

HFES Standards Update

By Bruce Bradtmiller, Division Leader, HFES Institute Division

As division leader for the HFES Institute, I'd first like to announce that HFES's first standard might be undergoing a face-lift. ANSI/HFES 100-2007, *Human Factors Engineering of Computer Workstations*, remains our most popular standard. (ANSI/HFES 100-2007, found at <http://www.hfes.org/Publications/ProductDetail.aspx?ProductID=69> followed the first version of this standard, ANSI/HFS 100-1988, *American National Standard for Human Factors Engineering of Visual Display Terminal Workstations*.) The time has come for another five-year review to commence. HFES 100 Committee Chair Thomas B. Albin has assembled a group of subject-matter experts to begin examining the standard to see what's still pertinent and what needs to be updated based on new research, new data, or new technology in office workstations. At a minimum, we expect to see some updated anthropometric data—reflecting America's obesity epidemic—used in the recommendations for seat design.

A significant international review is also under way. International Organization for Standardization (ISO) Guide 71, *Guidelines for standards developers to address the needs of older persons and persons with disabilities*, is subject to the normal review and updating process. As with the ANSI process, ISO standards are reviewed every 5 years. Sometimes a standard is simply confirmed and reissued with a new date. Other times, changes are made to reflect new understanding, new uses of the standard, or additionally available data. ISO Guide 71 is a fundamental document, intended to help ensure that the developers of all other ISO standards accommodate the growing population of the elderly and people with disabilities. It is widely used and widely cited worldwide, so there is considerable interest in an upcoming version. The U.S. representative to the Guide 71 revision committee is Daryle Gardner-Bonneau, chair of the U.S. Technical Advisory Group (TAG) to ISO Technical Committee (TC) 159, "Ergonomics."

The ISO (<http://www.iso.org/iso/home.html>) sub-TAG, TC 159/SC3 (Ergonomics/Anthropometry & Biomechanics), has begun work on changes to ISO 7250-1, *Basic human body measurements for technological design—Part 1: Body measurement definitions and landmarks*. The changes are needed because of evolving technology in the way anthropometric data are collected. The measurement definitions and their implied anatomical landmarks (starting and ending points for the measurements) were based on historic methods and traditional tools (such as measuring tapes and calipers). These definitions work well for human measurers touching the body with their fingers. When those same definitions are translated into algorithms for the automatic extraction of dimensions from 3-D scan images, however, they produce more than one possible result, reducing the reliability of the computer-extracted dimensions.

The new version, which will explicitly define the landmarks as well as the dimensions, will more fully define the endpoints in 3-D terms to meet the needs of the scanning community. The goal is to make the new definitions more precise, yet still compatible with traditional techniques and tools. The result should be improved compatibility between traditionally measured and scan-extracted dimensions.

A final project within the standards community is a joint effort between the HFES Institute and HFES Executive Council to increase awareness about standards among students who will be the next generation's professionals. I am working with my ISO TAG chairs to compile an annotated list of all ISO ergonomics standards. HFES Professionalism Division

Leader S. Camille Peres, HFES Past President Paul Green, and others are using that information to create an educational module on standards that could be suitable for classroom use. In addition, HFES will be presenting a webinar on standards in the near future. As standards are one way we put research into practice, it is important for students and others to understand how standards are developed and what topics they cover.

For further information on any of these topics, contact me at bruce@anthrotech.net.

INSIDE HFES

HFES Digital Library Moves to SAGE Journals Online on September 15



SAGE, the Society's publishing partner, is hard at work transferring the 16,000-plus articles in the HFES Digital Library to the SAGE Journals Online (SJO) platform. In a few months, members will be able to access everything published in *Human Factors*, *Ergonomics in Design*, Annual Meeting Proceedings, *Journal of Cognitive Engineering and Decision Making*, and *Reviews of Human Factors and Ergonomics* simply by logging in at hfes.org.

The transfer is scheduled for completion by September 15. This article serves as an early alert that once the content has been moved, it will no longer be available via IngentaConnect.

Enhanced Features

SJO is powered by Stanford University's HighWire platform, which offers features and functionality that not only keep readers in context as they conduct their research but also open access to full-text articles on HighWire that are linked to references in HFES content—at no extra charge.

