



REGISTRATION INFORMATION

September 27–October 1, 2010
 Hyatt Regency San Francisco
 Embarcadero Center, San Francisco, California, USA

WELCOME

We are excited to once again host the HFES Annual Meeting and to share San Francisco and the greater Bay Area with all of you. There is, of course, much to share. The Hyatt Regency San Francisco, Embarcadero Center, provides wonderful views of the Bay and easy access to many of the city's best restaurants, theaters, shopping venues, and attractions. Our technical program kicks off on a high note with our keynote speaker, Retired US Airways Captain Chesley B. ("Sully") Sullenberger. The Technical Program Committee, chaired by Cheryl A. Bolstad, offers a comprehensive program of posters, lectures, panels, and symposia covering all technical and research areas represented by the Society's 23 technical groups. Workshops and sessions will provide wonderful opportunities to expand your conference experience into a variety of domains and hot topics. The Host Committee, composed of students and professionals in the Bay Area, has arranged technical tours of some of the world's leading-edge technology companies. They are also here to guide you around both the meeting and the city. The HFES 54th Annual Meeting is a rare opportunity for scientific exchange among colleagues and friends. I hope your experience is memorable in more ways than one. On behalf of the Host Committee and HFES, I welcome you to San Francisco!

— Anthony D. Andre, Chair, 54th Annual Meeting Host Committee

54th Annual Meeting Host Committee

- Anthony D. Andre Chair
- James P. Beno Vice Chair
- Kermit G. Davis Host Relations
- Michael Lee Local Guide/Desk
- Lina Urdaneta
- Celeste R. Adamson Newsletter

"Sully" To Present Keynote

Retired US Airways Captain Chesley B. ("Sully") Sullenberger III, who masterfully landed Flight



1549 on the Hudson River on January 15, 2009, will deliver the keynote address on Tuesday, September 28, during the Opening Plenary Session. Among his other achievements, Sullenberger has performed accident investigation duties for the U.S. Air Force and served as an Air Line Pilots Association representative during a National Transportation Safety Board investigation and as an ALPA local air safety chairman. Seating is limited, so reserve your event ticket soon! See page 2 for registration details.

Tell a Nonmember Colleague:

Pay the full-week nonmember registration fee and get free HFES membership until December 31, 2011! See page 3 for details.

MEETING HIGHLIGHTS

Our Host Committee and Technical Program Committee have assembled a wide-ranging and comprehensive set of sessions and other events to meet attendees' needs for information, skill enhancement, and professional networking. On Monday, we will offer 13 hands-on workshops covering a range of topics. The Opening Plenary Session on Tuesday morning will feature the keynote address by retired Captain Chesley B. ("Sully") Sullenberger, the presidential address, the announcement of newly elected HFES Fellows, and the presentation of Society awards. From Tuesday through Friday, more than 130 technical sessions will address a diverse array of HF/E topics. The Preliminary Program, containing details about sessions, topics, and speakers, can be found on the HFES Web site, www.hfes.org/web/HFESMeetings/2010annualmeeting.html.

The Gala Opening Reception will be held on Monday evening at the Hyatt Regency. Your registration fee includes admission to the reception; guest tickets may be reserved at \$50 each. Register by **August 16** to take advantage of early-bird discounts. Online registration is available via the HFES Web site, or simply complete and mail the form provided in this booklet.

The On-Site Career Center will be available for employers and HFES member job seekers on Monday, September 27, from 1:00 to 6:00 p.m.; Tuesday and Wednesday, September 28 and 29, from 8:30 a.m. to 6:00 p.m., and Thursday, September 30, from 8:30 a.m. to 5:00 p.m. See page 14 for details about setting up meetings between prospective employers and candidates during the conference.

- Jennifer Umayam Student Lounge
- Gaye Graves Technical Tours
- Peter Nurske Public Relations
- John R. Morris
- Shanqing "S.Q." Yin Student Volunteer Coordinators

ACCOMMODATIONS AND TRANSPORTATION

Accommodations

Our headquarters hotel, the Hyatt Regency San Francisco, located at 5 Embarcadero Center, is in the heart of the financial district. The rooms are spacious, and most have excellent views, with features such as 32-inch flat-screen TVs, iPod docking stations, and Hyatt Grand Beds. There is a Regency Club option with a lounge at the top of the hotel and a 24-hour gym. The HFES group rate is \$225 per night, plus taxes, for single or double occupancy. The special rate is available until September 3, 2010, or until the room block is filled, so book your room early. Go to www.hfes.org/web/HFESMeetings/2010AnnualMeeting.html and click on the hotel reservation link.

Rooms for students have been blocked at The Mosser Hotel, located at 54 4th St., San Francisco, CA 94103, 7 blocks from the Hyatt Regency. The rate is \$109 per night, plus taxes, for single or double occupancy. The hotel offers complimentary light continental breakfast from 7:00 to 10:00 a.m. and complimentary Internet in the guest rooms. To reserve a room, call 800/227-3804 (Monday through Friday from 7:30 a.m. to 5:30 p.m. Pacific Time) or send an e-mail to reservations@themosser.com and mention HFES to get the group rate. The rate is available until September 3 or until the room block is filled.

It's a 15-minute walk from The Mosser Hotel to the Hyatt Regency, or catch a Muni F-line bus or BART at Market Street, which is half a block from The Mosser Hotel. Exit at Embarcadero.

Student Volunteers Cochair Shanqing ("S.Q.") Yin has set up a student roommate-matching service. If you need to find a roommate, send S.Q. an e-mail (hfes2010roommate@gmail.com) with "HFES Roommate Matching" in the subject line and include the following information in your message:

- ▶ name
- ▶ gender
- ▶ university you are attending
- ▶ phone number
- ▶ e-mail address
- ▶ dates of attendance
- ▶ housing preference (conference hotel, other hotel)
- ▶ preference for housing based on location (closest to conference) or rate (least expensive)
- ▶ maximum number of students per room

This information will be compiled in a master list, updated regularly, and sent only to students interested in the roommate-matching service. Students are responsible for selecting and contacting those who match their preferences and for making their own lodging arrangements.

Transportation

San Francisco is served by two airports. Located only 20–30 minutes from downtown, San Francisco International Airport (SFO) offers myriad domestic and international flights. Oakland

International Airport is located across the bay and is a smaller, easier airport to navigate with mostly domestic service. Taxis and shuttles are available from both airports, and SFO is served by BART (Bay Area Rapid Transit). The 30-minute ride costs \$8 each way. If you fly into Oakland, board an AirBART bus for a 3-mile ride to the Oakland Airport BART terminal. The 20-minute train ride into San Francisco costs less than \$5. Use the A1 exit from the Embarcadero BART Station, which leads directly to the entrance of the Hyatt Regency.

