



---

---

# ETG NEWS

Education Technical Group Newsletter  
Human Factors and Ergonomics Society

---

---

Number 1, 2001-2002, December 2001

---

---

---

## Contents: What's in This Issue?

Message from the Chair	1
From the Program Chair	2
Webmaster's Announcement	2
Want to Enhance Student Learning Without Rediscovering the Wheel?!!!	2
ETG Business Meeting Minutes	3
Academic Transitions to Industry & Lives to Tell About It!	4
Preliminary Call for Proposals	5
ETG Members' Updates	5
Tale of Two Versions: Unintended Penalties in a Split Halves Midterm	5
HFES 2001 Proceedings Available	6
Web Corner	7
Editor's Notes	7
Calendar of Events	8
Job Announcements	8
ETG Officers	9
Application for Membership	10

---

## Message from the Chair

I am sure it has been a busy and, in many ways, a trying semester for all of us. For me it has been the writing of two books, which I am trying to complete before my sabbatical ends and classes start again in the new year. So I was somewhat unprepared when Gary Klatsky asked me to take over as ETG chair, but willingly I agreed to do so. A special thanks goes to Gary for doing an excellent job as the previous chair and in steering the TG through its change in mission (and also in name from EPG to ETG) to include a focus on the use of technology in education, not only at the university level, but also at the K-12 level. The first fruits of this change was seen at this year's annual conference in Minneapolis in the panel session 'Educational Design and Learning - The Next Frontier for Human Factors/Ergonomics' organized by Tom Smith.

Also, as you may have seen from your recently arrived membership renewal forms, it was decided at the ETG Business Meeting that our dues should be reinstated at the previous \$4.00. Since our membership had dropped rather dramatically from 196 to 136 during the time period that our dues were eliminated, it was thought that perhaps many individuals neglected to sign up because of the misconception that ETG was a freebie with automatic membership. So to provide some added benefits and encourage more HFES members to join, we are updating our web pages to include a section of links to various course home pages and also include a listserv through which ETG members can exchange ideas or simply communicate on various topics. Michelle Bayles from Wichita State University has graciously volunteered to do the work, most of which has already been completed and should shortly be uploaded to the general HFES website (<http://hfes.org/>). Many thanks to Michelle for undertaking this effort. I hope it doesn't slow her Ph.D. studies down too much.

Of course, we need to have some good websites to show interested viewers. Therefore, if you are willing to share your web-based course material, I encourage you to send me ([axf@psu.edu](mailto:axf@psu.edu)) the URLs, which will then be added to this page. This continues the material collected by Joe Goldberg and Darin Ellis on introductory human factors courses ([Proceedings of HFES, 36:556-561](#)) but will now be in a more detailed and readily accessible form. The more we share as a group, the more we can benefit individually in improving our own courses. Thanks, in advance, for your contributions.

The listserv is still under construction. We need to finalize various details on access, with or without passwords, etc. We were considering enrolling all ETG members automatically but decided against it due to privacy issues. Therefore you will need to enroll individually, which I hope you all do. It should be a relatively simple procedure with clear explanation on the ETG web site, once it is uploaded. The more we participate, the livelier the discussions will be, and the more we will benefit.

I would also like to thank Deivy Deivanayagam for organizing an interesting and useful group of sessions and Tracey Bernard for doing such an excellent and timely job of preparing our newsletters and for agreeing to continue this work



for a second term. Thanks should also go to the ETG members who so actively participated both in the technical sessions as well as in the business meeting.

However, this is not the time to rest on your laurels but to start thinking about what you can present at next year's meeting in Pittsburgh. With our new mission and the increasing popularity of various electronic tools such as PDAs, you may have an interesting application of one these devices in the classroom that may be of interest to the rest of the membership. For example, one of my students is developing a small program for the Palm to collect time study data. This is the ideal approach for presenting traditional and, perhaps, rather boring work-measurement material to digitally-aware university students walking about with cellular telephones in one pocket and PDAs in the other. There could just as well be other applications for school children. Think about it. This is the ideal opportunity to present such material and the call for papers is just around corner.

