



**Division of Applied Experimental
and
Engineering Psychology**

Division 21 of the American Psychological Association

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Message From the President

By Jerry Krueger, Division 21 President

It has been just over four months since the September 11, 2001 terrorist attacks on America resulted in horrific tragedy for so many of us. In our national response, we witnessed creation of a cabinet level Office of Homeland Security, and various moves by all three branches of government at the national local levels to enact changes in security policy, procedures, and even counter-terrorist laws. For many of us, much of everyday life has changed; and yet much, hopefully the better parts, remains the same. Yes, we have experienced many behavioral changes prompted by increased airport security leading to long queues, passenger lockdowns, flight delays, etc.; and by tightened security procedures at entrances to various buildings and parking lots. A round of anthrax scares impacted our mail delivery service, and prompted concern over the possibility of other bioterrorism threats to our lifestyle. These are happenings we rarely thought about or considered possible a half year ago.

We still grieve the loss of many fine citizens in Washington, DC, and in New York where in some weeks we still pull corpses out of what has become the nation's number one tourist attraction while workers still dig, and countless thousands of us visit to pay our respects at what used to be the World Trade Center. Do visit ground zero. It is a sobering, somber reminder of what horror others can perpetuate; but at the same time, it prompts a source of the spirit of patriotism and togetherness that for a time at least has solidified our nation.

Visit the Pentagon too. It is now under repair with plans to reopen on September 11th, 2002. Spend a short stopover to pay respects at Arlington National Cemetery where rests among other national servants who died in that symbolic attack, Lieutenant General Timothy Maude, the former U. S. Army Deputy Chief of Staff of Personnel, and the highest ranking soldier to die "in the line of duty" since World War II. His gravesite lies beside those of Generals Max Thurman, Wheeler and Omar Bradley. Among his roles, General Maude had Department of the Army senior staff cognizance over the Army MANPRINT program, and therefore some oversight of the work of many of us who implement human engineering and human factors psychology practices on military materiel acquisition programs. As the principal Army consumer and user of behavioral sciences information generated by our work, Gen Maude had direct responsibility over our colleagues at the US Army Research Institute(ARI) for Behavioral and Social Sciences, many of whom are active in Div. 19.

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In the past several months, we also witnessed a seemingly successful high-tech military attack on a backward and oppressive regime in a third world nation. We feel better for that, but we are very unsure of what an uncertain future holds. As we contemplate our next military and other counter-terrorist actions, we might pay some heed to the play out of the obviously successful work of thousands of military and civilians engaged in such battles. In many ways the success of their work accentuates the carefully designed *people-machine interfaces* that make the use of high technology so effective. Many of those weapons, night vision devices, computer, communication, and information system interfaces were configured to work flawlessly because they were each built upon the seminal work of our research colleagues over the past two decades.

So what is next for us? To paraphrase Yogi Berra, what we know about the future is that it is quite uncertain. One item of direct pertinence to our Division forum is that in December 2001, the National Academies of Sciences (NAS) convened a new special committee on Science and Technology for Countering Terrorism. The new committee is to help the federal government in general, and the Executive Office of the President in particular, in leveraging the nation's scientific and technical community to respond to the threat of catastrophic terrorism. The Committee will recommend research agendas to improve defense across seven areas: biological; chemical; nuclear and radiological; information technology; transportation; electric facilities, cities and fixed infrastructure; and behavioral, social and institutional issues. The 25-member panel is to deliver its first report in May 2002. The report likely will be used to rally the scientific and engineering communities in a common effort to refocus many efforts toward preventing future attacks of terrorists. .

The members of the National Research Council (NRC) Committee on Human Factors, supported by such organizations as the Federation of Behavioral, Social and Cognitive Sciences, the APA Science and Policy Directorates, and the Human Factors and Ergonomics Society, are ardently attempting to establish a rightful role for Behavioral Sciences and Human Factors communities in the whole of the NAS deliberations. An overriding goal is to spell out the potential for our important work and contributions in each of the seven study areas in whatever subsequent recommendations the national

reports contain about how our federal government might proceed in pursuing long lasting counter-terrorist activities and programs.

Unique ideas, and offers to become involved in these important issues can be directed to Geoff Mumford at APA Director of Science Policy office at: gmumford@apa.org, to Dr. Kurt Salzinger, APA Executive Director for Science at: ksalzinger@apa.org, or to Jerry Krueger at: gkrueger@thewexfordgroup.com .

On other important business of the Division.

Division 21 Student Representative: **Haydee M. Cuveas**, a graduate student at the University of Central Florida was named in September to be our Division 21's principal student member coordinator and representative. Faculty members please contact Haydee with information about student programs in your academic department, and kindly place her into contact with your graduate students who are interested and involved in engineering psychology. Haydee's email address is: hmm96245@pegasus.cc.ucf.edu

Our congratulations to **Dr. Robert J. Sternberg** at Yale University, and a Division 21 member, who was elected as the **APA President-Elect** this year and will take over the office of President of APA in January 2003. You can see Bob's photo and an article about him in the January 2002 issue of the *Monitor on Psychology*, page 12.

Congratulations too to our Div. 21 education committee chairperson, **Alan M. Lesgold**, who in August 2001 received the APA award for distinguished contributions for applications of psychology to education and training. See Alan's photo, the award citation, and his biography in the November 2001 *American Psychologist*, page 962.

Midyear Executive Committee meeting: the next meeting will be from 0800-1130 hours at the Fort Belvoir, VA Officers Club, in the Belvoir Room, on Thursday March 7th. The meeting will precede the midyear symposium which begins promptly at noon that same day, in the same venue. Any Div. 21 member who is attending the symposium is welcome to join us for this Division leadership business meeting as well.

Midyear Symposium March 7th-8th 2002. We have had overwhelming response to our call for papers for the midyear symposium, co-sponsored by Divisions

21 and 19, and the Potomac Chapter of the Human Factors and Ergonomics Society. The meeting scheduled for noon Thursday, March 7th and all day Friday March 8th at Fort Belvoir, VA is shaping up to be a real winner. See the tentative program schedule depicted elsewhere in this newsletter. For

advance registration at the discount rate, be sure to send your fee to Richard T. Kelly, our Secretary-Treasurer before the **deadline of February 15th**. Contact Dick Kelly at email: rtkelly@aol.com I hope to see a large number of you in attendance at this important Division event.