HFES members are entitled to discounted car rentals from Hertz (800/654-2210 in the U.S. and 800/263-0600 outside the U.S. or www.hertz.com, discount code CDP #1017806) and Alamo (800/354-2322 or www.alamo.com, discount code 558386, rate code BY, coupon code DH5B).

Hotel guest parking is \$50 per 24-hour period. Nearby parking is available for \$32/24 hours.

Traveling from Outside the United States

If you are traveling to the meeting to present a paper and your country is part of the U.S. Visa Waiver Program, or VWP (travel.state.gov/visa/temp/without/without_1990.html), you are required to obtain authorization from the U.S. Department of Homeland Security's Electronic System for Travel Authorization (ESTA) program. The ESTA requirement does not affect U.S. citizens returning from overseas, people from VWP countries traveling on a valid U.S. visa, or travelers from non-VWP nations.

To apply for ESTA authorization, go to <https://esta.cbp.dhs.gov/>.

REGISTRATION DETAILS

Annual Meeting Registration

Register online! You may register via the HFES Web site with payment by credit card, money order, or check. Go to www.hfes.org/web/HFESMeetings/2010annualmeeting.html and follow the link to the online registration form. Online registration will be available through October 1.

To take advantage of early registration discounts of up to \$100, you must register by **August 16** (not applicable for workshop-only or student registrations). **NOTE:** You must provide an e-mail address when using the online registration form so HFES can send you a confirmation. (HFES will never release your e-mail address.) All registrations (except for those attending only Monday workshops) include admission to technical sessions and the Gala Opening Reception. Workshops and tours require payment of a separate fee (see pages 4–10). Fax registrations are accepted with check, credit card, or money order; fax the form to 714/957-9112.

HFES does not accept purchase orders or cash. Please make payment by credit card, money order, or check.

HFES members: To receive the member rate on registration, you must enter your five-digit membership ID number. Contact Member Services (membership@hfes.org, 310/394-1811, fax 310/394-2410) for your login ID or member number. See the next page for details about renewing your membership.



Nonmembers: Your full-week nonmember registration fee entitles you to free HFES membership through December 31, 2011! See below for more information.

Proceedings: Both one-day and full-week registrants will receive the proceedings CD-ROM. CD-ROMs are not included with workshop-only registration. The proceedings will not be available in paper form, but attendees will have access to workstations for viewing and printing papers from the CD-ROM.

Students: Students must validate their registration by presenting a current student/university ID when checking in at the meeting registration desk. 2010 graduates may register at the student rate only with a 2010 student ID.

Guests: Tickets to the Gala Opening Reception for guests may be purchased during preregistration for \$50 each. Guests who wish to attend the Opening Plenary Session for the Sullenberger keynote may register for tickets at \$10 each. Seating is limited, and priority will be given to HF/E professionals and students.

Workshop-only registration: If you plan to attend only a Monday workshop, you need not pay the one-day meeting registration fee (see pages 6–10 for separate workshop fees). The Gala Opening Reception is not included in workshop-only registration.

HFES Membership Dues Payment

2010 Dues: To be eligible for the member registration fee, your 2010 dues must be paid, and you must provide your five-digit membership ID number on the online or printed Registration Form. If you have not yet paid your 2010 dues, please log in at hfes.org and select the option “Renew my dues for 2010.” With online renewal, you may pay via a secure credit card transaction, check, or money order; however, if you pay by check, your payment must be received and processed before you can register for the Annual Meeting as a member. You may also renew your 2010 membership by contacting HFES at membership@hfes.org or 310/394-1811.

2011 Dues: You may prepay your 2011 dues when you register for the meeting by completing and returning the 2011 Dues Renewal Form in this packet or by contacting HFES at 310/394-1811, membership@hfes.org. Include your dues payment on line 2 of the Registration Form and send your Membership Renewal Form to the address on the Registration Form. Again, your 2010 dues must be paid to take advantage of the member discount on Annual Meeting registration.

NOTE: If you did not pay 2009 dues, please contact HFES directly (membership@hfes.org, 310/394-1811) to reinstate your membership.

Free Membership With Full-Week Nonmember Registration

This year, your nonmember registration fee for the full week entitles you to free Affiliate or Student Affiliate membership in HFES through December 31, 2011. Your membership includes online-only subscriptions to *Human Factors*, *Ergonomics in Design*, the *Directory and Yearbook*, and the HFES Digital Library-Archive. Plus, you're entitled to discounts on other HFES publications and services. View the complete list of membership benefits at the Membership link at hfes.org.

Affiliate members: You may apply to change your membership category at any time by logging in to your record with your username and password and selecting the option “Request a change in my membership category.” For more information, go to www.hfes.org/Web/Membership/member.html.

Refunds and Cancellations

Refunds for workshops, social events, or professional tours that are sold out or canceled will be provided within four weeks after the meeting. No cash refunds will be made on site.

Persons who have preregistered but are unable to attend the Annual Meeting may obtain a refund of fees paid, less a \$100 processing fee, ONLY if their cancellation request is received in writing by 5:00 p.m. Pacific time on **September 3, 2010**. Requests should be sent to the Annual Meeting Registration Office, 1231 Dyer Rd., Suite 240, Santa Ana, CA 92705; by e-mail to registration@meetingplanners.com; or by fax to 714/957-9112. Refunds will not be granted for ANY cancellation requests received after this date.

STUDENT EVENTS AND ACTIVITIES

Student Career and Professional Development Day

Students: Join us on Monday, September 27, for a full-day program devoted to topics of interest to you! Details will be provided in the on-site program.

Student Reception

The annual Student Reception will be held on Tuesday, September 28, from 5:00 to 6:00 p.m. (location to be announced in the final program). A cash bar and light snacks will be provided, and the winners of the Student Member With Honors and Outstanding Student Chapter awards will be announced.

Student Lounge

All students are welcome to visit the Student Lounge to relax, meet other students, discuss research ideas, and use the bulletin boards. In the lounge, students can also participate in mentoring activities and view student chapter information. The location and hours will be provided in the program booklet at the Annual Meeting.

Student Volunteers

Students with confirmed volunteer assignments will receive details about their duties before the meeting and will be directed to check in at the Volunteers Desk located near meeting registration (see the on-site program) 30 minutes before their assigned time.



SPECIAL PROGRAMS

In addition to tours, workshops, and technical sessions, the following special programs are open to all attendees.