- Expanded discipline features—Search and browse across 50+ disciplines.
- Abstract preview—Mouse-over entries available from tables of contents and search results provide pop-up previews of abstracts without leaving the page.
- Popular articles list—Most-viewed and most-cited articles lists are readily available from all pages within a journal site.
- Improved navigation—Redesigned main portal page provides targeted options for all types of users.
- Tag-along navigation—Content features follow alongside as you scroll down the article page.
- Pop-up references—Full citations pop up when you hover over reference numbers within the text of an article.
- Keyword pivot searches—Keywords are hyperlinked to enable quick searches of that term across all content in the journal.
- Feature hideaway—Author affiliations, related links, and other functions can be expanded or hidden from view; these preferences are retained throughout a session.

Simple Login

Unlike IngentaConnect, which requires a separate username and password, with the transfer of content to SJO, the Digital Library will be accessible via a simple member login at hfes.org with your existing HFES member username and password. (Members have the option to set up an account on SJO to take advantage of saved searches, alerts that new articles and issues are available, and other enhancements.) The membership Welcome page will be updated with a link to access the entire collection when the full Digital Library has been

moved to SJO, and HFES will send reminders via e-mail and *Bulletin* updates when the transfer has been completed.

Until September 15, members can access the HFES Digital Library on IngentaConnect. If you have not already done so, be sure to register for access. Registration instructions are available at <http://www.hfes.org/web/membership/IngentaReg.pdf>. Have your membership ID number on hand, as this will serve as your subscriber ID during the registration process. If you need assistance, contact the Member Services Department at membership@hfes.org, 310/394-1811, fax 310/394-2410.

Questions about the HFES Digital Library may be directed to Communications Director Lois Smith (lois@hfes.org, 310/394-1811).

HFES Welcomes New Officers and Executive Council Members

HFES is pleased to announce the results of the 2011 election and congratulates the following newly elected officers and Executive Council members. Their terms will begin at the 2011 HFES Annual Meeting in Las Vegas.

President-Elect

Eduardo Salas
U. of Central Florida

Secretary-Treasurer-Elect

Kermit G. Davis
University of Cincinnati

At Large Executive Council Members

Cheryl A. Bolstad
SA Technologies, Inc.

John F. "Jeff" Kelley
IBM Interactive
Georgia Institute of Technology

Register for the 2012 Symposium on Human Factors and Ergonomics in Health Care



The Human Factors and Ergonomics Society invites you to attend the 2012 Symposium on Human Factors and Ergonomics in Health Care, to be held March 12–14 at the Baltimore Marriott Waterfront Hotel in Baltimore, Maryland.

The objective of the symposium is to bring together professionals and other stakeholders in both the scientific and practice realms of the health-care community and to bridge knowledge gaps among them. HF/E professionals will present the latest research, best practices, and case histories.

The opening plenary address on Monday, March 12, will be given by Lucian L. Leape, MD (<http://www.hsph.harvard.edu/faculty/lucian-leape/>), one of the founders of the National Patient Safety Foundation. The symposium will conclude on Wednesday, March 14 with the

Food and Drug Administration Human Factors Group (<http://www.fda.gov/MedicalDevices/DeviceRegulationandGuidance/HumanFactors/default.htm>) as the closing plenary speakers.

The symposium will address a variety of topics and perspectives in health-care human factors/ergonomics, organized along three main tracks:

- Patient and Health-Care Provider Safety
- Health-Care Information Technology
- Medical Device Design

Specific topics may include emergency room management, patient handling, public health, home health care, electronic health records, health-care information systems, medical information technology, design of medicine/drug delivery devices, usability testing, and regulatory requirements.

More information—including event and hotel registration—can be found on the symposium's Web site: <http://www.hfes.org/web/HFESMeetings/HealthCareSymposium.html>. We look forward to seeing you in Baltimore!

