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Public Policy Matters

By William C. Howell, Chair, Government Relations Committee

Government policies and actions with implications for HF/E have increased dramatically over the years, and as a result, so has the involvement of HFES and its members in government affairs. Opportunities arise frequently for input on the congressional appropriations process, federal agency funding priorities, federal and state regulations and standards, and even high-level government appointments. The Committee on Human-Systems Integration (CoHSI), a standing committee of the nation’s most prestigious scientific advisory body—the National Academy of Sciences—is devoted exclusively to providing such input, and many HFES members are employed in areas in which policy is made and executed.

HFES collaborates with a number of other scientific and profes-

sional organizations in engaging policy issues and has established the Government Relations Committee to coordinate internal policy-related activities. In view of this wide-ranging involvement, here the *HFES Bulletin* initiates a feature that aims to help the HF/E community stay abreast of noteworthy policy developments. All future articles, reports, comments, and notices bearing on government affairs will appear under the new “Public Policy Matters” banner.

Below are the first three items: a summary, drawn from several advocacy organization reports, of implications for research funding in the recent stimulus package, an informed opinion report on the long-standing issue of ergonomics regulations/standards, and an update on activities within CoHSI.

PUBLIC POLICY MATTERS

On Prospecting for “Stimulus Package” Gold

By William C. Howell, Chair, Government Relations Committee

Opinions on whether the American Recovery and Reinvestment Act of 2009, popularly known as the “stimulus package,” will actually stimulate anything vary widely. But whether the economy turns a corner or continues heading south, and whether the package will have anything to do with it in either case, one thing is certain: A lot of federal gold (aka future generations’ tax dollars) will soon wind up in agency territory, and prospectors from all corners of the disciplinary universe will descend on it in a frenzy that would put the forty-niners to shame.

The fact that most agencies haven’t yet decided exactly where to bury it or what mining rules to adopt, but are obliged to see that it all gets discovered and spent over the next couple of years, only adds to the chaos. From an HF/E professional’s perspective,

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Opinion: Is a New Workplace Ergonomics Standard in the Works?

By Peter M. Budnick, Chair, Media Relations Committee

“Politics is not an exact science.”

– Otto von Bismarck

That’s an understatement. Bismarck is also the astute German politician who observed, “Laws are like sausages, it is better not to see them being made.”

With the election of Barack Obama and the themes of hope and change that he and his new administration are promoting, there’s been speculation that a new regulatory approach to workplace ergonomics may be in the works. That is, workplace ergonomics rules may once again enter the “sausage mill,” and it behooves all HFES members and friends to be aware and prepared for any upcoming debate.

Federal and state governments have attempted to regulate workplace ergonomics

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News from the NRC Committee on Human-Systems Integration (CoHSI)

By William S. Marras, Chair, Committee on Human-Systems Integration

As chair of the Committee on Human-Systems Integration (CoHSI), I would like to periodically update HFES members about activities important to the field of human factors/ergonomics that are occurring at the National Research Council (NRC). The NRC is part of the National Academies, whose mission is to serve as advisers to the nation on science, engineering, and medicine. Human factors has been represented in this structure as a standing committee since 1980, when the Committee on Human Factors was formed.

Recently, several important developments relative to this committee have occurred. First, Barbara Wanchisen joined the NRC last spring and now serves as the

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On Prospecting for “Stimulus Package” Gold

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that’s not all bad. As the adage goes, “Where there’s confusion, there’s profit.” Certainly, somewhere in that massive distribution there’s a bit of gold for the enterprising HF/E prospector, provided he or she knows where to look.

Reports from the Federation of Behavioral, Psychological, and Cognitive Sciences (of which HFES is a member) and the American Psychological Association Government Affairs Office that appeared shortly after President Obama signed the stimulus bill provide some early clues, at least insofar as these disciplines are concerned. In this article, I’ll extract from those reports what appear to me to be the most promising leads for would-be HF/E miners. However, because this whole development is moving at warp speed, a lot will have transpired between my writing and your reading this article. Furthermore, a lot of HF/E territory lies outside the realm of the behavioral, biological, and medical disciplines, so the best advice I can offer is to consult agency Web sites on a regular basis.

