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Human Factors Achieves Target for Speedier Publication

By Nancy J. Cooke, Editor

The first issue of *Human Factors* was published in 1958, and we are rapidly approaching the 50th anniversary of our journal. Special sections, a panel of past editors at the 2008 meeting, and a book of selected journal articles are planned to commemorate this milestone.

The journal, like HFES itself, has evolved over the last 50 years in terms of both content and style. Most notable in recent years is our shift from a purely paper-based journal to electronic versions on the Web and on CD, as well as an online system for submissions and reviews. We have seen an increase in submissions with these changes.

Although you may be well aware of these shifts to Web-based submissions, reviews, and publishing, you may not know about some of the subtler changes associated with the journal. In order to decrease time to publication, we have tightened reviewer deadlines (four weeks maximum). We have also decreased the time allowed for revision and re-submission (usually eight weeks). These shorter deadlines, combined with regular automated reminders to reviewers from Manuscript Central, have resulted in an average review turnaround time of 60 days (compared with up to 200 days), achieving what we feel is the best-case duration of the review cycle.

We have also made changes to speed the production cycle – the time from acceptance to publication. We have put stringent

limitations on the length of papers, thereby allowing more work to be published per issue. We have also increased the number of issues from four to six per year and the number of pages from 704 to 1,184 in 2007. Our production cycle, which has been as long as 18 months, is already down to 9 months for papers accepted today (see the graph below). Our goal is to further decrease the production cycle to 6 months.

The implications of these changes for authors are worth noting. These reductions in editorial and production time mean that

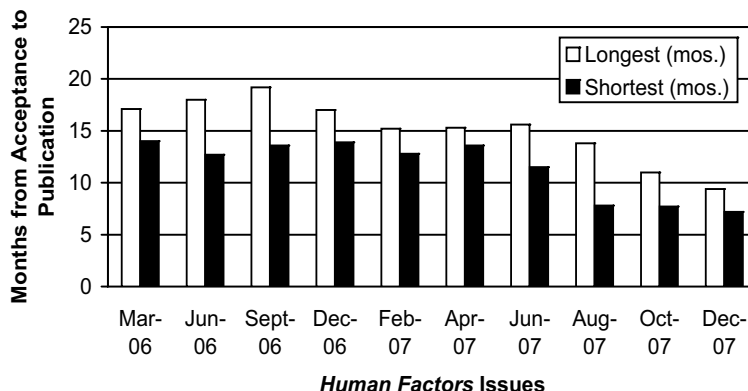
if a paper submitted today undergoes one eight-week revision and is then accepted for publication, it can be published in 12–15 months. This means that your work can be communicated quickly and cited early enough to influence impact ratings. It also means that those of us in the human factors/ergonomics field, as well as professionals in related fields, can better keep up with the latest research findings and theoretical developments.

My editorial team and I would like to encourage you to spread the word about our shortened publication time and to help us dispel

the myth that papers submitted to *Human Factors* take years to see the light of day. We are also interested in hearing from you about ideas for improving our journal and for commemorating its golden anniversary. You may contact me at ncooke@asu.edu.



2006–2007 Production Turnaround



This chart illustrates one aspect of improved turnaround time for papers submitted to Human Factors: time from acceptance to publication, showing the papers with the longest and the shortest wait times per issue. This improvement and the achievement of the optimum time from submission to first decision (60 days) result in significantly faster publication.

DBIS Reports on HF/E Research

A number of TV news stories about human factor/ergonomics work, produced through the American Institute of Physics' Discoveries and Breakthroughs Inside Science (DBIS) program, are featured on the HFES Web site. To view the clips, go to <http://hfes.org> and click the link for "Human Factors/Ergonomics in the News." DBIS aims to inform the general public about important scientific research and applications that will have an impact on everyday life.

Recent DBIS stories featured on the HFES Web site include new aviation technologies to reduce passenger jet lag, GPS navigation for the blind, and safer airport runways. Currently in production is a story on the causes of motion sickness. Students in a University of Minnesota human movement lab are working to dispel the theory that one's inner ear is involved in motion sickness. They are also interested in predicting who will get motion sickness and figuring out why others don't.