August 25 Webinar: “Design of a Public Urinal”



This month's webinar will be presented by the 2010 recipient of the Foundation for Professional Ergonomics' (FPE) Dieter W. Jahns Student Practitioner Award, Augusto Espinosa. Register today at <https://www2.gotomeeting.com/register/480815531> for the August 25 webinar, which takes place at the following times:

9:30–11:00 a.m. Pacific
10:30 a.m.–12:00 noon Mountain
11:30 a.m.–1:00 p.m. Central
12:30– 2:00 p.m. Eastern
5:30–7:00 p.m. GMT

After a night on the town, Espinosa became motivated to redesign a common item that many people tend not to think about: the public urinal. Using a human factors/ergonomics approach, he designed a urinal that better utilizes space, promotes hygiene, and saves water. Follow Espinosa as he talks about the research and design process of this award-winning concept that could one day have a positive impact on both users and businesses.

About the Presenter

Augusto Espinosa is a graduate student from the Human Factors Department at Embry-Riddle Aeronautical University. He holds a bachelor's degree in human factors psychology and is working on completing his master's degree in human factors and systems. Espinosa works as an environmental health and safety specialist at a chemical production facility in New Smyrna Beach, Florida. He has been recognized for his work in numerous national competitions in human factors/ergonomics. In addition to the Dieter W. Jahns Student Practitioner Award ("Design of a Men's Public Urinal With a Built-In Hand Sanitation System,") he won third place at the FAA Airport Design Competition for Universities.

Registration

HFES Members: This webinar is free! Registration for this webinar is available at <https://www2.gotomeeting.com/register/480815531>.

Feel free to pass this along to nonmembers, who may register for \$125. Nonmember registration is available at <http://www.hfes.org/web/EventDetails.aspx?EventID=11>.

Please Check Your June Issue of *Human Factors*

An error in the sequence of pages in a copy of the June issue of *Human Factors* was reported by a member and investigated by HFES and SAGE staff. Up to 12 copies of the issue may have been paginated incorrectly during the bindery process. The error affects the first three articles, beginning with the incorrect insertion of pages 225–229 following pages 208–212.

If your copy has this error, please contact Lois Smith (lois@hfes.org, 310/394-1811) and a replacement copy will be mailed to you. Requests for replacement copies will be honored through November 1, 2011.

The Society and SAGE regret this error.

Member Milestones: Wayne Gray



HFES Fellow and Rensselaer Polytechnic Institute Professor Wayne Gray has been awarded a Humboldt Research Award from the Alexander von Humboldt Foundation, based in Germany. The honor includes a fellowship that will enable Gray, a professor in the Department of Cognitive Science and director of the CogWorks Laboratory, to pursue research at the Max Planck Institute Center for Adaptive Behavior and Cognition (ABC) in Berlin.

The Humboldt Research Award is granted in recognition of the achievements of a researcher whose fundamental discoveries, new theories, or insights have had a significant impact on their own discipline and who are expected to continue producing cutting-edge achievements in the future.

Gray also holds fellow honors with the Cognitive Science Society and the American Psychological Association (APA). In 2008, APA awarded him the Franklin V. Taylor Award for Outstanding Contributions in the Field of Applied Experimental and Engineering Psychology. He is a past chair of the Cognitive Science Society and the founding chair of the HFES Human Performance Modeling Technical Group. He may be reached at grayw@rpi.edu.

ANNUAL MEETING

Reserve Your Seat for the 2011 Mentor-Mentee Luncheons

By Haydee M. Cuevas, SA Technologies, Inc.

In the Society's continuing commitment to supporting mentoring as a vital and valuable professional service, a series of mentor-mentee luncheons will be held during the 55th Annual Meeting to assist students and early-career and transitional professionals to develop mentoring relationships with established professionals in the field. The luncheons will be held from 12:00 noon to 1:30 p.m. on Tuesday, Wednesday, and Thursday, September 20–22. Complimentary lunch will be provided to all attendees.

Now in its seventh year, this luncheon series has provided mentoring opportunities for almost 500 HFES members. Previous participants have represented a "who's who" of some of the Society's most distinguished members. We expect many such professionals to join us this year, with different professionals participating each day.

To keep the luncheons intimate and informal, attendance will be limited to 25 (20 students or new professionals and 5 mentors) per session. Reservations will be accepted on a first-come, first-served basis, and a waiting list will be established in case of cancellations.

