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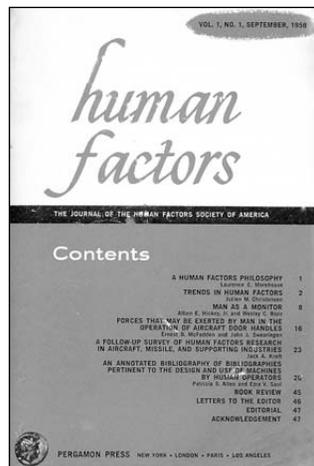
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Celebrating 50 Years of *Human Factors*

By Nancy J. Cooke, Editor

Our primary journal, *Human Factors*, turns 50 this year, and it is a good time to reflect on and celebrate the journal's history, its changes over the years, and its accomplishments. *Human Factors* is often referred to as the flagship journal of the Human Factors and Ergonomics Society. This designation means more than the fact that it is published, reviewed, and edited primarily by Society members; it is also a repository for some of the best work by Society members and represents significant scientific and technological contributions of our field.



The last 50 years of *Human Factors* are not simply about numbers of pages published and our move to electronic review and publishing. They are about the five decades of human factors/ergonomics contributions reflected in the journal's pages. As I have been digging up facts and poring over content in anticipation of this anniversary, I have learned that there is much to celebrate.

Human Factors was launched in 1958, first at the rate of six times per year and then changing to four times per year from 1993 until 2007, when it returned to bimonthly publication. The number of pages published over the past 50 years tells a story of amazing growth (see Figure 1 on page 2).

The journal's review process has also changed dramatically, moving from a paper-and-"snail-mail"-based format to the electronic review system that was adopted in 2003 and is in place today. *Human Factors* has also been available electronically since 2004, and electronic back issues are now accessible through the HFES Digital Library. But the story is not just about quantity and electronic publishing. The journal's Impact Factor, which accounts for numbers of citations and numbers of articles published, has been on the rise, going from .66 in 2003 to .86 in 2006. The improvement in impact can be partly attributed to these process changes, as well as the recent reduction in the editorial review timeline to approximately 60 days and time to production to less than 6 months. We owe much of the recent improvement in journal process to HFES publications staff Lois Smith and Andrea



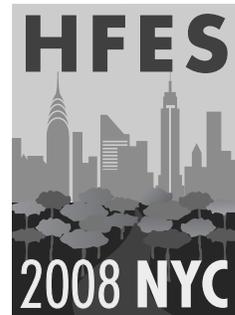
Tomscanyi, who keep our flagship journal on course even in what seem to be very rough seas.

The inaugural issue of *Human Factors* in 1958 included six papers; five of them were general review or position papers, and one was on forces exerted by men on aircraft door handles (see the table on page 2). The first three special sections were published in 1962 and 1963 and covered the topics of vibration (Stanley Lippert, editor), visual capabilities in the operation of manned space systems

(Charles A. Baker, editor), and biomechanics (Renato Contini, editor). Contrast these with the four most recent special sections published from 2004 to 2007 covering the themes of driver distraction (John D. Lee, editor), aging and human performance (Mustapha Mouloua and Peter A. Hancock, editors), patient safety (Eduardo Salas, David Baker, Heidi King, and James Battles, editors), and classifying and understanding human error (Kelley J. Krokos and David P. Kaber, editors). The topics of aging and patient safety are fairly new to the journal, whereas work on errors and driving has persisted over the years.

Based on a classification of titles, the predominant themes over the last 50 years have been in the areas of displays and controls,

continued on page 2



The 52nd Annual Meeting is in New York City on September 22-26.

See page 4 for information about the city, hotel accommodations, meeting details, and more.