At this writing, the National Institutes of Health (NIH) seems to have the best handle on how it intends to invest its portion of the windfall (also see the boxed call for challenge grant proposals on page 4), so after summarizing some relevant highlights from the overall distribution, I’ll zero in on NIH.

Global Distribution Highlights

The two leading research funding agencies, NIH and the National Science Foundation (NSF), will get \$13 billion between them (\$10 billion and \$3 billion, respectively), most but not all of which will support research. A lot more is allocated for specified programs (e.g., \$2.1 billion for Head Start and Early Head Start programs) or targeted societal problems (e.g., \$1.5 billion for a Homelessness Prevention Fund) administered through a number of offices. Among those that seem most relevant for the HF/E community are \$1.1 billion for comparative effectiveness research allocated to the Agency for Healthcare Research and Quality (AHRQ); \$500 million for health profession training programs – much of it, however, administered through the National Health Service Corps (NHSC) for recruiting and field

activities rather than research; \$12.2 billion for special education programs through the Department of Education (DOE), some of which I suppose might support research; and an as-yet-undetermined amount to be allocated by the Department of Health and Human Services (HHS) for information technology in clinical education, which will include an electronic records initiative that has clear implications for HF/E.

The NIH Distribution

For those unfamiliar with NIH, it comprises 27 institutes and centers organized mostly according to disease categories, with a long tradition of fiefdoms and “stovepiping.” Despite the best efforts of various NIH directors and congressional oversight bodies to break down these barriers and promote cross-institute activities, the basic structure remains. Thus, the lion’s share of the allocation (\$7.4 billion) will be divvied up among these fiefdoms, while \$800 million is handed over to the acting director (Raynard S. Kington, MD, PhD) to support cross-cutting initiatives and another \$1.3 billion goes for extramural construction and equipment.

About a month before the stimulus package arrived, NIH released its first *Biennial Report of the Director* (<http://biennialreport.nih.gov>), in which a serious effort was made to lay out an integrated portrait of its research activities and future directions, with particular attention to a list of congressionally mandated priorities. Included in that list are several of possible interest to the HF/E prospector: technology development, research training and career development, and health communication and information campaigns and clearinghouses.

Following the stimulus package announcement, Kington gave a briefing in which he revealed in broad strokes how these new funds will be used. First and foremost, this windfall is regarded as a short-term (two-year) supplement, not an overall budget increment, with economic stimulus implications (including geographic job creation) a primary focus. Second, although funds are to be administered mostly via the 27 institutes and centers, each institute will be directed to do so in accordance with pre-established strategic planning (presumably reflecting priorities in the *Biennial Report*).

Third, most of the money will be aimed at accelerating the pace of selected R01 (basic research) grants that have already been approved for funding, beefing up current grants for a two-year period, and funding new “cross-cutting” research (via so-called challenge grants of up to \$500,000, with fast-tracked peer review), details of which are still on the drawing board. Some awards in the former two categories will be competitive, some not. So, obviously, anyone in the HF/E ranks who already has NIH funding should be thinking about making a case for acceleration or enhancement, whereas those still in the prospecting stage should pay close attention to forthcoming NIH announcements under the challenge grant label (see page 4).

In Sum

A lot of gold is about to be mined soon from the stimulus “mother lode” by alert and enterprising professionals. At this writing, maps and directions are still pretty sketchy, but guidance from all the recipient agencies likely will be appearing on their Web sites in short order. Interested HF/E prospectors would do well



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to keep closely attuned. My attempt here is simply to sound the alert, point the way, and illustrate some developments to date.

William C. (Bill) Howell is retired but holds adjunct faculty appointments at Arizona State University (Polytechnic Campus) and Rice University. He serves on several national advisory boards and was HFES president in 2000–2001.

Is a New Workplace Ergonomics Standard in the Works?

(continued from page 1)

to some degree for many years, with limited success. California is the only state that currently has an ergonomics rule in place. Washington state attempted to publish an ergonomics rule, but it was defeated by voter initiative. Michigan is attempting to publish a rule, but it is facing stiff opposition from the business community. Other states, including Alaska and Minnesota, have tried but failed as well. The federal government published a comprehensive standard in the waning days of the Clinton administration, but it was promptly overturned by Congress soon after the Bush administration took office.