I hope all of you are able to finish off your work and your semester in fine form and earn a well-deserved break. Enjoy your holidays and Happy New Year.

PS: Don't hesitate to e-mail me ([axf@psu.edu](mailto:axf@psu.edu)) if you have any ideas or concerns.

Andy Freivalds

---

## From the Program Chair

I can hardly believe it is time for me to take Deivy's place as Program Chair for the Education Technical Group. In my memory, it seems as though Deivy has ALWAYS been Program Chair, so I am a bit apprehensive about filling his shoes. Nevertheless, I shall move forward.

1. Consider submitting any work you are doing in the area related to education. In particular, though, I would like people to consider submitting any education research they are doing that could lead to a potential collaboration or co-sponsorship with another TG. For example, (a) education in various environments (Environmental Design), and (b) education via the web (Internet). If you have other possible co-sponsorships, let me know and I will talk with the other program chairs.
2. Bill Moroney and I are again seeking input related to demonstrations and techniques used for teaching HF/E at the undergraduate and graduate levels. Please see the note on that request later in this newsletter.
3. I need **reviewers** for the 2002 conference. Please e-mail me ([nstone@creighton.edu](mailto:nstone@creighton.edu)) if you are interested in being a reviewer. The more reviewers I get the less the work for everyone! Please do not be bashful.

Finally, remember that the deadline for submissions is just around the corner (FEBRUARY 20, 2002) and **ALL** proposals are due at the same time. I look forward to your many submissions!

Nancy Stone

---

## Webmaster's Announcement

ETG has a *new* website! It is in the final development phase and will be launched at the end of this month on the HFES server. I'd like to personally invite all of you to come visit the new site. You can find the site off the HFES home page (<http://hfes.org/>) under the topic 'technical groups'. The new site includes features such as a listserv, a list of sites related to education and human factors/ergonomics, archival newsletters, and much more. There are several interactive elements to the new site and we hope you find it useful. If you have any questions, comments, or feedback concerning the ETG site, contact me at [mbayles@att.net](mailto:mbayles@att.net).

Michelle Bayles

---

## Want to Enhance Student Learning Without Rediscovering the Wheel?!!!

### Proposed Symposium: Strategies & Tools for teaching Human Factors and Ergonomics

As educators, we seek to teach psychological and ergonomic principles, with an emphasis on applicability. In teaching our own courses, we have developed or identified some strategies/tools that are more effective than others in demonstrating principles. At the 2002 annual meeting we would like to have an information exchange of techniques that demonstrate the transfer between these principles and their application. Essentially we seek demonstrations and tools, which enhance students' understanding and make the principles more relevant to them. Hopefully, this includes their active involvement in the learning process.

Please consider demonstrations in the following areas (your techniques may come from graduate or undergraduate, human factors or ergonomics, etc., courses):

Methodology  
Information Input (the senses)  
Speech Communication  
Manual Materials Handling  
Motor Skills  
Controls  
Hand Tools  
Workplace Design  
Environmental Conditions  
Computer Systems/Internet



## We propose a two-part symposium

*Part I:* Selected demonstrations (3 or 4, each of 10 minutes duration). For this first symposium we would like to focus on demonstrations that cost less than \$50 to implement. (This does not include the cost of PCs, projector systems, VCRs, etc.)

*Part II:* Discussion of our teaching needs and what type of symposium, demonstration series, process can be established to encourage the exchange of these strategies and tools. Hopefully this would provide guidelines for subsequent symposia.

If we receive a large number of responses, more than one session will be proposed. In your submission: (a) include a brief description of the demonstration specifying the concept that is being addressed; (b) indicate the expected duration of the demonstration; and (c) indicate what type of equipment you might need (e.g., overhead, computer connection, VCR). If your demonstration fits into the session, we will ask you to: a) write a submission for the proceedings; b) demonstrate it at the meeting; and c) provide presentation related material to the attendees so that they could incorporate the demonstration into their lectures. Recipients of the material would agree to give you credit for the demonstration. We hope to start collecting these materials and eventually make them available to all members of the Education Technical Group.

