



Join the Journey!

By Eduardo Salas, HFES President



And so a new journey begins for HFES. We are welcoming new leadership, new Executive Council members, new division and committee chairs, new members, and, most important, newly renewed motivation, energy, and ideas for 2013 and beyond. A great team is in place—a team with the desire to strengthen our science, our practice, and our profession in general. This team that will work for you, the members. So, indeed, a new journey begins...and I hope you join us! After all, HFES is YOUR society!

There is much to do, much to change, and much to improve and start. I am not naive enough to think that we can change and improve all that needs to be done in a single year; no president could accomplish that. A task that big takes the collaboration of several presidents and their Councils to generate sustainable change, adapt to the times, and create initiatives for the type of professional society we want to become in the long term. And, frankly, I believe this is about you and not the Council or the president.

A few initial thoughts—to start a conversation—on what we must do and think about in the coming year:

Our Science

Our science is strong, viable, and flourishing. Many disciplines contribute to it. Our diversity is our strength, I believe. Our journals and the *Reviews of Human Factors/Ergonomics* series continue to showcase the best of our science, and it's impressive! But we need to do all that is possible to improve their reach and impact. The volumes from our *Reviews* series, for example, should be viewed by every member, and now that they are all on SAGE Journals Online (see page 2 for access details), they are more accessible than ever.

Keep sending your best thinking, empirical work, and practical ideas to our journals. Our eyes—the Executive Council—should be involved in marketing and ensuring that those in other disciplines read our work and are guided by what our science and practice tells them. Our eyes should be on strategizing and putting forth, as precisely as possible, a plan for how to systematically attain our scientific and outreach objectives.

Our Practice

HFES has made a difference in the aviation, manufacturing, space, and nuclear power industries, to name just a few. We are now heavily involved in health care. The Society needs to ensure that our practice is relevant, helps to solve human-system integration challenges, and improves individual and team performance across organizations. But more should be done. We need more evidence-based solutions, principles, guidelines, and specifications. We need to translate our science into practical terms. We need to continue to document, advertise, and show that we do make a difference. This is an ongoing concern of Executive Council members, and they continue to focus on creating opportunities to showcase our practice and move toward a path of creating evidence-based practice.

Our Profession

HFES is very diverse. That being said, my feeling is that we need to think of our diversity as an asset and not a liability. I know that we probably won't agree on everything, but at least we ought to have a shared vision of what the profession should be about. We need to search and/or find the "soul" of our profession and agree on what that soul is. Minimally, we should have that conversation. Our eyes, then, have to be on launching that discussion and seeing where it might take us. We might be surprised.

You

A word about you. You need to get involved. Many of you are. More are needed. You need to talk to the leadership. Demand more from us. You need to send ideas and possible solutions and volunteer to help (e-mail to info@hfes.org). You need to support our initiatives and activities. And, in doing so, tolerate some risk that comes with new initiatives. So, join us in the journey!

INSIDE HFES

Access the 2012 Annual Meeting Proceedings and Other HFES Publications Online

The [Proceedings of the HFES 56th Annual Meeting](#) is now online and freely available as part of your membership. Whether or not you attended the Annual Meeting in Boston, read about recent research and application work presented by HF/E professionals that you may have missed or to refamiliarize yourself with the papers you found helpful and interesting.

Besides the Annual Meeting proceedings, HFES members also have free online access to full-text content from *Human Factors*, *Ergonomics in Design*, *Journal of Cognitive Engineering and Decision Making*, and *Reviews of Human Factors and Ergonomics*. It's easy to access and search for articles of interest. Here's how.

Member Login Is the Key

In order to download, print, or save free full-text articles, you must first log in at hfes.org with your member username and password. (Forgot your login ID? Contact the [Member Services Department](#) or 310/394-1811.)

On the Welcome page, go to the "Access Member Benefits" section. The third item in the list of benefits provides links to each publication on SAGE Journals Online (SJO).

Search Within a Journal or Across All Content on SJO

There are two search windows on each publication's main page:

At the upper-left side of the page, you'll find a window to search all the journals on SAGE Journals Online, which includes all five HFES titles (and more besides!):



Below the journal's horizontal banner there is a search field on the right, where you can enter search terms to find papers just within that journal:



So log in at hfes.org today and take advantage of this valuable member benefit!