There is another area in which regulatory proponents are making headway, although the laws are typically not being promoted under the banner of ergonomics. There has been state-level law-making (e.g., in Washington) associated with ergonomics concerns in patient handling, primarily in hospitals. At the federal level, a regulatory proposal in 2007 (HR 378) was defeated, but proponents hope to bring it back for consideration with the new administration in place.

The debate surrounding workplace ergonomics regulations may be as controversial within the HFES membership as it is for the citizenry of the United States as a whole. Few of us would disagree that ergonomics can bring great value to any organization, but we could easily and vigorously differ over how that value should be delivered – as force and threat (regulatory) or through organizational self-discovery and improvement (voluntary).

According to the U.S. Chamber of Commerce, a vocal opponent of workplace ergonomics regulations, President Obama has already indicated he's willing to use executive orders as a means to advance his agenda. Whether or not a workplace ergonomics regulation will be part of that agenda is still in question. Many politically connected experts, including John Henshaw, former assistant secretary of labor for occupational safety and health, believe an ergonomics standard is unlikely to emerge during the current economic crisis.

Organized labor is the most visible political advocate for workplace ergonomics rules, and new Secretary of Labor Hilda Solis is believed to be a strong supporter of organized labor. Here's what the AFL-CIO has to say in a statement filed on the Obama administration's Change.gov Web site:

Refocus on ergonomics. Reinstatement of the column for recording musculoskeletal disorders (MSDs) on the OSHA log. Step up enforcement under the general duty clause and record-

keeping standard. Determine possible regulatory approaches to ergonomics given the constraints imposed by the Congressional Review Act disapproval of the 2001 Ergonomics rule. (Turn Around America AFL-CIO Recommendations for the Obama Administration, http://change.gov/open_government/entry/afl_cio_turn_around_america/)

So, looking into my crystal ball (which is just as blurry as yours), I predict we will see an increased enforcement effort using OSHA's general duty clause and reinstatement of MSDs on the OSHA log, but no new serious attempt to promulgate a significant new ergonomics rule — at least not until the economy improves.

Peter M. Budnick, PhD, CPE, is the cofounder and CEO of Ergoweb Inc., and the founder of Ergobuyer LLC.

News from the NRC Committee on HSI

(continued from page 1)

interim director for the committee. Previously, Wanchisen served as executive director of the Federation of Behavioral, Psychological, and Cognitive Sciences and brings some valuable networking capabilities to the committee.

Second, in fall 2008, we formally changed the name of the committee to the Committee on Human-Systems Integration in an attempt to better describe our role in science. We have defined human systems in a broad sense to describe the total human system, incorporating both the mental and physical aspects of the person within the environment.

Third, we are adopting a consortium structure in an attempt to better integrate with policy makers who make use of HF/E research. The open portions of our meetings have attracted many diverse agencies that share common concerns relative to HSI. The consortium structure enables these groups to share information and pool resources to support the committee's central operations. In addition, this structure will allow the committee to consider topics of interest well ahead of funding opportunities and thereby allow us to be more proactive.

Fourth, I am happy to report that we have a new project under way. This project, funded by the Agency for Healthcare and Research Quality (AHRQ), will explore the issues associated with home health care. A multidisciplinary consensus panel of recognized experts has been formed to examine a diverse range of behavioral and HF/E issues resulting from the recent trends and challenges associated with the increasing migration of medical devices, technologies, and care practices into the home.

Finally, at our most recent meeting (February), the committee discussed several topics that are believed to be relevant to human-systems integration and public policy. These include the science of anomaly detection, challenges associated with medical decision making, social networking, the role of human factors in engineering education, and human factors and training issues in mine safety.

I invite HFES members to join CoHSI at the 53rd Annual Meeting in San Antonio. I am pleased to announce that we will have a

panel session in which future research needs will be discussed. In addition, the committee will have a booth in the exhibit area. You are also invited to the CoHSI meetings held in Washington, D.C.; dates for those meetings can be found on the NRC Web site, http://www7.nationalacademies.org/bbcss/COHSI_AbouttheCommittee.html.