Our objective is to establish a forum in which we can learn from each other so as to better communicate our science to our students. If you have questions or suggestions please contact Nancy Stone ([nstone@creighton.edu](mailto:nstone@creighton.edu)) or Bill Moroney ([moroney@udayton.edu](mailto:moroney@udayton.edu)). We will look forward to your emails. **Please submit your strategies/tools/demonstrations to Nancy Stone by 01/30/2002.**

---

## ETG Business Meeting Minutes

October 9, 2001

Minneapolis, Minnesota

The 7:00 a.m. breakfast meeting was called to order by Gary Klatsky. Attendees of the 2001 meeting were:

S. Keith Adams [skadams@tastate.edu](mailto:skadams@tastate.edu)  
Tracey Bernard [tracey.bernard@murraystate.edu](mailto:tracey.bernard@murraystate.edu)  
Barrett Caldwell [bcaldwel@ecn.purdue.edu](mailto:bcaldwel@ecn.purdue.edu)  
S. Deivanayagam [deivy@tn.tech.edu](mailto:deivy@tn.tech.edu)  
Carter Kerk [carter.kerk@smsmt.edu](mailto:carter.kerk@smsmt.edu)  
Gary Klatsky [Klatsky@oswego.edu](mailto:Klatsky@oswego.edu)  
Bill Moroney [moroney@udayton.edu](mailto:moroney@udayton.edu)  
Frank Schieber [schieber@usd.edu](mailto:schieber@usd.edu)  
Thomas J. Smith [smith293@umn.edu](mailto:smith293@umn.edu)  
Nancy Stone [nstone@creighton.edu](mailto:nstone@creighton.edu)  
Ron Shapiro [rshapiro@us.ibm.com](mailto:rshapiro@us.ibm.com)  
Alvero Taveiro [taveiraa@mail.uwwo.edu](mailto:taveiraa@mail.uwwo.edu)

Guests in attendance were:

Cheryl Bennett Lawrence Livermore Nat'l Labs  
Inger Williams Cergos, Fairport, NY

## Chair's Report

Gary, standing in for new ETG Chair Andy Freivalds, read a statement from Andy thanking the current officers for their service and addressing his plans for the ETG. Andy plans to have an ETG website developed and requests that you send him ([axf@psu.edu](mailto:axf@psu.edu)) your course URLs for posting to the ETG website. Andy was also seeking a volunteer webmaster for the ETG; Michelle Bayles has since assumed the position of Webmaster.

Gary returned to the concern addressed in his previous column (*ETG Newsletter*, September 2001) regarding the drop in ETG membership. Membership dropped from 196 last year to 136. He theorized that the HFES membership form (in which membership is reported by writing TG dues on a blank line) failed to correctly record those interested in ETG membership since members may have failed to write \$0 on the ETG line. Dues will be reinstated at \$4 to correct this problem.

After Gary reported that the changes in the group's name and focus were approved and being implemented, Tom Smith thanked him for his leadership during this process.

Gary also expressed his concern regarding the lack of volunteerism in the TG, especially volunteers for ETG leadership positions. In this year's election, there was a single nominee for each officer position.

## Financial Report

Balance at beginning of year:	\$3251.72
Dues collected:	+149.00
Expenses:	
Newsletter	- 95.38
Photocopying	- 80.64
Balance:	\$3224.70

## Council of Technical Groups' (COTG) News

1. The COTG has a server to host TG web pages and would like to encourage each TG to establish a web page.
2. The COTG Digest was looking for a newsletter editor at the time of the meeting.
3. New Strategic Plan – Each TG should form its own new strategic plan by December 1. Questions to ask are: (a) What needs are being met by the membership of this group?, and (b) What are the facilitators and inhibitors to success of this group? TGs were directed to review their current strategic plan in the HFES Directory.
4. Revising the operating rules for each TG – HFES will eliminate some rules that currently exist for the TGs. For example, each TG should develop and post its own budget, which will then be its plan for the year.
5. State of the Art of the TGs: Each TG is to write a "State-of-the-Art" in its field. An opening plenary session will be based on these.



6. Near the conclusion of the meeting, Ron Shapiro, Chair of the COTG, offered the TGs COTG assistance with creating a web page. He indicated that the TGs should develop a website that everyone wants to visit at least once per month and requested that TGs have their web pages up by December 31<sup>st</sup>. He offered a further question to address number (3) from above, "How are we going to make the ETG of real value to people who don't show up?"