RSVP to haydee.cuevas@satechnologies.com by **September 9** to reserve your place. When responding, please indicate the specific day you wish to attend (Tuesday, Wednesday, or Thursday). Also indicate your affiliation (e.g., university name), field of interest (e.g., aviation, HCI, systems engineering), and career path (academia, industry, government, etc.).

To ensure the success of this initiative, we also need involvement from our most respected and established professionals. Contact me for more information about participating. HFES thanks the Aerospace Systems Technical Group for sponsoring the 2011 mentoring lunches.

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

Facing the Human Factors Challenges in Game Design: A Sneak Preview

By Felix Portnoy, University of North Carolina-Chapel Hill

What better venue than Las Vegas—"the entertainment capital of the world"—to host a discussion panel about the exciting new opportunities in the gaming industry? Humans have been playing games for thousands of years, yet from a human factors/ergonomics perspective, what do we know about creating exciting and captivating games? Simply put, how do we design *fun*?

According to the Entertainment Software Association, over 70% of Americans play computer or video games, resulting in more than \$25 billion in industry revenues. This provides HF/E practitioners and researchers a great opportunity to impact nearly every household in the country. To learn more, please consider attending a discussion panel featuring five HF/E professionals representing Electronic Arts (Veronica Zammitto), Microsoft Games (Tim Nichols), Pogo/Electronic Arts (Laura Smith), Fisher-Price (Kathleen Kremer), and Virtual Field Trips (Maria Harrington). During the panel we will review and demonstrate the unique challenges in Internet social games, console video games, and educational games using a variety of unique interfaces, such as virtual reality, tactile controls, and gesture recognition.

The panel, cosponsored by the Computer Systems and Internet Technical Groups, will take place on Wednesday, September 21, from 1:30 to 3:30 p.m. We have arranged five demo stations that will run 20 minutes both before the panel begins and after it ends. At those stations, our panelists will provide the audience an opportunity to interact with the latest products from their organizations, such as Microsoft Kinect, NBA Live, iXL learning system, and others. During the session we hope to stimulate both your left and right brain hemispheres to achieve an educational and enjoyable experience.

See you in Las Vegas!

Preview Your Presentation at Early-Morning Madness

By Anne C. McLaughlin, Kelly Caine, and Richard Pak, Early-Morning Madness Cochairs

"Early-Morning Madness" has been scheduled for Tuesday, September 20, from 7:00 to 7:45 a.m., just prior to the Opening Plenary Session. We invite you to present a 25-second preview of your paper or poster.

In general, you will present a single slide or video and have 25 seconds to advertise your talk. Your goal should be to give just the right amount of information so audience members will want to attend your full session.

All accepted authors have been sent an e-mail containing the schedule, details, and requirements for Madness presentations. If you did not receive the e-mail or have any questions, please send a message to HFESmadness@gmail.com.

Daily Newsletter Items Wanted

The HFES 2011 Annual Meeting newsletter, *The High-Roller Herald*, is now accepting items for publication. Topics may include any of the following:

- descriptions of demonstrations or exhibits
- dates and locations for university reunions/gatherings during the Annual Meeting
- features on invited speakers, other special guests, and HFES members
- previews of panels, debates, and unique sessions
- information on student-related sessions and activities
- announcements of new academic programs
- information on Technical Group invited sessions and business meetings
- news of upcoming events, conferences, and books of interest to attendees.

We encourage e-mail submissions prior to the meeting; however, we also welcome submissions from all attendees on site. Please submit dates and locations for university reunions or other meetings as early as possible.

If you would like to submit an article or learn more about how you can become involved with *The High-Roller Herald*, please contact Newsletter Chair Celeste Adamson at celeste.adamson@gmail.com. *The High-Roller Herald* also invites exhibitors and any other interested parties to advertise. Contact HFES Communications Director Lois Smith at 310/394-1811, lois@hfes.org, for details.