2012 HFES Fellows and Awardees Honored in Boston



Andre



Green



Berg Rice



Sanderson



Vanderheiden



Weinger



Saito



Tyrrell



McDonald



Hancock



Ayoub

The Human Factors and Ergonomics Society elected seven Fellows and presented Society-wide awards on October 23, 2012, during the Opening Plenary Session of the 56th Annual Meeting in Boston, Massachusetts.

Newly elected Fellows are as follows:

- **Anthony D. Andre**, Founder and Principal of Interface Analysis Associates, and Adjunct Professor, Departments of Industrial Engineering and Psychology at San Jose State University
- **Paul A. Green**, Research Professor, University of Michigan Transportation Research Institute's Driver Interface Group
- **Valerie J. Berg Rice**, Field Element Chief and Human Factors Engineer and Ergonomist and Research Scientist, U.S. Army Medical Department Center and School
- **Penelope M. Sanderson**, Professor, Cognitive Engineering and Human Factors, University of Queensland, Australia
- **Kay Stanney**, President, Design Interactive Inc.
- **Gregg C. Vanderheiden**, Professor, Industrial and Systems Engineering, University of Wisconsin
- **Matthew B. Weinger**, Norman Ty Smith Chair in Patient Safety and Medical Simulation and Professor, Anesthesiology, Biomedical Informatics, and Medical Education, Vanderbilt University School of Medicine

The recipient of the Jerome H. Ely *Human Factors* Article Award was Rob Gray, University of Birmingham, for his paper, "Looming Auditory Collision Warnings for Driving" (Volume 53, Number 1, February 2011). The author presented a novel, theoretically motivated display concept, in this case a "looming" auditory cue signaling a potential collision, including a well-designed experiment that compared performance obtained with this display versus a well-chosen variety of alternative displays that are regularly used, finding an interesting pattern of results.

Susumu Saito of Japan was honored with the Hal W. Hendrick Distinguished International Colleague Award. Saito has made substantial contributions to occupational safety and health in Japan through his direction of research programs in this area at the Institute for Science of Labour and through his extensive participation over several years on multiple government and in-

dustry advisory committees and panels that affect the quality of life, health, and safety of Japanese workers, children, and elderly.

The Paul M. Fitts Education Award was presented to Penelope M. Sanderson, professor of psychology at the University of Queensland, in recognition of nearly three decades of sustained, exceptional effort and success in the education of human factors/ergonomics specialists at top universities such as the University of Illinois at Urbana-Champaign, Swinburne University, and the University of Queensland.

Richard A. Tyrrell of the Department of Psychology, Clemson University, received the A. R. Lauer Safety Award in recognition of his validated, innovative techniques both to enhance nighttime visibility of pedestrians and to educate road users about the unavoidable hazards of reduced visibility at night. This program of research offers economical and highly effective routes to reducing pedestrian accidents. This research also holds the promise of saving thousands of lives annually in the United States and millions worldwide.

The recipient of the Alphonse Chapanis Student Paper Award is Anthony McDonald (University of Wisconsin-Madison) for the 56th Annual Meeting paper, “Real-Time Detection of Drowsiness-Related Lane Departures Using Steering Wheel Angle.” Coauthors are Chris Schwarz (National Advanced Driving Simulator), John Lee (University of Wisconsin-Madison), and Timothy Brown (National Advanced Driving Simulator).

The Jack A. Kraft Innovator Award was presented to Anil Mital, University of Cincinnati, in acknowledgment of his innovations in extending the applications of human factors/ergonomics to advanced manufacturing systems. He has developed techniques, procedures, and methodologies and reported on them widely so that those both inside and outside the HF/E field can apply them. In addition, he has demonstrated the economic benefits of these applications. His research and development is now referenced by more than 100 universities and is cited in numerous encyclopedias and handbooks on robotics and manufacturing design.

