



## INSIDE HFES

### Candidates for 2014 Election of Officers

Following a formal nominations process earlier this year, the following HFES members have qualified for the 2014 election of officers. Full Members and Fellows of HFES have received voting instructions for the election, which concludes on August 8.

#### President-Elect

- **William S. Marras**, The Ohio State University
- **Scott A. Shappell**, Embry-Riddle Aeronautical University
- **Joel S. Warm**, U.S. Air Force Research Laboratory

#### Secretary-Treasurer-Elect

- **Bruce Bradtmiller**, Anthrotech, Inc.
- **Christopher B. Mayhorn**, North Carolina State University
- **Robert G. Radwin**, University of Wisconsin, Madison

#### Executive Council Member At-Large (two positions)

- **Ann M. Bisantz**, University at Buffalo, State University of New York
- **Sara J. Czaja**, University of Miami School of Medicine
- **Kermit G. Davis**, University of Cincinnati
- **Waldemar Karwowski**, University of Central Florida
- **Raja Parasuraman**, George Mason University
- **James L. Szalma**, University of Central Florida

Full voting members who have received neither an e-mail notification nor a printed ballot should contact HFES at 310-394-1811 or [vote@hfes.org](mailto:vote@hfes.org).

## ANNUAL MEETING

### Welcome to Chicago: “The Windy City”

*By Cara Quinlan, HFES Communications Associate, and Steve Marlin, HFES Meeting Planner*

HFES is excited to welcome you to Chicago for the 2014 International Annual Meeting, to be held October 27–31. By any name – “The Windy City,” “Chi-Town,” or “City of Broad Shoulders” – Chicago is one of the great cities of America. It has the third-largest population in the United States, behind New York and Los Angeles.

Located on the southwestern shores of Lake Michigan, the city is traversed by the Chicago and the Calumet Rivers, which wind between some of the tallest skyscrapers in the country, including the former Sears Tower.

Chicago is an international hub for finance, commerce, industry, technology, telecommunications, and transportation. Its great shopping (Magnificent Mile on Michigan Avenue) and amazing restaurant offerings are superb.

The city is famous for outdoor public art and myriad attractions, including world-famous museums, the Shedd Aquarium, Navy Pier, and Second City comedy troupe.

### **Transportation**

Chicago is serviced by O'Hare and Midway Airports, the former of which is the second-busiest airport in the world. There is extensive train service to Chicago from throughout the country. Amtrak is offering a 10% discount off the lowest available rail fare to Chicago for the Annual Meeting. For more information, click [here](#).

### **Accommodations**

Hyatt Regency Chicago, the host hotel, is the hallmark property of the Hyatt chain. Located a mere block from Michigan Avenue in the heart of the city, the hotel provides HFES with wonderful meeting facilities. [Book your room](#) and take advantage of special HFES Annual Meeting rates (\$259/night for single or double occupancy). The HFES rate applies until October 3 or when the block is sold out.

A small number of rooms are available at [U.S. government rates](#). Upon arrival, those who have reserved a government-rate room must show valid government-issued identification to be eligible for this rate.

### **Technical Sessions**

Under the direction of Technical Program Committee Chair Christopher B. Mayhorn, the Society's 23 technical groups have developed an exciting and informative program that includes a balance of lectures, panels, symposia, demos, and posters. This year, special invited sessions have been organized by leaders of some of the technical groups.

### **Tours**

The Technical Tours Subcommittee (Samuel Alper, Mary Basel, and Lori Hoener) has arranged interesting and informative tours that showcase Chicago's thriving HF/E community:

- Northwestern University's Physical Therapy and Human Movement Sciences Department: Discover research at the forefront of the development of novel rehabilitation approaches, including movement impairments and neuroimaging, rehabilitation robotics, and musculoskeletal imaging.
- GfK's Chicago UX Labs: Explore creative solutions and methodologies for capturing HF/E insights in challenging environments and use scenarios.
- Northwestern Memorial HealthCare: Visit the simulation center, listen to an overview of hospital programs in safe system design, and enjoy an informative guided hospital tour.

Sign up for tech tours when you [register online](#).

