



CONTENTS

ANNUAL MEETING 1
NEWS 5
IN THE NEWS 5

ERRATA..... 5
SHORT COURSES 6
INSIDE HFES 6
CALENDAR 7

Welcome to Denver

*By Hal W. Hendrick,
Host Committee Chair*

The HFES Rocky Mountain Chapter invites Society members and guests to attend the HFES 47th Annual Meeting at the Adam’s Mark Hotel, located in the center of Denver on the beautiful 16th Street Mall. Host Committee and chapter members – along with the Technical Program Committee, Technical Group Program Chairs, HFES staff, and Prestige Accommodations International – have worked together to make the meeting a truly rewarding experience.

The theme of the meeting, “A Summit for People and Technology,” emphasizes this special opportunity to come together and learn from one another through the sharing of our research and practice. The theme also refers to our meeting in the beautiful Mile High City of Denver and views of the spectacular Front Range of the Rocky Mountains.

The Registration Packet is in the mail, and program, travel, and lodging information may be found at <http://hfes.org>.

Technical Tours

We have arranged an outstanding set of technical tours that offer attendees the opportunity to learn more about how HF/E is applied in different settings in the greater Denver area. The tours, which are described in more detail in the Registration Packet, include the National Center for Atmospheric Research; the Air Force Academy, including the Department of Behavioral Sciences and Leadership classroom and laboratory facilities; Air Methods Corporation, which designs and installs medical and other special mission interiors in aircraft; IDEO, a leading international human-centered design and product development group; Agilent Technologies Silicon Products, featuring their global ergonomics program; and the CAE Aviation Training Center.

Social Events

The Monday night opening reception, featuring a western theme, will be at the Adam’s Mark Hotel. On Thursday evening, the traditional special event will be at the Denver Center for the Performing Arts. Attendees will enjoy a reception (hors d’oeuvres and a cash bar) before the show, “Almost Heaven,” by the Denver Center Theatre Company. This musical production in the

Ricketson Theatre is a tribute to the late John Denver, composer, singer, and former Poet Laureate of Colorado. The Denver Center Theatre Company received the 1998 Tony Award for Outstanding Regional Theater. It should be a great evening!

Two great premeeting social tours are offered for attendees and those accompanying them. One is the Air Force Academy – a must if you have never seen it before! The second is the Anheuser-Busch Brewery and visit to Ft. Collins, Colorado, home of Colorado State University.

Denver-Area Offerings

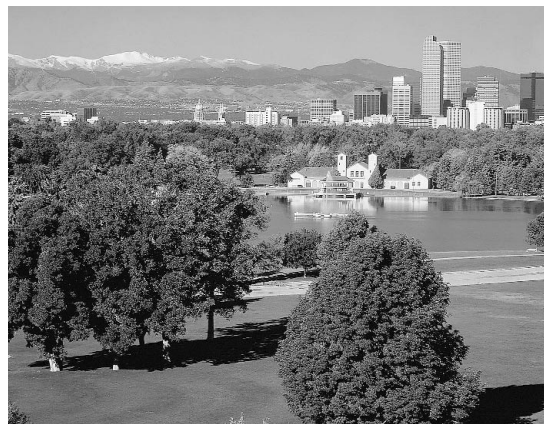
October is a beautiful time to visit the Denver area, as the weather (though changeable) is usually mild and the trees are in their full fall color. With six peaks over 14,000 feet high, the Front Range of the Rocky Mountains offers a great opportunity for spectacular sightseeing, including the opportunity to visit Rocky Mountain National Park, where the elk will be clearly in view.

The Denver downtown area has undergone a major renovation in recent years and now includes beautiful Coors Field, home of the Colorado Rockies National League baseball team; micro-breweries; and loads of great restaurants and shops – all within walking distance of the Adam’s Mark Hotel. A short distance away are the new Invesco Field at Mile High, home of the Denver

Broncos; and Pepsi Center, home of the Colorado Avalanche hockey team and Denver Nuggets basketball team. Come early and catch the Denver Broncos vs. the Pittsburgh Steelers on Sunday, October 12.