The Best *Ergonomics in Design* Article Award was presented to Thomas Dingus, Richard Hanowski, and Sheila Klauer for “Estimating Crash Risk” (Volume 19, Number 4, October 2011). The authors advocate that accident data must be considered in the context of real-world driving if such data are to lead to realistic preventive behavior.

Peter A. Hancock, University of Central Florida, received the Oliver Keith Hansen Outreach Award for extensive outreach activities and achievements spanning three decades and cutting across multiple levels of targeted outreach populations.

HFES President Mica Endsley presented the Arnold M. Small President’s Distinguished Service Award to M. M. Ayoub, Texas Tech University, for his career-long contributions that have brought honor to the profession and the Society.

HFES congratulates all the newly elected Fellows and award recipients.

Request for *Human Factors* Special Section Proposals

Human Factors Editor-in-Chief William S. Marras invites proposals for special section topics. Preference will be given to topics that are timely and of broad interest (see list below) and for which potential papers are complete or nearly complete. This latter requirement is necessary given an accelerated timeline (about 12 months) from topic selection to publication.

Suggested special section topics include, but are not limited to, the following:

- Supervisory control: interfaces, methodologies, and frameworks
- HF/E in technology-aided mental health care
- Recent advances in HF/E methodologies

- Human-system integration
- Dealing with the hot topic of “big data”—a collection of data sets so large and complex that it becomes difficult to process using on-hand database management tools
- Dissemination of research and application of HF/E knowledge in light of new media and technology
- Improving the usability of electronic medical records
- HF/E concerns in home health care
- Research questions around how to understand and improve scientific collaboration
- Team control of remotely piloted vehicles

Guidelines for submitting a proposal for a special section and criteria for selection are available [here](#). Proposals are due *December 1, 2012*, and will be reviewed by Marras and the journal’s associate editors. One topic will be selected from the submissions.

Submit your proposal via e-mail to HFES Communications Director [Lois Smith](#).

Paper on Equipment Sizing and Design Wins 2012 Human Factors Prize



The *Human Factors* Prize Board of Referees has awarded Hongwei Hsiao the 2012 *Human Factors* Prize for his article, “Anthropometric Procedures for Protective Equipment Sizing and Design.”

The 2012 Prize topic explored how the science of HF/E can facilitate the design of many types of products. Hsiao’s paper presents four anthropometry studies, representing a series of traditional and emerging 3-D anthropometric approaches for protective equipment design to demonstrate theories and practices for defining equipment fit and sizing schemes to advance product efficacy and safety.

Submissions to this year’s competition were judged on such criteria as the importance of implications for product design, originality of research, exemplary use of HF/E science, contribution to the HF/E knowledge base, clarity of written exposition, and soundness of methodology.

The award includes a \$10,000 cash prize and publication of the winning paper in *Human Factors*. The award was presented at a special session on Wednesday, October 24, at the HFES 56th Annual Meeting in Boston, where the recipient presented his work.

Three finalists (listed in alphabetical order) were also recognized by the Board of Referees and presented during the award session:

- “Defining Thumb Reach Envelopes for Handheld Devices,” by Edward W. Otten, Research and Engineering Development, LLC; and Keith S. Karn and Kelley S. Parsons, Eastman Kodak Company
- “Designing Devices with the Task in Mind: Which Numbers Are Really Used in Hospitals?” by Sarah Wiseman, Anna Cox, and Duncan Brumby, UCL-Interaction Centre
- “Quantification of Patient Migration in Bed: Catalyst to Improve Hospital Bed Design to Reduce Shear and Friction Forces and Nurse’ Injuries,” by Susan E. Kotowski and Kermit G. Davis, U. of Cincinnati; and Neal Wiggermann and Rachel Williamson, Hill-Rom, Inc.

The topic for the 2013 Prize will be announced shortly. Please bookmark the [Human Factors Prize Web page](#) and check back frequently for updates.

2012 User-Centered Product Design Award Presented for Patient-Monitoring System

The HFES Product Design Technical Group (PDTG) presented the 11th Annual Stanley H. Caplan User-Centered Product Design Award on October 23 at the 56th Annual Meeting. The award, given for innovative and user-centered approaches to human factors/ergonomics and industrial design, was presented to a trio of design teams who collaborated on the development of the Mindray V Series Patient Monitoring System. Continuum Advanced Systems, Design Science, and Mindray received trophies recognizing their contributions.