Take Advantage of the On-Site Career Center in Las Vegas

The HFES On-Site Career Center provides an outstanding opportunity for employers and job seekers to meet informally and in prearranged interviews. The Career Center hours for the 2011 Annual Meeting are

- Monday, September 19, 1:00 to 6:00 p.m.
- Tuesday and Wednesday, September 20–21, 8:30 a.m. to 6:00 p.m.
- Thursday, September 22, 8:30 a.m. to 5:00 p.m.

Subscribers to the HFES online Career Center may reserve booths, tables, or both at the On-Site Career Center. For a reservation form, contact HFES by phone (310/394-1811) or e-mail (placement@hfes.org) or download it at http://www.hfes.org/web/CareerCenter/2011_onsite_reservation.pdf.

Employers are encouraged to post job openings on the HFES Web site at <http://careercenter.hfes.org/hr/jobs/> by **August 24, 2011**. This will provide candidates the time to search the database and give employers time to review résumés and schedule meetings with potential candidates. The scheduling of formal or informal interviews at the Annual Meeting is the sole responsibility of the prospective employer.

Candidates looking for a job or seeking new career opportunities are encouraged to post their résumés and search for jobs in the online Career Center on the HFES Web site. This service is for HFES members only.

If you plan to be available for interviews at the Annual Meeting, bring copies of your résumé to the meeting and visit the Online Career Center (<http://www.hfes.org/web/CareerCenter/Placement.aspx>) to see a listing of employers conducting interviews during the Annual Meeting. Check back often, as this list will be updated frequently.

Correction: Early-Career Professionals Reception

At the bottom of page 4 of the HFES 55th Annual Meeting Registration Information brochure (#S4 under Social Events), the date and time of the Early-Career Professionals Reception is incorrectly listed. The correct date and time are **Wednesday, September 21, 5:30–7:00 p.m.** The brochure has been corrected and may be found at http://www.hfes.org/Web/HFESMeetings/2011_RegBrochure.pdf.

The Early-Career Professionals Reception is a first-time event that will enable young professionals from both industry and academia to network with one another and with prominent HFES members. A short program will target specific topics of concern to early-career professionals.

OTHER NEWS

Board on Human-Systems Integration (BOHSI) Activities at the National Research Council

By William S. Marras, Chair, BOHSI

The first meeting of the Board on Human-Systems Integration (BOHSI)—previously the Committee on Human-Systems Integration, and before that, the Committee on Human Factors—was held in Washington, D.C., in late April. As reported in the February 2011 *HFES Bulletin* article, “A Big Win for HF/E” (<http://www.hfes.org/web/hfesbulletin/feb2011ppmlead.html>), this group has been elevated to Board status after 30 years as a standing committee. The change in designation provides the group with more autonomy and elevates the visibility of BOHSI within the National Research Council (NRC) and the National Academies. In fact, within the Division of Behavioral and Social Sciences and Education, or DBASSE (the division of the NRC that oversees BOHSI), we are now near the top of the list in terms of project funding after having been near the bottom just a few years ago. Thus, there appears to be significant new interest in human factors/ergonomics research at the national level.

At the April meeting we welcomed several new board members: Pascale Carayon, University of Wisconsin; Sara J. Czaja, University of Miami; Andrew S. Imada, president of the International Ergonomics Association (IEA); and David Rempel, University of California, San Francisco. We look forward to meaningful and active participation with these new members.

Attendees were also fortunate to hear presentations from various subject-matter experts at the meeting. Sean Peters from the U.S. Nuclear Regulatory Commission reported on the human factors and human reliability efforts within that agency. Beverly Knapp, deputy director of MANPRINT, presented a talk entitled “The Army Implementation of Human Systems Integration.” Linda Bartoshuk from the University of Florida discussed the psychophysics of taste.

Finally, updates were presented on several BOHSI projects that are currently under way. These include the external evaluation of the National Institute for Disability and Rehabilitation Research (NIDRR) and its grantees (funded by the NIDRR); the role of HF/E in

home health care (funded by the Agency for Healthcare Research and Quality); unifying social frameworks (funded by the Office of Naval Research); and the effects of commuting on pilot fatigue (mandated by Congress and funded by the FAA).