William S. Marras is a professor and holds the Honda Endowed Chair in the College of Engineering at the Ohio State University. He is the current chair of the Committee on Human-Systems Integration at the National Research Council within the National Academies.

NIH Challenge Grants in Health and Science Research

As part of the American Recovery and Reinvestment Act of 2009, the National Institutes of Health (NIH) has designated at least \$200 million for health and science research challenge grants in fiscal years 2009–2010. The new program will support research on challenge topics that address specific scientific and health research challenges in biomedical and behavioral research.

NIH has identified a range of challenge areas that focus on specific knowledge gaps, scientific opportunities, new technologies, data generation, or research methods that would benefit from an influx of funds to quickly advance the area in significant ways. More information, including lists of challenge areas and topics, is available at http://grants.nih.gov/grants/funding/challenge_award/.

ELECTIONS

A Call To Service

By Scott A. Shappell, Secretary-Treasurer-Elect

Like many of you, I joined HFES not only because it is the premiere organization in our field but also because it afforded me the opportunity to become active in the governance of the organization at the highest levels. Whether as an officer in one of 23 technical groups, organizer of the Annual Meeting, or a member of the Executive Council (EC), each of us has an incredible opportunity to serve from day one. Indeed, the beauty of the truly democratic system within HFES is a cathartic annual renewal of leadership and ideas.

While many of the technical groups are marshalling nominees for office, now is the time to consider nominating one or more of your fellow members for office within the EC. The process is simple and takes only a few moments. In the remainder of this article,

I will try to answer some of the questions you may have regarding the HFES officer nomination process.

Who Are the Elected Members of the Executive Council, and What Are Their Duties?

Requirements and duties of officers and EC members at large are covered in the HFES Bylaws, which are published annually in the back of the *Directory and Yearbook*. In general, any full Member or Fellow in good standing may be nominated for and vie for the offices of president-elect, secretary-treasurer-elect, and EC member at large. The elected individuals join the EC, which is made up of 12 individuals: immediate past president, president, president-elect, immediate past secretary-treasurer, secretary-treasurer, secretary-treasurer-elect, and six at-large members.

Each EC member serves a three-year term. The HFES president presides over the EC; appoints most of the chairs of various committees, task forces, and other subgroups within the Society; reports to the EC on the business of the Society; and addresses the membership at the Annual Meeting that culminates his or her term in office.

The secretary-treasurer chairs the Finance and Budget Committee, keeps records of all business meetings, works with the executive director to supervise budgets, and presents a financial report to the EC and the membership at the annual Business Meeting.

At-large members help to govern the affairs of the Society; provide advice and consent to the president on the formation of committees, task forces, and other ad hoc groups; serve at the president's request on task forces and other ad hoc groups; and participate in strategic planning activities.

The Executive Council meets in person twice per year: during the weekend immediately prior to the Annual Meeting and at a three-day gathering in the spring.

Whom Should You Nominate?

As may be the case for many of you, answering this question has always been difficult for me. Can I nominate myself? Well, the answer is "absolutely!" To quote one of our former presidents, Barry H. Beith,

Self-nomination is not—I repeat, NOT—a socially unacceptable thing to do and should be encouraged. Only you know if you have the interest and time to serve the Society.... You are not tooting your own horn or patting yourself on the back. What you are saying is that you are willing to serve the Society and do the best you can to make it the best organization it can be for the members, your colleagues, and friends. (Beith, 2003)

Consequently, if you have the time and dedication to the organization that it takes, I would encourage you to self-nominate.

Nominating others for the EC is equally easy but requires an additional step. Although many of us have been nominated for positions within HFES and other organizations, it is important that the nominator ensure that the EC nominee is prepared to take on the responsibilities of the office for which he or she is being nominated. In other words, there is a commitment associated with all elected positions—some modest and others quite involved. Therefore, I encourage you to discuss your nomination with those

ELECTIONS, cont.

whom you nominate to ensure that they have the time and energy to commit to the office.