Spotlight on Educating Our Future Professionals: Undergraduate Programs in Human Factors/Engineering Psychology

**By Haydee M. Cuevas
Student Representative**

One of the Division 21's primary goals should be to increase awareness in college-bound high school students, as well as current undergraduate students, of the opportunities found in the field of human factors/engineering psychology in general and of Division 21, in particular. By increasing awareness of our discipline, we, as members of Division 21, can improve our chances of attracting bright, talented and energetic students to the various undergraduate and graduate programs around the country, which can only serve to enrich our profession and benefit society. Toward this end, we begin by spotlighting a couple of quality undergraduate human

factors/engineering psychology programs in this issue of the Division 21 newsletter. In the next issue, we introduce the Engineering Psychology program at the United States Military Academy (USMA) in West Point, New York. Future issues will report the results of a preliminary survey that investigated the awareness of the concept and discipline of ergonomics in college-bound high school seniors. In the future we will present other Human Factors Psychology programs such as the one at Embry-Riddle Aeronautical University (ERAU) in Daytona Beach, Florida. For each, we will highlight what makes these undergraduate programs unique, focusing on the competencies they seek to instill in their graduates upon completion of the program.

APA and Organizations

The Psychology Of Terrorism: Mind Games And Mind Healing*

**By Philip G. Zimbardo, Ph. D.
President of the American Psychological
Association**

As the war in Afghanistan winds down and the relentless hunt for Osama bin Laden continues, our government is gearing up for what is promised to be a long battle against the shadowy, ubiquitous enemy of world wide Terrorism. Leaders from the corporate, scientific and technical sectors of our country are collaborating to develop strategies for combating almost every conceivable kind of terrorist attack - bio-terrorism, cyber-terrorism, nuclear-terrorism,

terrorism against our reservoirs, grain stores, food delivery systems, and of course airlines, tunnels and bridges. They are working on the assumption of international enemies with sophisticated technologies and ample resources to deliver lethal attacks that would cripple our nation's functioning. Putting their big security plans into operation will cost billions of "better safe now than sorry later" taxpayers' dollars. Given the current state of national angst over the devastating attacks on the World Trade Center and Pentagon, along with the anthrax mail contamination, most Americans are ready to pay almost any price for greater security.

But what is missing in this big view of the demonic, technologically savvy Enemy bent on mass destruction? Missing is the recognition of the less obvious psychological perspective on what terrorism is all about. Terrorism is the process of inducing fear in the general population by means of acts that undercut an established sense of trust, stability and confidence

*S.F. Chronicle "Insight" Year-End Special Edition, Dec. 30, 2001, p. D6 (Full version of condensed published essay)

in one's personal world. Unpredictable, dramatic acts of seemingly random violence are the terrorist's signature. Our fear is a realistic emotional response to events that can harm us, and we react to fear by fleeing or fighting it, or freezing in its presence. Fear becomes anxiety when it generalizes beyond the specific danger situation to become a more pervasive feeling of personal vulnerability to things that are not intrinsically dangerous, but are linked symbolically or historically to danger. Anxiety may be triggered by current events that link to unresolved earlier conflicts, to feelings of loss of control, or to childhood states of inadequacy. The actual danger of most terrorist attacks is relatively small compared to on-going dangers in our every day lives, such as accidents, stress-induced heart attacks, obesity-induced diabetes, or disability and death from smoking. It is the irrational anxiety that terrorists are able to spread wide and deep that amplifies their impact. Kill one president, make everyone feel threatened. Torture and rape a few and make many feel insecure. Destroy a building and have citizens worry that theirs will be next. The terrorists' omnipresent weapon is exaggerated fear that spreads into action-crippling anxieties, especially when delivered repeatedly by television and print media. It is more likely that terrorists would suicide bomb some urban subways or time bomb a few rural school buses than poison our water or food supply. The key to combating terrorism is adopting their minimalist mind set of the rippling impact of singularly dramatic deeds, not using the lens of our grand vision of what major calamity we would inflict given our power -- if we were terrorists.

In a profound sense, everything of terrorism is about psychology. Beyond their mind games is the way we cope with their threat. When national leaders repeatedly issue alarms for hyper-vigilance, they ignore all the psychological research about the negative effects of non-specific warnings without any action focus - only making us more paranoid and less mindfully alert. Many of the victims of the Sept. 11 attacks have turned to psychologists for counsel, therapy and aid to help with their overwhelming personal and family grief and stress, and we have continued to give them our services freely. Psychology is also at work in the remarkable transformation that has been taking place in communities throughout the United States. We have changed since our initial sense of feeling victimized as the hated enemy of unknown forces, as being vulnerable in a way Americans have never felt on our

homeland. We are developing a more thoughtful, mature outlook on life, sensitive to the preciousness and fragility of all life, and aware of the need to connect more deeply to family and friends. Research shows that reinforcing one's social support network is the single most powerful act any of us can do to improve our health and longevity. There seems to be a shift away from our preoccupation with future goals and materialistic ambitions towards a better blending of our time frames to include present joys and indulgences as well as embracing past links to our roots and spiritual values. In volunteering money, blood and services, more Americans than ever before are reaching out to help our near and distant neighbors. We have all been the beneficiaries of learning of the sacrifices of so many ordinary men and women in police, fire and emergency forces at Ground Zero, who have become the nation's new breed of hero, replacing celebrities and the idle rich and famous.

The losses of Sept. 11 still hurt and sadden us, but we are emerging as wiser, and are collectively discovering new sources of resiliency that are apparent only when our resolve and courage are put to extreme tests. We are going beyond simplistic patriotism, with its songs and slogans, to question how much of our basic freedoms we are willing to surrender for an illusion of security? We are becoming aware that there are not simple, immediate solutions for complex problems that have been in the making for decades. We can be proud of the ways in which most Americans have demonstrated tolerance for the ethnic and religious diversity that so enriches our national purpose. We can now better appreciate the depth of resiliency that has always been the hallmark of people of color and the poor in our nation, learning from them that a sense of community and kinship helps transcend suffering and victimization.

Psychology is all about making the human connection, about understanding and contributing to enriching human nature. And it is about our enduring televised imprinted memory of September 11. Vibrant lives of thousands of people from New York City and its neighboring Global Village are now images held tenderly in the arms of our million memories. Psychology is about thinking, feeling and acting -- sometimes to create a bit of hell and sometimes a bit of heaven on earth.

Women In Division 21

Regina Collina-Willner is our Div. 21 representative to the APA **Committee on Women in Psychology Network**. The Committee works to enhance women and women's issues within APA by: continued and consistent communication with Network members, and working with input from members. For information or to participate in this APA activity, contact Regina at email: rwillner@ix.netcom.com

By Regina Colonia-Willner
Div. 21 CWP Representative

1. Women Membership

According to our on-line member directory consulted in mid December 2001, 107 women belong to Division 21. Here's the tabulation by membership category: 44 Members, 14 Fellows, 24 Students, 18 Affiliates and 7 Associates. The on-line member directory contains upwards of 400 people.

2. CWP

The American Psychological Association's Committee on Women in Psychology (CWP) maintains a network that is comprised of representatives from various divisions and state psychological associations. The current CWP Network representative for Division 21 is Regina Colonia-Willner, PhD.