Denver has a number of excellent museums, including the Art Museum, Children’s Museum, and Museum of Nature & Science, with its IMAX theatre and 95 world-famous dioramas. Other outstanding attractions are the State Capitol, Denver Zoo, Botanic Gardens, Ocean Journey aquarium, Six Flags Elitch Gardens, U.S. Mint, Historic Larimer Square, and nearby Red Rocks Park and Amphitheatre. The Denver Performing Arts Complex offers more than 10,000 seats in nine performance venues, including the Boetcher Concert Hall, Temple Hoyne Buell Theatre, and the historic Auditorium Theatre. Additionally, nearby Ft. Collins features

continued on page 6



Denver as seen from City Park.

Source: Denver Metro Convention and Visitors Bureau

Denver Logistics

By *Steve Marlin, HFES Meeting Planner*

Downtown Denver is a vibrant, walkable city – the tenth largest downtown in America. There are more than 300 restaurants within walking distance of the convention center, 90 of them in the exciting historic district called LoDo. The 16th Street Mall is a mile-long pedestrian promenade through the heart of the city. There are 40 golf courses in the area and more than 200 miles of bike, jogging, and roller-blading trails. Denver has great shopping, wonderful cultural facilities, museums, and a lively nightlife.

Accommodations

Our headquarters is Denver's premier hotel, the Adam's Mark Hotel, 1550 Court Place, Denver, CO 80202, 303/893-3333, fax 303/626-2542. Located in the heart of downtown Denver, the Adam's Mark is within walking distance of exciting visitor locations such as the Denver Art Museum and the State Capitol, and just



Adam's Mark Hotel, Denver, Colorado

minutes away from the Pepsi Center and Coors Field. The hotel's multiple amenities include a year-round swimming pool, sauna, and state-of-the-art fitness center.

To reserve a room at the special HFES group rate, complete the Hotel Reservation Form in the Registration Packet (arriving in your mailbox this month and available at hfes.org) and mail it directly to the hotel. You may also call Reservations at 800/444-2326. Group rates apply three days before and three days after the annual meeting dates. **Reservations must be received by**

September 19 to qualify for the special meeting discount. Be sure to mention the HFES Annual Meeting. Please reserve early, as discounted rooms are limited.

Discounted rooms for students are available at the Holiday Inn Denver Downtown, 1450 Glenarm Place, Denver, CO 80202, 303/573-1450. Rooms are limited, and reservations should be made early. You will need to identify yourself as being with the Human Factors and Ergonomics Society to receive the discounted rate.

Getting There

The Internet now offers numerous opportunities for attendees to take advantage of low-cost airline and auto rental rates without having to pay travel agency service fees. All major airlines serve the Denver International Airport (DIA, www.flydenver.com), including American, Delta, Continental, Northwest, Alaska, United, Jet Blue, and US Air. Additional travel-booking Web sites include Orbitz (www.orbitz.com), Expedia (www.expedia.com), and Travelocity (www.travelocity.com).

Remember that as an HFES member, you are entitled to discounted car rentals from Hertz (800/654-2210 in the U.S., 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).

Ground Transportation and Parking

Blue Sky Shuttle (<http://www.blueskyshuttle.net/HFES.html>, 866/342-8267) is offering a special airport transportation discount for HFES Annual Meeting attendees: \$15 one way or \$24 round trip. Download the coupon from the Blue Sky Shuttle Web site (see above) to take advantage of this discount. The trip takes about a half hour depending on the time of day. Taxicabs are available from DIA at a flat rate of \$45.

Self-parking at the hotel is \$15 each day, and valet parking is \$22 each day, both with unlimited ins and outs.

Virtually in Denver

By *Jerry R. Duncan,*
Virtual Environments TG Program Chair

What interests do the following people have in our annual meeting in Denver?

- Associate director of the Virtual Reality Applications Center at Iowa State University and coinventor of the CAVE™ immersive display system
- Chair of the Department of Computer Science at the University of North Carolina–Charlotte and cofounder of Virtually Better, a company treating anxiety disorders with virtual environments
- An artist, scientist, educator, and creative development manager at the Institute for Creative Technologies at USC
- Chief scientist for NASA's Space Utilization Program
- A professor of virtual environments at University College in London

Perhaps the hors d'oeuvres at the reception, you say? Well, perhaps. They are also internationally known virtual reality experts



Bulletin

Volume 46, Number 7

July 2003

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

Copyright © 2003 by the Human Factors and Ergonomics Society. Printed in the USA. The *HFES Bulletin* is provided to members of the Society (\$10 of annual dues covers member subscriptions); nonmembers may subscribe for \$40/year. Periodicals postage paid at Santa Monica, CA, and additional mailing offices. USPS #018-206.

who will interact with the audience during a panel discussion at the 47th Annual Meeting to address the question, "Does Virtual Reality Really Work?"