HFES invites your ideas for HF/E stories for consideration by DBIS. Guidelines may be found at <http://www.hfes.org/Web/DBISsubmission.html>. For more information, please contact HFES Communications Director Lois Smith (lois@hfes.org). ☉

JCEDM

First Issue of Cognitive Engineering Journal Published

The Spring 2007 issue of the Society's newest publication, *Journal of Cognitive Engineering and Decision Making*, has just been released in print and online. Additional issues will be published in the summer, fall, and winter.

The JCEM Web page includes details about subscribing, the Editorial Board, contents of the first issue, information about submitting a paper, and a link to the online edition. The journal is available at special rates for HFES members, and the first issue may be viewed online free for 30 days at <http://www.ingentaconnect.com/content/hfes/cogeng>. ☉



Bulletin

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"Games to Explain HF" Presented at NSBE Convention

By Ronald G. Shapiro, Sharmnia Artis, and Tonya Smith-Jackson, HFES Diversity Committee

For the fourth consecutive year, HFES was represented at the National Society of Black Engineers (NSBE) Convention. This year, the conference was held in Columbus, Ohio, from March 28 to April 1.



From left to right, Sharmnia Artis, Brenden Matthews, Phil Santil, Kimberly McCants, Francesco Tena, Tonya Smith-Jackson, Ron Shapiro, Drickerson Saint Louis, and Dung Dang.

We presented "Games to Explain Human Factors: Come, Participate, Learn, and Have Fun!!!" to a packed room of about 100 attendees from NSBE's Pre-College Initiative Program. Attendance was higher than expected, and we had to turn away more than 60 people.

We distributed about 250 "Love an Engineer" buttons, compliments of Virginia Tech, outside our session room. These buttons were extremely popular and may have helped us attract some of the audience. Smith-Jackson, the first presenter, explained human factors, starting from a definition offered by Al Chapanis, and discussed required and recommended knowledge for the field.

The remainder of the session focused on human strengths and limitations that need to be accommodated in system design. Each strength and limitation was illustrated through audience involvement in a variety of activities and games, including multitasking, sound localization, attention to details, object localization, paired-associate learning, perceptual adaptation, response competition, and responding.

We concluded with a "final exam" in which participants explained the activity they performed and how it illustrated human performance and how it related to system design. Kimberly C. McCants, a junior at Columbus Brookhaven High School with an aspiration to study psychology and engineering, was selected as the "Hardest-Working Volunteer" by the participants and won the Champion Award. (Maybe Kim will be our Society president in 2047.) Numerous prizes – an MP3 player and accessories, radios, Beanie Babies, and candy – were awarded to Kim and the semifinalists. Other semifinalists included Phil A. Santil, Francesco S. Tena, and Drickerson Saint Louis, juniors at Boston Latin High School in Boston, Massachusetts; Dung T. Dang, a junior at Fowler High School in Syracuse, New York; and Brenden T. Matthews, an eighth-grader at Cherry Creek Challenge Magnet School in Denver, Colorado.

Comments from students and teachers were extremely positive, and we answered questions from numerous attendees. We also provided extensive information about careers in human factors.

HFES Member Participation Needed

The Diversity Committee is seeking HFES members who can join us in bringing human factors information to students from a variety of backgrounds. The committee has established contact with the American Indian Science and Engineering Society (AISES) and anticipates submitting a presentation proposal for their November conference in Phoenix, Arizona. We need your support in reaching out to other diversity organizations and schools with students from diverse backgrounds on the national, state, and local levels. The "Games" presentation is available to HFES members to help with this effort, but it is by no means the only possible presentation. Indeed, we invite you to discuss any additional ideas via e-mail or at the Diversity Committee breakfast meeting to be held during the HFES 51st Annual Meeting in Baltimore this October.

You are invited to join the Diversity Committee or receive tips and materials on how to establish contact with colleges, schools, and diversity organizations. Materials include a copy of the Diversity Committee brochure, a copy of the NSBE HFES Photo Album, an electronic copy of the "Games" presentation, and "Love an Engineer" buttons to give out at your presentations. Please contact Ron Shapiro (rshapiro@us.ibm.com), Tonya Smith-Jackson (smithjack@vt.edu), or Sharnnia Artis (sartis@vt.edu). ☉

CHAPTERS

Jolly Good Times at the Europe Chapter Annual Meeting

By P. A. Hancock

The 2006 Annual Meeting of the HFES Europe Chapter took place on November 8–10 at the University of Sheffield's Department of Psychology, Sheffield, England. Present were more than 80 attendees, who were treated to more than 40 presentations and numerous posters on topics including haptic interfaces, train-driving ergonomics, team situation awareness, and fuzzy signal detection theory.