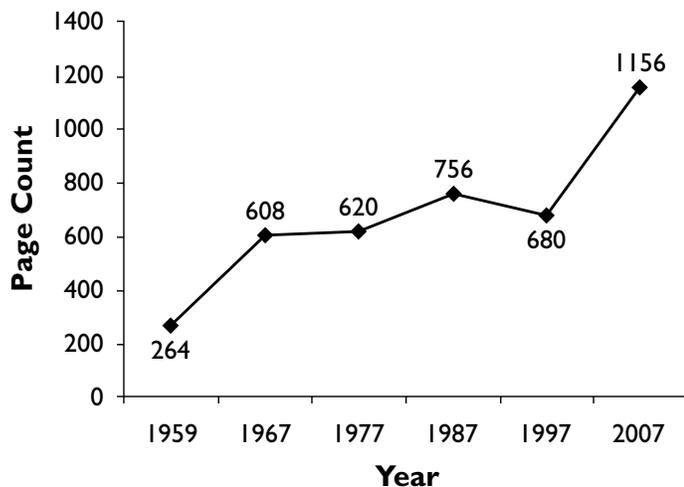


Figure 1. Pages published in *Human Factors* by year.

sensory and perceptual processes, and biomechanics, anthropometry, and work physiology. The tag cloud presented in Figure 2 (page 3) represents the most frequently occurring terms found in the article titles since 1958. These are the 100 most frequently occurring terms of the 3,010 content words that occur two or more times.

Special Anniversary Issue

But titles of papers and special sections do not do justice to the breadth and quality of work that has been covered in the pages of our journal. There are two efforts under way to showcase this work. The journal’s associate editors (Deborah A. Boehm-Davis, John D. Lee, William S. Marras, Robert Radwin, Eduardo Salas, and, most recently, Florian Jentsch) and I have put together a Special Anniversary Issue of *Human Factors*, to be published in June, with papers celebrating the journal’s 50 years. In addition to retrospective pieces by some past editors, we have invited leaders of our field to prepare papers of two types. “Discoveries and Developments” papers will cover contributions made to the HF/E field and to society in specific areas and will highlight the accomplishments of an area in a “big picture” way since the journal’s incep-

AUTHORS	TITLE
Morehouse, L. E.	A Human Factors Philosophy
Christensen, J. M.	Trends in Human Factors
Hickey, A. E., Jr, Blair, W. C.	Man as a Monitor
McFadden, E. B., & Swearingen, J. J.	Forces That May Be Exerted by Man in the Operation of Aircraft Door Handles
Kraft, J. A.	A Follow-Up Survey of Human Factors Research in Aircraft, Missile, and Supporting Industries
Allen, P. S., & Saul, E. V.	An Annotated Bibliography of Bibliographies Pertinent to the Design and Use of Machines by Human Operators

tion. “Current Reviews of Pivotal Articles” will identify and discuss papers published in *Human Factors* that influenced a particular body of knowledge and changed the way we think about a topic, thereby influencing our current level of understanding.

The papers are also intended to serve as an introduction to the field for outsiders, a summary of contributions for insiders, and a resource for those who want to learn more. The papers are concise by design to most effectively showcase the breadth of work in our field. At times, authors found it challenging to squeeze all of the contributions of areas like human-computer interaction and automation into a few pages. However, with the guidance of reviewers, editors, and the *Human Factors* staff, the papers in the issue tell stories of challenges met, discoveries revealed, and contributions made by the authors of *Human Factors* and their colleagues.

I am extremely excited about this Special Anniversary Issue. We estimate that the issue will contain 35 papers, with “Discoveries and Developments” papers on topics including human-computer interaction, driving, workload, and neuroergonomics, among others. In the tradition of the Harry Potter series, I will keep you in suspense on the rest of the details and on the identity of the pivotal articles that will be covered in this volume.

Best of Human Factors Book Forthcoming

Also to honor our journal’s first 50 years, Eduardo Salas and I have been working on a book, *Best of Human Factors*, which HFES will publish and which will contain the top papers published in the journal. Identifying these top papers was no easy task. Each paper was ranked based on citation count, whether the paper won the HFES Jerome H. Ely Best *Human Factors* Paper Award, and nominations submitted by members who responded to a survey that we conducted. More details on the selection process and a list of other papers that were highly ranked but did not make the cut for the book will be listed in the introductory chapter. Again, we will keep you in suspense on the identity of the top papers but are confident that you will find this book useful as a historical compendium and a teaching tool.

A Team Effort

The content of the journal and the contribution of the science



Human Factors and Ergonomics Society

Bulletin

Volume 51, Number 5 **May 2008**

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, <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, <http://hfes.org>.