Ever wonder what a vibrotactile glove could do for you? Or contemplate the continuum of virtual contact: purely visual to purely physical? Or consider the temptations and associated issues of having haptic interactions in virtual environments? We encourage you to attend the annual meeting symposium organized by Michael Mollenhauer, president of Realtime Technologies. Speakers invited to participate in this session, "Physical Simulation in Virtual Environments," include experts from IBM, Carnegie Mellon University, George Washington University, Delta Search Labs, U.S. Army, and MIT's Touch Lab.

Please join us at all of the exciting and stimulating sessions sponsored by the Virtual Environments TG at the 47th Annual Meeting in Denver.

Search User Interfaces: Call for Participation

By *Marc Resnick, Colloquium Chair*

A full-day colloquium on October 13, entitled "Best Practices and Future Visions for Search User Interfaces," will provide an interactive forum for participants to actively discuss submitted papers and industry trends, share best practices with other search user interface (UI) designers, and identify gaps in our knowledge. It will validate and extend prior discussions of best practices and future needs for search UI design held at previous workshops on search UI design. Participants will come away with new research findings, key contacts, and opportunities for research and design. The colloquium will appeal to practitioners and researchers to balance the discussion between theory and application. Based on this colloquium, we intend to create an enhanced roadmap of search UI evolution.

The categories for submission for this colloquium include

- User psychology and behavior
- Usability engineering methods for evaluating search
- Designing input, output, and iterative search interfaces
- Application areas (e.g., business, commerce, intranets, and Web content)
- Search devices and hardware
- Search scenarios of use (e.g., using a Web browser to find a new car versus using a mobile device to find a nearby restaurant)
- Intercultural search

The deadline for submissions is *August 1, 2003*. Anyone interested in participating should request the full-length call for participation from Misha Vaughan (mvaughan@acm.org). Submissions should be sent to Misha and should reflect the interest areas of the full call. Search user interface case studies and visions of future interface designs are particularly welcome. Submissions should be no more than two pages of text; however, extra pages for screen shots or conceptual designs are encouraged. Submissions should also include a one-paragraph biography describing your

general background and particular expertise with search. The review process will consider the quality of the submission, and we will aim to recruit a balanced number of practitioners and researchers.

Several results will emerge from the colloquium. Its major goal is to advance the developing roadmap for search user interface design. To achieve this, participants will be asked to contribute to a Web-based source of search case studies, design patterns, and insights. In addition, a design-based paper will be submitted to *Ergonomics in Design*, and a research-oriented paper will be submitted to *Human Factors* to summarize the specific discussions of the colloquium.

Federal Program Managers Forum

By *Patricia M. Jones, Colloquium Chair*

The "Federal Program Managers Forum" is a colloquium with two major goals. The first is to provide a forum in which potential grantees and contractors can learn about federal funding opportunities in various human factors research areas. It's a chance for people to talk to federal program managers and find out not only about current funding opportunities but also about what's on the horizon. The second goal is to support substantive discussions among federal program managers in order to explore synergies or leverages between programs (e.g., designing joint calls for proposals, transitioning knowledge between programs so that the design of the next program in one agency is based on the good work that has been accomplished by another agency). The colloquium will be held on Thursday, October 16, 2003, from 8:30 a.m. to 6:00 p.m.

Anyone with an interest in this topic is invited to attend the morning session. The afternoon session is by invitation only for federal program managers. Participants attending the morning session will make a 5- to 10-minute presentation about their programs and should provide in advance three or four presentation charts to describe their programs. In the afternoon session, groups of participants will brainstorm and discuss synergies and opportunities for leverage and collaboration.

The long-term goal of this colloquium is to create and sustain a community of federal program managers who provide better coordination and planning to the human factors researchers who depend on their program funding. If successful, this activity could be come a regular part of future HFES Annual Meetings.

We would like to recruit more program managers for the afternoon session! For more information, please contact Patricia M. Jones, Deputy Chief, Human Factors Research and Technology Division, NASA Ames Research Center, MS 262-11, Moffett Field, CA 94035; 650/604-1345, fax 650/604-3263; patricia.m.jones@nasa.gov.