Some of the responsibilities of the CWP are:

- Coordinate APA's efforts to ensure equal opportunity for women psychologists as scientists, educators, and practitioners;
 - Monitor the welfare of women as consumers of psychological services; and
 - Provide information and opportunities for Network members to become more active in APA governance.
3. **Request for Submission of Effective Practices**

Advancing the Careers of Women in Science

The AXXS (Achieving Excellence in Science) ACTeam requests submission of one or more Effective Practices related to advancing the careers of women in science. These Best Practices may be included on the AXXS Website (www4.od.nih.gov/axxs/) and also may be published for other purposes such as the upcoming AXXS 2002 Workshop, sponsored by ORWH at the National Academy of Sciences.

4. New Dates

The 3rd APA Women's Health Conference will be held on February 21-23, 2002. For information and to register, visit <http://www.apa.org/pi/wpo/whc3/whc3.html>

CALL FOR NOMINATIONS – 2002 Committee on Women in Psychology (CWP) Leadership Awards

The APA Committee on Women in Psychology (CWP) invites nominations for its eighteenth annual Leadership Awards. These awards serve to actively demonstrate CWP's commitment to ensure that women receive equity both within psychology and as consumers of psychological services, and that issues pertaining to women are kept at the forefront of psychological research, education, training, and practice.

Nominees will be identified as "emerging" or "distinguished" leaders in one or more areas of influence: service provision, scholarship, public interest, and service in psychology. Emerging leaders are psychologists who have received their doctorate within the past 15 years, have made a substantial contribution to women in psychology and show promise of an extensive, influential career. Distinguished leaders are psychologists who have

worked for 15 years or more after receiving their doctorate. They should have a longstanding influence on women's issues and status and should be recognized leaders in their area of expertise.

All nominations must include a brief statement of support for the nominee (500-word maximum), a current vita (6 copies), and three letters of reference (6 copies of each letter). Reference letters should address the nominees' leadership activities, contributions, and scope of influence that advance knowledge for and about women, foster understanding of women's lives, and improve the status of women and underrepresented populations of women in psychology and society.

Current CWP members, members of APA's Board of Directors, individuals who have announced candidacy for APA President, and APA staff are not eligible. CWP members cannot make nominations. Award

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recipients, selected by CWP in March, will be announced at the APA Convention in August 2002.

Nominations and supporting materials must be received by Thursday, February 1, 2002. Send nominations materials to: Leslie Cameron, Women's Programs Office, American Psychological Association, 750 First St., N.E., Washington, DC 20002-4242.

Behavioral And Social Sciences Research Guide To Grants At The NIH

The NIH Office of Behavioral and Social Sciences Research (OBSSR) is launching a new e-mail service for announcing NIH funding opportunities in the behavioral and social sciences. On a monthly basis, OBSSR will distribute a listing of and hyperlinks to recent funding announcements (Program Announcements, Requests for Applications, Notices) published in the NIH Guide to Grants and Contracts.

A sample issue is posted at

<http://obssr.od.nih.gov/publications/bssr-guide/sample.htm>.

To receive these monthly announcements, please join the special listserv. It takes only one e-mail to take advantage of this service. (And we promise you won't be deluged with messages. Just one or two per month.) Send an e-mail message to:

listserv@list.nih.gov <<mailto:listserv@list.nih.gov>>

The message should read SUBscribe BSSR-Guide-L [your full name]. The message is case sensitive; so capitalize as indicated! Don't include the brackets.

For example, for Robin Smith to subscribe,

the message would read:

SUBscribe BSSR-Guide-L Robin Smith

The subject line should be blank.

You will receive back an acknowledgement of your subscription that will also provide instructions on how to unsubscribe from the list.

This announcement is also posted at <<http://obssr.od.nih.gov/publications/bssr-guide/>>.

For more information, please contact:

Ronald P. Abeles, Ph.D.
Special Assistant to the Director
Office of Behavioral and Social Sciences Research

National Institutes of Health
Gateway Building, Room 2C234
7201 Wisconsin Avenue MSC 9205
Bethesda, MD 20892-9205
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Phone: 301-496-7859 Fax: 301-435-8779

E-mail: abeles@nih.gov

HomePage: <http://obssr.od.nih.gov>

The International Society for Gerontechnology's 4th International Conference on Gerontechnology

November 9-12, 2002.

On behalf of the local organizing committee -- Neil Charness, Florida State University; Sara Czaja, University of Miami; Arthur D. Fisk & Wendy Rogers,

Georgia Institute of Technology -- we invite you to submit an abstract to the 4th International Gerontechnology Conference. This conference will be held for the first time in North America, at the Wyndham Miami Beach Resort Hotel in Miami Beach, Florida. The conference theme is: "Creative use of technology for better aging." Our conference will be encompassing themes that span the challenges of adulthood such as: Work and Aging, Health Care (Telemedicine), Communication, Caregiving, Mobility and Transportation, Life-long Learning, and Domotics (Smart Homes). Invited keynote speakers will address these themes. We encourage you to submit symposia, papers, and posters related to these themes.

Our Scientific Advisory Committee Members are:

Herman Bouma, The Netherlands

Roger Coleman, England

Irene Coulson, Canada

Geoff Fernie, Canada

James Fozard, USA

Michel Frossard, France

Melissa Hardy, USA

Beth Meyer, USA

Heidrun Mollenkopf, Germany

Mitsuo Nagamachi, Japan

Lawrence Normie, Israel

Ken Sagawa, Japan

Richard Schulz, USA

John Thomas, USA

Johanna van Bronswijk, The Netherlands

Patricia Wright, Wales

The Deadline for abstract submissions is March 1, 2002, with notification of acceptance being sent by

June 1. Early registration at a reduced rate ends on July 1, 2002. Detailed information on the conference registration and abstract submission procedures is at the following URL: <http://psy.fsu.edu/~isg/>

Information on ISG can be found at: <http://www.gerontechnology.org/>

ISG's new Journal, Gerontechnology, can be found at: <http://www.gerontechjournal.net/>

Dee Andrews and the Emperor's Clothes

By Bill Howell, Chair, APA Board of Convention Affairs (BCA)

My friend Dee Andrews rejoined Division 21 a while back. I'm not sure exactly why, but I assume it had something to do with the expectation that he would find it rewarding professionally. Soon afterward, he accepted an invitation to serve as our convention program chair, undoubtedly seeing this as an early opportunity to have his expectations fulfilled.

In view of the fact that major changes are in the works for the 2002 (Chicago) convention, and our Doug Griffith is playing an important role in one of the main innovations—collaborative, thematic “track” programming—the outlook for the *Engineering and Applied Experimental* program appeared bright. Dee must have considered himself pretty lucky to be chosen as the Division's program architect for this historic occasion.