Human Performance in Extreme Environments

The Society for Human Performance in Extreme Environments (HPEE) will hold its Eighth Annual Meeting on Sunday and Monday, September 27 and 28, 2010, in conjunction with the HFES 54th Annual Meeting. The HPEE meeting will feature presentations on topics such as spaceflight, military operations, underwater and high-altitude activities, extreme sports, and other environments that humans are not naturally suited to endure. Meeting proceedings will be available.

Register online at www.hpee.org. HFES members are entitled to a discounted rate.

National Ergonomics Month Session

October is National Ergonomics Month! All HFES annual meeting attendees and their guests are invited to a special 90-minute NEM session, to be held on Monday, September 27, from 4:45 to 6:15 p.m., immediately preceding the Gala Opening Reception. HFES leaders will share their vision for NEM 2010. The session will showcase outstanding NEM projects involving schools, community service, and the media. The session will also feature several entertaining and informative interactive demonstrations illustrating HF/E principles. Come ready to participate, have fun, and win prizes!

SOCIAL EVENTS

Sign up for Special Events on the Registration Form using the code found at the beginning of each event (e.g., #S1). Events are reserved on a first-come, first-served basis with receipt of fully paid registrations.

#S1 ▶ Gala Opening Reception

Monday, September 27, 6:30 to 9:30 p.m.
No charge for registered attendees; guest tickets available for \$50

Join friends and colleagues at the Hyatt Regency San Francisco for this festive kickoff reception. See old friends and meet new ones while you enjoy beverages and delicious food.

#S2 ▶ First Timers & Fellows Reception

Monday, September 27, 5:30 to 6:30 p.m.
No charge for registered attendees

If this is your first HFES Annual Meeting, you won't want to miss this opportunity to meet some of the field's leading professionals in an informal setting.

#S3 ▶ Opening Plenary Session

Tuesday, September 28, 8:00 to 10:00 a.m.
No charge for registered attendees; Plenary-only tickets available for \$10

This year's plenary features the keynote address by "Sully" Sul- lenberger, as well as presentation of awards, newly elected Fellows, and the presidential address. Admittance is by ticket, included in registration materials for registered attendees. Seating is limited.

#S4 ▶ Student Reception

Tuesday, September 28, 5:00 to 6:00 p.m.
No charge for registered attendees

If this is your first HFES Annual Meeting, you won't want to miss this opportunity to meet some of the field's leading professionals in an informal setting.

TECHNICAL TOURS

Tickets for Technical Tours

For those technical tours not sold out in advance, tickets may be purchased during the meeting at the HFES Registration Desk during the following hours: Sunday, September 26, 3:00 to 6:00 p.m.; Monday and Tuesday, September 27 and 28, 7:00 a.m. to 6:00 p.m.; Wednesday, September 29, 7:30 a.m. to 5:30 p.m.; and Thursday, September 30, 7:30 a.m. to 12:00 noon. No waiting lists will be established; tickets will be sold on a first-come, first-served basis.

Sign up for Technical Tours on the Registration Form using the code found at the beginning of each event (e.g., #T1). Tours are reserved on a first-come, first-served basis with receipt of fully paid registration. Tours not meeting a minimum attendance by September 3 are subject to cancellation.

#T1 ▶ Google Inc. – Mountain View

Tuesday, September 28, 11:30 a.m. to 4:30 p.m., \$20, includes lunch

Maximum attendance: 30; must be 18 or older. ADA accessible; comfortable walking shoes recommended. Requires signed nondisclosure agreement; citizens of countries embargoed by the United States not permitted on tour (Cuba, Iran, North Korea, Sudan, Syria). No indoor photography or other recording.

Googlers may appear to be laid back, but there's no disputing the high energy and inspiration that emanates from the Mountain View, California, headquarters. This is where Google developed its mission to organize the world's information and make it universally accessible and useful. The company has since expanded to more than 60 offices worldwide, but Mountain View remains Google's largest engineering and research and development center, enriched by the diversity of the backgrounds, perspectives, and talents of more than 10,000 Googlers. This tour will showcase some of the facilities and culture that make Google unique, including the high-density work clusters, massage rooms, replica



spaceship, mass transportation system, and one of Google's 21 usability labs. The tour will be followed by short presentations and new product demos from the User Experience Research team. After the walking tour, enjoy lively discussions and a complimentary all-you-can-eat lunch at Google's café.

#T2 ▶ Autodesk, Inc.

Wednesday, September 29, 10:15 a.m. to 12:15 p.m., no charge for registered attendees (short walk to facility) Maximum attendance: 60. ADA accessible; comfortable walking shoes recommended. No photos permitted in the user research lab observation room.

Since it introduced AutoCAD software in 1982, Autodesk, Inc., has become a world leader in 2-D and 3-D design, engineering, and entertainment software for the manufacturing, building and construction, and media and entertainment markets. From bridges and buildings to Academy Award-winning visual effects, Autodesk continues to develop the broadest portfolio of state-of-the-art software to help customers experience their ideas digitally before they are built. On this tour you will visit the Autodesk Gallery at One Market in San Francisco, which celebrates the design process that takes a great idea and turns it into a reality. With more than 20 exhibits regularly on display that showcase the innovative work of Autodesk customers, the gallery illustrates the role that technology plays in great design and engineering. Included is a guided tour of the exhibits, many of them interactive, as well a tour of the San Francisco Autodesk user research lab.



All Photos: San Francisco Convention & Visitors Bureau

#T3 ▶ NASA Ames Research Center

Wednesday, September 29, 12:00 noon to 6:00 p.m., \$35 Maximum attendance: 40; must be U.S. citizen and 18 years or older. ADA accessible; comfortable walking shoes recommended. Provide name, affiliation, and country of citizenship when registering. Drivers license must be shown on site. No photography or other recording.

Founded in 1939, NASA Ames is one of the nation's premier research labs that supports NASA's missions and the nation's Vision for Space Exploration. At Ames, the Human Systems Integration Division (formerly known as the Human Factors Division) advances human-centered design and operations of complex aerospace systems through analysis, experimentation, and modeling

of human performance and human-automation interaction to make dramatic improvements in safety, efficiency, and mission success. Internationally known for its expertise in crew resource management, vision, fatigue countermeasures, human performance modeling, virtual environments, human-computer interaction, display design and automation, the division is the largest human factors research lab within NASA, and perhaps the country. In addition to the research labs in the Human Systems Integration Division, the tour is expected to include some combination of the following facilities: the FutureFlight Central air traffic control tower simulator, flight simulators in the Crew-Vehicle Systems Research Facility, the Vertical Motion Simulator, and the 20-G Centrifuge.