At a well-attended special session, HFES President Mica Endsley presented the award to Devorah Klein and John Judy of Continuum, who gave the presentation on behalf of Brian Stonecipher, who submitted the winning entry. The two gave an informative talk describing design challenges, the user-centered approaches that were taken, and the resulting design of the monitoring system.

The award recipients made it clear that reliable use of the monitoring system is critical for delivering proper patient care. The panel of judges was impressed by the scope and types of user research that was conducted, which included consideration of the use and patient environments. Equally impressive were the persistent iterations to evaluate and improve the design of the display format, mounting, and user interaction of this complex product. "It was obvious the design teams tirelessly advocated for users during the product development process," commented Dianne McMullin, award cochair.

The PDTG thanks the panel of judges: David Aurelio, Jean Schiller, Kathleen Kremer, Barry Beith, Dawn Rountree, and Savitri Dhiman. Two students, Margaux Price and Nicole Fink, joined in on the judging discussions and shared their insights but did not participate in the final decision.

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 2013. For more information, please contact [Dianne McMullin](#) or [Stan Caplan](#).

Student Chapters and Members Honored in Boston

By Kim-Phuong L. Vu, Student Affairs Committee Chair

I am pleased to announce the recipients of the 2012 HFES Student Member With Honors and Student Chapter Awards. The awards were presented during the Student Reception on October 23, at the 56th Annual Meeting.

Student Member With Honors

The following student members made outstanding contributions to the HF/E discipline and/or to HFES, as evidenced by accomplishments such as publication in an approved journal, presentations at national or international conferences, contributions to industry projects, and significant service to the Society:

- Mahtab Ghazizadeh, University of Wisconsin-Madison
- Nirathi Keerthi Govindu, Mississippi State University
- Sara McBride, Georgia Institute of Technology
- Shannon Roberts, University of Wisconsin-Madison

Best Student Chapter Award

Three levels of recognition for this award are based on contributions and achievements in 12 areas: recruitment, guest speakers, field trips, outreach, collaboration, service to HFES, exploration, social events, information dissemination, mentorship, creativity, and continuous improvement. The Gold level requires excellence in at least eight categories, and at least 50% of the chapter's members must be HFES Student Affiliate members. Silver requires excellence in at least five categories with at least 40% of the chapter's members being HFES Student Affiliates. Bronze requires excellence in at least three categories and at least 25% of the chapter's members being HFES Student Affiliates.

The following student chapters were honored (listed in alphabetical order):

Gold

California State University, Long Beach

Clemson University

George Mason University

Old Dominion University

Pennsylvania State University

Purdue University

San Jose State University

Texas Tech University

University of Central Florida

University of Houston-Clear Lake

University of Virginia

University of Wisconsin-Madison

Virginia Tech

Wichita State University

Silver

Berlin Institute of Technology

Georgia Institute of Technology

University at Buffalo, SUNY

Bronze

Mississippi State University

University of Queensland

University of Toronto

Congratulations to the 2012 awardees! I encourage members of student chapters to think about your activities in the coming year and share your achievements by submitting an application for next year's honors. The call for applications will be published in the April 2013 *HFES Bulletin*.

Fellow Nominations Due February 1

The Fellows Selection Committee invites nominations for Fellows to be elected in 2013. "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 con-

tact 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 1, 2013**.

New *JCEDM* Podcast on Politeness in Teams, Human Automation Interaction, and Etiquette

The *Journal of Cognitive Engineering and Decision Making* has just launched the third podcast in its series, consisting of author Q&A and discussions, as an opportunity to illuminate the personal side of material published in the journal.

The podcast, available [here](#), features a conversation between *JCEDM* Editor-in-Chief Amy Pritchett and two recently published authors. Christopher Miller discusses his paper, "Politeness in Teams: Implications for Directive Compliance Behavior and Associated Attitudes," which is coauthored by Peggy Wu and Tammy Ott. Michael C. Dorneich joins in the conversation, talking about "Considering Etiquette in the Design of an Adaptive System," coauthored by Patricia May Ververs, Santosh Mathan, Stephen Whitlow, and Caroline C. Hayes. Both papers were published in the June 2012 issue (free to members; first log in at hfes.org and follow the link to access *JCEDM* on SAGE Journals Online).