The meeting featured scientists from all over Europe as well as a remarkably diverse group of attendees from around the world. This strong and vibrant gathering gained special power and unity from the fact that there were no concurrent sessions, and both coffee and meal breaks afforded crucial opportunities for professional exchange.

The highlight among the many insightful presentations was the keynote address by Neville Moray in his final scientific presentation (he is now retired). He regaled the audience with stories from his 50 years of involvement in applied psychology in the most poignant of circumstances, given that the Department of Psychol-

ogy at the University of Sheffield had been his first professional appointment. In typical Moray fashion, he called for the continuing integration of psychology with the harder, mathematical facets of engineering to develop reliable predictive models of the human operator. Still an advocate of the "wrong and strong" school, Moray argued that human factors/ergonomics should emphasize its allegiance to the mandate of "making it work" over the more psychologically driven search for an unassailable "grand truth." One cannot help but admire the breadth and depth of his scholarship and the fact that he could present, from immediate personal experience, the history of human factors/ergonomics from its beginnings to the present day.

The meeting, chaired by Dick de Waard and Bob Hockey, culminated in a Europe Chapter dinner at a local Italian restaurant, where a good time was had by all. It remains for us to thank our hosts – particularly Bernd Lorenz, president of the Europe Chapter – for their hospitality and courtesy, and to encourage readers to seek out and acquire some examples of the most interesting set of proceedings from past and present meetings (go to <http://hfes.org> and click the Publications bar) of this important arm of our Society.

Peter Hancock is Provost Distinguished Research Professor in the Department of Psychology and the Institute for Simulation and Training at the University of Central Florida.

Alamo Chapter Symposium Spurs Revitalization

By Barry Goettl, Alamo Chapter President

The HFES Alamo Chapter, San Antonio, Texas, sponsored the South Texas Symposium on Human Factors and Ergonomics on March 30, 2007. The symposium was hosted by the Human Research and Engineering Directorates Medical Field Element and was held at Fort Sam Houston.

Despite an impressive South Texas rainstorm, more than 30 people attended the symposium, representing organizations including the U.S. Army, U.S. Air Force, Southwest Research Institute, Auburn Engineers, various Department of Defense contractors, and several universities, including Texas Tech University, Texas State University, and Our Lady of the Lake University. Lt. Col. Rawson Wood of the U.S. Air Force School of Aerospace Medicine kicked off the event with a keynote address covering a wide variety of human factors issues on the C-17 aircraft.

The symposium included 18 paper presentations divided into four sessions. The first session, on driving behavior and spatial skills, addressed topics such as collision perception, risk assessment and acceptance, and the use of verbal feedback to train spatial skills. The second session, on human-system integration and ergonomics, included the design of computer-based training systems, memory and Web page navigation, factors that influence the enjoyment of video games, and the biomechanics of slips and falls. The third session focused on human factors issues in medicine and medical training; papers in this session covered topics such as elderly stereotypes that influence performance on a simulated surgical task, the prediction of the academic performance of students in Army medical training, neurocognitive assessment

of ADHD, and physiological status monitoring of soldiers. The final session, on aviation human factors, dealt with the effect of sleep deprivation on pilots, the information needs of air traffic control operators, workload and medical standards of unmanned combat air vehicle pilots, and cockpit displays for unmanned air vehicles. The presentations generated many interesting and entertaining discussions.

The symposium is part of a revitalization effort that the Alamo Chapter initiated in 2006. The revitalization goals of the symposium were to increase the awareness of human factors issues and the Alamo Chapter within the local community and to attract student interest in the field. Student attendance and participation was encouraged through free admission and an award for the best student paper. Timothy Ballew of Texas Tech University won this award for his presentation, "Can Heuristic-Based Design Make a Video Game More Enjoyable?"