Nominations and Elections Schedule

I'm sure you can envision several of our colleagues as candidates for EC office. I encourage you to contact them, ensure that they are eligible, and discuss your nomination with them. I can assure you, they will be flattered and will share with you their concerns or excitement about the nomination.

The schedule for nominations and elections is as follows:

- Nomination ballots mailed to Full Members and Fellows: May 1
- Nominations close: June 1
- Election ballots mailed to Full Members and Fellows: July 6
- Election closes: August 6

When the nomination ballots are received, it will be my job to tabulate them and put together a slate of nominees. Not surprisingly, there are many more nominations for each office than candidates on the final ballot. To determine who makes the final ballot, I will simply identify those individuals with the most nominations. So if you really want to see your nominee on the ballot, I encourage you to obtain multiple nominations for the individual from other eligible members. Believe me, it is not stuffing the ballot box. Rather, it is the only way to differentiate among many nominees in a fair and equitable way.

A Call to Participation

Like many of you, I have always enjoyed serving the organizations to which I belong. Although there is no requirement to serve within the governance of HFES, the added insight and benefits of service are immeasurable. Certainly, the process has enriched my career. So please consider nominating someone (including yourself) or accepting a nomination to an elected position within HFES.

If you have questions regarding the nomination process, please contact me at HFEng@clemson.edu.

Reference

Beith, B. H. (2003). Democracy in a small pond: HFES nominations and elections. *HFES Bulletin*, 46(1), 1, 6.

Scott A. Shappell, PhD, is a professor of industrial engineering at Clemson University.

ANNUAL MEETING

Call for Student Volunteers

HFES invites full-time students to serve as student volunteers for the 53rd Annual Meeting, October 19–23, in San Antonio, Texas. Student volunteers perform many essential functions and help to ensure that the Annual Meeting runs smoothly.

First preference will be given to HFES Student Affiliate members. Students applying to volunteer must preregister by August 31, 2009.

To volunteer, please send the following information to the e-mail address below: your contact information (including your full name and e-mail address); your first, second, and third choices from the list of key areas given below; and your anticipated date of arrival at and departure from the meeting. Address requests to Director of Member Services Carlos de Falla, carlos@hfes.org.

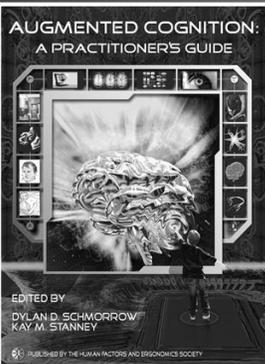
You may request assignments in specific areas, and every effort will be made to ensure you receive your first or second choice. Volunteer positions are limited to about 50 slots and will be accepted on a first-come, first-served basis.

Help is needed in the following key areas:

- Workshops (October 19)
- On-Site Career Center (October 19–22)
- Daily on-site newsletter (October 20–22)
- Poster sessions (October 20–22)
- Internet stations (October 19–23)

Assignments will be made and instructions sent prior to the meeting. A student volunteer room will be available at the headquarters hotel for checking assignments, networking with other students, and obtaining signatures for completed work.

Volunteer positions are based on need, and most are for four hours. Students who volunteer for four hours will be reimbursed half the registration fee. Those who are assigned to eight hours of volunteer work will receive a reimbursement of the full registration fee. Refunds are processed after the meeting.



NEW!

**AUGMENTED COGNITION:
A PRACTITIONER'S GUIDE**

Edited by Dylan D. Schmorrow
& Kay M. Stanney

Augmented Cognition: A Practitioner's Guide represents the first comprehensive publication dedicated to formalizing the study and practice of augmented cognition. This guide pulls together a vast array of information into a single source and provides valuable advice on how to study and practice in this field successfully. Whether you're an engineer seeking to understand how best to select and integrate brain sensors, a psychologist designing adaptive strategies to enhance human performance, or a professor seeking to provide an overview of field practices, *Augmented Cognition: A Practitioner's Guide* offers you a comprehensive, up-to-date, practical introduction to the field of augmented cognition.

ISBN 978-0-945289-33-3, 280 pp., 8.5 x 11", paperback

\$85 for HFES and IEA members, \$100 for nonmembers and institutions, plus shipping/handling, California sales tax if shipped to a CA address.