Discussions returned to the issue of regenerating interest and involvement in the ETG. Barrett Caldwell suggested forming a graduate student budget to look at questions (e.g., How will new professors be expected to teach HF/E? What are/will be the new research areas in teaching HF/E?) Bill Moroney suggested inviting graduate students to the next ETG meeting. It was also suggested that the ETG may want to sponsor next year's student reception if sufficient funds are available.

Another proposed method to bring new members to the ETG is to introduce an invited speaker series, e.g. invite an educational technology leader to discuss issues such as HCI or web-based teaching. To attract interest, the speaker should be a recognized expert. In order to keep costs reasonable, it was suggested that the invited speaker be from the area hosting the conference; for example at next year's conference, a speaker from Carnegie Mellon or the general Pittsburgh area could be invited. Inviting speakers local to the conference area would minimize travel/hotel costs and permit available funding to be devoted to the speaker's honorarium. In addition to educational technology, topics of interest for the series could include: Who hires HF/E graduates? What will they be expected to be doing in 10 years? What are the new skills that we need to be teaching? Tom Smith moved that the ETG establish an invited lecture series. However, since attendance at the business meeting was not representative of the membership, it was decided that the chair should coordinate a vote of the membership. Tom Smith also recommended that the implications of an annual speaker series be investigated. He questioned whether approval by the Executive Council is required and suggested that the chair confer with Mark Scerbo to determine if a special conference session would be needed or if ETG would experience any penalty such as losing a session at the conference. It was suggested that ETG should investigate the idea this year, and host one invited speaker as a trial before deciding to establish it on an annual basis. Tom Smith's motion was amended to indicate that the ETG should establish an invited lecture series for the next three years.

### Program Chair Update

For this conference (2001), S. Deivanayagam (Deivy) reported that there were six lecture submissions (five of which were accepted), two panel submissions, and one poster. Deivy expressed his thanks for a job well done to the reviewers: Andy Freivalds, Gary Klatsky, Kumar Kittusamy, Susan Shapiro and Nancy Stone. Deivy handed the Program Chair file over to Nancy Stone, the incoming Program Chair for 2001-2003.

### New Business

1. Tom Smith announced the development of an on-line forum for Education/ Human Factors at <http://www.educationalergonomics.org>.
2. Cheryl Bennett, Chair of the Ergonomics for Children in Educational Environments (ECEE) Technical Committee of the International Ergonomics Association (IEA) informed the ETG of ECEE's recent work. The first meeting of ECEE was held during the International Society for Occupational Ergonomics and Safety (ISOES) Conference, in Fairfax, VA, June 2001. She reported that ECEE is focusing on elementary- through college- age children and adolescents. The ECEE has a website under development at <http://ergonomics4children.org> to support this focus. Cheryl also reported that Assembly Bill 3524 to establish an "Ergonomics in Education" Study Commission is before the State of New Jersey, 209<sup>th</sup> Legislature. Cheryl invited interested ETG members to attend the noon meeting of ECEE. The next ECEE meeting will be in June 2002, at the XVI ISOES Conference in Toronto, Canada.
3. Bill Moroney and Nancy Stone announced that they will be working on a panel session for next year's conference and will be requesting input from members on "HF/E Teaching Needs & Demonstrations." (See pages 2-3.)
4. Competitions - Student competitions were recommended as a way to generate interest in and rejuvenate the ETG. Suggested competitions include: cosponsoring COTG's dissertation award, sponsoring an undergraduate honor's thesis, and/or sponsoring a photo competition for high school and/or college students to document design deficiencies through pictures. These topics should be discussed further at the next ETG Business Meeting.

---

## Academic Transitions to Industry & Lives to Tell About It!

After nearly one year in the fast-paced software industry, I'm still having fun! While I no longer get to regularly stand in front of a class of (semi-) bright and eager students, I still get to think, write and be creative on a daily basis. Projects are shorter in duration, but there is a lot more opportunity to work on them. I'm also working a lot more with diverse teams than ever before, meaning that I have to constantly explain why an improved user interface will be beneficial to the company.