Overall, the symposium was successful in increasing awareness of the chapter, but it represents a single step in the revitalization process. Future efforts will include reaching out to other professional organizations and HFES chapters to cosponsor meetings and organize a regional conference on human factors. More information on the Alamo Chapter and the symposium, including access to the abstracts, can be obtained at <http://www.alamo-hfes.org>. ☉

ANNUAL MEETING

Author's Kit Now Online

The author's kit containing instructions for finalizing proceedings papers is now available at <http://www.hfes.org/Web/HFESMeetings/07AMAuthorsKit.html>. If your paper was accepted, you should have already received an acceptance notification from the chair of the technical program to which you submitted your paper. Production-ready papers are due no later than *June 11, 2007*.

The author's kit includes details such as 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 student volunteers. ☉

PEOPLE

Caroline Joseph, Mahiyar F. Nasarwanji, Priyadarshini R. Pennathur, and Richard T. Stone of the University at Buffalo, State University of New York, won first place in the first Ergonomics Student Design Competition at the 10th Annual Applied Ergonomics Conference in Addison, Texas, in March. The "Ergonauts" team assessed, analyzed, and calculated ergonomic risk factors and design solutions in a case study involving a bed-making task.

In Memoriam: Kevin P. Granata

It is with great sadness that HFES reports the untimely death of Kevin P. Granata in the Virginia Tech tragedy on April 16, 2007. He was 45.

Kevin received his Ph.D. in 1993 from Ohio State University. He worked in the Biodynamics Laboratory as a senior research engineer for several years and made significant developmental contributions to the laboratory's biodynamic spine model. He became an assistant professor in the University of Virginia's Orthopaedic Surgery Department. Since 2003, he taught at Virginia Tech in the Department of Engineering Science and Mechanics. He was widely published and cited and had numerous research interests, including biomechanical modeling of the spine, age and gender factors influencing neuromuscular control of balance and stability, occupational factors influencing risk of musculoskeletal load and instability, neuromuscular performance in voluntary and involuntary control, and computational and robot simulation of balance and legged locomotion. Kevin was a long-time participant in HFES annual meetings as both a presenter and session chair. He was also a regular reviewer for *Human Factors* and had recently been appointed to the Editorial Board.

Kevin has been described as one of the top five biomechanics researchers in the country. His research contributed significantly to the human factors and health care fields. Fellow researchers say he focused on improving people's lives and bettering the world for humankind. He will be remembered for his positive attitude, hard work, confidence, athleticism, and family dedication. He leaves a wife and three children.

The following HFES members received promotions at Aptima, Inc.: **Frederick J. Diedrich**, Vice President of Technical Operations; **Jamie L. Estock**, Team Lead for Performance Requirements; **Rebecca A. Grier**, Team Scientist for Cognitive Systems Engineering; **Craig Haimson**, Division Director of Advanced Training Solutions; **Michael J. Paley**, Senior Vice President of Business Development; and **Emily K. M. Stelzer**, Team Lead of Cognitive Systems Engineering. Contact Aptima, Inc., 12 Gill St., Ste. 1400, Woburn, MA 01801, 781/935-3966, fax 781/935-4385. ☉

NEWS

University-Industry Center for Operator Performance Created

Wright State University and Beville Engineering, a Dayton, Ohio, human factors engineering consulting company, have formed the Center for Operator Performance, an alliance of academic and process companies that will conduct research on generic issues facing the petrochemical industry in the area of human factors and operator performance.

The center was created to provide an open forum for the identification, analysis, and dissemination of research in areas such as selection/training, interface design, decision aids, simulator effectiveness, automation, procedures, performance measurements and control room design.

“The Center for Operator Performance is an exemplary partnership between petrochemical operating companies, distributed control system suppliers, and human factors engineering companies focused on high-quality, interdisciplinary research and education on human operator performance,” said Sundaram Narayanan, chair of the Wright State Department of Biomedical, Industrial, and Human Factors Engineering, in a March 5, 2007, Center of Operator Performance press release. “The Center presents an excellent opportunity for WSU students and faculty members in both engineering and psychology to apply their human factors expertise to further the state-of-the-art knowledge in practice aimed at increased safety, reduced environmental impact, and efficiency in the petrochemical industry domain.”