#T4 ▶ IDEO

Thursday, September 30, 9:00 a.m. to 1:00 p.m., \$20 Maximum attendance: 30. ADA accessible; comfortable walking shoes recommended. No photography or recording.

IDEO is a leading design firm with studios worldwide. IDEO designs products, services, environments, media, and experiences for organizations seeking new ways to provide value for their customers. It creates strategies for innovation and executes all aspects of design and development, from conception and strategy through production. Staff members identify opportunities for innovation by understanding latent user needs, technology factors, and business requirements for success. Potential solutions are evaluated through user observation and iterative rapid prototyping. IDEO's multidisciplinary teams include specialists in human factors research, business strategy, communications design, industrial design, interaction design, environments design, and engineering. The Palo Alto tour will include a visit to the design labs and a description of IDEO's process and conversation about innovation methods and practices.

#T5 ▶ Walt Disney Family Museum

Thursday, September 30, 1:30 to 5:00 p.m., \$38 Maximum attendance: 30. ADA accessible; comfortable walking shoes recommended. No photography or recording; bags and packages subject to search.

The fascinating story of Walt Disney—whose artistry, creations, and vision helped define 20th-century American culture—has been brought to life at the Walt Disney Family Museum in San Francisco. The building, located within the Presidio, is a historic former army barrack that was renovated and upgraded by architecture firm Page & Turnbull of San Francisco, with interior architecture and installations designed by the Rockwell Group. The museum's visually exciting design illuminates Walt Disney's groundbreaking technological innovations, which revolutionized animation and enhanced story, character development, and color using dimensionality and original music to improve his storytelling. The museum moves visitors chronologically through the historical experience using artifacts as well as listening stations, interactive displays, and other technologies. Prior to entering the museum, visitors will hear a presentation by the architectural, design and/or museum staff, who will recount the challenges, successes, and lessons learned while creating the visitor's experience of all that was Disney.



WORKSHOPS

Sign up for workshops on the Registration Form by selecting the appropriate number. Indicate second choice where applicable. Workshop fees include handout materials. **ALL WORKSHOPS ARE ON MONDAY, September 27.** Attendance is limited to 40 persons per workshop. Workshops may be canceled if minimum attendance is not achieved by September 3.

Expertise levels are as follows: **Beginner** has no prior knowledge or experience; **Novice** is acquainted with the topic but has no detailed knowledge; **Experienced** has good working knowledge with hands-on experience; **Expert** has extensive knowledge and experience.

Materials for workshops will be provided prior to the meeting. Attendees are encouraged to bring their own laptops to view the materials (except for Workshop 7, in which one laptop will be provided for every three attendees). Unless otherwise stated during the workshop, **Internet access is not provided.**

All registered workshop participants automatically receive Continuing Education Units (CEUs) from North Carolina State University, an authorized International Association for Continuing Education Training (IACET) provider. Earn 0.3 unit for half-day workshops and 0.6 unit for full-day workshops. Proof of CEU credit may be obtained after the meeting by ordering a transcript from NCSU (\$10; details provided with the workshop handouts). **Note:** NCSU requires a date of birth for each participant. This information will be shared only with NCSU.

The names and contact information (including e-mail addresses) of preregistered workshop attendees will be provided to the presenters of the workshops for which attendees have registered, in the event that presenters wish to contact attendees prior to the event. If you do not wish to have your contact information shared for this purpose, please notify HFES in writing via fax (310/394-2410) or e-mail (lois@hfes.org).

Monday, September 27 Morning Only, 8:30 a.m. to 12:00 noon

WK1 ▶ A "Whys" Approach to Back Injury Prevention

R. J. Banks, State Compensation Insurance Fund

LEVEL: Novice, Experienced, Expert. FEE: \$225 members, \$275 nonmembers, \$125 students.

Back injury prevention fails to be effective when the traditional methods focus on changing worker behavior. Realizing this, the developers of California's State Fund's Back Connection® created a process of getting workers to participate in risk identification using a picture-based method called the Risk Analysis Process or "card sort." Workshop participants will use the electronic card sort on the Back Connection DVD to analyze a job. Participants will then propose and evaluate solutions to mitigate risk factors. The computer-based program features an interactive toolbox containing tools for an effective back injury prevention process, cost-benefit analysis, root cause analysis, and training, including videos, "toolbox talks," and documentation, all in English and Spanish. Anyone who is responsible for developing and maintaining an

effective back injury prevention program will benefit from this workshop, which gives participants the tools they need to take their program from a task approach to a systems approach. A working knowledge of basic ergonomics principles is recommended. Participants must bring a Windows-based laptop in order to work with the DVD. (Administrative access must be permitted on laptops that run Windows Vista so the User Account setting can be changed.)



WK2 ▶ The Impact of Culture on User Experience

Shatha N. Samman, Global Assessment

LEVEL: Beginner, Novice. FEE: \$225 members, \$275 nonmembers, \$125 students.

This workshop aims to provide attendees with practical, useful human factors and usability guidelines for designing an international or multinational workplace and marketplace. Participants will first learn the ABCs of culture in terms of the attitudinal, behavioral, and cognitive dimensions of cross-cultural differences (e.g., the importance of nonverbal communication in issues related to trust and persuasion). They will then learn how to apply this knowledge to conduct a cognitive task analysis on international users, with consideration for which approaches are best suited to the targeted user's cultural cognitive dimension. Participants will also learn how to apply these principles and guidelines in designing and evaluating user experiences for their respective global users. This workshop will be beneficial for all professionals who design for the international market, research cross-cultural similarities/differences, and interact with cross-cultural colleagues in multinational companies. No prerequisite knowledge is necessary for this workshop.



Monday, September 27
Afternoon Only, 1:30 to 5:00 p.m.

WK3 ▶ **Macro-cognition Metrics and Scenarios:
Design and Evaluation for Real-World Teams**

Emily S. Patterson, Ohio State U.; Janet E. Miller, 711th Human Performance Wing/Human Effectiveness Directorate; Emilie M. Roth, Roth Cognitive Engineering

LEVEL: Beginner, Novice, Experienced. FEE: \$225 members, \$275 nonmembers, \$125 students.

The workshop presenters recently completed an edited book on advances in macro-cognition methods and measures for real-world teams. The short definition of macro-cognition is how cognition adapts to complexity, with an emphasis on cognition in real-world settings supported by information technology and people in specialized roles. The focus of this workshop will be translating selected measures and scenario design techniques for the unique needs of workshop participants in their professional settings. Measurement skills to be learned are macro-cognitive measures for rigor in information analysis, planning and plan execution, and expertise in problem recognition. Additional scenario design techniques to be covered include how to augment the complexity of existing scenarios for humans-in-the-loop simulations to evaluate software and training interventions. The intended audience for this workshop is practitioners who need to measure objectively in an evaluation whether a proposed intervention (e.g., new display, decision aid, training program) will impact human and/or team performance in a real-world setting. The workshop should be valuable for the beginning to experienced range, with no prerequisite knowledge.