In order to enhance the opportunity for Dee and his fellow program chairs to share information and collaborate, BCA set up a listserv which I was obliged to monitor. One day I saw a note posted by Dee that really got my attention. Our golden opportunity to showcase the Division had yielded a grand total of 3 (as in *three*) submissions! Following up on this note, what I found was one extremely disillusioned program chair who posed some very disturbing questions. I share them with you now because they run far deeper than the passing frustrations of organizing a decent division program for Chicago.

“If this response is indicative of our members' interest,” Dee asked, “what's the point of trying to cobble together a program? Why not just give APA the hours back and call it off?” I explained why I thought that might not be a good idea, mumbling things about the importance of showing our flag even if we can't attract marchers, and the need to serve members who *do* attend even if they are few in number, but neither he nor I found my arguments very convincing. Still, he agreed to keep plugging.

And then he posed an even tougher question: “Since a convention is presumably one of the main activities of

professional organizations, what does it say about us that so few of our members participate? Does it make sense even to sustain an *APA division*—and struggle to recruit new members—in the face of such apathy? If most of the people in our specialty, members and non-members alike, are satisfying their professional needs elsewhere through organizations like the Human Factors and Ergonomics Society (HFES), why bother?”

Reaching for my thinking cap and the aspirin bottle, I scanned some numbers. We have about 350 members, compared to about 4,000 for HFES (the majority from psychology programs) and an estimated population of 20,000-30,000 professionals working in the general domain of human factors. Thanks to the continuing effort of our membership chairs, the Division's numbers have remained fairly stable in recent years despite the Division's aging demographic profile. But only 21 of our members showed up at last year's convention (barely 6% of our fairly minuscule roster). Dee's predecessors have doggedly twisted arms and beat bushes in order to put on quality sessions, many of which drew fewer than a dozen people. Fewer than half our elected officials are typically present at either the incoming or outgoing executive committee meetings, and since they comprise virtually the total attendance at the business meeting, corporate decisions are made by a literal handful of individuals. Most of us old timers have become habituated to this situation and consider it normal.

Leave it to Dee Andrews, a relative newcomer, to question our emperor's attire. Are we clothed only in an anachronistic illusion, as he suggests, or does Division 21's fabric still have substance? What follows is the best my threadbare thinking cap can muster, but it's hardly a complete and satisfactory answer. The ultimate answer rests with the collective you.

The Society from which Division 21 evolved was created largely by experimental psychologists who didn't quite jibe with the “pure science” bent of Division 3. Most had applied interests growing out of their “human engineering” experiences in WWII, and

many sustained their interdisciplinary involvement in systems work through the newly formed *Human Factors Society*. However, their primary identity remained with scientific psychology; hence Division 21 was their professional “home.” Subsequent generations of psychologists trained in this tradition drifted increasingly into specialty areas like human factors, assumed that identity, and changed their professional residence accordingly. Division 21 became perceived as—and pretty much was—a stagnant “old boy’s club.” Periodic recruiting efforts provided a steady trickle of new blood, substantial change in its demographics and leadership, and an occasional burst of activity which it never seemed able to sustain. Yet a few have hung in there over the years, and just maybe—despite the depressing convention numbers—better days lie ahead.

I don’t know why others have stuck around, but my reason was simply because I’ve continued to regard myself as a *psychologist*, even though many of those similarly trained who pursued similar careers have not. Applied fields like human factors still draw heavily from the psychology talent and knowledge pool, and by virtue of its size and resources, APA has far more to offer in terms of promoting human-oriented design (research and application) than any other organization on the planet—even though very few of our 350 members (or the 20,000-plus non-member beneficiaries) appreciate it. Granted, specialized organizations like HFES serve important professional needs, and I value my involvement in them. Yet severing formal ties with *psychology* as so many have done inevitably leads to erosion of the intellectual connection. As editor of the journal *Human Factors*, for example, I was appalled by the lack of psychological sophistication evident in many of the manuscripts submitted by former citizens of our field who clearly had lost touch. In sum, I think Division 21 is worth sustaining because it provides a home for folks who understand how important psychology is to their work, who value the institutional connections it affords, and who realize what APA means to our profession.

Returning to the convention, not only does it provide a venue for recharging one’s psychology batteries, a national gathering of some 15,000 –20,000 psychologists and a large media presence affords a unique opportunity for showcasing our wares. We can give the world what many other specialties cannot: concrete examples of how psychology has been applied for the betterment of society. Psychology

needs such success stories, and we have some damn good ones. I can’t help believing that if we hang in there long enough, and play our cards right, Division 21 can have a significant impact on APA, and can leverage that into a huge impact on society. This is the age of technology and we are the *only* APA division with that exclusive focus. Indeed, this is precisely the theme that Doug’s “program track” will be featuring in Chicago for a much larger audience (mostly “outsiders,” I fear) than we’re accustomed to.

The “new” convention will be shorter (closing on Sunday) than in years past; the programming will all be held in one place, and it will feature more invited sessions designed to appeal to clusters of divisions with shared interests (“program tracks”) and to the entire psychological community (“plenary sessions”). Division programs will be retained, but will not have to compete with the tracks or plenaries. The “tracks” are blocks of 5 consecutive hours organized by representatives of 4-5 divisions around a common theme that compete only with other special-interest tracks. They feature “name” speakers, innovative formats (like debates, interactive posters) and “hot topics”—hence they’ll likely attract not only fellow psychologists, but media interest as well. I’m convinced that once people experience it and we get the inevitable bugs worked out, the new convention will prove far more exciting for everyone. Equally as important, it will give small divisions like ours an exposure opportunity that we’ve have never had before—a chance to present to more than a handful of our usual suspects.

I can’t challenge Dee’s observation: to the naked eye (no pun) the emperor’s clothing does appear in tatters, and maybe it should be relegated to the rag bag. But I’ve noticed some signs lately that maybe the garments aren’t beyond mending after all. Despite the depressing numbers, Division 21’s recent leaders seem “fresher,” more energized, more up-beat, and more committed than we old-timers were. We’ve got a good website and newsletter and journal; and folks like Jim Callan and Wendy Rogers who have been active in APA governance. We’ve got folks like Jerry Krueger and Debbie Boehm-Davis giving testimony on Capitol Hill thanks to APA’s Public Policy Office. We’re getting good exposure in the *APA Monitor*. And opportunities galore, such as the new convention, lie ahead of us—if we choose to seize them.

In the final analysis, however, it’s for you and me to determine the answer to Dee’s questions, and not by

words but by actions. Is our convention program worth holding in the future? Submit good material, show up, persuade others and it will be—and success will breed success. Don't and it won't. Is our division worth sustaining? Understand and appreciate its

value, persuade others, participate, and it will be. Success will breed success. Don't and it won't. Clothes or birthday suits—it's our call. And the clock is ticking.