### **Special Events**

HFES Fellows, early-career professionals, students, and first-time attendees are invited to special networking receptions. These events will reconnect you with colleagues and enable you to make new connections with others who share your passion for the discipline. The First-Timers

and Fellows' Reception will be held on Monday, October 27, from 5:30 to 6:30 p.m., just prior to the Gala Opening Reception, which takes place from 6:30 to 9:30 p.m. All student attendees are invited to the Student Reception on Tuesday, October 28, from 5:00 to 6:00 p.m. The Early-Career Professionals Reception will be held on Wednesday, October 29, from 5:30 to 7:00 p.m.

### **Student Community**

We invite student attendees to participate in a variety of networking and educational opportunities:

- Student Lounge provides a relaxing atmosphere for networking, socializing, and learning from guest speakers.
- Student Career and Professional Development Day is a full-day program on Monday, October 27, geared toward helping students prepare for their careers.
- Student Reception features refreshments, camaraderie, and award presentations on the evening of Tuesday, October 28.
- [Mentoring Luncheons](#) provide students and early-career professionals with information and opportunities to develop mentoring relationships with established professionals.

### **On-Site Career Center**

The On-Site Career Center provides an outstanding opportunity for employers and job seekers to meet informally and in prearranged interviews. If you plan to be available for interviews, bring copies of your résumé to the meeting and check [hfes.org](http://hfes.org) often for updates of employers who will be on site.

### **Mobile Meeting App**

The mobile program app offers a quick and easy way to browse the full technical program, add events to the in-app personal schedule, post tweets, and more. Download information will be available in early October.

### **Stay Connected**

We encourage you to share your experiences at the meeting! Follow us on Twitter [@HFES](https://twitter.com/HFES) via your mobile device and feel free to live-tweet photos, videos, comments, or questions using the hashtag #hfes2014.

### **Experience the City**

HFES has provided a convenient [online guide](#) to Chicago's best attractions, restaurants, and tours to help you make the most of your stay.

We look forward to seeing you at the 2014 Annual Meeting!

## **NRC's Board on Human-Systems Integration Panel To Address Safe Patient Handling**

*By Nancy Cooke, Chair, Board on Human-Systems Integration*

Be sure to attend the special Annual Meeting session presented by The National Research Council's Board on Human-Systems Integration (BOHSI) on Tuesday, October 28. Formerly known as both the Committee on Human Factors and the Committee on Human-Systems Integration, BOHSI was established to better equip the National Research Council in its efforts to assist the federal government concerning issues of national policy that involve human factors and human-systems integration (HSI) approaches.

A panel of BOHSI members and topical experts will discuss the application of HSI to safe patient handling, an issue of growing concern given the high rate of injuries during patient-handling activities. Panelists include Barbara Wanchisen, Nancy Cooke, Barbara Silverstein, William Marras, Pascale Carayon, Sara Czaja, Kate McPhaul, and David Rempel. The focus of the panel will be on issues related to the scope of the problem, an HSI perspective on patient handling, and the design and implementation of programs for safe patient handling and mobility. The panelists would like to engage those in attendance to assist with identifying HSI issues, gaps, and possible solutions concerning safe patient handling and mobility.

## National Ergonomics Month Best Action Plan Submissions!

By Joseph R. Keebler, NEM Committee Cochair



The year is halfway through – and before you know it, we will be in Chicago for the Annual Meeting. This year marks the 11th anniversary of National Ergonomics Month (NEM).

We invite you to submit your NEM Action Plan related to outreach in your community. This plan can consist of workshops, volunteer work, community service, or any other activity that aids in presenting HF/E to the general public. (General information and past winners can be found [here](#).)

To participate in the 2014 contest, please include the following information in a Microsoft Word file and e-mail it as an attachment to [joseph.keebler@wichita.edu](mailto:joseph.keebler@wichita.edu) by early August.

- Title of your action plan.
- Proposer name(s), address, e-mail, and daytime phone number.
- Names of other professionals and/or students participating in organizing or implementing your action plan.
- Whether the entry is on behalf of an official local or student chapter. If so, please specify the chapter name.
- Brief description of your action plan. What activities are planned?
- Timeline for your action plan. When will you be implementing it?
- Goal(s) of your action plan. What do you seek to accomplish?
- What audience(s) are you targeting (e.g., community, students, corporations, government)?

I look forward to receiving your submissions!

## Visit the 2014 On-Site Career Center

Employers and job seekers can take advantage of the HFES On-Site Career Center to meet informally and in prearranged interviews at during the 2014 Annual Meeting in Chicago. The Career Center will be open at the following times:

- Monday, October 27, 1:00 to 6:00 p.m.
- Tuesday and Wednesday, October 28–29, 8:30 a.m. to 6:00 p.m.