Order online at <http://hfes.org/Publications> or contact HFES, P.O. Box 1369, Santa Monica, CA 90406-1369 USA, 310/394-1811, Fax 310/394-2410, store@hfes.org.



Stanley Deutsch died of natural causes on January 1, 2009, at 87 years of age, after 60 years of marriage to our mother, Thelma. He was a pioneer in the field of human factors, a warm man with a wry sense of humor and unquestionable integrity. Human factors was more than his career; it was woven in to the fabric of his daily life, and it influenced how my siblings, Robert and Paula, and I live our lives today. In my

mind, I can still see him walking around the car in the driveway with a trustworthy rag, painstakingly wiping off the headlight covers so that the lights would shine more brightly. We can see the applications of HF principles in our own careers in surgery, engineering, and music. When I became a member of HFES, I called my father and told him I was proud to receive correspondence from HFES that identified me as “Deutsch2.”

Stan began his career in 1948 at the Navy Electronic Laboratory in San Diego, under Arnold Small, and received his PhD in industrial psychology from Purdue University in 1957. He was an early and active member of HFES, serving as president from 1972 to 1973, as well as a founding member and first president of the Potomac Chapter. He was also a Fellow of the Washington Academy of Sciences.

Most of Stan’s career was spent at the National Aeronautics and Space Administration; he was proud of his contributions to NASA’s mission to land men on the moon and to develop the space shuttle. After retiring from NASA, he served several years as study director of the Committee on Human Factors at the National Academy of Sciences. As members of HFES are well aware, lessons learned from understanding the challenges involved in designing space stations, lunar bases, and interplanetary travel have been successfully transferred to many other civilian and military endeavors. Today, in my own career, I can also see that we have only scratched the surface of incorporating HF values into health care delivery, patient safety, medical robotics, simulation-enhanced health care education, and electronic health records.

I appreciate this opportunity to express my gratitude for all that he taught me and others, how much he loved his family, and how he truly embraced and lived the principles of a devoted human factors practitioner.

– Ellen S. Deutsch, MD, FAAP, FACS

Call for Student Award Applications

By *Sandra K. Garrett, Chair, Student Affairs Committee*

The Student Affairs Committee is pleased to have the opportunity to recognize the accomplishments of and service to the Society by our students and student chapters through the Student Member with Honors Award and the Outstanding Student Chapter Award. To apply for these awards, students or chapters must send a completed application (see below) and supporting materials to garrett@clemon.edu on or before *July 1, 2009*. The award recipients will be recognized at the 53rd Annual Meeting in San Antonio, Texas, this October.

Student Member With Honors

This designation honors students who have made an outstanding contribution to the discipline and/or HFES during their tenure as a student. To qualify, students must meet *all* of the following eligibility requirements:

- Student membership in HFES for at least six months prior to application
- Graduate student, or class standing of junior or senior for an undergraduate
- Minimum GPA of 3.75 or its equivalent for graduate students (as evidenced by a transcript)
- Minimum GPA of 3.50 or its equivalent for undergraduate students (as evidenced by a transcript)
- Successful completion of at least three human factors–related courses with a grade of A or its equivalent (as evidenced by a transcript or letter from the instructor)
- Significant HF/E-related service to HFES at the Society-wide or local chapter level, or to the local community (provide letter from committee chair or officer of the group)
- One letter of recommendation from a faculty member, which specifies and demonstrates the outstanding contributions made by the student

In addition, at least *two* of the following three conditions must be met:

- Publication of human factors work in an approved journal (e.g., *Human Factors*, *Ergonomics in Design*, *Applied Ergonomics*, or any other journal approved by the Awards Committee). The student must be listed as the first or second author.
- A human factors–related presentation at a national or international meeting (provide photocopy from program or letter from adviser).
- Evidence of significant contribution to an industry project (e.g., product or system design, ergonomics program development, design award, patent).

Student Chapter Levels of Recognition

Chapters will be judged on the number and quality of activities in which they engage across several categories. The levels of recognition are as follows:

- **Gold:** This level requires activity in at least nine categories.
- **Silver:** This level requires activity in at least six categories.
- **Bronze:** This level requires activity in at least three categories.