WK4 ▶ **Communications Analysis for Assessing Collaboration**

Nancy J. Cooke, Arizona State University; Jamie Gorman, Cognitive Engineering Research Institute

LEVEL: Novice. FEE: \$225 members, \$275 nonmembers, \$125 students.

Communication data provide rich accounts of collaborative behavior and, though easily collected, are not as easily analyzed. There are many pitfalls and leverage points in communication analysis. This workshop will focus on the pragmatics of communication analysis for assessing collaboration. Instructors will convey tips, guidelines, and lessons learned from over a decade of experience analyzing communications including voice, e-mail, and text chat. Issues associated with collection, formatting, transcribing, coding, and interpretation of communications data will be covered with respect to the analysis of communication content and patterns of interaction (flow), as well as static summaries and dynamic sequences. Sample data will be analyzed, and participants will have the opportunity to relate methods to a problem of their own. Participants will gain an understanding of the communication analysis problem space (i.e., what to use and when) and skill needed to effectively develop a communication analysis plan suited to their problem. Participants are encouraged to bring samples of communication data to the workshop that can serve as an example in the discussion and provide a context for relevant take-home guidance. Participants are expected to have a basic understanding of experimental design and statistics (correlation, probability) but need not have experience working with communication data. This workshop is especially suited to individuals who are new to communication analysis (i.e., novices) but does not require experience working with communication data. Many of the techniques, tools, and procedures discussed in this workshop are also applicable to the analysis of more generic sequential event data. The workshop is appropriate for researchers and practitioners in a variety of domains. Those working on problems of team performance, human-systems integration, macroergonomics, groupware, team training, cognitive engineering, human-computer interaction, cognitive modeling, or augmented cognition may be interested in this topic.

Monday, September 27
All-Day Sessions, 9:00 a.m. to 4:30 p.m.

WK5 ▶ **Cognitive Crash Dummies: Predictive Human
Performance Modeling for Interactive System Design**

Bonnie John, Carnegie Mellon University

LEVEL: Beginner. FEE: \$375 members, \$425 nonmembers, \$175 students.

Why is Google like the Carlsbad Police Department? They have both reported using predictive human performance models, aka *cognitive crash dummies*, to guide system design. Just as crash dummies in the automotive industry save lives by testing the physical safety of automobiles before they are brought to market, cognitive crash dummies save time, money, and potentially even lives by enabling designers of computer-based systems to test their design ideas before implementing them. Cognitive crash dummies



are engineering models of human performance that can make quantitative predictions of human behavior using proposed systems without waiting for empirical studies on running prototypes. Scores of research papers and practical experience have demonstrated the accuracy and value of such models in the 25 years since they were introduced in *The Psychology of Human Computer Interaction* (Card, Moran, & Newell, 1983). Today there are tools that support modeling; it can be taught effectively in a few hours to participants without requiring expertise in computational modeling. This workshop will review the state of the art of predictive modeling in HCI. Participants will use their own laptops to build a storyboard of an interactive system using *CogTool* and create a model of skilled performance time on that storyboard. Peer review will provide an opportunity for discussing storyboard and modeling options and trade-offs. The workshop will end with a review of other tools currently available and a look to the future of predictive modeling.



WK6 ▶ Human-Centered Systems Engineering: How to Design, Develop, and Validate Human-Centered Products, Processes, and Services

George M. Samaras, Samaras & Associates, Inc.

LEVEL: Novice, Experienced, Expert. FEE: \$375 members, \$425 nonmembers, \$175 students.

Products, processes, and services exist solely because their uses by humans have real or perceived value (utilitarian or aesthetic). This is the fundamental justification and rationale for human-centered development, which provides the greatest long-term return on investment and lowest total cost of ownership. Systems engineering (SE) is a structured, systematic approach to the conceptualization, design, development, deployment, and replacement of products, processes, and services. Classical SE, in existence since the early 1900s, is one of the oldest agile methods. The presenter will discuss the fundamental state space, lifecycle, technical, and management activities in the context of microergonomics (tools for individuals) and macroergonomics (tools for organizations). The concept of human-centered system complexity (from physical and behavioral to social and cultural considerations) will be presented, followed by a detailed discussion of the relevant me-

trology. Human-centered SE presents a rather large set of factors for experimental verification and validation studies. Experimental design approaches, historically used by engineers, are very inefficient given large numbers of factors. The presenter will discuss the fundamental principles of experimental design and the modern approaches (statistical design of experiments, or DOE) that are useful for product, process, and/or service verification and validation studies. DOE will be visually presented using its underlying, simple geometric structure. Participants are required to bring their own laptops.

WK7 ▶ Human Performance Modeling and Simulation

John Keller, Alion Science & Technology, MA&D Operation

LEVEL: Beginner, Novice, Experienced. FEE: \$375 members, \$425 nonmembers, \$175 students.

The purpose of this workshop is to provide individuals who are considering the use of computer modeling and simulation of human performance with an understanding of what simulation is, when it might be useful, and what specific considerations and approaches should be used when using simulation to solve problems within the context of system design. Participants will perform a series of hands-on exercises with prebuilt Micro Saint Sharp human performance models. They will learn how models are used to solve real-world design problems, including evaluating the necessary word recognition rate to make computer speech input more efficient than mouse input and determining the optimal makeup of a team, given task demands and function allocation. Also, they will receive hands-on model-building experience through the construction of a simple model to evaluate the cognitive workload issues of driving while using a cell phone. Following each exercise, participants will engage in brainstorming sessions focused on how they might use each technique in their own human performance analyses.

WK8 ▶ Sitting in the Hot Seat: How To Be an Effective Human Factors/Ergonomics Expert Witness

Marc Resnick, Florida International University; Andrew Le Cocq, Consultant; H. Harvey Cohen, Error Analysis, Inc.; David Thompson, Portola Associates, Inc.

LEVEL: Beginner, Novice, Experienced. FEE: \$375 members, \$425 nonmembers, \$175 students.

This workshop will provide human factors/ergonomics professionals with an overview of the legal domain and an understanding of how HF/E practice must be tailored to work within the unique confines of the litigation process. The workshop will cover the entire scope of forensic practice, including dealing with attorneys, conducting forensic investigations, crafting expert reports, and testifying in deposition and trial. Participants will learn many of the "tricks of the trade" that are required to be an effective forensic expert. A unique twist of this workshop is the extensive use of mock interactions. Each module will include a simulated experience that demonstrates the topics covered. Participants may ask their own questions to see how the expert responds in real time or to suggest answers to difficult questions. Each simulation will start with the presenters asking novices for their input. Then, the more experienced in the audience will be invited to contribute. Finally, the presenters will respond and then discuss the different answers.