The report on the last study (“Effects of Commuting on Pilot Fatigue”) was released on July 6. This report examines the risk of pilot fatigue attributable to commuting from home to work assignments. It concludes that although there may be a risk of fatigue associated with certain commutes, more data are needed to fully assess the risks. The full report is available free online at http://www.nap.edu/catalog.php?record_id=13201.

A recent noteworthy change within the National Academies is that all reports are now available as free .pdf downloads from www.nap.edu.

Finally, BOHSI will host a panel at the HFES Annual Meeting that will examine health-care issues in the home setting. We look forward to fruitful interactions among the panel members and meeting attendees.

National Research Council Releases “A Framework for K–12 Science Education”

On July 20, the National Research Council (NRC) released its much-anticipated report that presents a new framework for K–12 science education and identifies the key concepts and practices that all students should learn. “A Framework for K–12 Science Education” offers a new vision for K–12 education in science and engineering and represents a significant shift in how these subjects are viewed and taught.

According to the report, “K–12 science and engineering education should focus on a limited number of disciplinary core ideas and crosscutting concepts, be designed so that students continually build on and revise their knowledge and abilities over multiple years, and support the integration of such knowledge and abilities with the practices needed to engage in scientific inquiry and engineering design.”

The framework will serve as the basis for the Next Generation Science Standards, a state-led effort managed by Achieve, Inc. The framework will also inform the work of curriculum and assessment developers, researchers, teacher educators, and others.

You can access the full report at http://www.nap.edu/catalog.php?record_id=13165#toc.

Participate in ASTM Standards Development

HFES members with an interest in consumer products standards are invited to join the American Society for Testing and Material’s (ASTM) F15 Committee on Consumer Products (<http://www.astm.org/COMMIT/COMMITTEE/F15.htm>). There is no cost to join.

Committee F15, which was formed in 1973 and currently numbers more than 1,000 members, includes a number of subcommittees, each serving a different product area. The committee has jurisdiction over 90 standards, published in the Annual Book of ASTM International Standards, Volume 15.11. These standards have played, and continue to play, a pre-eminent role in ensuring the safe use and performance of consumer products. Membership is invited in all subcommittees under Committee F15.

Although committees meet frequently, attendance at these meetings is not required and is not necessary for active participation. (All ASTM technical meetings are open, and membership is not required.) Members of ASTM International participate in technical subcommittees focused on their interest areas, contributing their expertise in the development of standard test methods, specifications, and guides and representing their own interests and needs or those of their organizations. Standards under development and other documents, as well as balloting, are available online. All comments submitted on ballots must be considered by the technical subcommittees.

To join as an ASTM International Affiliate member, please contact Len Morrissey, Director, TCO Division, 610/832-9719, fax 610/832-9666, lmorriss@astm.org. Visit astm.org for more information about ASTM International.

WEP2011: Workplace Ergonomics & Productivity

WEP2011 is a new event for professionals involved in workplace ergonomics, occupational health, human resources, facilities management, and health and safety. It's the only exhibition covering workplace ergonomics and productivity in the U.K., and entrance to the exhibition is free.

Seminars will include "Making Workplace Ergonomics Inclusive: The Challenge of an Aging Workforce" by Jeremy Myerson, Helen Hamlyn Centre for Design, RCA; and "Happiness and Motivation in the Workplace: Psychosocial Aspects of Quality and Productivity" by Patrick W. Jordan, Digital World Research Centre, University of Surrey.

This event, organized by the Institute of Ergonomics and Human Factors (formerly the Ergonomics Society), will be held in London on October 26 and 27. Contact Sue Hull, Conference Manager (s.hull@ergonomics.org.uk) and view details and information at <http://www.wep2011.org.uk>.



Bulletin



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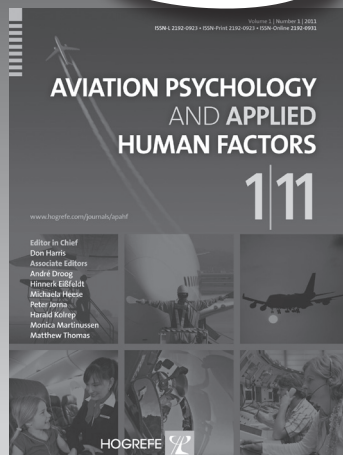
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