The list of activity categories and selected sample activities is shown below. (Note that we will consider additional activities for each category.) The creativity category allows chapters to uniquely define activities and provides an opportunity for some chapters to obtain a recognition level for which they would not otherwise qualify.

- **Recruitment** – increase the number of members in the chapter
- **Guest speakers** – invite outside professionals, professors from other universities, or professors from within the same university
- **Field trips** – visit nearby companies, industries, etc., to learn about new domains
- **Outreach/volunteerism** – participate in National Ergonomics Month; reach out to fellow students and to students in K–12; increase public awareness and promotion of HF/E in general
- **Collaboration** – work with other departments in your university or with other HF/E programs in nearby universities (e.g., local student conference)
- **Service to HFES** – participate on the Annual Meeting Host Committee or participate in either Annual Meeting student activities or Student Career and Professional Development Day
- **Exploration** – design or conduct research on projects taken on by the chapter; work together to solve some problem
- **Social** – participate in social activities put on by the chapter to foster interaction among members
- **Information dissemination** – use a Web site, mail group, Wikipedia, or similar vehicle to share information, promote a program, etc.
- **Student membership in HFES** – encourage chapter members to join HFES as Student Affiliate members
- **Mentorship** – mentor incoming and new students; participate in student orientation for incoming students
- **Continuous improvement** – improve the resources of the chapter (library, facilities, etc.)
- **Creativity** – utilize creative approaches to chapter activities

Chapters must provide supporting materials that document the various activities of the chapter, the recognition level sought (Gold, Silver, or Bronze), and a supporting letter of recommendation from the chapter adviser. We encourage you to submit other materials that will support the application, such as brochures, announcements, or images from events, videos, and Web sites. Please include all supporting material electronically as part of the application, and provide sufficient detail for evaluation in each category.

Submitting Your Application

The deadline for receiving applications for both the Student Member with Honors and the Student Chapter Award is *July 1, 2009*. No applications will be accepted after this date. Application

information may be obtained from the HFES Web site (http://www.hfes.org/web/Chapters/student_chapters.html). Completed application materials should be compiled and saved as one document (preferably pdf, but Word is acceptable). This application should be sent as an e-mail attachment to Sandra Garrett, Student Affairs Chair (garrett@clemson.edu).

Seeking Information for Student Internship Database

By Anthony D. Andre, Internal Affairs Domain Leader, and Felix Portnoy, Old Dominion University

We are gathering information from HFES members and employers about perennial co-op and internship opportunities in order to make a single, comprehensive list available to student members. We invite information on companies that provide three-month or longer internships or co-ops in the fields of human factors/ergonomics, user experience, interaction design, usability, and other related disciplines. By developing a complete database of companies that offer yearly internship opportunities and making it available to the entire HFES student membership, we seek to foster optimal job-employee matches.

We would like to collect the following details about any internship opportunity you provide, have experienced, or know of:

- Company
- Location
- Department or group within company
- Brief job description
- Term of internship
- Application due date
- Citizenship and security restrictions, if any
- Approximate pay
- Company contact information

Please send internship information to Felix Portnoy at fport003@odu.edu.



Mark your calendar!
Human Factors and Ergonomics Society
53rd Annual Meeting
 October 19–23, 2009
 San Antonio, Texas USA

Bookmark hfes.org for regular updates about exhibiting your products and services, reserving a meeting sponsorship, registering online, viewing the Preliminary Program and creating a personal meeting itinerary, and reserving a hotel room.

Volume 4 Is Now Available!

The HFES annual series *Reviews of Human Factors and Ergonomics* condenses HF/E knowledge in specific subject areas into a form that provides readers with a comprehensive understanding of each topic — its current state, important new research findings and technology, and current issues and research needs. Chapters note ways in which research results inform theory and research and also emphasize the practical implications of the research that is reviewed. Chapter authors are among the most prominent HF/E professionals in their respective subject areas.

Reviews volumes are broader in scope than handbooks and deeper in detail than encyclopedias. They are designed to inform both researchers and practitioners. All chapters include extensive references.

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