PM

Chair: Christopher Nemet Co-chair: Richard Cook

1. Richard Cook
2. Jay Crowley
3. Meghan Dierks
4. Yoel Donchin
5. Christopher Nemeth
6. Emily Patterson
7. Tina Powell

**ME2 - Macroergonomics and Patient Safety (Invited Symposium)**

Thursday, October 19, 2006 3:30 PM-5:00PM

Chair: Carla Alvarado, Co-Chair: Pascale Carayon

**THE MICRO IN THE MACRO FOR ADDRESSING ERROR**

Marilyn Sue Bogner (Inst. for the Study of Human Error)

**NURSE SHADOWING**

Laurie Wolf (BJC HealthCare)

Bradley Evanoff, MD (Washington Univ School of Medicine)

**MACROERGONOMICS TASK ANALYSIS FOR CVC CANNULATION AND CARE**

Carla Alvarado (Univ of Wisconsin-Madison)

Kenneth Wood (Univ of Wisconsin Hospitals and Clinics)

Pascale Carayon (Univ of Wisconsin-Madison)

**CONSEQUENTIAL ANALYSIS OF EXISTING HAZARDS IN COMPUTER-BASED HEALTH INFORMATION TECHNOLOGY IN A HEALTHCARE ORGANIZATION**

Shawna Perry (Univ of Florida)

Robert Wears (Univ of Florida / Imperial College)

Nick Chozos (Univ of Glasgow)

Christopher Johnson (Univ of Glasgow)

Kristine Smith (Shands Jacksonville Medical Center)

**DEVELOPMENT OF A JOB TASK ANALYSIS TOOL FOR ASSESSING THE WORK OF PHYSICIANS IN THE INTENSIVE CARE UNIT**

Kara Schultz (Univ of Wisconsin-Madison)

Jason Slagle (Vanderbilt Univ School of Medicine)

Roger Brown (Univ of Wisconsin)\*

Steve Douglas (Univ of Wisconsin-Madison)

Brian Frederick (Univ of Wisconsin-Madison)

Manisha Lakhani (Univ of Wisconsin-Madison)

Jesse Scruggs (Univ of Wisconsin)\*

Bruce Slater (Univ of Wisconsin School\*)

Matthew Weinger (Vanderbilt Univ School of Medicine)

Kenneth Wood (University of Wisconsin School)\*

Pascale Carayon (University of Wisconsin-Madison)

\* denotes University of Wisconsin School of Medicine and Public Health