Membership News

Fellows Nominations

Division 21 Fellows Committee. We have a new Div. 21 committee for Fellows. In November, 2001, **Robert D. Sorkin**, psychology professor at the University of Florida, Gainesville, agreed to serve as the Chairperson for our three-person committee. **Ben C. Morgan, Jr.**, at the University of Central Florida, and **Astrid Schmidt Nielsen** at Naval Research Lab also agreed to serve on our Fellows committee.

We want to encourage everyone to think of new Division 21 Fellowship Candidates for 2001. Any member of Division 21 is eligible to nominate a candidate, including yourself. The nomination package includes a nomination form, materials for three endorsers, who must be Fellows of APA, and complete descriptions of the process of achieving fellowship status. There are two cases -- (1) Where the nominee is already a fellow of APA initiated by another division. In this case the application is only reviewed by the Division Fellows Chairs and the Division Executive Committee and (2) Where Division 21 will be initiating application for fellowship status in APA as well. Nominations that have to go through the APA process must be delivered to the APA Membership Committee by February 19th. We ask that all nominations, including all endorsements, be delivered to the Fellowship chairs by February 1st.

Since the Fellows Committee must submit our Division recommendation packages for APA or Div. 21 fellows to the APA Membership committee by February 19, 2002, please get your nomination support packages ready pronto, as the fuse is running short for this year's nominees.

Please send your recommendations to:

Dr. Robert D. Sorkin
Department of Psychology
University of Florida
P.O. Box 112250
Gainesville, FL 32611-2250
Work: (352) 392-0601 ext 229 FAX: (352) 392-7985
E-Mail: sorkin@ufl.edu

Awards Nominations Due Now

Robert W. Swezey, Past President/Awards Chair

Please consider nominating a colleague, student, or coworker for a Division 21 award. The awards are:

- *The Franklin V. Taylor Award* for outstanding contribution to the field of Applied Experimental and Engineering Psychology
- *The Earl A. Alluisi Award* for early career achievement (fewer than 10 years in the field)
- *The George E. Briggs Dissertation Award*

The Nomination forms are included in this issue of the Newsletter or may also be downloaded from the Division 21 website. The completed forms along with all required supporting material are due to the Awards Chair by **March 15, 2002**.

Other News

In the Autumn 2001 issue, **Mark Saint John's** name was inadvertently left out of Jerry Krueger's attempt to recognize and thank him for the outstanding job he and his committee did on the Convention Program for August 2001 in San Francisco. We thank you Mark.

Federation: On November 29, 2001 **Jerry Krueger** was one of five speakers at the Federation of Behavioral, Social and Cognitive Sciences Forum on Research Management (FORM) meeting held at APA headquarters. The meeting focused on the "role of the behavioral sciences in the post-September 11th world."

Joining a number of specialists concentrating on PTSD-like topics, by contrast, Jerry's talk addressed a list of 17 human factors items largely framed around his Autumn Div. 21 newsletter president's column which listed pertinent human factors related research and consulting expertise that Div. 21 members could bring to the discussion.

2002 Call for Proposals for APA Interdivisional Grants Project. The Committee on Division/APA Relations of the APA seeks proposals for collaborative projects sponsored by two or more APA divisions. The purpose of the project is to support joint activities that enhance the work, interests or goals of two or more divisions. The incentive for that collaboration can be a grant of up to \$2,500., although exceptional projects requiring funds in excess of \$2,500 will be considered. Deadline for grant proposals this year are due to the APA Division Services Office by March 2, 2002. Forms and information are available from **Courtney A. Leyendecker** at email cleyendecker@apa.org.

You may recall Div. 21 teamed with Div. 19 to obtain such a grant in conjunction with our midyear symposium for March 2001. Repeat projects are not encouraged. If you have a good idea worthy of pursuit

this year, or even next year, please bring it up with members of the Div. 21 Executive Council for a plan of action.

Verify your personnel directory information in print and on the Division web site. The APA Membership section produces an annual printed hard copy directory of all 84,000+ APA members. The information printed in that directory is usually updated from information we provide on the forms when we pay our annual dues. In some cases, the information printed in that annual APA directory does not match what our Division has listed on our Division 21 membership directory available on our web site: <http://www.apa.org/divisions.div21/>

Please check to verify your personal information listed on our web site directory, and if it needs to be altered, send requested changes to Henry Emurian, our membership chairperson and webmaster, at email: emurian@umbc.edu

List Serve Notice: If you are not on the Division 21 list serve, and would like to receive periodic email announcements from the division, please send your particulars via an email to Wendy Rogers at: wr43@prism.gatech.edu

From the Editor: Design Failures in the News

Susan S. Kirschenbaum, Newsletter Editor

During 2001 the major news stories have been about devastation and its consequences. One of the victims has been the economy – especially the technology sector. Most of the reasons for the tech crash are complex and not relevant here. However, some are due to the old failure to understand the potential users. In the December 31, 2001 edition of USA Today Michelle Kessler, a staff writer, reviewed some of the design disasters that failed the user test. The products included multi-functional digital cameras, the e-book, the dashboard of an expensive automobile, and the :CueCat (remember that?). What they all had in common, besides being design failures, was years of over engineering and no time in user testing.

Why do I bring this up? We know that it is an old story. I am not planning to preach to the choir. We all know that the cost of a good design is far less than the cost of training every user for the life of the product – or the cost of a single catastrophic error. What I would like is documentation of design failures or successes

that have a well documented “bottom line” impact. There are some striking examples, (e.g., the *Land Warrior* research that is mentioned in the Presidential message or *Project Ernestine* which saved NYNEX millions, Gray, John, & Atwood, 1993) but most of us still find that we have to fight the same battle over and over again. Moreover, where examples have made their way into the consciousness of the engineering brotherhood, there is a tendency to want to use the same technique that was successfully employed in the example. Sometimes that is fine but sometimes it is like trying to tighten a screw with a hammer!

Please send examples, including cost / savings, for publication in upcoming newsletters. Send your examples to kirschenbaumss@npt.nuwc.navy.mil

Call for Division 21 Nominations

Traditionally, we receive relatively few nominations from the membership. I would like to challenge each of you to break with tradition and nominate someone who you feel will serve as a good President or as a member-at-large on the executive committee. Your involvement and input are critical to the continuation and growth of the Division. Strong leadership is needed to continue efforts to enhance the role of applied experimental and engineering psychology within APA.

Please take the time to review the list of current officers, look up the list of members in the member directory on our web site (<http://www.apa.org/divisions/div21>) and nominate a friend or colleague for one of the two positions we are seeking to fill this year.

The offices to be filled in our 2001-2002 election are:

President-Elect

Member-at-Large Executive Committee

NOTE:

In making your nominations, please refer to the list of previous Presidents. Past Presidents may not be nominated again for President. Nominees must be active Fellows or Members of the Division.