Human Factors in the Regulatory Process

By *Victor Riley, Colloquium Chair*

What does the future hold for the practice of human factors in aviation, medicine, railroads, nuclear power, and consumer

products? All these industries are regulated by government agencies, and as awareness grows about the contribution of human error to safety, human factors is becoming an increasing focus of each agency.

Please join us on Thursday afternoon, October 16, to hear human factors experts from five U.S. government regulating authorities describe the practice of human factors within their organizations and the industries they regulate. The participating panel members in this colloquium, "The Role of Human Factors in the Regulatory Process," represent the Federal Aviation Administration, the Food and Drug Administration, the Federal Railroad Administration, the Nuclear Regulatory Commission, and the Consumer Product Safety Commission. Each panelist will describe the challenges faced by the agencies in attempting to maintain safety while allowing for innovation, the unique and common requirements of their particular industries, and any new and emerging tools, techniques, and methods they are developing or using to meet these challenges.

Following the individual presentations, the panelists will share lessons learned, strategies, and suggestions so each industry can benefit from the best practices of the others, followed by audience participation. This colloquium is open to all annual meeting attendees.

Entering the Academic Marketplace

What is the "right" academic job, and what does it take to land it? In conjunction with the HFES Annual Meeting, The American Psychological Association will host a primer on joining the professoriate. The workshop is designed for graduate students and postdocs who are wondering if an academic job might be a good match for them. It will be held on Monday, October 13, from 8:00 a.m. to 12:00 noon. Topics will include an exploration of different kinds of academic settings, the value of working in the academic culture, and the pragmatics of the hiring process. Expert panelists will share their insights, with plenty of opportunity for discussion. Speakers will address the value of an academic position, the job application process, entry conditions negotiation, and wisdom from successful candidates. Speakers include Deborah Boehm-Davis, Ken Laughery, Ben Morgan, Jr., Esa M. Rantanen, and F. Jacob Seagull.

Items Wanted for Daily Newsletter

The HFES 2003 Annual Meeting newsletter/on-site information editor is still accepting items for publication in the annual meeting newsletter, *Mile High Daily*.

Topics may include

- Descriptions of demonstrations
- Previews of panels
- TG special session information
- Dates for school reunions
- Invited speakers
- "Birds of a Feather" gatherings
- Recommendations for "Web Site of the Day" (resources to explore after the meeting)
- Upcoming events

Prior to the meeting, e-mail submissions are encouraged. During the conference, submissions are welcome from all attendees. Submit dates and locations as early as possible for school reunions. If you would like to submit an article or learn more about sharing insights and observations with all attendees, please contact Newsletter Chair Andrew Weltken, 3712 E. 6th Ave., Denver, CO 80206; 303/321-3484; aweltken@earthlink.net.

If you are interested in advertising in the newsletter, please contact HFES Communications Director Lois Smith at 310/394-1811; lois@hfes.org.

Annual Meeting Sponsorship Opportunities

The HFES 47th Annual Meeting, to be held October 13–17 in Denver, Colorado, is an opportunity to promote your organization's products and services. Members are encouraged to pass this information to their employers and other interested parties.

Increased Visibility

The following sponsorship opportunities are available. Recognition is provided in the pre- and postmeeting issues of the *HFES Bulletin*, the Annual Meeting Program, on-site signage, and the daily newsletter. Also, sponsors' logos will be included on the Sponsors page at the HFES Web site.

Opening Reception \$10,000

One sponsorship is available. The Opening Reception, held on the evening of Monday, October 13, is the official kickoff for the 47th Annual Meeting. Attendees gather to enjoy refreshments while mingling and networking in a relaxed atmosphere. Table tent cards and a banner bearing the sponsor's name and logo will be displayed.

Plenary Session \$5,000

One sponsorship is available. The Opening Plenary Session, Tuesday, October 14, features the keynote address and presidential address, and recognition of HFES awardees and newly elected Fellows. The sponsor will be acknowledged from the podium, and signs bearing the sponsor's name and logo will be placed at the door.

Student Reception \$2,000

One sponsorship is available. Each year, about 200 students gather to enjoy refreshments and camaraderie at a Tuesday-evening event. Awards are also presented at the Student Reception. Signs bearing the sponsor's name and logo will be placed at the door.