The center will conduct training workshops to demonstrate methods to implement research findings and will act as a repository for human factors data in process control.

The center endeavors to find methods to enhance operator performance, facilitate an open dialogue about industry issues, share the costs of finding solutions to mutual challenges, exchange knowledge and ideas about human factors efforts in other domains, and provide access to relevant human factors data.

To learn more about the center, become a participating member, suggest a research need, or view research results, visit <http://www.operatorperformance.org>.

Pew Grants Available for “Make Voting Work”

The Pew Charitable Trusts “Make Voting Work” initiative and the Justice, Equality, Human Dignity, and Tolerance (JEHT) Foundation have announced \$2 million in grants available to help improve the U.S. election process. HFES received a special request to distribute the “Request for Proposals: New Diagnostics and New Solutions” to members.

The Make Voting Work initiative aims to improve the accuracy, convenience, efficiency, and security of U.S. elections. The initiative seeks studies that will develop new measures of the health of the election system, as well as proposals for planning grants to develop and evaluate new solutions for the election process.

Specialists in the fields of human factors/ergonomics are a key target audience because they can help to design election systems that lead to fewer voting errors, higher rates of registration, and higher voter satisfaction.

Pilot projects based on submitted proposals will be conducted in 2007 and 2008. Proposals will be accepted through *June 4, 2007*. The RFP and details about how to apply may be found at <http://www.pewcenteronthestates.org>. Interested members may also contact Research Director Scott Cody at scody@pewcenteronthestates.org.



HFES President **Waldemar Karwowski**, director of the Center for Industrial Ergonomics at the University of Louisville, was quoted in an April 13, 2007, Fort Wayne *Journal Gazette* article about the ergonomics of minicomputers. He discussed problems with the design of laptops and keyboards and the discomfort and injuries associated with them.

Hal W. Hendrick, principal of Hendrick & Associates, wrote an article for the January/February 2007 issue of *Industrial Management* entitled “Macroergonomics for Better Work Systems.” The article focused on the need to integrate organizational design and management factors into ergonomics to realize its full potential.

Najmedin Meshkati, engineering professor at the University of Southern California, was quoted in an April 17, 2007, *Los Angeles Times* article about safety precautions for a transit line project in Los Angeles. Meshkati and his engineering students examined safety problems and accident data and concluded that human factors needs to play a vital role in the design of rail crossings.

Daniel Serfaty, founder of Aptima, Inc., was profiled in an April 2007 *INC.com* article about a new, high-powered social networking system currently being developed by his company. The system will find connections between people who have highly complex technical questions or problems and the experts who have the solutions.

David Strayer and **Frank Drews**, psychology professors at the University of Utah, were quoted in a March 27, 2007, KSL Newsradio article about the dangers of multitasking. They described inattention blindness, cell phones and driver distraction, and negative effects on performance time and quality of work. ☒

CALLS FOR PAPERS

HFES Europe Chapter Annual Meeting

Abstracts are invited for the HFES Europe Chapter Annual Meeting, to be held October 24–26, 2007, in Braunschweig, Germany. This year’s theme is “Human Factors for Assistance and Automation.” Topics for posters or lectures may include aviation, railway, adaptive automation, driver behavior and surface transportation, modeling and simulation, decision support systems, and human-machine interaction.

Abstracts are limited to 200 words and must be submitted by *July 1, 2007*. Please visit <http://conference.hfes-europe.org> for more information.

Usability and HCI in Medicine

Submissions are sought for USAB 2007, Usability and HCI for Medicine and Health Care, a one-day symposium of the Austrian

CALLS FOR PAPERS, cont.

Computer Society to be held on November 22 in Graz, Austria. Full and short papers and posters are welcome, as are suggestions for tutorials and workshops. Topics include medical usability, research methodologies, HCI in health care, language analysis and processing, medical terminology, incident investigations, safety issues, human error, system development, augmented cognition, problem solving, simulations, and user-centered design.