- Thursday, October 30, 8:30 a.m. to 5:00 p.m.

Subscribers to the [online Career Center](#) may reserve interview booths, tables, or both at the On-Site Career Center. Download a [reservation form](#), or contact us at 310/394-1811 or [careercenter@hfes.org](mailto:careercenter@hfes.org).

In order to conduct on-site interviews, employers must have a current job posting or be registered to search résumés during the Annual Meeting (October 27–October 31). Employers are encouraged to post job openings in the [online Career Center](#) by **October 7, 2014**. This will provide candidates the time to search the database and give employers time to review résumés and schedule meetings with potential candidates. HFES assists with the scheduling of interviews at the On-Site Career Center, but final scheduling remains the sole responsibility of the prospective employer.

Candidates looking for a job or seeking new career opportunities are encouraged to post their résumés and search for jobs in the [online Career Center](#). Résumé posting and job searching are for HFES members only.

If you plan to be available for interviews at the Annual Meeting, bring along copies of your résumé and visit the [online Career Center](#) to see a listing of employers conducting interviews during the Annual Meeting. Check back often, as this list will be updated frequently.

## **Please Join Us for User Experience Day 2014**

*By Marc Resnick, Program Chair, Internet Technical Group*

On behalf of the User Experience Day Executive Team, I invite you to join us for the third annual User Experience (UX) Day, which will take place on October 29. UX Day is a dedicated track of programming specifically designed for user experience (UX) professionals. We have invited several related organizations from around Chicago, and we expect UX professionals from around the world to enjoy this year's fun and informative program. Among the slate of activities are technical sessions, professional activities, and social events. The full schedule is as follows:

- 8:30 a.m. – Keynote Address: John Roa, CEO of AKTA, will present “Starting Up in the New Era of Human Factors.”
- 10:30 a.m. – Expert Panel: Five leading visionaries will present their ideas and answer your questions on the topic of “Future Visions of User Experience.” The session is sponsored by Honeywell Corporation.
- 12:00 noon – Several UX professionals will join the mentoring lunch to provide insights on UX career opportunities. Lunch is sponsored by Monterey Technologies.
- 1:30 p.m. – The User Experience Day Best Paper Competition features the four best papers, which are entered for the chance to win \$1,000 and, more important, the honor of receiving this prestigious award, sponsored by United Technologies.
- 3:30 p.m. – The Leadership Development Workshop is an invitation-only event that brings together some of the most promising early-career professionals in UX with current leaders in the field for an interactive session on professional development. The workshop is sponsored by Design Interactive.
- 4:30 p.m. – In perhaps the most important hour of the day, anyone interested in helping us plan User Experience Day 2015 can join us for the launch meeting, where we set our strategy for the coming year.
- 5:30 p.m. – Capping the day is a short trip down the street to the World of Whirlpool's beautiful rooftop meeting room for a happy hour and networking reception. We will announce several awards and enjoy fantastic food and drink graciously provided by Whirlpool Corporation.

For more information or to RSVP for the happy hour, please visit our Web site at <http://userexperiencedayhfes.com>.

## **Reserve Your Seat for the 2014 Mentor-Mentee Luncheons**

*By Haydee M. Cuevas, Coordinator, Mentor-Mentee Luncheons*

In the Society's continuing commitment to support mentoring as a vital and valuable professional service, a series of mentor-mentee luncheons will be held during the Annual Meeting to assist students, early-career professionals, and those in career transition to develop mentoring relationships with established professionals in the field. The luncheons will be held from 12:00 noon to 1:30 p.m. on Tuesday, Wednesday, and Thursday, October 28–30. Complimentary lunch will be provided to attendees (limited to 25).

Celebrating its tenth year, this luncheon series has provided mentoring opportunities for almost 700 HFES members as well as nonmembers. Previous participants have represented a “who's who” of some of the Society's most distinguished members, with representatives from top companies and universities. We expect many such professionals to join us this year, with different professionals participating each day.

To keep the luncheons intimate and informal, attendance will be limited to 20 students or new professionals and 5 mentors per session. Reservations will be accepted on a first-come, first-served basis, and a waiting list will be established in case of cancellations. RSVP to [hmcuevas@earthlink.net](mailto:hmcuevas@earthlink.net) by **October 15** to reserve your place. When responding, please indicate the specific day you wish to attend (Tuesday, Wednesday, or Thursday). The theme for Wednesday's luncheon will be user experience, targeting students and professionals interested in design and usability. Also indicate your affiliation (e.g., university name), field of interest (e.g., aviation, HCI, usability, systems engineering), and projected career path (academia, industry, consulting, government, etc.).