Message Center/E-Mail Stations \$5,000

One sponsorship is available. Simply provide a screensaver with your company logo for display on monitors at the free computer stations where attendees go to check their e-mail. This heavily utilized service is an excellent way to increase your visibility. Also includes signage, and logo mousepads will be displayed if supplied by the sponsor.

Coffee Breaks \$2,500

Eight sponsorships are available. Morning and afternoon coffee and beverage breaks are offered in the exhibit hall and other locations. Signs bearing the sponsor's name and logo will be placed in

ANNUAL MEETING, cont.

the area. In addition, the sponsor's representatives are encouraged to meet and greet attendees in the coffee break areas.

Portfolios \$10,000

One sponsorship is available. High-quality portfolios are given to every attendee at the registration desk. The portfolio has room for carrying laptops, books, programs, writing implements, and more. Black nylon canvas with shoulder strap, imprinted on the front flap with the meeting and sponsors' name and logos.

Luggage Tags \$2,000

One sponsorship is available. Accompanying the portfolio is a white plastic luggage tag so that attendees can insert their business cards to personalize and identify their portfolios. Includes one imprint color.

Flexible Notepad \$4,000

One sponsorship is available. The flexible memo folder comes with a ruled pad and pocket for holding notes. Sponsor's logo/name appears on the front cover. 5 1/4 x 8 3/8"; black with silver imprint.

How to Reserve a Sponsorship

If you wish to reserve a sponsorship, please contact Dick Bublitz, 800/485-5029, 818/992-0366; dick-rcb@juno.com. **A \$500 non-refundable deposit is required at the time sponsorships are reserved; the balance is due August 29, 2003.** Sponsorships are allocated on a first-come, first-served basis on receipt of the deposit. Payment is accepted by check (US\$ payable to the Human Factors and Ergonomics Society), MasterCard, VISA, or American Express.

General meeting support is also welcome. To discuss alternative sponsorship ideas, please contact Carlos de Falla at HFES (310/394-1811, carlos@hfes.org).

NEWS

National Science Foundation Opening

The National Science Foundation is seeking a new division director of behavioral and cognitive science (in the social, behavioral, and economic science directorate). Applications on either a temporary or permanent basis are encouraged. Information for applicants will be available at <http://www.nsf.gov>. Additionally, applicants may contact assistant director Norman Bradburn for more information at nbradbur@nsf.gov.

NSF Undergraduate Funding

The National Science Foundation is accepting grant applications from students who would like to conduct research in any area of research that NSF currently funds. Proposals can be from a single discipline or multidisciplinary. Some attention will be paid to those with an international bent. The deadline for full proposals is September 15 of each year. For more information, please visit <http://www.nsf.gov/pubs/ods/getpub.cfm?nsf03577>.

IN THE NEWS

Ronald G. Shapiro wrote an article for the Winter 2003 issue of the *Psychology Teacher Network* titled, "Human Factors/Ergonomics: How Can It Influence Your Students?" The article discusses examples of how human factors affects the life of high school students and offers advice for teachers wishing to incorporate human factors/ergonomics into their psychology curriculum. View the article on line at http://www.apa.org/ed/pcue/ptn_winter03.pdf.

Frank Winn, distance learning coordinator and admissions director in the Department of Physician Assistant Studies, East Carolina University, was featured in an article titled "Who Am I?" in the *Observer* (Vol. 6, No. 3, June 2003), published by the American Psychological Society. The article chronicles his numerous professional identities. Trained as a psychologist, he has been called a physical therapist, an occupational therapist, and an engineer.

ERRATA

Revised 2003 Budget Erratum

The June 2003 issue of the *HFES Bulletin* (Vol. 46, Number 6, p. 3) inadvertently included incorrect numbers for the revised 2003 HFES budget. The correct budget, which has been approved, is shown below:

Income	
Membership Dues	\$ 632,500
Membership Services	\$ 43,250
Communications/Publications	\$ 404,000
Annual Meeting	\$ 187,825
HFES Institute	\$ 27,000
Miscellaneous	\$ 4,150
Total Income	\$1,298,725
Expense	
Membership Services	\$ 97,260
Publications	\$ 359,785
Administrative	\$ 635,500
Committees and Officers	\$ 45,125
Annual Meeting	\$ 69,000
HFES Institute	\$ 37,205
Interorganizational	\$ 12,635
Total Expense	\$1,256,510
Surplus	\$ 42,215