Nominations should be returned by surface mail:

David J. Schroeder
FAA CAMI-AAM-500
P.O. Box 25082
Oklahoma City, OK 73125
FAX: (405) 954-4852

or E-mail:

David_Schroeder@mmacmail.jccbi.gov

Please be sure your reply arrives no later than January 30, 2002.

Thanks,

Dave

Presidents of Division 21

P.M. Fitts
F.M. Taylor
A. Chapanis
W.F. Grether
1961-1962 J.C.R. Licklider
J.M. Christensen
L.C. Mead
H.J. Older
W.C. Biel
K.D. Kryter
A.W. Melton
N.H. Mackworth
J. Orlansky
J.A. Adams
R.A. McFarland
E.T. Klemmer
E.A. Alluisi
G.E. Briggs
H.M. Parsons
H.W. Sinaiko
E.A. Fleishman
J.W. Senders
R.M. Chambers
M.A. Tolcott
F.A. Muckler
H.P. Van Cott
R.C. Williges
W.C. Howell
R.W. Pew
N.S. Anderson
M.H. Strub
H.L. Taylor
J.J. O'Hare
R.S. Kennedy
E.R. Dusek
F.T. Eggemeier
J.M. Koonce
B.B. Morgan, Jr.
A.D. Fisk
A. Schmidt-Nielsen
W.A. Rogers
C. Bowers
J.R. Callan
R.W. Swezey
2001-2002 G.P. Krueger

Division 21 Executive Committee

Gerald P. Krueger, President
Robert W. Swezey, Past President
David J. Schroeder, President-Elect
Richard T. Kelly, Secretary/Treasurer
Henry L. Taylor, Rep. to APA Council
Stephen Goldberg, Member-at-Large
James E. Driskell, Member-at-Large
Doug Griffith, Member-at-Large

Committee Chairs and Representatives

Henry Emurian, Chair, Membership Committee
Susan Kirschenbaum, Newsletter Editor
Dee H. Andrews, Annual Meeting Program Chair
Robert D. Sorkin, Chair, Fellows Committee
Nancy S. Anderson, Division Archivist
Joe Ziedner, Federation Representative
Wendy A. Rogers, Listserv Manager
Henry Emurian, Representative to APA Teaching and Learning Roundtable
Regina Colonia-Willner, Liaison, APA Women's Programs
Alan M. Lesgold, Liaison, APA Committee on International Relations in Psychology
Haydee Cuevas, UCF, Student Representative to the APA Student Group

2002 NOMINATION FORM FOR FRANKLIN V. TAYLOR AWARD for

Outstanding Contributions in the Field of Applied Experimental/Engineering Psychology

Recipients of this award are expected to deliver an oral presentation of approximately 45 minutes as part of the Division 21 program at the next (2003) annual meeting of the APA. The presentation should address a scientific or technical topic, provide an historical review of the recipient's area of expertise, or describe personal reflections on important events in the development of applied experimental or engineering psychology.

From: _____ (include E-mail address)

To: Division 21 Awards Committee

I nominate _____

whose present position is _____

and address is _____

Please provide the following support for your nomination.

Attach a letter showing outstanding contributions your nominee has made to the field of applied experimental/engineering psychology. The Awards Committee believes that potential recipients will have contributed by virtue of (1) research and publication, (2) special new contributions, e.g., equipment or techniques, or (3) general leadership in the field, e.g., teacher, director of laboratory, officer in societies, etc. Please demonstrate how your candidate is outstanding with respect to one or more of these criteria.

Attach the candidates vita.

Previous nominations will be reconsidered by the Awards Committee. Please update the supporting material and include an updated vita.

Please send this form or a nominating letter and supporting documentation by March 15, 2002 to:

Robert W. Swezey
InterScience America, Inc.
PO Box 6229
Leesburg, VA 20178
E-mail: isai@erols.com
Phone: (703) 779-8090
Fax: (703) 779-8092

E-mail submissions are encouraged.

2002 NOMINATION FORM FOR EARL ALLUISI AWARD for

Early Career Achievement within 10 years of the PhD.

Recipients of the Earl Alluisi award are expected to deliver an oral presentation of approximately 45 minutes as part of the Division 21 program at the next (2003) annual meeting of the APA. The presentation will address a scientific or technical topic reflecting the research contributions of the recipient.

From: _____ (include E-mail address)

To: Division 21 Awards Committee

I nominate _____

whose present position is _____

and address is _____

Please provide the following support for your nomination.

Attach a letter showing the contributions your nominee has made to the field of applied experimental/engineering psychology. The Awards Committee believes that potential recipients will have contributed by virtue of (1) research and publication, (2) special new contributions, e.g., equipment or techniques, or (3) contributions to theory, etc. Please demonstrate how your candidate is exceptional with respect to one or more of these criteria.

Attach the candidates vita.

Please send this form or a nominating letter and supporting documentation by March 15, 2002 to:

Robert W. Swezey

InterScience America, Inc.

PO Box 6229

Leesburg, VA 20178

E-mail: isai@erols.com

Phone: (703) 779-8090

Fax: (703) 779-8092

E-mail submissions are encouraged.

2002 NOMINATION FORM FOR THE BRIGGS DISSERTATION AWARD

For a dissertation completed in the calendar year 2001.

From: _____ (include E-mail address)

To: Division 21 Awards Committee

Student name: _____

whose address is _____

Name of Advisor or Chair: _____

Recipients of the Briggs award are expected to deliver an oral presentation of approximately 45 minutes, based upon their dissertation research, as part of the Division 21 program at the next (2003) annual meeting of APA.

Please provide the following support for your nomination.

1. Forward three copies of the candidates dissertation.

Please send this form or a nominating letter and supporting documentation by March 15, 2002 to:

Robert W. Swezey

InterScience America, Inc.

PO Box 6229

Leesburg, VA 20178

E-mail: isai@erols.com

Phone: (703) 779-8090

Fax: (703) 779-8092

E-mail submissions are encouraged.

The Society for General Psychology American Psychological Association

Call for Nominations for Awards of Year 2002

The Society for General Psychology, Division One of the American Psychological Association, announces its Year 2002 awards competition. The William James Book Award is for a recent book that serves to integrate material across psychological subfields or to provide coherence to the diverse subject matter of psychology. Other award programs include the competition to deliver the Year 2002 Arthur W. Staats Lecture for Unifying Psychology, the Ernest R. Hilgard Award for a Career Contribution to General Psychology, and the George A. Miller Award for an Outstanding Recent Article in General Psychology. The awardees will receive a certificate and a cash prize of \$1000 for each Award. For each of these awards, the focus is on the quality of the contribution and the linkages made between the diverse fields of psychological theory and research. The Society for General Psychology encourages the integration of knowledge across the subfields of psychology and the incorporation of contributions from other disciplines. The Society is looking for creative syntheses, the building of novel conceptual approaches, and a reach for new, integrated wholes. A match between the goals of the Society and the nominated work or person will be an important evaluation criterion. The Staats Award has a unification theme, recognizing significant contributions of any kind that go beyond mere efforts at coherence and serve to develop psychology as a unified science. The Staats Lecture will deal with how the awardee's work serves to unify psychology.