To ensure the success of this initiative, we also need involvement from our most respected and established professionals. Contact me for more information about participating. If you or your organization would like to provide sponsorship support for any of the luncheons, please contact [Lois Smith](#).

With your support, this year's Annual Meeting promises once again to be a rewarding experience for our next generation of HF/E professionals!

## **Getting Published!**

*By Haydee M. Cuevas, Coordinator, Mentor-Mentee Luncheons*

Promoting broad dissemination of research findings through peer-reviewed journal publications is the key to success in the HF/E profession overall, and the Society's members in particular. However, getting one's work published is not an easy task, especially for students and early-career professionals.

To address this important issue, an alternative format presentation will be held during the Annual Meeting to provide attendees with meaningful and practical guidelines for getting published. An interactive format will be utilized to ensure a high level of audience participation and increase the value of the information beyond the presentation. Attendees will leave with useful knowledge that they can immediately apply to get started on publishing their work.

A selected number of topic ideas or writing samples from attendees will be used during interactive exercises to demonstrate the application of the concepts presented. If you plan on attending this session, you are invited to submit your topic ideas or samples of your works-in-

progress (e.g., abstract of dissertation, unpublished manuscript, or class paper). Please send your submission as a Microsoft Word file to [hmcuevas@earthlink.net](mailto:hmcuevas@earthlink.net) by **October 15**.

## Students: Share a Room and Save

Student Volunteer Cochair Brittany Neilson has set up a student roommate-matching service for the Annual Meeting. If you need to find a roommate, send Brittany an [e-mail](#) with “HFES Roommate Matching” in the subject line. You will receive an automated response with instructions on how to be a part of the roommate-matching database. Students are responsible for contacting those who match their preferences and for making their own lodging arrangements.

### STANDARDS UPDATE

## ISO/TC 159 Standards Update for July

*By Daryle Gardner-Bonneau, Chair, U.S. TAG to ISO/TC159*

The items presented in this article concern news relevant to ISO/TC 159 standards activities and include upcoming meetings, newly published standards, new standardization projects, and draft standards currently being balloted.

Except for newly published standards, titles of standards are abbreviated in this listing, but you can obtain the complete title for any standard by visiting the HFES [Standards Web page](#) and then clicking on the Subcommittee (SC) Technical Advisory Group (TAG) that is involved with the standard in which you’re interested. Clicking that link will display a graphic of the SC’s structure and a listing of all the projects and standards of that subcommittee. You can also purchase standards and search full titles and abstracts by going to the [ANSI Store](#) or the [ISO Store](#) and searching by the document’s number (e.g., ISO 24504).

The contacts whose e-mail addresses are provided below (i.e., Daryle Gardner-Bonneau, Robert Fox, and James Williams) welcome your inquiries and your participation in these activities.

The listings use the following ISO abbreviations:

TC = Technical Committee

SC = Subcommittee

WG = Working Group

CD = Committee Draft

DIS = Draft International Standard

FDIS = Final Draft International Standard

TR = Technical Report

NWIP = New Work Item Proposal

PAS = Publicly Available Specification

### New Projects

\*\*\*SC4 – This group has established a new study group on the Ergonomics of Autonomous Systems. It will review the state of the art in remote control, robotics, and autonomous technologies with respect to human-system interactions and make recommendations on the use of existing standards and the need for new standards in this area. SC4 welcomes new experts to this special study group. Anyone interested should contact Jim Williams at [ergojim@earthlink.net](mailto:ergojim@earthlink.net) **before July 31, 2014**.

SC1 – Revision of ISO 10075-1 – mental workload. Contact: [JDNBonneau@charter.net](mailto:JDNBonneau@charter.net).

SC3 – Development of ISO 7250-3 – worldwide human body measurement design values. Contact: [robert.r.fox@gm.com](mailto:robert.r.fox@gm.com).

SC4 – ISO 9241-332 – Autostereoscopic displays. Contact: [ergojim@earthlink.net](mailto:ergojim@earthlink.net).

\*\*\*SC4 – New work item proposal on accessibility of doors/handles of electronic home appliances – comments and votes due **September 9, 2014**. Contact [ergojim@earthlink.net](mailto:ergojim@earthlink.net).