Copyright © 2008 by the Human Factors and Ergonomics Society. Printed in the USA. POSTMASTER: Send address changes to the Human Factors and Ergonomics Society, P.O. Box 1369, Santa Monica, CA 90406-1369 USA. The *HFES Bulletin* is provided to members of the Society (\$10 of annual dues covers member subscriptions); nonmembers may subscribe for \$42/year. Periodicals postage paid at Santa Monica, CA, and additional mailing offices. USPS #018-206.

Welcome to New York!

By Steve Marlin, HFES Meeting Planner

HFES invites you to experience the energy and excitement of New York City this September for the 52nd Annual Meeting. Call it what you will – The Big Apple, The City, or just New York – Condé Nast says New York City is the world's hottest city, and according to the FBI, it's also the safest of the nation's ten largest cities. New York is the professional capital of the world in finance, media, retail, fashion, publishing, and entertainment, to name just a few.

Getting There and Getting Around

New York is easily accessible from around the world, with flights to three major airports: John F. Kennedy, LaGuardia, and Newark. Affordable flights are available from anywhere inside or outside the United States.

Travel time from the airports varies by the time of day: about 40 minutes from JFK, for about \$45 by taxi; 30 minutes from LaGuardia for \$30 plus tolls; or 40 minutes from Newark and taxi fares up to \$60.

Bus service from the airports is also available: New York Airport Express Bus (\$15, call 718/875-8200) or AirTrain JFK (\$5 to easily accessible city transportation in Queens). There are numerous shuttle van options: \$17 from JFK and Newark and \$15 from LaGuardia via SuperShuttle (800/258-3826) or AirlinK New York (877/599-8200, <http://airlinknyc.com>); and private car service is also available (Carmel; call 800/9Carmel [922-7635]).

The city is accessible by rail from all over the Northeast, with service by Amtrak and New Jersey Transit. Trains arrive and depart every day at both Pennsylvania Station and Grand Central Station. From either depot, it's a short taxi ride to our headquarters hotel.



The New York Marriott Marquis Times Square.

Getting around the city is easy on foot, and the world-famous subway system gets you anywhere you want to go.

Things To Do

We probably don't need to tell you there are vast numbers of sightseeing opportunities in New York City and surrounding areas. Our headquarters hotel, New York Marriott Marquis Times Square, offers the HFES meeting rate three days before and three days after the meeting, which affords you ample time to visit museums, shops, and restaurants and to see Broadway and off-Broadway shows.

Just a sample of the sites includes the Statue of Liberty, Ellis Island, Wall Street and Ground Zero downtown, the shopping meccas of Fifth Avenue and Madison Avenue, Radio City Music Hall, internationally renowned museums, the Empire State Building, Times Square, Rockefeller Center, St. Patrick's Cathedral, Central Park, Yankee Stadium, Grand Central Station, and the New York Stock Exchange.

On the Saturday before the Annual Meeting (September 20), the U.S. Military Academy football team will play the University of Akron team in West Point's Michie Stadium. The game ball is typically delivered to the field by a paratrooper who jumps from an aircraft high above the stadium. Cannons are fired, Army mules patrol the sidelines, and tailgating is common before, during, and after the game. To purchase tickets (\$29), go to the Army Sports Web site (<http://www.goarmysports.com>).

Visit the official marketing and tourism organization for New York City (<http://nycvisit.com>) for links to a trip planning guide, lists of tour companies, deals and promotions, events that are taking place around the time of the Annual Meeting, and much more.

The Marriott Marquis Hotel

Located in the heart of Times Square, the Marriott Marquis is just steps from the world's best shopping, restaurants, and nightlife. Centrally located, the hotel is within the famous Theatre District of New York and close to many of the city's most popular venues. Having just undergone a \$150 million renovation, the hotel has created even more outstanding accommodations, dazzling surroundings, a state-of-the-art fitness center, and new high-speed elevators to service all 49 floors. Check-in time is 4:00 p.m., check-out is 12:00 noon, and you'll enjoy complimentary coffee and tea, toll-free phone calls, and Marriott "Revive" beds in all rooms. Additional amenities include complete business services, knowledgeable concierge staff, and a totally nonsmoking environment.