At Oracle, usability design and engineering are fundamental parts of product design and development. I've routinely spoken with product managers from across the company, who are seeking new ideas for improving their interfaces. They are often very excited to discuss new interface concepts. We also frequently bring in end product users for specific tests, as well as more general focus groups and wants and needs analyses.

I often think about my former 16+ year career in education, when I was considering what (software) industry needs are or



aren't being met. There are dramatic differences between the academic world in areas such as communication and project timeframes. Communication with your managers occurs everywhere: in meetings, at lunch, in elevators! You must always be ready to discuss your projects, with a realistic assessment of both shortcomings and successes. The following are a few comments and suggestions to HF students and educators.

*Suggestions for HF students:* Learn how to communicate your project benefits and results very clearly and quickly. Practice by giving 30-second briefings. Understand how your project will contribute to the overall organization. Ask yourself if you could realistically carry out your project or thesis within a 6-month timeframe. Determine what special skills you have that your peers don't. Talk frequently with your instructors/managers.

*Suggestions for HF educators:* Emphasize the need for concise briefings as an outcome of each class project. Place students in diverse teams that change over time. Make them understand that every team member should be valued for his/her special skills. Challenge them to deal with reassignments and layoffs over the lives of their projects. Require students to determine what the end benefits of proposed projects are to their organization. Emphasize the need to communicate interim results as a project progresses.

I'd be happy to talk further with students or educators who might be transitioning from academia to industry. It's been fun for me so far!

Joseph H. Goldberg, Ph.D., CPE  
Principal Research Scientist/Advanced User Interfaces  
Oracle Corp.  
Phone: (650) 607-6020  
Fax: (650) 506-7430  
Joe.Goldberg@Oracle.com

---

## Preliminary Call for Proposals

The HFES 46th Annual Meeting will be held at the Pittsburgh Hilton & Towers, the Pittsburgh Westin Hotel, and the Pittsburgh Convention Center in Pittsburgh, PA, September 23-27, 2002. The Call for Proposals will be mailed to the membership this month (December 2001). Participants are invited to present proposals that will include case studies, debates, demonstrations, competitive product designs, videotapes, new methodologies, on-site experiments, and posters. Proposals are welcome from HFES members and nonmembers. Proposals of all presentation types (lecture, panel, symposium, demonstration, workshop, seminar, alternative format, debate, poster, etc.) are due FEBRUARY 20, 2002. Acceptance notification will be sent in mid-April. Final papers for the proceedings CD-ROM will be due at HFES on June 24, 2002. For further information, visit <http://hfes.org>.

---

## ETG Members' Updates

### Randy Pagulayan

The Games User-testing Group at Microsoft has recently finished a book chapter on user-centered design in games that will be available in 2002.

Pagulayan, R. J., Keeker, K., Wixon, D., Romero, R., & Fuller, T. (in press). User-centered design in games. In J. Jacko and A. Sears (Eds.), Handbook for Human-Computer Interaction in Interactive Systems. Mahwah, NJ: Lawrence Erlbaum Associates, Inc.

The intent of this chapter is to review principles and challenges in game design and evaluation and to discuss user-centered techniques that address those challenges. In this chapter, we try to cover why games are important, followed by the definitions and differences between games and productivity software. We also discuss the principles and challenges that are unique to the design of games. This provides a framework for what we believe are the core variables that should be measured to aid in game design and evaluation. We then conclude with some examples of how those variables can be operationalized by presenting the methods used by the Microsoft Games Studios User-Testing Group. Those who are interested in a copy of the chapter may contact me directly at:

Randy Pagulayan, Ph.D.  
Games User-testing | Microsoft  
Phone: (425) 707-9050  
Fax: (425) 936-7329  
[randypag@microsoft.com](mailto:randypag@microsoft.com)

### Patricia Jones

Patricia Jones has moved to NASA Ames Research Center as Deputy Division Chief of the Human Factors Research and Technology Division after 9.5 years at the University of Illinois at Urbana-Champaign in the Department of Mechanical and Industrial Engineering.