#### **Draft Documents Released for Comment and Vote**

SC4 – ISO DIS 9241-161 (user interface elements); due August 22, 2014. Contact [ergojim@earthlink.net](mailto:ergojim@earthlink.net).

SC4 and SC5 – ISO DIS 24505 (method of color combination taking into account age-related changes in color vision); due October 7, 2014. Contact [ergojim@earthlink.net](mailto:ergojim@earthlink.net) or [JDNBonneau@charter.net](mailto:JDNBonneau@charter.net).

#### **Upcoming Meetings**

<b>Standard/Group</b>	<b>Date</b>	<b>Location/Description</b>	<b>Contact</b>
SC3 plenary	July 7–9	Berlin, Germany	<a href="mailto:robert.r.fox@gm.com">robert.r.fox@gm.com</a>
SC3 WG1 and WG4 joint meeting	July 7–9	Berlin, Germany – to discuss current projects and potential new work items	<a href="mailto:robert.r.fox@gm.com">robert.r.fox@gm.com</a>
U.S. TAG to ISO/TC159/SC3 – Annual Meeting	July 23–24	Yellow Springs, OH – review of SC3 projects, new ANSI regulations concerning TAGs, and standards work within HFES	<a href="mailto:robert.r.fox@gm.com">robert.r.fox@gm.com</a>
TC159/SC4/WG28	October (date to be determined)	Gaithersburg, MD – continuing work on the Systems and software Quality Requirements and Evaluation (SQUARE) standards series	<a href="mailto:ergojim@earthlink.net">ergojim@earthlink.net</a>
TC159/SC4/WG5	October 8–10	Venice, Italy – to resolve comments on ISO 9241-161 (user interface elements) and work on development of ISO 9241-112 (general guidance on presentation of information) and ISO 9241-125 (visual presentation of information)	<a href="mailto:ergojim@earthlink.net">ergojim@earthlink.net</a>
TC159/SC1/WG2	October 16–17	Berlin, Germany – To begin work on the revision of the ISO 10075 on mental workload	<a href="mailto:JDNBonneau@charter.net">JDNBonneau@charter.net</a>

### **PUBLIC POLICY MATTERS**

## **Update on Congressional Activities**

*By Lewis-Burke Associates LLC*

In June, Congress continued to work on the fiscal year (FY) 2015 appropriations bills. However, the defeat of House Majority Leader Representative Eric Cantor (R-VA) in the Republican



primary on June 10 sent shockwaves through Congress, increasing partisan politics and slowing the budget process.

On June 10, the Senate Labor, Health and Human Services, Education, and Related Agencies Appropriations Subcommittee passed its FY 2015 appropriations bill. Consideration of the bill by the full Senate Appropriations Committee has been postponed indefinitely, however, reportedly because of threat of amendments related to implementation of the Patient Protection and Affordable Care Act, which would force some members to make tough political votes during the election year. Additionally, a move in the Senate to pass a minibus consisting of the FY 2015 Commerce, Justice, Science, and Related Agencies; Agriculture, Rural Development, Food and Drug Administration, and Related Agencies; and the Transportation, Housing and Urban Development, and Related Agencies appropriations bills was pulled from the Senate floor because of disagreements over amendments.

Also on June 10, the full House Appropriations Committee (HAC) approved its FY 2015 defense appropriations bill, which would provide \$491.5 billion for Department of Defense (DOD) base programs, including \$63.36 billion for defense research, development, test, and evaluation (RDTE) programs. Within RDTE, HAC would allocate \$11.94 billion for DOD science and technology (S&T, 6.1–6.3) programs, which would restore a significant portion of the science and technology (S&T) cuts proposed in President Obama’s FY 2015 budget request. The bill is expected to come to the floor in the coming weeks for consideration by the full House. The Senate Appropriations Committee has not yet announced its corresponding markup of a defense appropriations bill.

Below are links to Lewis-Burke’s reports on specific appropriations updates to provide a comprehensive analysis of the FY 2015 appropriations process, followed by other policy updates and funding opportunities relevant to HF/E.