HFES has a fantastic group rate of \$199 per room per night plus assorted taxes. Before you can reserve a room, however, you must first register for the Annual Meeting. At that time you'll be provided with a code that will allow you to book your hotel room. This helps to ensure that our rate is provided only to meeting attendees. Our room block is limited, so register early. Registration and hotel booking will be available in early May, so please bookmark the HFES Web site. Notification will be sent via postal mail and e-mail.

With all that's in store for you – both on and off the technical program – we know you'll enjoy your visit to New York City for the HFES 52nd Annual Meeting. See you there!

Technical Program and Tech Tour Highlights

The program for the 52nd Annual Meeting has been finalized and offers the usual broad range of topics. HFES is grateful to the Technical Program Committee and the TG program chairs for evaluating this year's submissions. More than 480 lecture papers, panels, symposia, demonstrations, and posters will be presented in 107 sessions from Tuesday through Friday, September 23–26.

Among the highlights of the technical program are the following sessions:

- “Stanley Roscoe: Technical Legacy – Enduring Influence” (Aerospace Systems TG, Tuesday at 10:30 a.m.)
- “Beyond PowerPoint: Tools for Rapid and Accurate Idea Transfer” (Communications TG, Thursday at 10:30 a.m.)
- “The Real Deal: Lessons from Human Factors Leaders” (General Sessions, Tuesday at 1:30 p.m.)
- “Industrial Ergonomics in the Biosciences” (Industrial Ergonomics TG, Thursday at 3:30 p.m.)
- “The Boeing 787 Dreamliner: A Case Study” (Product Design TG, Wednesday at 8:30 a.m.)
- “Ethical and Privacy Issues in On-Road Driving Data” (Surface Transportation TG, Thursday at 10:30 a.m.)

Thanks to Mark Lee, Aideen Stronge, and LTC James Merlo, we also have an excellent lineup of technical tours. On Tuesday afternoon, Humanscale will feature its design studio, where ergonomic office products are developed. On Wednesday, attendees may choose to visit Google's New York City facility, where they can tour the usability lab, or the New York Stock Exchange NYSE/Euronext Group to learn about how human factors practices have been applied to the trading floor. Thursday features a tour of the U.S. Military Academy at West Point, one of the nation's treasures, with time for a history tour, lunch, and a visit to the systems engineering CAVE Automatic Virtual Environment and DoD Research Lab.

Plan to attend the 52nd Annual Meeting, and watch the HFES Web site for the opening of registration in early May.

Author's Kit Now Online

The author's kit containing instructions for uploading final proceedings papers is now available at <http://www.hfes.org/Web/HFESMeetings/08AMAuthorsKit.html>. If your paper was accepted, you should have already received an acceptance notification from the program chair of the technical group to which you submitted your paper. Production-ready papers are due no later than midnight Pacific time on Tuesday, **May 27, 2008**.

The author's kit includes formatting and layout instructions, page limits, graphics embedding, copyright and clearance requirements, and uploading instructions. Also included is information about the Alphonse Chapanis Best Student Paper Award, presentation time limits, requests for audiovisual equipment, and information for student volunteers.

Display Educational Materials

During the HFES 52nd Annual Meeting, representatives of graduate and undergraduate programs in human factors/ergonomics are invited to display brochures, applications, and other materials in an exhibit booth hosted by the HFES Education Technical Group and the Student Affairs Committee. The booth will not be staffed, but program representatives who wish to be present during exhibit hours may do so (limited to three people in the booth at any given time).

The Exhibit Hall will be open Tuesday, September 23, from 3:00 to 6:00 p.m., on Wednesday from 9:00 a.m. to 6:00 p.m., and on Thursday from 9:00 a.m. to 3:30 p.m. Any leftover materials must be picked up during teardown hours (Thursday, 3:30 to 8:30 p.m.).

For further information, please contact HFES Communications Director Lois Smith at lois@hfes.org, 310/394-1811, fax 310/394-2410.

