HFES Honors Fellows and Awardees at Annual Meeting

The Human Factors and Ergonomics Society elected six Fellows on Tuesday, October 1, 2013, during the Opening Plenary Session of the 57th Annual Meeting in San Diego, California.

Fellows

Newly elected Fellows are as follows.

- **Ann M. Bisantz**, Professor and Chair, Department of Industrial and Systems Engineering, University at Buffalo, SUNY
- **Gloria Lynn Calhoun**, Senior Engineering Research Psychologist AFMC, Air Force Research Laboratory
- **Kermit G. Davis III**, Associate Professor, Department of Environmental Health, University of Cincinnati, Cincinnati, Ohio
- **Cleotilde Gonzalez**, Associate Research Professor and Founding Director, Dynamic Decision Making Laboratory
- **Ravindra S. Goonetilleke**, Professor and Associate Head, Dept. of Industrial Engineering and Logistics Management, Hong Kong University of Science and Technology (HKUST), Hong Kong
- **Robert Hoffman**, Research Scientist, Institute for Human and Machine Cognition Faculty Associate, Department of Psychology, University of West Florida

Awards

The following HFES awards were also presented during the October 1 Opening Plenary Session:

The 2013 recipients of the **Jerome H. Ely Human Factors Article Award** are Brian R. Ott, George D. Papandonatos, and Jennifer D. Davis of Brown University and Peggy P. Barco of Washington University for their 2012 paper, "Naturalistic Validation of an On-Road Driving Test of Older Drivers." This article tackles a critical societal issue: identifying ways to improve the overall
safety of the aging driver population through more accurate assessment of that population's driving skills. Accepting on the authors' behalf was Ely Award Subcommittee Chair Greg Zacharias.

The Hal W. Hendrick Distinguished International Colleague Award was presented to Daniel Gopher, professor of industrial engineering and management at the Technion-ITT, Haifa, Israel. Gopher’s career has spanned more than four decades in both academia and government, and his contributions have encompassed theoretical research and modeling as well as practical application of his research to meet the needs of the real world.

The 2013 Paul M. Fitts Education Award was presented to John Flach, professor, Department of Psychology, at Wright State University, in recognition of his sustained, exceptional effort and success in the education of human factors/ergonomics specialists.

Douglas Allan Wiegmann of the Department of Industrial and Systems Engineering, University of Wisconsin–Madison received the 2013 A. R. Lauer Safety Award. Wiegmann is an internationally recognized expert in the fields of human factors and system safety. He is codeveloper of the Human Factors Analysis and Classification System (HFACS), a systematic method for investigating and analyzing the role of human factors in aviation accidents.

The 2013 Alphonse Chapanis Award, established in 1969, recognizes the student or students who present the most outstanding student paper at the Annual Meeting. This year’s award was presented to Prashanth Rajivan, Cognitive Science and Engineering Program, Arizona State University for “Agent-Based Model of a Cyber Security Defense Analyst Team.” Marco Janssen, School of Human Evolution and Social Change, Arizona State University, and Nancy Cooke, Cognitive Science and Engineering Program, Arizona State University, were coauthors.

The recipient of the Alexander C. Williams, Jr., Design Award, which recognizes a person for outstanding human factors contributions to the design of an operational system, was Peter Hancock of the University of Central Florida. In addition to his notable scientific research, Hancock has made several contributions to a number of design efforts, including a roadway design project for the Minnesota Department of Transportation, a heart pacemaker and a device to reduce needle-sticks, and involvement in the design of the IMPRINT system for the military.

The Jack A. Kraft Innovator Award, established in 1970, recognizes a person for significant efforts to extend or diversify the applications of human factors principles and methods to new areas of endeavor. This year, the Jack A. Kraft Innovator Award was presented to the principal scientists of the Center for Research and Education on Aging and Technology Enhancement (CREATE Team): Sara Czaja and Joseph
Sharit, University of Miami; Arthur D. (Dan) Fisk and Wendy A. Rogers, Georgia Institute of Technology; and Neil Charness and Walter Boot, Florida State University. The CREATE Team has provided innovative, collaborative work on technology for the past 13 years, producing hundreds of publications and creating significant tools, databases, and devices for industry, academia, and government.

The **Best Ergonomics in Design Article Award** was presented to Mary Carol Day and Christopher Young for their article, “This Is Your Heart Speaking. Call 911.” The article addressed multimodal alarm designs for an early warning of a heart attack and the training of patients who have an implanted heart attack detector.