There are no restrictions on nominees, and self-nominations as well as nominations by others are encouraged for these awards. For the Hilgard Award

and the Staats Award, nominators are asked to submit the candidate's vitae along with a detailed statement indicating why the nominee is a worthy candidate for the award and supporting letters from others who endorse the nomination. For the Miller Award, nominations should include: vitae of the author(s), four copies of the article being considered (which can be of any length but must be in print and have a post-1996 publication date), and a statement detailing the strength of the candidate article as an outstanding contribution to General Psychology. Nominations for the William James Award should include three copies of the book (dated post-1996 and available in print); the vitae of the author(s) and a one-page statement that explains the strengths of the submission as an integrative work and how it meets criteria established by the Society. Text books, analytic reviews, biographies, and examples of applications are generally discouraged. Winners will be announced at the Fall convention of the American Psychological Association the year of submission. Winners will be expected to give an invited address at the subsequent APA convention and also to provide a copy of the award address for inclusion in the newsletter of the Society.

All nominations and supporting materials for each award must be received on or before April 15, 2002. Nominations and materials for all awards and requests for further information should be directed to General Psychology Awards, c/o Lynn Hasher, Department of Psychology, University of Toronto, Toronto, ON M5S 3G3 Canada. Phone: 416-978-7620; Fax: 416-978-4811; E-mail: hasher@psych.utoronto.ca

Midyear Symposium March 7-8th, 2002
Contemporary & Emerging Issues
in Human Factors, Engineering and Military Psychology

Sponsored by American Psychological Association's
Division 21: Applied Experimental and Engineering Psychology
Division 19: Military Psychology, and
Potomac Chapter, Human Factors & Ergonomics Society

Symposium Location: Officers Club, Fort Belvoir, Virginia

tentative Program Agenda

- Div. 21 Executive Committee mtg. 8 AM-noon, Thursday March 7th
- Symposium: Noon Thursday March 7th till 5:30 PM March 8th
- Potomac Chapter HFES Dinner Meeting w/ speaker March 7th 6:30 PM

Thursday March 7th

07:30 - 8:00 Continental Breakfast, Belvoir Room,
Ft. Belvoir, VA O'Club

08:00 - 1130 APA Div. 21 Executive Committee Meeting, Belvoir Room

1100 - 1200 On-site registration. O'Club.
(Lunch available at 2 restaurants)

12 Noon Symposium Begins,

Introductory Remarks

G. Krueger (Div. 21); J. Arabian (Div. 19) & J. Ruffner (HFES-Pot.)

1215 - 1445 Optimizing Cognitive Readiness Under Stress

*Multidisciplinary University Res. Initiative (MURI):
Optimizing Cognitive Readiness Under Combat
Conditions*

Peter A. Hancock, University of Central Florida

Viking: Development of an Infantry Scenario Multi-task Environment

W. C. Harris, R. Parasuraman, M. Zinni, P.A. Hancock, S. C. Harris

Information and Decision Uncertainty: Effects of Unreliable Automaton on Multi-task Performance and Workload

E. Rovira, M. Zinni, & R. Parasuraman, Catholic University of America

Sensor to Shooter: Task Development and Empirical Evaluation of the Effects of Automation Unreliability

E. Rovira & R. Parasuraman, Catholic University of America

Training and Performance Outcome: Advanced Technologies, Realistic Graphics, and Increased Stimulation may not be Contributors

C.S. Morris, R. W. Tarr, & P. A. Hancock, University of Central Florida (UCF)

The Influence of Stress and Individual Differences on Subjective Time

J.L. Weaver, V.K. Sims, H.C.N. Ganey, P. A. Hancock, & K. Bradley, UCF

Visual Search for Two Identical Targets: The Role of Ecological Validity

Derek D. Diaz, Valerie K. Sims, P. A. Hancock, UCF

1445 – 1500 Refreshment Break

1500 – 1600 MURI etc. continued: Teams

Training and Design to Enhance Adaptability in Military Teams

J. Fowlkes, C S. Burke, K. Wilson, L. Milham, M. Bergondy & E. Salas, UCF

Newsletter

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Challenges and Considerations in Development of a Team-Based Testbed to Examine the Impact of Stress on Cognitive Readiness and Team Performance

C. Bowers, K. Asberg, C.S. Burke, & E. Salas, UCF

The Impact of Stress on Team Adaptability Within Military Forces

C. S. Burke, L. M. Milham, E. Salas, C. A. Bowers, & J. Fowlkes, UCF

1600 – 1700 **Night Vision Systems**

Contemporary & Emerging Technologies for Night Vision Training

J. Ruffner & J. Fulbrook, DCS Corporation

Technical Advancements in the Night Battlefield (w/video)

G. Nowak, PEO/PM-Soldier Systems

1715 – 1830 Poster Presentations by USMA Cadets & University Grad Students

POSTERS:

P1. Sound Localization Using the Land Warrior System Earpiece: The Effect of Physiological Arousal on Comprehension

A.F. McConnell & S.S. Patel, USMA, Faculty Sponsor: COL Larry Shattuck, Dept BSL

P2. Understanding Target Detection Performance

D.C. Cibik & E.W. Meyerhoff, USMA, Faculty Sponsor: COL L. Shattuck, Dept BSL]

P3. Physiology & Cognition: Evaluation of the Physiological Effects of Cognitive Tasks

M. Block & S. Cotner, USMA, Faculty Sponsor: COL L. Shattuck, Dept. BSL

P4. Multitasking Effects on Comprehension of Battlefield Communications Radio Traffic

M.D. Juntunen & S.A. Boyd, USMA, Faculty Sponsor: Dr. Mike Matthews, Dept. BSL

P5. Effects of Mode of Presentation on Text Comprehension

J.M. Hattmann & M.N. Kracht, USMA, Faculty Sponsor: Dr. Mike Matthews, Dept. BSL

P6. Effects of Video Versus Paper Map in Route Finding Performance

P.M. Gerry & S.C. Reynolds, USMA, Faculty Sponsor: Dr. Mike Matthews, Dept. BSL

P7. The Effects of Voice-Picture Desynchronization on Message Comprehension

M.A. Martinez & J.D. Selby, USMA, Faculty Sponsor: Dr. Mike Matthews, Dept. BSL

P8. An Evaluation of the Practicality of Personal Digital Assistants

J.F. Mitek & K.J. Schachtler, USMA, Faculty Sponsor: Dr. Mike Matthews, Dept. BSL