Student Roommate Matching

Student Volunteers Cochair John Morris has set up a student roommate-matching service. If you need to find a roommate, send John an e-mail (john.morris@ttu.edu) and include the following information in your message: name, gender, university you are attending, phone number and e-mail address, dates of attendance, housing preference (conference hotel or other hotel), preference for housing based on location (closest to conference) or rate (least expensive), smoking or nonsmoking, and maximum number of students per room.

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

CALL FOR PAPERS

Psychophysiology in Ergonomics Conference

Submissions are welcomed for the 7th International Conference on Psychophysiology in Ergonomics (PIE 2008), to be held Sunday, September 21, 2008, in New York City in conjunction with the HFES 52nd Annual Meeting. PIE is an international organization of ergonomists, psychologists, and engineers from industry, government, and academia who have common interests in the application of psychophysiological methods in human factors/ergonomics. Presenters do not have to be a member of PIE, but papers must have a focus on psychophysiology or closely related areas such as neuroergonomics or augmented cognition, in HF/E research or application.

Submission guidelines can be found at the PIE Web site, <http://www.pie-iea.org>. The deadline for submissions is **July 1, 2008**. ☒

Potomac Chapter Symposium at Capital Science Weekend

By *Gerald P. Krueger*

The HFES Potomac Chapter presented a mini-symposium on March 30, 2008, entitled “Human Factors and Driving Safety Research” as part of the Washington Academy of Sciences (WAS) Capital Science Weekend 2008. The event was held at the National Science Foundation offices in Rosslyn, Virginia.

The Potomac Chapter’s driver safety presentations included “What Instrumented Vehicle Research in Naturalistic Driving Studies Tells Us About Crash Risk and Causation” (Ronald R. Knipling, Virginia Tech Transportation Institute); “The Costs of Shifting Attention After Being Interrupted While Driving” (Christopher A. Monk, George Mason University); “Effectiveness of Internal vs. External Cues and Knowing When to Switch From One to the Other While Performing Concurrent Tasks – e.g., Driving” (David M. Cades, George Mason University); and “Effects of Health, Wellness and Fitness on Commercial Driving Safety” (Gerald P. Krueger, Krueger Ergonomics Consultants).



From left to right: Christopher A. Monk, David M. Cades, Gerald P. Krueger, and Ronald R. Knipling.

The Washington Academy of Sciences’ biennial Science Weekend at NSF showcases advancements in research by members of almost 60 affiliated Washington, D.C. – area scientific societies. These societies represent researchers in such diverse fields as anthropology, plant biology, chemistry, forestry, and engineering. This year’s stirring keynote address, “The Future of U.S. Innovation: Fate or Fatality,” was presented by NSF Director Arden Bement. Other featured events included a thought-provoking talk, “Symmetry: From Human Perception to the Laws of Nature,” by Mario Livio, senior astrophysicist and head of public outreach at the Space Telescope Science Institute, and presented another, “Science and Size” by Maxine Singer, emeritus scientist at the National Cancer Institute.

In this multidisciplinary WAS forum, lively discussion about applications of human factors and driving safety research prompted invitations by the prestigious *WAS Journal* for submission of papers on these and other forms of human factors research. Opportunities like these, in which members showcase HF/E stud-

ies to scientists in other disciplines, should be fostered. Human factors scientists are invited to participate in this exciting WAS biennial event again in March 2010. Visit <http://www.wasacadsci.org> for details.

Gerald P. (Jerry) Krueger has been doing applications consulting work, research, and teaching on commercial truck driver alertness, fatigue, health, and wellness for more than a decade for the Department of Transportation and the National Research Council’s Transportation Research Board. ☒

ERGONOMICS IN DESIGN

Hot Topics for *Ergonomics in Design*

By *C. Melody Carswell, Editor*

The editorial board of *Ergonomics in Design* has recently identified a series of topics that we would like to see covered in our pages. Although we are happy to consider manuscripts about other subjects, we are particularly interested in receiving manuscripts about any of the following:

- telemedicine, including ambulatory monitoring devices, wireless-monitoring diagnostic devices, and point-of-care devices;
- the respective roles of interaction designers and human factors professionals;
- emotion and usability;
- cultural ergonomics and how it interacts with usability and aesthetics;
- design of small displays;
- design of large-scale displays;
- technology for distance education; and
- green technology.