Submissions are due on *June 9, 2007*. For more information, visit <http://www.medumi-graz.at/imi/usab-symposium>. ☒

SHORT COURSES

Eastern Michigan University, Great Lakes Regional OSHA Education Center, 2000 Huron River Dr., Ste. 101, Ypsilanti, MI 48197, 734/487-2259, fax 734/481-0509, <http://www.emuosha.org>

Principles of Ergonomics

June 19–21, 2007, Brighton, MI

Ergonomics Center of North Carolina, 3701 Neil St., Raleigh, NC 27607, 919/515-2052, fax 919/515-8156, <http://www.theergonomicscenter.com>. All courses take place in Raleigh, NC.

Office Ergonomics Accreditation Program

May 21–25, July 16–20, September 17–21, 2007

Practical Solutions in Office Ergonomics

May 16, October 17, 2007

Michigan Engineering Center for Professional Development, Contact Paul Green, University of Michigan, 2901 Baxter Rd., Ann Arbor, MI 48109-2150, 734/763-3795, pagreen@umich.edu, <http://cpd.engin.umich.edu/>

Human Factors Engineering

July 23–August 3, 2007, Ann Arbor, MI

Ohio State University, Contact Gary Allread, Institute for Ergonomics, Ohio State University, 1971 Neil Ave., 210 Baker Systems, Columbus, OH 43210, 614/292-4565, ergonomics@osu.edu, <http://ergonomics.osu.edu/>

Putting Ergonomics into Practice

May 1–4, October 9–12, 2007, Columbus, OH

University of California at Davis, UC Davis Extension, 1333 Research Park Dr., Davis, CA 95618, 800/752-0881, info@unexmail.ucdavis.edu, <http://www.extension.ucdavis.edu>. All courses take place in Davis, CA.

Designing and Delivering Effective Health and Safety Training

June 18–22, 2007

Health and Safety Intensive Certificate Program

June 25–August 3, 2007

University of California at San Diego, OSHA Training Institute, University of California at San Diego, 404 Camino del Rio S. #102, San Diego, CA 92108, <http://osha.ucsd.edu>. All courses take place in San Diego, CA.

Principles of Ergonomics

May 21–24, July 30–August 2, November 5–8, 2007

University of Michigan, Center for Occupational Health and Safety Engineering, 109 South Observatory, Ann Arbor, MI 48109-2029, 734/764-5297, fax 734/764-1557, <http://www.engin.umich.edu/dept/ioe/cohse>

Ergonomic Principles for Workplace Assessment and Design

May 8–9, 2007, Ann Arbor, MI

University of Washington (OSHA), Pacific Northwest OSHA Education Center, 4225 Roosevelt Way NE, Ste. 100, Seattle, WA 98105, 206/543-1069, fax 206/685-3872, ce@u.washington.edu, <http://depts.washington.edu/ehce/OSHA/schedule.html>

Principles of Ergonomics

June 5–7 (Portland, OR), July 30–August 1 (Seattle, WA), October 16–18, 2007 (Boise, ID) ☒

CALENDAR

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>.

★ **8th International Conference on Naturalistic Decision Making**, June 3–6, 2007, Pacific Grove, CA. Kathleen Mosier, kmosier@sfsu.edu, <http://bss.sfsu.edu/kmosier/ndm8.htm>.

UPA 2007 Conference, "Patterns: Blueprints for Usability," June 11–15, 2007, Austin, TX. Usability Professionals Association, 140 N. Bloomingdale Rd., Bloomingdale, IN 60108, 630/980-4997, fax 630/351-8490, office@usabilityprofessionals.org, <http://www.usabilityprofessionals.org>.

6th Creativity and Cognition Conference, June 13–15, 2007, Washington, DC. Creativity and Cognition Conference, Ted Selker, 20 Ames St., Cambridge MA 02139, 617/253-0291, fax 617/253-0910, selker@media.mit.edu, <http://sabrinaliao.com/cc2007/>.

★ **International Symposium on Measurement, Analysis, and Modeling of Human Functions (ISHF2007)**, June 14–16, 2007, Cascais, Portugal. <http://www.fmb.utl.pt/ishf2007>.

★ **International Conference on Auditory Display (ICAD) 2007, "Immersed in Organized Sound,"** June 26–29, 2007, Montréal, Canada. William Martens, McGill University, <http://www.music.mcgill.ca/icad2007/>.