P9. Land Warrior Monocle: Dominant vs. Non-Dominant Eye Use in Task Performance

D.D. Scott & K. Smith, USMA, Faculty Sponsor: Dr. Mike Matthews, Dept. BSL

P10. Title: Allometry and a Specific Task (175-lb bench press) Create a Fair Upper Body Muscular Strength-Endurance Test for USMA Male Cadets

C. Johnson, USMA, Faculty Advisor: Todd A. Crowder, Ph.D. Dept. Phys. Education

P11. Checklist Performance on the Commercial Flightdeck

M. Diez, George Mason University, Faculty Advisor: D. A. Boehm-Davis & R. W. Hold

1830 – 1900 HFES Potomac Chapter Cash Bar Cocktail Hour, Yorktown Room O'Club

1900 – 2215 HFES Potomac Chap. Dinner Meeting, Yorktown Room

Dinner Speaker: Joe Moyer, FHWA. Also: An Image Intensification (I2) Night Vision view across the Potomac at night

NOTE: Separate HFES dinner reservation & charges apply

RSVP to Don Weitzman at: (202)385-7792 or by email: Don.CTR.Weitzman@faa.gov

Friday March 8th, 2002

0730 – 0800 Continental Breakfast Belvoir Room

0800 – 0930 Physical and Physiological Effects on Performance

Time Course of Cognitive Performance After Ascent to 4300 Meters

L.E. Banderet, R. L. Kane, & S.R. Muza, USA Res. Ins. Environ. Medicine

The Effect of Physical Workload on Cognitive Performance

W. C. Harris, A. Walker, & A. Leon, Univ. of Minnesota, & P.A. Hancock, UCF

Changes in Salivary Amylase and Self-reported Fatigue across Three Increasingly Intense Bouts of Exercise

A. J. Walker, W.C. Harris, A. S. Leon, Univ. of Minn. & P.A. Hancock, UCF

Salivary Amylase as a Marker of Increasing Physiological Stress During a 5-mile Treadmill Road March

A. J. Walker, H.L. Bolgren, K.G. Nichols, A. S. Leon & P.A. Hancock

0930 – 1000 Demonstration of Army's Land Warrior Infantry System

M. Hanna, G.P. Krueger & SFC Stewart, USA PEO/PM-Soldier Systems

1000 – 1015 Break

1015 – 1200 Human Factors: Operator Command and Control Issues

The Effect of Time Stress on Mission Performance in a Virtual Combat Mission

A. Greenwood-Ericksen, J.L. Weaver, P.A. Hancock, & H.C.N. Ganey

Human Factors and USAF Information Warfare Vulnerability Assessments

J. O'Brien, USAF Lackland AFB

What Constitutes an Effective Decision Aid? The RapidOps Prototype

G.L. Harbour, H. L. Hunting, & S.G. Hill, Idaho Nat'l Eng. & Environ. Lab

Intelligent Warfighter-Robotic Interface Design: Challenges and Objectives in Human-Robot Integration

M. L. Lozano & L.E. Borrelli, Raytheon Co. Falls Church, VA

1200 – 1300 Lunch

on your own. Fabulous buffet or cafeteria style in O'Club

1300 – 1515 Human Factors: Operator Command and Control Issues

Making Touch Screen Control Effective

M.B. Scully, Raytheon Co. C3I Systems, Falls Church, VA

Synchronized and De-synchronized Video Communications: Factors Affecting User Comprehension

J.G. Morino, E. Reiner, C. Canelli, & A. Feliz, USMA, West Point, NY

Issues in Support of Higher Operator to Unmanned Vehicle Ratios Using Dynamic Task Allocation

R. H. Campbell, Applied Systems Intelligence, Inc. Roswell, GA

Evaluations of HMD Ownship Status Symbology for Maintaining Situation Awareness

P.R. Havig, US Air Force Research Laboratory, WPAFB, Ohio

Job Analysis and Cognitive Task Analysis of Air Traffic Controllers

R. Reynolds, University of S. Florida & K. Neville, CHI Systems, Orlando

1500-1515 Refreshments provided in-place

1515-1730 Human Factors Potpourri

Evaluation of the Effectiveness of GoArmy.com

D. L. Berryhill, H. Geiseeler, B. N. Stone, & E. M. Wigley, USMA, West Pt.

Social Background Characteristics and Performance of West Point Cadets

A. A. Jones, T. S. Allison-Aipa, & P. T. Bartone, USMA, West Point

Web-based Learning Exercise for Army Training

J. Belanich, K.L. Orvis, & R. A. Wisher, USA Res. Institute & G. Mason Univ.

Video Versus Written Manual Instructions: An Evaluation of Multi-Modal Job Training

H. Finn & L. Schroeder, USMA, West Point

Reducing Driver Error to Enhance Transportation Safety and Efficiency

J.L. Weaver, K. A. Bradley, & J.E. Thropp, Univ. of Minnesota

Symposium Registration Information:

Advance Registration (prior to Feb. 15th)

Day 1 (March 7th) \$25.00
Day 2 (March 8th) \$30.00
Both Days: \$50.00

On-Site Registration on March 7th

Day 1 (March 7th) \$30.00
Day 2 (March 8th) \$50.00
Both Days \$75.00

Students receive 50% off Advance or On-Site registration fees

Make checks out to: APA Division 21

Mail checks to Richard Kelly at:

Richard T. Kelly, Ph.D.
Pacific Science & Engineering Group, Inc.
6310 Greenwich Drive, Suite #200
San Diego, CA 92122

Email: JerryKrueg@aol.com

For more information contact:

Gerald P. Krueger [Div. 21]: (703) 704-1801
Jane M. Arabian [Div. 19]: (703) 697-9271
Maureen L. Hunter [HFES Pot.]: (202) 493-3384

Email: rtkelly@aol.com

Symposium Housing: For gov't employees on travel orders, Ft. Belvoir bachelor officers quarters (BOQ) are available (range \$44. to \$68.) Other suggested housing at Holiday Inn Express, Springfield, VA; (703) 644-5555; gov't rate is \$99. + tax.)

Directions to Fort Belvoir, VA Officers Club: From Reagan National Airport (DCA), drive 12 miles south on Route #1, Richmond Hwy. From Route #1, turn left (East) at the PENCE Gate (South Post); stop to obtain visitors' pass (pre-registered names should be on gate's visitors' list). Follow Belvoir Road to 4th traffic light at 21st Street. Turn left; proceed 100 yards; turn right onto Belvoir Drive. At the fork in the road, bear left onto Woodlawn Drive to Schultz Circle. A free parking area is to the left of the Officers Club Building.

Notice

If you are not on the Division 21 list serve (if you have not received any announcements in the last month) send an email to Wendy Rogers, wr43@prism.gatech.edu.