Readers interested in submitting a manuscript should keep in mind that the length of feature articles is no more than 3000 words. Case Notes, or short case studies, are a maximum of 2000 words. Most departments restrict manuscript length to 1500 words. These departments include Global Ergonomics, Professional Issues, Perspectives, and Provocations.

Inquiries and articles are welcome; please send them via e-mail to HFES Assistant Managing Editor Jason Dean (jason@hfes.org, 310/394-1811, fax 310/394-2410). We look forward to receiving your submissions. ☒

IN THE NEWS

William Dowell, director of research at Herman Miller, was interviewed for an article in the *Washington Post* in January that recognized the 50-year anniversary of the introduction of the Eames lounge chair. Dowell described the effectiveness of the chair’s innovative design in limiting strain on the spine and lower back.

John D. Lee, associate professor at University of Iowa, was quoted in an article on technology and driver distraction for MSNBC in March. He commented on the need for regulatory standards to keep pace with high-tech car gadgets, including increasingly sophisticated GPS devices.

HFES Fellow **William S. Marras** was interviewed on *Good Morning, America* in November 2007 for a segment on back injuries among auto workers. Marras (Honda Professor and Director of the Biodynamics Laboratory, Institute of Ergonomics, Department of Industrial and Systems Engineering, Ohio State University) has performed groundbreaking research demonstrating that simple behavioral or industrial changes can help to prevent back injuries.

HFES Fellow **David D. Woods**, professor at Ohio State University, was quoted in the article, "Psychology's Growth Careers," which appeared in the April 2008 issue of *Monitor on Psychology*. He contends that human factors students who also take courses in digital production, new media, and innovation are able to more easily integrate their product into the context and goals of human activity. ☒

SHORT COURSES

NC Occupational Safety and Health Education and Research Center. Contact Nelson W. Couch, University of North Carolina, Chapel Hill, 100 Friday Center Dr., Chapel Hill, NC 27599, ncouch8@earthlink.net, <http://osherc.sph.unc.edu/ce.htm>.

COHN/Safety Management Certification Review Course, June 9–12, 2008

Center for Occupational and Environmental Health, University of California, Berkeley. Judy Village, CPE, MSc from the University of British Columbia, Canada, will present two interactive, one-day ergonomics workshops at UC Berkeley's annual Occupational Safety and Health Summer Institute.

Ergonomic Quality in Facility Design, August 4, 2008, Oakland, CA, <http://www.coebce.org/courses/ergonomic-quality08.htm>.

Ergonomic Assessment of Upper Limb Risk Factors for Effective Return-To-Work, August 5, 2008, Oakland, CA, <http://www.coebce.org/courses/ergonomic-assess08.htm>.

Harvard School of Public Health, Center for Continuing Professional Education. Contact Jack T. Dennerlein, CCPE - Dept. A, 677 Huntington Ave., Boston, MA 02115-6096, 617/384-8692, fax 617/384-8690, contedu@hsph.harvard.edu, <http://www.hsph.harvard.edu/ccpe>.

Ergonomics and Human Factors: Strategic Solutions for Workplace Safety and Health, September 8–11, 2008, Boston, MA. ☒

Announcement deadlines: First day of the month prior to the desired issue; for events or deadlines within the first three weeks of a month, send information at least two months in advance. Items are published according to space availability. The full Event Calendar is available at <http://hfes.org>.

SID '08: Society for Information Display International Symposium, Seminar, & Exhibition, May 18–23, 2008, Los Angeles, CA. Society for Information Display, 610 S. 2nd St., San Jose, CA 95112, 408/977-1013 fax 408/977-1531, <http://www.sid.org/conf/sid2008/sid2008.html>.

Human Factors and NextGen: The Future of Aviation, May 28–29, 2008, Arlington, TX. HFES, Federal Aviation Administration, American Psychological Association. University of Texas at Arlington, 701 S. Nedderman Dr., Arlington, TX 76019, b.johnson@ttu.edu; <http://astg.hfes.org>.

SEGD Annual Conference + Expo, May 28–31, 2008, Austin, TX. Society for Environmental Graphic Design, 1000 Vermont Ave. NW, Ste. 400, Washington, DC 20005, 202/638-5555, fax 202/638-0891, <http://www.segd.org>.