Directory and Yearbook Erratum

A production error led to the publication of NexGen Ergonomics previous year's ad on the back cover of the *2003-2004 Directory and Yearbook*. NexGen Ergonomics has moved to 6600 Trans Canada Highway, Suite 750, Pointe Claire (Montreal),

Quebec, Canada H9R 4S2; 514/685-8593, fax 514/685-8687, salesinfo@nexgenergo.com, <http://www.nexgenergo.com>. Nex-Gen offers systems for ergonomic analysis, design, research, and education and training. The correct ad appears in the Spring 2003 issue of *Human Factors*. ☒

SHORT COURSES

Basics of Industrial Engineering, September 24–26, 2003, Madison, WI. College of Engineering, University of Wisconsin-Madison, Department of Engineering Professional Development, 432 North Lake St., Madison, WI 53706; 800/462-0876, fax 608/263-3160; custserv@epd.engr.wisc.edu, <http://epdweb.engr.wisc.edu/webE920>.

Office Ergonomics Accreditation Program, October 20–24, 2003, Raleigh, NC. Ergonomics Center of North Carolina, Department of Industrial Engineering, North Carolina State University, 3701 Neil Street St., Raleigh, NC 27607; 919/515-2052, fax 919/515-8156; joines@TheErgonomicsCenter.com, <http://www.TheErgonomicsCenter.com>.

Practical Solutions in Office Ergonomics, November 19, 2003, Raleigh, NC. Ergonomics Center of North Carolina, Department of Industrial Engineering, North Carolina State University, 3701 Neil Street St., Raleigh, NC 27607; 919/515-2052, fax 919/515-8156; joines@TheErgonomicsCenter.com, <http://www.TheErgonomicsCenter.com>.

Ergonomics Evaluation 201: Taking on the Tough Jobs, December 3–4, 2003, Raleigh, NC. Ergonomics Center of North Carolina, Department of Industrial Engineering, North Carolina State University, 3701 Neil Street St., Raleigh, NC 27607; 919/515-2052, fax 919/515-8156; joines@TheErgonomicsCenter.com, <http://www.TheErgonomicsCenter.com>. ☒

Welcome to Denver

(continued from page 1)

an eclectic Old Towne, replete with dining establishments, antique stores, and arts and craft shops.

To maximize your experience, we have prepared special sight-seeing and restaurant guides, which you will find in your registration bags.

Additional information about Denver and Colorado tourism may be obtained from the Denver Metro Convention & Visitors Bureau (800-393-8559; www.denver.org) and Discover Colorado (www.colorado.org).

Denver and the HFES Rocky Mountain Chapter are pleased and honored to welcome you to our beautiful Front Range area. We hope your stay will be a truly memorable experience. ☒

HFES Welcomes New Members

The following individuals joined the Society in May 2003. Their membership applications are subject to final ratification by the HFES Executive Council at its next meeting.

Full Members

Philip Arnold
Laura Barton
Kieran Duignan
Kitti Intaranont
Melissa Jacobson
Bala Swamy

Associates

Keith Kudrycki
Erica Kuligowski
Jeffrey Stebel

Affiliates

Jennifer Battig
Carolyn Haynes
Laura Martin
Dean Maudlin
Scott Ryan
Jim Slocum
Patricia Stansbury

Students

Donald Aretz
Sudheer Bayanker
Zachary Chesler
Michael Gosiewski
Thomas Irwin
Daniela Kratchounova
Robin Mitchell
Jaili Nazari
Jeremy Nelson
Aisha Smartt
Alison Smith
Chanel Thomas
Kathleen Van Eron
Bayu Wicaksono
Drew Widing

New HFES Assistant Editor

In late June, Gilbert Chen joined the HFES staff as assistant editor, replacing Alexandra Sartor, who left for graduate school after two years with the Society. Gilbert holds a master's degree in English and brings to HFES five years' experience as a technical editor. In addition, he has worked as a technical writer and Web content editor in the computing industry. Gilbert manages the editing and production of the *HFES Bulletin* and assists in the editorial functions of other HFES publications, primarily *Ergonomics in Design*. He can be reached by phone at 310/394-1811 or by e-mail at gilbert@hfes.org. ☒

On-Site Job Fair

The HFES Placement Service welcomes employers and job seekers! The service will be available during the 47th Annual Meeting, Monday–Thursday, October 13–16. Employers: post your jobs and reserve booths for conducting interviews. HFES members: post your résumés so employers can contact you. Questions? Contact Member Services at 310/394-1811, membership@hfes.org.