The 2012 paper selected to receive the inaugural **Best Journal of Cognitive Engineering and Decision Making Article Award** is “Evaluation of an Ecological Interface Design for Military Command and Control” by Daniel Hall, Lawrence Shattuck, and Kevin Bennett. The paper reviews the theoretical frameworks and concepts underlying the design of interfaces for military command and control and relates these concepts to large issues in display, interface, and system design. Based on this review, an ecological interface design process was applied to the design of a new interface around the principles of direct perception, direct manipulation, and visual momentum.

The 2013 **Oliver Keith Hansen Outreach Award** was presented to Major Joseph N. Pugliese of the HQ Air Force Safety Center, Human Factors Division. Pugliese has brought the influence of human factors to thousands of military members, moving into key positions in aviation and safety strategic settings.

Ben B. Morgan, University of Central Florida, was selected by HFES President Eduardo Salas to receive this year’s **Arnold M. Small President’s Distinguished Service Award**, for his career-long contributions, which have brought honor to the profession and the Society.

HFES congratulates all this year’s Fellows and award recipients.

**Celebrate National Ergonomics Month**
*By Joseph R. Keebler, Chair, NEM Subcommittee*

October is National Ergonomics Month (NEM), now celebrating its eleventh anniversary! This month, the NEM Subcommittee once again hosted the NEM Expo at the HFES Annual Meeting. Presenters from the Best Action Plan contest shared
their innovative ideas with conference attendees. Thanks to everyone who contributed to the discussion and Expo activities.

We had eight excellent submissions for the NEM Best Action Plan contest, a 400% increase from last year. We hope that even more schools participate for this award next year. The winning submissions were from Alex Proaps, Old Dominion University; Jo Jardina, Wichita State University, and Rashmi Payyanadan, University of Wisconsin, Madison. We will consider this multiple-award approach as long as outstanding applications are submitted. Our hope is that submissions will continue to increase, thereby expanding the number of NEM activities taking place around the country and around the world in years to come.

Over the last decade, NEM volunteers throughout the Society have focused on four audiences: the media, corporate and government leaders, educators, and students. We are in a time of great change, and we all need to look toward the future of HF/E and spread knowledge about the field. If you have conducted NEM activities in the past or are planning an event for 2013, we applaud your commitment. If you haven’t considered participating in or developing your own NEM functions, we hope that you will be inspired this year to take steps to do so. Here are a few ideas:

- Request a speaker or NEM presentation materials (see the NEM Web page).
- Write an article for your local newspaper, newsletter, or Web site.
- Organize an event at your office.
- Volunteer to speak at a local school.
- Prepare a community service project.

It is more important than ever for the public, government, and the private sector to be made aware of the positive impact HF/E has on technological development. We strive to do this through NEM activities, and also through the contributions of all who practice HF/E year-round.

**Time to Renew Your Membership**

It pays to stay connected to your network of colleagues and new developments in the field. Renewal statements for your 2014 HFES membership will be mailed the first week in November, but you can renew anytime on the Web. Just log in to hfes.org with your username and password and click “Renew.”

HFES remains committed to providing its members with essential tools and networking opportunities. With your support and involvement during the coming year, the Society will continue to work to assist in furthering your professional goals, increasing global impact, and expanding the range of HFES publications, products, and services.

Your membership includes free online access to nearly 20,000 articles from *Human Factors, Ergonomics in Design, Reviews of Human Factors and Ergonomics*, and *HFES Annual Meeting Proceedings*. Free online access to the *Proceedings of the Symposium on Human Factors and Ergonomics in Health Care*, a membership feature that was introduced this year, will continue in 2014. Read about other membership benefits here.
Jewelry Polisher’s Workstation Wins User-Centered Product Design Award

The HFES Product Design Technical Group (PDTG) presented the 12th Annual Stanley H. Caplan User-Centered Product Design Award to Charles L. Mauro and Emily Fisher of MauroNewMedia, Inc. on October 1 at the 2013 Annual Meeting. The award, which recognizes outstanding and innovative product designs and the consumer research and design methods used to develop and evaluate them, was presented for the Polisher’s Workstation, which solves critical ergonomic issues encountered by jewelers.

“Ergonomic-related injuries are the most common workplace injuries for jewelry makers,” said Mauro, founder of MauroNewMedia, Inc., the user-interface design firm that led the workstation redesign. “In addition to the satisfaction of improving workplace conditions, it’s an honor to be recognized for the development and design of the workstations.” The workstation mitigates repetitive motion injuries, improves worker productivity and efficiency, increases polisher career longevity, and reduces training time required for new operators.