The workshop is intended for individuals who have expertise in human factors tools and techniques. It will focus on how these practices must be modified to maximize their effectiveness in the legal domain. Students are also encouraged to attend, with the understanding that they need to develop their HF/E credentials before a career in forensics practice would be feasible. Attendees are encouraged to submit expert reports in advance so they can be critiqued in real time during the workshop.

WK9 ▶ Workshop on Falls: Walkway and Stairway Evaluations

Daniel A. Johnson, Olympia, Washington; Jake Pauls, Jake Pauls Consulting Services

LEVEL: Beginner, Novice, Experienced. FEE: \$375 members, \$425 nonmembers, \$175 students.

Design, construction, and maintenance flaws in stairs result in about 3 million medically treated injuries each year in the United States. There is a need to develop standard methods for measuring pedestrian hazards. There is a lack of knowledge even among professionals in the field of safety and forensics as to how to accurately determine if a change in level is dangerous, a surface is too slippery, or a stairway is too steep or irregular. Participants will learn important information that will help them when they investigate fall cases. They will learn the latest on when, where, how, and why falls occur. There will be discussions and demonstrations of the various methods for taking measurements on difficult surfaces, such as trip hazards caused by broken, sloped, and irregular sidewalks. Methods of measuring slippery surfaces will also be discussed, and the use of one of the most common devices, the Variable Incident Tribometer, will be demonstrated. Participants will learn how to accurately measure step geometry and handrail graspability, height, location, and shape. The latest research will be discussed, as will the requirements set forth in building codes and ANSI standards. Attention will be paid to the question of why home stairways are being built to lower safety standards than other stairways.

WK10 ▶ Questionnaire Design

William F. Moroney, U. of Dayton

LEVEL: Beginner, Novice. FEE: \$375 members, \$425 nonmembers, \$175 students.

Anyone can write a questionnaire, but not necessarily well. This workshop provides practitioners with the skills they need to properly design questionnaires. Participants will be introduced to critical issues in questionnaire design; the development, use, and advantages/disadvantages of questionnaires; questionnaire development strategies; scale selection; and ways of evaluating questionnaires. A flow chart of the questionnaire design process and a checklist to evaluate the quality of questionnaires will be provided. Web-based questionnaires, basic statistical analysis, and the presentation of results are discussed; however, time constraints preclude addressing sampling and advanced statistical analyses. Participants will gain a greater appreciation for the complexity involved in developing and employing questionnaires properly. They will evaluate and correct a problematic questionnaire. Finally, they will be provided with information about sources of questionnaires that can be adapted to meet their needs. An annotated bibliography and references will be provided.

WK11 ▶ Online Usability Testing: Moving Beyond the Lab

Tom Tullis & Donna Tedesco, Fidelity Investments

LEVEL: Beginner, Novice, Experienced. FEE: \$375 members, \$425 nonmembers, \$175 students.

Online (unmoderated) usability testing is a cost-effective, efficient, and reliable method for collecting qualitative and quantitative data from hundreds or thousands of users simultaneously. It is an increasingly popular method for measuring the holistic user experience with a product, especially Web sites and applications. This workshop will give participants the skills they need to conduct an online study from start to finish—including planning, design, implementation, analysis, and presentation of results. This includes topics such as determining when to use online testing, tips for scheduling and recruiting for studies, task and question construction, choosing a vendor tool or utilizing discount approaches to implementation, piloting and launching the study, preparing and analyzing data, and presentation tips. Although the most common application of online studies is in the evaluation of Web sites, the presenters will also discuss and explore applications of the method to other types of systems and products. The intended audience for this workshop is professionals within the human factors and usability fields who have a basic understanding of typical in-lab usability testing techniques.



Hyatt Regency San Francisco

WK12 ▶ Task Structure Modeling and Flow Analysis: From Verbal Data to Practical Implications

Avi Parush, Carleton U.

LEVEL: Novice, Experienced. FEE: \$375 members, \$425 nonmembers, \$175 students.

Task analysis is a commonly practiced family of techniques that can be applied to various ends in various contexts. It typically requires collecting user data; compiling, organizing, and preparing



the data for analysis; performing the analysis; and drawing the relevant conclusions and implications. Organizing the collected data in a way that will allow the transition to task modeling and analysis and extracting practical implications is often a challenge. This workshop will provide the opportunity to review, have hands-on practice, and discuss the process of organizing verbal data (e.g., from interviews, comments) using several task structure modeling perspectives, performing the analysis, and drawing practical implications. The workshop will be beneficial to professionals who perform analyses for the design and testing of human-machine and human-computer systems, job design, selection, training, and human error and safety applications.

WK13 ▶ Design Creation and Development: Design Chautauqua 2010

Steven M. Belz, AT&T; Brian Stonecipher, CONTINUUM; Barry Katz, IDEO Product Development; Heather Reavey, CONTINUUM

LEVEL: Novice. FEE: \$375 members, \$425 nonmembers, \$175 students.

The Design Chautauqua draws its name from the highly popular education movement in the late 19th and early 20th centuries. Just as the original Chautauquas brought together specialists from a variety of backgrounds to share ideas and experience, the Design Chautauqua seeks to expose the human factors/ergonomics professional engaged in product design to the practices and methodologies employed by other design professions. This year's Chautauqua focuses on design creation and development. This all-day design experience will provide participants with an opportunity to gain perspective from leading professionals in the area of design creation and development. The morning session will be a hands-on introduction to Design Thinking led by Barry Katz. Design Thinking involves combining creativity and rationality to meet user needs and support business success. Heather Reavey, an envisioner, will lead the afternoon session by introducing participants to various methods for creating or envisioning early design concepts and discussing the role that envisioning plays in product development. Brian Stonecipher will then share methods for evaluating abstract concepts very early in the design process. Participants should have an educational or practice-based background that includes HF/E.

TECHNICAL SESSIONS

The preliminary program for the HFES 54th Annual Meeting is available via a link from the main meeting page, www.hfes.org/web/HFESMeetings/2010annualmeeting.html. It can be searched by author name, keyword in title, technical group, and date/time. The itinerary builder assists in creating a personal schedule for the meeting.