---

## Tale of Two Versions: Unintended Penalties in a Split Halves Midterm

Kathryn Woodcock, Ph.D., P.Eng.  
School of Occupational and Public Health, Ryerson University  
Toronto ON

A class of 52 public health students were enrolled in a compulsory course on Occupational Health. The assigned classroom was filled to capacity. Although the seats were arranged in columns rather than rows, the adjacent desks were close enough to afford "academic dishonesty", so the common midterm strategy of two versions was adopted. To minimize the difference in difficulty, the first version "A" was created and





Visit <http://hfes.org> for an order form, or send or fax your order to P.O. Box 1369, Santa Monica, CA 90406-1369 USA; 310/394-1811, fax 310/394-2410. Contents include:

Aviation Safety and Training  
Adaptive Automation  
Advanced Workstation Concepts  
Cognition and Human Performance  
Cognitive Task Analysis and Cognitive Modeling  
Consumer Product Usability  
Driving Research and the Older Adult  
Educational Design and Learning  
HF Design for Unique Environments in Health Care  
Human Factors of Child Safety  
Murder or Accidental Shooting  
On-Road Vision and Perception Issues  
Training System Technology and Development  
Usability of Virtual-Environment Systems  
Voice as an Interface  
Warnings and Aging

---

## Web Corner

The ETG is still interested in collecting a listing of course web addresses. If you have course information for your students on the web, send [tracey.bernard@murraystate.edu](mailto:tracey.bernard@murraystate.edu) your URL so that others in the ETG can take a look!

### Course URLs

JP Purswell submitted the URL for his general ergonomics course, noting that it is still undergoing development, [http://blackboard.com/courses/EN503/?course\\_id=EN503](http://blackboard.com/courses/EN503/?course_id=EN503). JP also has an industrial safety course that he developed for Spring 2001 posted at <http://www.blackboard.com/courses/EN440/>.

With his URL submissions, JP pointed out that a web-based course works well for integrating other web resources such as the National Institute for Occupational Safety and Health (NIOSH) Lifting Guide, the NIOSH document "Elements of Ergonomics Programs," and Jakob Nielsen's columns on computer usability issues since students can hyperlink to the actual documents, rather than read a second-hand description in their textbooks.

JP noted that he REALLY likes the Blackboard site. Originally, when doing his own website, he found it constraining to have to either put up the whole course before the class started or be forced to frequently update the index page for the class. However, as he described, the Blackboard site allows you to upload lecture notes, homework assignments and the like through an Internet browser. It allows students to submit homework and projects through the site and time-stamps the submission (no arguing about whether an assignment was turned in on time). It also allows you to keep your grade book online and permits students to see their grades as they are entered. And since students must enter their email address to sign up for the class, you have their email without having to pass around a signup sheet. There are options to have your

university buy the service that gets you a few more whistles and bells (and more storage space on the server), but individuals can sign up at no charge and create a course themselves, without a university contract. JP would recommend it to ETG members.

### Education/Human Factors On-line Forum

At the ETG business meeting, Tom Smith announced the development of an on-line forum for Education/Human Factors at <http://www.educationalegonomics.org>.

*Excerpted from the website:* The purpose of this web site is to provide a web-based Forum for exchange of views on how educational technology can best be designed to serve the needs of students, teachers, and educational systems. The site represents one of the initiatives of a nation-wide interest group of human factors/ergonomics professionals, and others, whose members have a common interest in exploring this topic, and in improving the design of educational technology to benefit learning. Both supportive and critical commentary on the topic are reflected in the content of the site. The site provides:

1. a series of reports submitted by interest group members and others dealing with various aspects of design of educational technology;
2. opportunity for input of different perspectives on the topic;
3. addresses of other web sites dealing with educational technology; and
4. contact information for interest group members.

The Forum provides informed commentary as well as links to other websites in the areas of Educational Technologies, Online Courses and Training, Publications on Online Education, and additional links supporting Forum communication.