Award Cochair Dianne McMullin noted that “the recipients used classic principles of user-centered design. The polisher’s needs – gathered by observation, interviewing, surveying, and analysis of photo and video – influenced every phase of development.” The resulting product alleviates concerns that have plagued individuals in the related job functions for as long as the jewelry industry has existed.

In addition to receiving a $1,000 honorarium and trophy acknowledging the achievement, the winners gave a presentation on the product and its development methodology during the award session.

The PDTG judges also awarded an Honorable Mention to the Cerner Corporation for its Emergency Department LaunchPoint, a software application that streamlines patient information according to the needs of emergency department physicians. Bradley Scott, Rebecca Green, and Amanda Buckley submitted the project.

Close collaboration with users through on-site observation, weekly meetings with development partners, and iterative usability testing enabled Cerner to identify optimal workflows and create an application tailored to the emergency department physicians’ needs. The design focused on reflecting the patients’ progression through their visit, with an emphasis on time-sensitive phases to increase patient safety and physician efficiency.

The PDTG thanks this year’s panel of judges: David Aurelio, Sarah Campbell, Kathleen Kremer, Michael Lau, Karen Piegorsch, Jay Pollack, and Adam Shames. Tony Threatt participated as a student judge.

The call for nominations for next year’s award, and a separate call for judges, will be posted on the PDTG Web site in early 2014. For more information, please contact Dianne McMullin or Stan Caplan.

Information about past winners and judging criteria can be found here.

Fellow Nominations Due February 3

The Fellows Selection Committee invites nominations for Fellows to be elected in 2014. “Fellow” is a special class of Society membership, as established in the Bylaws, Article I, Section 4. Individuals may apply for Fellow status on their own behalf, or they may submit a nomination on behalf of another.

The Fellow Nomination Package – including instructions, nomination and recommendation forms, and supporting information – may be obtained from the Fellows page. You may also contact HFES Director of Member Services Carlos de Falla. The completed package (nomination
form, recommendation form, candidate’s vitae or résumé, and supporting documentation) must be received at the HFES Central Office on or before February 3, 2014.

New Publications Now Online!

The following publications are now available for online viewing, free for members:

- Reviews of Human Factors and Ergonomics: Health-Care Human Factors/Ergonomics, edited by Daniel G. Morrow (Volume 8)
- Human Factors, October 2013
- 2013 Annual Meeting Proceedings

To access any of these online titles, first log in at hfes.org with your member username and password. (If you’ve forgotten either or both, contact Member Services.) After you log in, you’ll find links to the online versions of all six HFES publications under the heading “Access Member Benefits” on the Welcome page.

Don’t forget – your newest member benefit is free online access to the Proceedings of the Symposium on Human Factors and Ergonomics in Health Care, starting with the 2013 volume. You can access recordings of all HFES Webinars on the Welcome page as well.

Call for Papers: JCEDM Special Issue on Resilient Cognitive Systems

The Journal of Cognitive Engineering and Decision Making (JCEDM) is pleased to announce a call for papers for a special issue on resilient cognitive systems.

The concept of resilience engineering for cognitive systems has received a great deal of attention in theory, methodology, and practice. Most recently, the 2013 International Symposium on Resilient Control Systems (ISRCS) featured a track on the topic of resilient cognitive systems. Researchers presented peer-reviewed papers addressing cognitive and organizational performance in a wide range of work domains, including forestry, control rooms, surgery, and disaster response, with multidisciplinary perspectives on processes of robust task performance, adaptive response, and successful reconfiguration in complex systems.

The proposed JCEDM special issue will feature invited ISRCS papers that expand upon the authors’ original symposium papers and new papers from a larger audience. Submissions are sought on new theories, methods, or tools on resilient cognitive systems. Submissions may also be commentaries on the original conference papers (available through cooperation with the Journal of Human Performance in Extreme Environments).

Manuscripts should be submitted to JCEDM by December 31, 2013, via the online submission Web site. For more information, please contact JCEDM Editor in Chief Amy Pritchett or the Special Issue Coeditors, Barrett Caldwell and Patricia M. Jones.

Submit a Poster for the 2014 Health-Care Symposium

There’s still time to submit a poster proposal for the 2014 HFES International Symposium on Human Factors and Ergonomics in Health Care: Leading the Way. Details about the submission process and required information can be found on the Call for Proposals Web page. Poster proposals are due October 21, 2013.
Patricia R. DeLucia To Take the Helm of Human Factors on January 1

The Human Factors and Ergonomics Society is proud to announce the appointment of Patricia R. DeLucia to the position of Human Factors editor in chief. DeLucia is a professor of psychology and coordinator of the Human Factors Psychology Program at Texas Tech University.