Don't Miss "Usability and HCI Day"

The Computer Systems Technical Group has partnered with the Internet Technical Group and the 2010 Host Committee to bring you a full day of events devoted to usability and human-computer interaction. BayCHI members: Sign up for the day or week and get 10% off. (HFES members not eligible.) Here's the lineup on Wednesday, September 29:

Head to Head: Remote Usability Testing Takes on Live Usability Testing in the HFES Ultimate Fight Challenge

Remote usability testing is emerging as a popular approach through which evaluators can test technology interfaces on a large number of participants quickly and inexpensively. Two types of remote studies have been employed, either with a moderator interacting remotely with the participant or in an unmoderated format. This session is a novel format that pits the two in a head-to-head challenge using audience participants, who will be able to decide for themselves the advantages and disadvantages of each method. **8:30–10:00 a.m.**

Harvesting Innovation in the Industry: Prescriptions for Breakthrough Products

This panel will bring together human factors leaders from some of the most innovative companies in the technology domain. They will present how their companies have achieved such high levels of innovation and how this impacts the practice of human factors. **10:30 a.m.–12:00 noon**

Blasphemy or Pragmatics? When NOT to Follow User-Centered Design Techniques

This invited panel brings together several high-profile members of the HCI community for an exciting, if not controversial, discussion and debate. Each is well versed in the principles and best practices of user-centered design, user experience research, and design innovation. How do they respond to the emerging topic of when NOT to use conventional user-centered design techniques? **1:30–3:00 p.m.**

Networking Event

The Computer Systems Technical Group and Internet Technical Group will hold a networking event starting at **3:30 p.m.**

Other Don't-Miss Sessions

Early Morning Madness

HFES will be introducing something new this year: short "madness" presentations to kick off each day of the 2010 Annual Meeting. These Madness sessions will consist of 25-second previews of full talks, providing an overview of the day's presentations to help you decide which ones to attend. An invitation and instructions on how to participate in Madness will be sent to all authors prior to the Annual Meeting. Madness presentations will be captured on video. The idea for Madness comes from our friends at CHI. Come get a preview of the day's presentations to see which ones you don't want to miss. Come for the fun and energy of Early Morning Madness! **Tuesday, September 28, 7:00–7:45 a.m.; Wednesday through Friday, September 29–October 1, 7:15 to 8:00 a.m.**

A Debate: Is There Low-Hanging Fruit in Medical Human Factors?

Does human factors and ergonomics have anything to contribute to patient safety and health care practices? Most people would say yes. However, there is great controversy as to the form the contribution can take. The results of this debate may help focus health care human factors professionals toward the most productive approaches for influencing health care and patient safety. **Thursday, September 30, 10:30 a.m.–12:00 noon**



OTHER FEES

HFES Membership Payment

HFES members: If you would like to prepay your 2011 membership dues when you pay for meeting registration, please fill out the **2011 Membership Renewal Form** found on page 13 at www.hfes.org/web/HFESMeetings/2011DuesPaymentForm.pdf and enter the dues amount on subtotal line 2 below. Mail or fax the completed form to the address below. The member registration discount is available only to those who have paid 2010 dues. If you have not paid 2010 dues, please go to **hfes.org** and log in using your member number and password to complete your 2010 renewal, or call HFES at 310/394-1811. You may also prepay your 2011 dues at the HFES Web site or by calling HFES.

Subtotal #2 (HFES dues) \$ _____

Guest-Only Tickets

No. tickets	Subtotal
Please reserve _____ guest tickets to Gala Opening Reception (Sept. 27) × \$50/each = \$ _____	
Please reserve _____ guest tickets to Opening Plenary Session (Sept. 28) × \$10/each = \$ _____	
Subtotal #3 (Guest-Only Tickets)	\$ _____

Technical Tours (See http://www.hfes.org/web/HFESMeetings/HFES2010_TechTours.pdf for descriptions and fees.)

Tour # _____ \$ _____	Tour # _____ \$ _____
Tour # _____ \$ _____	Tour # _____ \$ _____
* Country of citizenship for T3 _____	
Subtotal #4 (Technical tours)	\$ _____

Workshops (See http://www.hfes.org/web/HFESMeetings/HFES2010_Workshops.pdf for descriptions and fees.)

All workshops take place on Monday, September 27. Indicate your selections (maximum of two events) on the lines below. Please indicate alternate selections below in the event your first choice is sold out. **NOTE:** Your date of birth is required for workshop CEU registration. This information will be shared only with North Carolina State University, our CEU provider.

Workshop 1 2 3 4 5 6 7 8 9 10 11 12 13

Selection #1: _____ \$ _____ Alternate selection #1: _____

Selection #2: _____ \$ _____ Alternate selection #2: _____

* Date of Birth: _____ (* required for Workshops only)

Subtotal #5 (Workshops)

TOTAL PAYMENT

Recap of fees due:

#1. Registration Fees \$ _____

#2. 2011 Membership Payment \$ _____

#3. Guest-Only Tickets \$ _____

#4. Technical Tours \$ _____

#5. Workshop Fees \$ _____

TOTAL FEES DUE TOTAL AMOUNT PAID \$ _____

TAKE ADVANTAGE OF THE EARLY REGISTRATION DISCOUNT. Forms must be postmarked and accompanied by payment no later than 5:00 p.m. Pacific time on **Monday, August 16, 2010.** Register by check (only U.S. dollars drawn on a U.S. bank), money order, or credit card.

Check one of the following:

Check/Money Order (payable to Human Factors and Ergonomics Society) MasterCard VISA American Express

Name on card: _____ Signature: _____

Card number: _____ Expiration date: _____

Billing zip/postal code: _____

Fax registrations are accepted with credit card payment only. Do not send cash. Sorry, we cannot accept registrations over the phone. Refunds for sold-out or canceled tours, workshops, or special events will be made after the meeting. **Registration refunds will be made only for written requests received by 5:00 p.m. Pacific time on September 3, 2010** (less a \$100 processing fee).

Send payment and this form to: HUMAN FACTORS AND ERGONOMICS SOCIETY
Annual Meeting Registration Office, 1231 E. Dyer Rd., Suite 240, Santa Ana, CA 92705

FAX (credit card payment only): 714/957-9112

HOTEL RESERVATIONS

To reserve a hotel room at the Hyatt Regency San Francisco at the special meeting rate, go to www.hfes.org/web/HFESMeetings/2010annualmeeting.html and click the hotel reservation link.