Stay tuned for announcements about upcoming *JCEDM* podcasts!

Valerie Gawron Reprises Modeling and Simulation Applications Webinar on November 14

Valerie J. Gawron (MITRE Corporation) will present the webinar "Modeling and Simulation Applications in Human Factors/Ergonomics," which was rescheduled from August 23 because of technical difficulties. Members can now register for the webinar [online](#). The webinar will take 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

Members who previously registered for the original webinar are asked to re-register, as it was not possible for staff to do so automatically.

About the Webinar

Models, simulations, simulators, stimulators, and emulators are all critical tools in human factors/ergonomics research, test, and evaluation. This webinar defines all five of these tools and provides examples how each has been applied to human factors. Traditional types of simulators are presented, from static mockups through in-flight simulators. Examples of nontraditional types of simulators are also described, including distributed integration simulations, virtual reality, flatworld, embedded training, cell phones, and gaming. Methods for quantifying simulator features and trends in simulator technology will be presented if time permits.

This webinar would be useful to HF/E researchers and practitioners and simulator/simulation manufacturers.

About the Presenter

Valerie Gawron has a PhD in engineering psychology from the University of Illinois and an MS in industrial engineering and MBA from the State University of New York at Buffalo. She completed postdoctoral work at New Mexico State University and worked for Calspan for 26 years. She is a human-systems integrator at the MITRE Corporation.

Gawron has served on the Air Force Scientific Advisory Board, Army Science Board, Naval Research Advisory Committee, and National Research Council. She is a Fellow of the Human Factors and Ergonomics Society and of the International Ergonomics Association and an associate fellow of AIAA. Gawron is the author of four books, including *Human Performance, Workload, and Situation Awareness Measures Handbook* (second edition) and *2001 Hearts: The Jane Gawron Story*, both of which are being used in graduate classes, the former in human factors and the latter in patient safety.

Register Today

HFES webinars are free for members. Nonmember registration is available for \$125, and nonmember student registration is available for \$40. Both nonmember groups can register [here](#).

Member Milestone: Eduardo Salas

Eduardo Salas (University of Central Florida) recently received the \$50,000 Michael R. Losey Human Resource Research Award from the Society for Human Resource Management (SHRM), the HR Certification Institute, and the SHRM Foundation. The award recognizes human resource academics or experts whose research significantly advances the field of human resource management.

Salas was awarded the Losey award for his prolific research on effectiveness, productivity, and training of workplace teams. During his 30-year career, he produced more than 400 publications that have helped bridge the scientific understanding of HR management, teams, and training to best practices that businesses and HR professionals can implement in everyday use.

Salas is the Pegasus and Trustee Chair Professor of the Psychology Department at the U. of Central Florida and the program director of the school's Institute for Simulation & Training, is a Fellow of HFES and current president.

ANNUAL MEETING

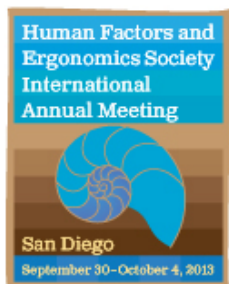
Attendees: Complete the 2012 Annual Meeting Survey

If you were able to attend the 2012 Annual Meeting in Boston, please complete the [Annual Meeting survey](#)! Responses to the survey help the Society create an Annual Meeting that is educational and worthwhile to attend. By completing the survey, you can also enter your name and e-mail address into a drawing for free 2013 membership. (Names are removed prior to data collection and analysis.) Surveys must be completed and submitted by **November 30, 2012**.

iPad 3 Lost in Boston

On Thursday, October 25, an HFES 2012 Annual Meeting registration bag was left at a table in the Westin Boston Waterfront lobby containing an iPad 3, 64GB, with an Apple black leather front cover. If you accidentally picked up the bag containing the iPad, please contact Alan Hedge (607/227-1728, ah29@cornell.edu) to verify the serial number.