2008 Technical Communication Summit, June 1–4, 2008, Philadelphia, PA. Society for Technical Communication, 901 N. Stuart St., Ste. 904, Arlington, VA 22203, 703/522-4114, fax 703/522-2075, <http://www.stc.org/55thConf/>.

XXth Annual International Occupational Ergonomics and Safety Conference 2008, June 12–13, 2008, Chicago, IL. International Society for Occupational Ergonomics and Safety, Hilton Suites, Chicago/Oakbrook Terrace, 10 Drury Ln., Oakbrook Terrace, IL 60181, <http://isoes.info/conference.htm>.

Healthcare Systems, Ergonomics and Patient Safety (HEPS) International Conference, June 25–28, 2008, Strasbourg, France. International Ergonomics Association, <http://www.iea.cc/index.php?contID=home>. <http://www.heps2008.org>.

XVIII World Congress of Safety and Health at Work, June 29–July 2, 2008, Seoul, South Korea. Asia Pacific Occupational Safety and Health Organization, aposho@kosha.net, <http://www.aposbo.org/index.jsp>.

2008 Undersea Human Systems Integration Symposium, July 30–31, 2008, Bremerton, WA. American Society of Naval Engineers, 1452 Duke St., Alexandria, VA 22314-3458, 703/836-6727, fax 703/836-7491, <http://www.navalengineers.org/events/uhsi.html>.

★ **North American Congress on Biomechanics**, August 5–9, 2008, Ann Arbor, MI. University of Michigan, 627 Oxford, Ann Arbor, MI 48104-2634, 734/764-5235, fax 734/764-1557, <http://www.nacob2008.org/>.

★ **Fourth International Conference on Traffic & Transport Psychology**, August 31–September 4, 2008, Washington, D.C. International Association of Applied Psychology, <http://www.icttp.com>.

★ **Biomechanics '08: International Congress of the Polish Society of Biomechanics**, August 31–September 3, 2008, Wroclaw, Poland, http://www.biomechanics2008.awf.wroc.pl/index_en.php.

★ Indicates new listing

Bulletin

Volume 51, Number 5 May 2008

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POSTMASTER:

Send address changes to the HFES Bulletin,
Human Factors and Ergonomics Society,
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310/394-1811, fax 310/394-2410, <http://hfes.org>

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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!

HFES 52nd Annual Meeting

Proceedings papers are due **May 27, 2008**.
If your paper was accepted for the 52nd Annual Meeting, please go to <http://www.hfes.org/Web/HFESMeetings/08AMMAuthorskit.html> to view the paper preparation guidelines.

HFES Digital Library

The HFES Web site now has a main page specifically for Digital Library (<http://hfes.publisher.ingentaconnect.com/content/hfes>), which will make it easier for members to access the content.

Reviews of Human Factors and Ergonomics

Volume 3 Edited by Deborah A. Boehm-Davis



Volume 3 of *Reviews of Human Factors and Ergonomics* includes six chapters of the most comprehensive and up-to-date material on a wide variety of topics that spans the whole of human factors. They are designed to be accessible to a wide audience and thus should be an excellent basis for an upper-level undergraduate or beginning graduate course in human factors.

The *Reviews* series is broader in scope than handbooks and deeper in detail than encyclopedias, and it includes both discipline-oriented and problem-oriented chapters.

Volume 3 contents:

- Analysis of Cognitive Work** – Ann Bisantz & Emilie Roth
- Macroergonomics: The Analysis and Design of Work Systems** – Hal W. Hendrick
- Human Factors of Homeland Security** – Nancy J. Cooke & Jennifer L. Winner
- Task Interruptions** – J. Gregory Trafton & Christopher A. Monk
- Research-Based Guidelines for Multimedia Instruction** – Richard E. Mayer
- Railroad Human Factors** – E. Donald Sussman & Thomas G. Raslear

ISBN 978-0-945289-28-9, 210 pp., paperback. \$80 HFES members; \$95 nonmembers; plus shipping/handling. Secure online ordering is available at hfes.org (select "Publications > Books").



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