---

## Editor's Notes

I'd like to thank those of you who responded to my request for contributions. Thanks to Joe Goldberg and Kathryn Woodcock for your contributions, and to Patricia Jones, Randy Pagulayan and JP Purswell for your career and/or course updates. Thanks also to Hal Hendrick for sending material on the educational guidelines developed by colleagues from twelve European countries, the IEA core competencies project report, and the IEA certification program endorsement criteria. This material will appear in future newsletters. I REALLY appreciate the responses and materials you sent!

If you missed the December 10<sup>th</sup> deadline for this edition of the newsletter, feel free to send me information that you'd like to see distributed to ETG members in the next edition. Please continue sending me ([tracey.bernard@murraystate.edu](mailto:tracey.bernard@murraystate.edu)) your job announcements, course web addresses, updates on yourselves and your programs/courses/research, ideas for newsletter articles, feedback on the newsletter, etc.

Best wishes for a safe and happy holiday season!

**Tracey Bernard**



---

## Calendar of Events

**Computer Support for Collaborative Learning 2002, January 7-11, 2002, Boulder, CO.** G. Fischer, Conference Chair, [gerhard@cs.colorado.edu](mailto:gerhard@cs.colorado.edu); <http://www.cscl2002.org>.

**IIE Applied Ergonomics Conference 2002**, March 12-14, 2002, Baltimore, MD. Institute of Industrial Engineers, 25 Technology Park, Norcross, GA 30092; 800/494-0460, fax 770/441-3295; <http://www.appliedergo.org>.

**The Ergonomics Society 2002 Annual Conference**, April 3-5, 2002, Cambridge, England. Annual Conference Programme Secretary, the Ergonomics Society, Devonshire House, Devonshire Square, Loughborough, Leicestershire LE11 3DW U.K.; +44 1509 234904, fax +44 1509 235666; [ergsoc@ergonomics.org.uk](mailto:ergsoc@ergonomics.org.uk), <http://www.ergonomics.org.uk>.

**SID International Symposium, Seminar, & Exhibition**, May 19-24, 2002, Boston, Massachusetts. Brian Berkeley, Symposium Chair, Apple Computer, 1 Infinite Loop, MS 305 3BB, Cupertino, CA 95104; [berkeley.b@apple.com](mailto:berkeley.b@apple.com).

**XVIth World Congress on Safety and Health at Work**, May 26-31, 2002, Vienna, Austria. Kongressburo, Adalbert Stifter-Strasse 65, A-1200 Vienna, Austria; +43 1 33111-537, +43 1 33111-469, [safety2002@auva.sozvers.at](mailto:safety2002@auva.sozvers.at), <http://www.safety2002.at>.

**National Safety Council 90th Annual Congress & Expo**, October 7-9, 2002, San Diego, CA. National Safety Council, 1121 Spring Lake Dr., Itasca, IL 60143-3201; 630/285-1121, 630/285-1315; <http://www.nsc.org/>.

**9th World Congress on Intelligent Transport Systems**, October 14-18, 2001, Chicago, IL. ITS America, 400 Virginia Ave. SW, Suite 800, Washington, D.C. 20024-2730; 202/484-4847, fax 202/484-3483; <http://www.itsworldcongress.org/>

---

## Job Announcements

### Tenure Track Positions

#### Dept of Occupational and Environmental Safety & Health University of Wisconsin-Whitewater

The Department of Occupational and Environmental Safety & Health at the University of Wisconsin-Whitewater invites applications for two (2) tenure-track positions commencing in August 2002. We are seeking highly motivated professionals in the field of occupational/environmental safety and health who are committed to scholarship and teaching excellence. These positions require graduate and undergraduate teaching and academic advising, scholarship/research, curriculum development, and service to the university community. A research record in the area of occupational/environmental safety & health or the ability to develop and carry out a research program is required. These are renewable nine-month appointments with summer school options available. Preference will be given to applicants at the assistant professor level, although highly qualified applicants at higher levels will be considered. The successful candidates will have a doctoral

degree in occupational/environmental safety & health or a closely related field including but not limited to engineering, technology, physical science, or environmental/public health. Candidates with professional experience in occupational safety and health are preferred. Professional certifications are also desirable. Good oral and written communication and interpersonal skills are essential. Salaries are competitive (60K\$ to 70K\$ range) relative to experience and qualifications.