Announcement deadlines: 1st day of the month prior to the desired issue; for events or deadlines within the first 3 weeks of a month, send information at least 2 months in advance. Items are published according to space availability.

18th International Joint Conference on Artificial Intelligence (IJCAI-03), August 9–15, 2003, Acapulco, Mexico. American Association for Artificial Intelligence, 445 Burgess Dr., Menlo Park, CA 94025-3442; 650/328-3123, fax 650/321-4457; www.ijcai-03.org.

ASNE/SNAME Meets 2003, Marine Environmental Technology, August 21–22, 2003, Arlington, VA. Megan Sinesiyou, American Society of Naval Engineers, 1452 Duke St., Alexandria, VA 22314-3458; 703/836-6727, fax 703/836-7491; msinesiyou@navalengineers.org, http://www.navalengineers.org/Events/Events.html.

XVth Triennial Congress of the International Ergonomics Association, August 24–29, 2003, Seoul, Korea. Gangnam P.O. Box 467, Seoul, 135-146, Korea; +82 2 552 8350, fax +82 2 552 8325; info@iea2003.org, http://www.iea2003.org.

10th International Conference for Vision in Vehicles, September 6–10, 2003, Granada, Spain. VIV10, Institute of Behavioural Sciences, University of Derby, Kingsway House, Kingsway, Derby DE22 3HL, UK; tel/fax 44 0 1332 593131; ibs@derby.ac.uk; http://ibs.ac.uk/viv/viv10.html.

18th Annual Professional Conference on Industrial Hygiene, September 13–16, 2003, Rancho Mirage, CA. American Industrial Hygiene Association, 2700 Prosperity Ave., Suite 250, Fairfax, VA 22031; 703/849-8888, fax 703/207-3561; infonet@aiha.org, http://www.aiha.org/TheAcademy/html/pcih.htm.

13th International Conference on Software Quality, September 15–16, 2003, Toronto, Ontario, Canada. American Society for Quality, P.O. Box 3005, Milwaukee, WI 53201-3005; 414/272-8575, fax 414/272-1734; help@asq.org, http://www.asq.org/ed/conferences.

SID 23rd International Display Research Conference, September 15–18, 2003, Phoenix, AZ. Society for Information Display, 610 S. 2nd St., San Jose, CA 95112-9896; 408/977-1013, fax 408/977-1531; office@sid.org, http://www.sid.org/conf/idrc2003/idrc2003.html.

Harnessing the Power of Technology for the Warfighter, September 16–18, 2003, Bloomington, IN. Megan Sinesiyou, American Society of Naval Engineers, 1452 Duke St., Alexandria, VA 22314-3458; 703/836-6727, fax 703/836-7491; msinesiyou@navalengineers.org, http://www.navalengineers.org/Events/Events.html.

SAFE Association 41st Annual Symposium, September 22–24, 2003, Jacksonville, FL. Jeani Benton, P.O. Box 130, Creswell, OR 97426-0130; 541/895-3012, fax 541/895-3014; safe@peak.org, http://www.safeassociation.com.

7th Symposium on Human Factors in Organizational Design and Management, October 1–3, 2003, Aachen, Germany. Bruno Kloubert, Pontdriesch 14/16, 52062 Aachen, Germany; +49 02 41 4 77 05 150, fax +49 02 41 4 77 05 199; lk@fir.rwth-aachen.de, http://www.odam.net.

HFES 47th Annual Meeting, October 13–17, 2003, Denver, CO. Hosted by the Rocky Mountain Chapter. HFES, P.O. Box 1369, Santa Monica, CA 90406; 310/394-1811, fax 310/394-2410; info@hfes.org, http://hfes.org.

11th National Quality Education Conference, November 7–9, 2003, Albuquerque, NM. American Society for Quality, P.O. Box 3005, Milwaukee, WI 53201-3005; 414/272-8575, fax 414/272-1734; help@asq.org, http://www.asq.org/ed/conferences.