Human Factors and Ergonomics Society 54th Annual Meeting

September 27–October 1, 2010, San Francisco, California, USA

- ▶ In order to register for the 54th Annual Meeting at the member rate, your 2010 dues must be paid. If you have not paid 2010 dues, please go to **hfes.org** and log in with your username and password to complete your 2010 renewal, or call HFES at 310/394-1811.
- ▶ You may use this form to prepay your 2011 dues at the same time you pay your Annual Meeting registration fees. (You may also prepay 2011 dues online at **hfes.org**.)
- ▶ Dues for 2011 cannot be accepted unless you are a current member.
- ▶ Membership is for the calendar year (January 1–December 31).
- ▶ Transfer the total membership dues payment to the Annual Meeting Registration Form, Subtotal line 2.
- ▶ **Fax this completed form along with your Registration Form to 714/957-9112.**

Full name (Please print): _____

Member number: _____

Daytime telephone: _____

E-mail: _____

A. Membership Dues

FULL MEMBER, FELLOW, ASSOCIATE, AND AFFILIATE

2011 Membership Dues	\$195	\$ _____
2011 Contributing Member	\$293	\$ _____
2011 Supporting Member	\$390	\$ _____
2011 Sustaining Member	\$900	\$ _____

STUDENT AFFILIATE MEMBER

To requalify for this rate, you must still be a full-time student at an accredited college or university. Current student ID is required at the meeting.

School: _____

Anticipated degree (e.g., MS, PhD): _____

Month and year of graduation: _____

2011 Student Affiliate membership dues: \$35 \$ _____

TRANSITIONAL ASSOCIATE MEMBER DUES

If you are (a) graduating this year and are a current member of HFES or (b) in your first year of Transitional membership, you are eligible for a 50% discount off the regular dues.

2011 Transitional Associate membership dues: \$98 \$ _____

TOTAL "A" MEMBERSHIP DUES \$ _____

B. Technical Groups

CHECK THE TGS YOU WISH TO JOIN OR RENEW

Aerospace Systems	\$6	\$ _____	AS
Aging	\$5	\$ _____	A
Augmented Cognition	\$4	\$ _____	AC
Cognitive Engineering and Decision Making	\$6	\$ _____	CE
Communications	\$6	\$ _____	C
Computer Systems	\$4	\$ _____	CS
Education	\$4	\$ _____	E
Environmental Design	\$3	\$ _____	ED
Forensics Professional	\$5	\$ _____	FP
Health Care	\$4	\$ _____	HC
Human Performance Modeling	\$5	\$ _____	HP
Individual Differences in Performance	\$4	\$ _____	ID
Industrial Ergonomics	\$4	\$ _____	IE
Internet	\$0	\$ _____	I
Macroergonomics	\$5	\$ _____	ME
Perception and Performance	\$5	\$ _____	PP
Product Design	\$6	\$ _____	PD
Safety	\$6	\$ _____	S
Surface Transportation	\$5	\$ _____	ST
System Development	\$5	\$ _____	SD
Test and Evaluation	\$5	\$ _____	TE
Training	\$4	\$ _____	T
Virtual Environments	\$5	\$ _____	VE
TOTAL "B" TECHNICAL GROUPS DUES		\$ _____	

C. Periodical Delivery/Subscription Options

Periodical	Online	Print	Online + Print
<i>Human Factors</i>	<input type="checkbox"/> \$0 or	<input type="checkbox"/> \$0 or	<input type="checkbox"/> \$50
<i>Ergonomics in Design</i>	<input type="checkbox"/> \$0 or	<input type="checkbox"/> \$0 or	<input type="checkbox"/> \$30
Subscription to <i>JCEDM</i> (quarterly)	<input type="checkbox"/> \$95 or	<input type="checkbox"/> \$105 or	<input type="checkbox"/> \$126
<i>Human Factors</i> Online + Print delivery option			\$ _____
<i>EID</i> Online + Print delivery option			\$ _____
Subscription to <i>JCEDM</i>			\$ _____
TOTAL "C" PERIODICAL DELIVERY/SUBSCRIPTION OPTIONS			\$ _____

D. Totals

Total "A": 2011 Membership dues	\$ _____
Total "B": HFES Technical Groups dues	\$ _____
Total "C": Periodical Delivery/Subscription Options	\$ _____
TOTAL "A/B/C" MEMBERSHIP DUES PAYMENT	\$ _____

Transfer the amount from TOTAL "A/B/C" above to the Subtotal line 2 on the Annual Meeting Registration Form.



HFES Career Center

Online and On-Site Employment Services Exclusively for Human Factors/Ergonomics Professionals

Online Database of Jobs and Candidates

▶ EMPLOYERS ONLINE

If you are an employer seeking full- or part-time staff or interns, HFES offers the leading online Career Center devoted exclusively to human factors/ergonomics professionals all over the world.

To recruit top HF/E professionals, visit our Web site at www.hfes.org/Web/CareerCenter/Career.aspx and post a job, search the résumés, or do both. Candidates searching the database can send their résumés directly to your desktop.

▶ CANDIDATES ONLINE

This service is for HFES members only! Post your résumé at www.hfes.org/Web/CareerCenter/Career.aspx and search our database of available jobs. If you see a job posting that interests you, you can e-mail your résumé directly to the employer. If you prefer to remain anonymous, the “Confidential” selection protects your identity until you choose to become known to the employer.

On-Site Career Center at the HFES Annual Meeting

At each HFES Annual Meeting, the on-site Career Center provides an outstanding opportunity for employers and job seekers to meet informally and in prearranged interviews. The Career Center is open only to those registered at the meeting.

▶ CAREER CENTER HOURS:

Monday, Sept. 27 — 1:00 p.m. to 6:00 p.m.
 Tuesday–Wednesday, Sept. 28 and 29
 — 8:30 a.m. to 6:00 p.m.
 Thursday, Sept. 30 — 8:30 a.m. to 5:00 p.m.

▶ EMPLOYERS ON SITE

Active subscribers to the HFES online Career Center may reserve a booth or table at the on-site Career Center. Download a reservation form at hfes.org or call or e-mail HFES at 310/394-1811 or placement@hfes.org.

Employers are encouraged to post job openings on the HFES Web site by **August 31, 2010**. This will provide candidates the time to search the database and employers the time to review résumés and schedule meetings with potential candidates. **The scheduling of formal or informal interviews at the HFES Annual Meeting is the sole responsibility of the employer.**

▶ CANDIDATES ON SITE

Only HFES members may post résumés, search for jobs, and participate in the Career Center. Prior to the Annual Meeting, candidates looking for a job or seeking new career opportunities are encouraged to post their résumés and search for jobs on the HFES Web site <http://hfes.org>.

If you plan to be available for interviews at the HFES 54th Annual Meeting, bring copies of your résumé to the meeting and check the HFES Web site to see a listing of the employers who will be conducting interviews during the Annual Meeting.