★ **4th International Driving Symposium on Human Factors in Driver Assessment, Training, and Vehicle Design**, July 9–12, 2007, Stevenson, WA. Kathy Holeton, University of Iowa/PPC, 223 S. Quadrangle, Iowa City, IA 52242, 319/335-6804, fax 319/335-6801, kathy-holeton@uiowa.edu, <http://www.driver-assessment.org>.

★ *Indicates new listing* ☒

FIRST ISSUE AVAILABLE!

Journal of Cognitive Engineering and Decision Making

The Human Factors and Ergonomics Society is excited to launch a new publication in Spring 2007, *Journal of Cognitive Engineering and Decision Making*. *JCEDM* focuses on research that seeks to understand how people engage in cognitive work in real-world settings and the development of systems that support that work.

JCEDM differs from most journals by supporting research that grapples with the messy, hard-to-define, and difficult-to-study realities that confront humans as they attempt to interact effectively with complex environments. Emphasis is on descriptive models of decision making and macrocognition that consider people working alone or in conjunction with other individuals or intelligent systems, and the factors effecting decision making and cognition in realistic settings.

JCEDM embraces many aspects of human problem solving that have been largely neglected by experimental psychology, including situation awareness, problem definition, planning, attention and uncertainty management, mental projection and simulation, diagnosis, solution validation, adaptation, coordination and shared situation awareness in teams, and metacognition.

JCEDM invites submissions for its three topical tracks: Cognition in Context, Studies in Simulations and Synthetic Environments, and Design of Complex and Joint Cognitive Systems. Details about the three topical tracks in *JCEDM* may be found on the Web:

<http://www.hfes.org/Publications/ProductDetail.aspx?ProductID=64>. Send your *JCEDM* submissions to cedm.journal@satechnologies.com. The first issue may be viewed online free for 30 days at <http://www.ingentaconnect.com/content/hfes/cogeng>.

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Institutions	\$380

To subscribe, go to the HFES Web site (<http://www.hfes.org/Publications/ProductDetail.aspx?ProductID=64>), or contact HFES at store@hfes.org, 310/394-1811, fax 310/394-2410.

Reviews of Human Factors and Ergonomics, Volume 2

Volume 2 of *Reviews of Human Factors and Ergonomics* presents eight reviews of current topics of practical significance to human factors/ergonomics (HF/E) researchers and practitioners and anyone interested in the design of user-centered devices, systems, and processes. Each chapter provides implications for future research and real-world applications. Topics include situation awareness, crew resource management training, representation aiding, usability assessment methods, divergent visual needs in user-centered computing, multidimensional aspects of slips and falls, hearing in noise, and design of effective warnings.

About the Series

Each review in each volume of *Reviews of Human Factors and Ergonomics* covers a specific topic of timeliness and importance for HF/E researchers and practitioners. Volumes are broader in scope than handbooks and deeper in detail than encyclopedias, and they include both discipline-oriented and problem-oriented chapters. As it develops, the *Reviews* series will constitute an increasingly broad coverage of the entire field, establishing itself as the primary reference for an overview summary and status review of central HF/E topics – one that is important to students, researchers, practitioners, and the informed public.

About the Editor

Robert C. Williges is the Ralph H. Bogle Professor Emeritus of Industrial and Systems Engineering at Virginia Polytechnic Institute and State University. Williges was president of the Human Factors and Ergonomics Society and president of Division 21 of the American Psychological Association. He is a past editor of *Human Factors*, has authored more than 275 scientific publications, and has given more than 190 technical presentations at scientific meetings.

ISBN 0-945289-27-8, 300 pages, 6 x 9", paperback. \$80 HFES members, \$95 non-members, plus shipping/handling. Order online at <http://hfes.org/Publications> or contact HFES at 310/394-1811, fax 310/394-2410, store@hfes.org.

Reviews of Human Factors and Ergonomics

VOLUME 2

Edited by
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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.



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FLASH!

HFES Elections

Thanks to all members who participated in the new HFES officer nominations. Election ballots will be mailed on **June 19** and are due back to HFES on **July 24**.

HFES 51st Annual Meeting

Proceedings papers are due **June 11, 2007**. If your paper was accepted for the 51st Annual Meeting, please go to <http://www.hfes.org/Web/HFESMeetings/07AMAAuthorsKit.html> to view the paper preparation guidelines.

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