146th Meeting of the Acoustical Society of America, November 10–14, 2003, Austin, TX. Acoustical Society of America, Suite 1NO1, 2 Huntington Quadrangle, Melville, NY 11747-4502; 516/576-2360, fax 516/576-2377; asa@aip.org, http://asa.aip.org/map_meetings.html.

44th Israel Annual Conference on Aerospace Sciences, February 25–26, 2004, Tel Aviv, Israel. Haim Abramovich, Faculty of Aerospace Engineering, Technion, Haifa 3200, Israel; 972 4 8293199, fax 972 4 8292030, alice@aerodyne.technion.ac.il, http://www.aeroconf.org.il/conf.

Safety Across High-Consequence Industries, March 9–11, 2004, St. Louis, MO. Manoj S. Patankar, Dept. of Aviation Science, Saint Louis University, Parks College of Engineering and Aviation, 3450 Lindell Blvd., Saint Louis, MO 63103; 314/977-8355, fax 314/977-8388; patankar@slu.edu.

★ **Human Performance, Situation Awareness, and Automation Technology Conference II**, March 22–25, 2004, Daytona Beach, FL. Dennis A. Vincenzi, Assistant Professor and Conference Chair, Department of Human Factors and Systems, Embry-Riddle Aeronautical University, 600 S. Clyde Morris Blvd., Daytona Beach, FL 32114; 386/226-7035, fax 386/226-7050; dennis.vincenzi@erau.edu, http://faculty.erau.edu/vincenzd/hpsaa.

Ergonomics Society 2004 Annual Conference, April 14–16, 2004, Swansea, UK. Annual Conference Programme Secretary, Ergonomics Society, Devonshire House, Devonshire Square, Loughborough, Leicestershire LE11 3DW, UK; 44 0 1509 234904, fax 44 0 1509 235666; ergosoc@ergonomics.org.uk.

★ **75th Anniversary Meeting (147th Meeting) of the Acoustical Society of America**, May 24–28, 2004, New York, NY. Acoustical Society of America, Suite 1NO1, 2 Huntington Quadrangle, Melville, NY 11747-4502; 516/576-2360, fax 516/576-2377; asa@aip.org, http://asa.aip.org/map_meetings.html.

★ **Safety 2004**, June 7–10, 2004, Las Vegas, NV. Denver, CO. ASSE, 33477 Treasury Center, Chicago, IL 60694-3400; 847/699-2929, fax 847/768-3434; customerservice@asse.org, http://www.asse.org.

★ **ASNE Day 2004**, June 28–30, 2004, Arlington, VA. Megan Sinesiyou, American Society of Naval Engineers, 1452 Duke St., Alexandria, VA 22314-3458; 703/836-6727, fax 703/836-7491; msinesiyou@navalengineers.org, http://www.navalengineers.org/Events/Events.html.

XXVIII International Congress of Psychology, August 8–13, 2004, Beijing, China. Institute of Psychology, Chinese Academy of Sciences, 10A Datun Rd., Beijing 100101, People's Republic of China; 86 10 6485 5830, fax 86 10 6485 5830; icp2004@psch.ac.cn, http://www.icp2004.org.

★ *Indicates new listing.*



Bulletin

Volume 46, Number 7 July 2003

Communications Director: Lois Smith
Student Views Editor: Melanie Diez
Assistant Editor: Gilbert Chen
Advertising: R. C. Bublitz & Associates,
800/485-5029; dick-rcb@juno.com

POSTMASTER:

Send address changes to the HFES Bulletin,
Human Factors and Ergonomics Society,
P.O. Box 1369, Santa Monica, CA 90406-1369 USA,
310/394-1811, fax 310/394-2410.

General Information: info@hfes.org
Editorial/Advertising: lois@hfes.org
Placement Service: placement@hfes.org
Annual Meeting: lois@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.

FLASH!

Plan to Attend!

HFES 47th Annual Meeting
Denver, Colorado
October 13–17, 2003

Early registration deadline:
September 15, 2003
Hotel booking deadline:
September 19, 2003
Go to hfes.org for details



**Human
Factors
and
Ergonomics
Society**

P.O. Box 1369
Santa Monica, CA
90406-1369 USA

PERIODICALS
POSTAGE PAID
AT
SANTA MONICA, CA
AND ADDITIONAL
OFFICES