#### FY 2015 Appropriations Updates:

- [Senate Appropriations Subcommittee Approves Labor, Health and Human Services, Education, and Related Agencies Bill](#) – June 13
- [House Appropriations Committee Approves FY 2015 Defense Appropriations Bill](#) – June 10
- [Senate Appropriations Committee Approves Commerce, Justice, Science Appropriations Bill](#) – June 9

#### Policy and Agency Updates:

- [Policy Update: Senator Harkin Introduces Higher Education Reauthorization Bill; House Republicans Introduce Reauthorization Principles](#) – June 27
- [Policy Update: House Energy and Commerce Committee Hosts Roundtable Discussion on Digital Health Care](#) – June 26
- [Policy Update: Department of Education Announces Proposed Regulations to Address Sexual Violence on College Campuses](#) – June 23
- [Agency Update: Department of Commerce Solicits Applications for Membership on Innovation and Entrepreneurship Advisory Council](#) – June 18
- [Policy Update: White House Announces Executive Order to Reduce Student Debt, Senate Fails to Pass Student Loan Refinance Bill](#) – June 13
- [Policy Update: ONC Releases Framework on “Connecting Health and Care for the Nation: A 10-Year Vision to Achieve an Interoperable Health IT Infrastructure”](#) – June 10

- [Policy Update: NIH Advisory Committee to the Director Approves BRAIN Initiative Final Report, Discusses Cross-Cutting Research Issues](#) – June 9

Funding Opportunity:

- [NASA Releases Early Stage Innovations Solicitation](#) – June 9

*Lewis-Burke Associates LLC, a leading Washington, D.C.-based government relations and consulting firm, represents the public policy interests of scientific societies and institutions of higher education. Lewis-Burke's staff of about 20 government relations professionals work to promote the federal research and policy goals of HFES and the HF/E community.*

## OTHER NEWS

### ICPS Call For Submissions

The [Association for Psychological Science](#) and the members of the [Initiative for Integrative Psychological Science](#) welcome research submissions from all branches of psychological science and related fields for the International Convention of Psychological Science. To learn more, visit [www.icps-2015.org](http://www.icps-2015.org).

### Making Ergo Happen! Continuing Education Conference

On July 29, HFES President-Elect Andrew S. Imada will be the keynote speaker at “Making Ergo Happen!”, a day of practical approaches and strategies for HF/E professionals. The conference takes place in Oakland, California, and is offered by the University of California, Berkeley. Topics include overcoming key barriers to success in ergonomics, how to reach managers and speak their language, how to be “at the table” and not left out of decision making, and getting key allies on board with an ergonomics program. Provide discount code JANOW14, and the price will be \$200.00 for the day. Complete details and registration are available by calling 510/643-7277 or clicking [here](#).

## CALENDAR

### Featured Meeting

[HFES 2014 Annual Meeting](#), October 27–31, 2014, Hyatt Regency Chicago, Chicago, IL.

### September

[Engineering and Product Design Educational Conference 2014](#), September 4–5, 2014, University of Twente, NL.

[AutomotiveUI'14: The 6th International Conference on Automotive User Interfaces and Interactive Vehicular Applications](#), September 17–19, 2014, Seattle, WA.

### October

[American Biological Safety Association \(ABSA\) 57th Annual Biological Safety Conference](#), October 2–8, 2014, San Diego, CA.

[32nd Annual SAE Brake Colloquium & Exhibition](#), October 5–8, 2014, Burlingame, CA.

## HFES BULLETIN

Human Factors and Ergonomics Society

Volume 57, Number 7, July 2014

Features Editor: Pamela Savage-Knepshield,  
[pam.savageknepshield@us.army.mil](mailto:pam.savageknepshield@us.army.mil)  
Communications Director: Lois Smith, [lois@hfes.org](mailto:lois@hfes.org)  
Senior Production Editor: Steve Stafford, [steve@hfes.org](mailto:steve@hfes.org)  
Advertising: R. C. Bublitz & Assoc., [dickbublitz@sbcglobal.net](mailto:dickbublitz@sbcglobal.net)  
General Information: [info@hfes.org](mailto:info@hfes.org)

The HFES Bulletin (ISSN 1527-3660) is published 12 times a year by the Human Factors and Ergonomics Society, 1124 Montana Ave., Suite B, Santa Monica, CA 90403 USA. Address inquiries and address changes to HFES, P.O. Box 1369, Santa Monica, CA 90406-1369 USA, 310/394-1811, fax 310/394-2410, <http://hfes.org>.

Opinions expressed in *Bulletin* articles are those of the authors and should not be considered as expressions of official policy by the Human Factors and Ergonomics Society.