“I am honored and excited to be appointed editor of Human Factors. With the increase of open access publications and the competitive climate in scientific publishing, it is an interesting and challenging time to serve as journal editor,” said DeLucia.

DeLucia, who earned her PhD from Columbia University and completed a National Research Council postdoctoral fellowship at Wright-Patterson Air Force Base, served on the editorial board of Human Factors for 10 years before being appointed as an associate editor in 2009. She has more than 60 publications, including Reviews of Human Factors and Ergonomics, Volume 7, as that volume’s editor. DeLucia’s research program focuses on theoretical issues in the visual perception of depth and collision, and human factors issues pertaining to driving and health care.

“The focus of my tenure as editor will be to recruit the highest-quality scientific papers for the journal,” said DeLucia. She plans to make the submission and review process more efficient for authors and reviewers, and to engage in outreach so that authors choose Human Factors as the first place to send their best scientific papers. She may be contacted at pat.delucia@ttu.edu.

PUBLIC POLICY MATTERS

HFES Submits Comments to Presidential Commission on Election Administration

By Lewis-Burke Associates LLC

On September 5, HFES President Eduardo Salas submitted comments on behalf of the Society to the Presidential Commission on Election Administration (PCEA), emphasizing the importance of human factors/ergonomics (HF/E) considerations during the design and implementation of new voting technology, systems, and processes. Although federal agencies, such as the National Institute of Standards and Technology (NIST), have conducted research and developed guidelines for the inclusion of HF/E in voting systems reform, HFES strongly encourages application of the research and implementation of the guidelines to promote human understanding of voting technology, as well as how to use voting materials and technology more easily and comfortably.

In addition to providing background on how HF/E has already been considered in election processes and additional research and data on the importance of HF/E in voting for the PCEA, the Society’s comments outline four specific principles for consideration:

• Apply HF/E research findings when developing and implementing standards and guidelines for improving the voter experience, especially usability and accessibility.
• Apply HF/E research findings to all relevant points in the voting process, including design and layout of the voting place, design of the voting technology, ballot design, and the role of poll workers.
• Consider HF/E in developing management of and processes for poll workers, as well as poll worker materials and technology to improve efficiency and usability.
• Focus on four key characteristics when evaluating voting design and systems: the ability of the voter to cast a vote for the intended candidate; the ability to vote in a reasonable amount of time and with reasonable effort; user satisfaction (that is, the ability to vote without stress or confusion); and the ability to verify one’s choices before casting one’s vote.

On September 20, Kermit Davis, the Society’s secretary-treasurer and associate professor at the University of Cincinnati, participated in the PCEA public meeting in Cincinnati, Ohio, on behalf of HFES. He appeared before the commission to present the HFES statement and to emphasize the principles for including HF/E in future changes to voter systems.

First announced in President Obama’s 2013 State of the Union address and officially launched on May 21, 2013, PCEA is charged with identifying and recommending nonpartisan ways to improve the voting experience for all eligible voters. The commission will consider a variety of issues and topics to offer a series of recommendations and best practices to assist policy makers in improving election systems. The commission will present recommendations to the president by the end of the calendar year.

HFES members interested in participating in the PCEA dialogue are highly encouraged to submit resources, research, and comments through the Web site or by attending the public meetings scheduled around the country, details of which are on the PCEA Web site. Members can use the Society’s statement for guidance when crafting your own comments. If you have any questions about the HFES statement or about crafting your own, feel free to contact Laura at HFES government relations.

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

**ANNUAL MEETING**

**Please Complete the 2013 Annual Meeting Survey**

HFES thanks those who attended the 2013 Annual Meeting in San Diego. To help the Technical Program Committee continue to improve the meeting experience, please complete the survey by **November 8, 2013**. An e-mail with a link to the Annual Meeting Survey has been sent to all attendees; if you did not receive the message, please contact Lois Smith.

To be eligible for the prize drawing (one year complimentary HFES membership), provide your name and e-mail address in the survey. That information will be removed prior to data compilation and analysis.