#### Position 1 – Industrial Hygiene

Responsibilities: Primary teaching/scholarship in the areas of Industrial Hygiene and Industrial Hygiene Instrumentation. The person selected for this position will be expected to teach existing courses as well as develop new courses leading to a new departmental emphasis in the area. Areas of secondary interest including environmental safety & health, occupational safety, construction safety or drug and alcohol issues in the workplace are highly desirable.

#### Position 2 – Environmental/Chemical Safety

Responsibilities: Primary teaching/scholarship in the areas of environmental safety & health and chemical safety. The ability to teach courses related to the safe use, handling, transportation, and storage of hazardous materials is essential. Interest and experience in the areas of fire protection/prevention, construction safety or drug and alcohol issues in the workplace are highly desirable.

*Application:* Review of applications will start on January 15, 2002 and continue until the positions are filled. Materials required for application include:

- Letter of application
- Curriculum vita
- Non-official transcripts of graduate education
- Names, titles, addresses, telephones, and emails of 3 professional references
- Statement of personal philosophy of safety education.

*Additional materials may be required from final candidates.*

Send application materials to:

Dr. Alvaro Taveira, Chair  
Dept. of Occupational and Environmental Safety & Health  
University of Wisconsin-Whitewater  
800 W. Main St.  
Whitewater, WI 53190

Inquiries may be directed to:

Dr. Alvaro Taveira  
Phone: (262) 472-5427 or Fax: (262) 472-1091  
Email: [taveiraa@mail.uww.edu](mailto:taveiraa@mail.uww.edu)

UW-Whitewater is an AA/EEO employer. Women, minorities, veterans, and persons with disabilities are encouraged to apply. Visit the Department of Occupational and Environmental Safety and Health web page at <http://academics.uww.edu/safety/>



---

## ETG Officers

### Chair 2001-2003

Andris (Andy) Freivalds  
Department of Industrial & Manufacturing Engineering  
213 Leonhard Bldg.  
Penn State University  
University Park, PA 16802 USA  
Phone: (814) 863-2361  
Fax: (814) 863-4745  
Email: [axf@psu.edu](mailto:axf@psu.edu)  
URL: <http://www.ie.psu.edu/people/faculty/freivalds.htm>

### Program Chair 2001 - 2003

Nancy J. Stone  
Department of Psychology  
Creighton University  
2500 California Plaza  
Omaha, NE 68178 USA  
Phone: (402) 280-2146  
Fax: (402) 280-4748  
Email: [nstone@creighton.edu](mailto:nstone@creighton.edu)

### Newsletter Editor 2001-2003

Tracey M. Bernard  
Dept. of Occupational Safety & Health  
Murray State University  
157 Industry & Technology Center  
Murray, KY 42071-3347 USA  
Phone: (270) 762-6657  
Fax: (270) 762-3630  
Email: [tracey.bernard@murraystate.edu](mailto:tracey.bernard@murraystate.edu)

### Webmaster 2001-2003

Michelle E. Bayles  
Department of Psychology  
Wichita State University  
1845 Fairmount  
Wichita, KS 67260-0034 USA  
Phone: (316) 978-3170  
Fax: (316) 978-3086  
Email: [mbayles@att.net](mailto:mbayles@att.net)

---





# Education Technical Group

Tracey M. Bernard, PhD, PE  
Dept. of Occupational Safety & Health  
Murray State University  
157 Industry & Technology Center  
Murray, KY 42071-3347  
USA

## Application for Membership

### Education Technical Group, Human Factors & Ergonomics Society

Membership in the ETG does not require membership in the Human Factors and Ergonomics Society. (Members of the Human Factors and Ergonomics Society may pay their ETG dues with their HFES dues.) Please print.

Name: \_\_\_\_\_

Title: \_\_\_\_\_

University/Organization: \_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_

Phone: \_\_\_\_\_

Fax: \_\_\_\_\_

Email: \_\_\_\_\_

Are you a full time student?       yes    no    Are you a member of HFES?       yes    no

Please mail this application and check for US \$4 to:

Human Factors and Ergonomics Society, PO Box 1369, Santa Monica, CA 90406-1369 USA