Submit Your Work for the 2013 Annual Meeting



On December 17, HFES will open the online Call for Proposals for the 2013 Annual Meeting, which will take place September 30–October 4, at the Hilton San Diego Bayfront in San Diego. Case studies, debates, demonstrations, competitive product designs, new methodologies, on-site experiments, and posters are welcome.

Please bookmark <http://www.hfes.org/web/HFESMeetings> for complete submission information. The deadline for submitting any type of proposal is **February 19, 2013**.

Papers that have been published previously or presented at another professional meeting may not be submitted. All research and analyses described in a proposal must be complete when the proposal is submitted. Papers that do not present completed work will be rejected. The sole exception to this policy is for student work submitted for consideration in the Student Forum track, in which case the submitter may report on work in progress.

Note that for all accepted submissions, one of the authors must attend the meeting to present the work. All presenters are required to pay the meeting registration fee.

For questions on the submission process, please contact Lois Smith (lois@hfes.org, 310/394-1811).

OTHER NEWS

Conference Seeks Papers on Naturalistic Decision Making

Submissions are invited for the 11th International Conference on Naturalistic Decision Making (NDM) to take place in Marseille, France, May 22–24, 2013. Naturalistic decision making focuses on decision making in demanding situations, where people perform complex cognitive functions in challenging contexts. NDM is also interested in the conception and position of the technological, numerical environments (information systems, decision support systems, communication systems) used by experts during their tasks and activities of control, supervision, and decision.

Proposals are sought for both oral and poster presentations focusing on new work that surrounds complex cognitive functions that emerge in natural settings. The deadline for submissions is **January 14, 2013**. For more information, visit the [conference Web site](#).

Department of Labor Unveils Workplace Safety and Health Challenge

Developers, students, and anyone else with some technical skills and creativity are asked to enter the Workplace Safety & Health Challenge by designing tools that demonstrate the importance of

HFES BULLETIN Human Factors and Ergonomics Society

Volume 55, Number 11, November 2012

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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. 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>.

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recognizing and preventing workplace safety and health hazards and help young people understand their rights in the workplace. The deadline is **November 30**.

Entries could take many different forms: smart phone apps, interactive and informative games, social or professional networking sites, or data visualization tools that teach young people about safety and health hazards. Submissions may be designed for Internet browsers, smartphones, feature phones, social media platforms, or as native Windows or Macintosh applications.

For more information please visit the [Challenge Web site](#).

**Faculty Position in
The Grado Department of Industrial and
Systems Engineering**



The Grado Department of Industrial and Systems Engineering at Virginia Tech invites applications for a tenured/tenure-track position starting in the 2013-2014 academic year in the area of **Human Factors Engineering and Ergonomics** (posting number **0122386**). Appointments may be made at the Assistant or Associate Professor rank. For this faculty position, research, advising, and teaching capabilities that encompass one or more of the following specialty areas are sought: cognitive ergonomics, cognitive engineering, and usability engineering. Preference is for individuals who have applied expertise, including systems design and/or evaluation. Successful applicants are expected to develop a strong program of research and scholarship, and provide skilled teaching at both undergraduate and graduate levels. The position requires a PhD degree, with at least one degree in human factors engineering, ergonomics, industrial engineering, systems engineering, or a closely-aligned discipline. Candidates in the final stages of their doctoral study are encouraged to apply.

Applications must be submitted online at jobs.vt.edu 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). Review of applications will begin on **January 4th, 2013**:

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.

CALENDAR

November 2012

Human Factors and Ergonomics Society of New Zealand Conference 2012 “Getting it Right—The Role of Human Factors and Ergonomics in Sustainability,” November 22-23, Taupo, <http://www.ergonomics.org.nz/conferencenews2012.aspx>.

PLAN TO ATTEND!

**2013 Symposium on Human Factors
and Ergonomics in Health Care:
ADVANCING THE CAUSE**
March 11–13, 2013

**Human Factors and
Ergonomics Society
International
Annual Meeting**

San Diego
September 30–October 4, 2013