**OTHER NEWS**

**Waterman Award Nominations Invited**

The National Science Foundation (NSF) is pleased to accept nominations for the 2014 Alan T. Waterman Award. Each year, the Foundation bestows the Waterman Award in recognition of the talent, creativity, and influence of a singular young researcher. Established in 1975 to commemorate the Foundation’s first director, the Waterman Award is NSF’s highest honor for promising early-career researchers.
Nominees are accepted from all sources, from any field of science and engineering that NSF supports. The award recipient will receive a medal and an invitation to the formal awards ceremony in Washington, DC. In addition, the recipient will receive a grant of $1,000,000 over a five-year period for scientific research or advanced study in any field of science or engineering supported by the National Science Foundation, at any institution of the recipient’s choice. NSF is especially interested in nominations for women, members of underrepresented minority groups, and persons with disabilities.

Eligibility and Selection Criteria

Candidates must be U.S. citizens or permanent residents. They must be 35 years of age or younger, or not more than 7 years beyond receipt of their PhD, by December 31 of the year in which they are nominated.

Candidates should have demonstrated exceptional individual achievements in scientific or engineering research of sufficient quality, originality, innovation, and significant impact on the field to place them at the forefront of their peers.

Complete nomination packages, consisting of nominations and four letters of reference, are due by October 25, 2013. The nominations and letters must be received through the FastLane system.

Please contact the Program Manager for the Alan T. Waterman Award via e-mail or at 703/292-8040 if you have any questions. You may also visit this Web site for more information.

The nomination of deserving colleagues is one of the most important and gratifying aspects of service in the scientific community. Please help celebrate the contributions of a promising young researcher by submitting a nomination for the Alan T. Waterman Award.

2014 Ergonomics Design Award Call for Entries

The Institute of Ergonomics & Human Factors is seeking entries for its Ergonomics Design Award. Entering its fifth year, the award is open to all designers and ergonomists who can demonstrate application of ergonomics to the highest standard in a project, product, or design. The winning entry will be able to display the Institute’s award logo on the marketing material for the project and receive a cash prize at the EDA ceremony at the Institute Annual Conference, which will take place in Southampton, United Kingdom on April 7–10, 2014. The winner will also receive membership in the Institute for a year and benefit from the Institute’s promotional campaign to support the award. The closing date for nominations is December 31, 2013. For more information, visit the award Web site.

CALENDAR

December 2013

49th Annual Human Factors and Ergonomics Society of Australia Conference, December 2-4, Perth, Australia

The Seventh Triennial International Aircraft Fire and Cabin Safety Research Conference, December 2-5, Philadelphia, PA

ICA 2013, 166th Meeting of the Acoustical Society of America, December 2-6, San Francisco, CA

25th Annual National Forum on Quality Improvement in Healthcare, December 8-11, Orlando, FL

January 2014

Assistive Technology Industry Association (AITA) 2014 Orlando Conference, January 29-February 1, 2014, Orlando, FL
Faculty Position in The Grado Department of Industrial and Systems Engineering
Virginia Tech

The Grado Department of Industrial and Systems Engineering at Virginia Tech invites applications for a tenure-track position starting in the 2014-2015 academic year focusing in the area of human factors engineering and ergonomics. Appointments may be made at the Assistant or Associate Professor rank.

Applicants should have achieved, or show potential to develop, a strong program of research and scholarship specializing in: cognitive ergonomics, cognitive engineering, and/or safety engineering. Preference is for individuals who have applied expertise within the areas of systems design and/or evaluation, and an ability/interest to teach relevant curricula. The position requires a Ph.D. degree, with at least one degree in human factors engineering, ergonomics, industrial engineering, or a closely-related discipline.

Applications must be submitted online at jobs.vt.edu (posting number TR0130090) and include a cover letter, current vita, research statement, teaching statement, up to three relevant research publications, and names of three references (recommendation letters to be submitted separately, by the writers). Details on how to prepare and submit all materials can be found under “Posting Details” for this position on the website. Applications will be accepted until January 4, 2014.

Virginia Tech has a strong commitment to the principle of diversity and inclusive excellence, and, in that spirit, seeks a broad spectrum of candidates including women, minorities, and people with disabilities. Virginia Tech is the recipient of a National Science Foundation ADVANCE Institutional Transformation Award to increase the participation of women in academic science and engineering careers.
Essential Resources in Human Factors and Ergonomics

Find Out How You Can Publish with CRC Press

If you’ve ever considered writing a book in your area of expertise, this is your chance. Authors and editors receive royalties on worldwide sales of print and electronic products, and are entitled to a discount on CRC Press/Taylor & Francis books.

If you are an interested author or editor, please contact:

Cindy Carelli
Senior Acquisitions Editor: Ergonomics, Human Factors, Industrial Engineering, Occupational Health & Safety
Email: cindy.carelli@taylorandfrancis.com

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