



**Division of Applied Experimental
and
Engineering Psychology**
Division 21 of the American Psychological Association

- President**
David Schroeder
- Past President**
Gerald P. Krueger
- President-Elect**
Doug Griffith
- Secretary-Treasurer**
Jim Callan
- Members-at-Large**
James Driskell
Doug Wiegmann
Regina Colina-Willner
- Representative to APA Council**
Henry L. Taylor
- Program Committee Chair**
Dee H. Andrews
- Membership Committee Chair**
Raymond King
- Fellows Committee Chair**
Robert (Bob) Sorkin
- Student Representative:**
Haydee Cuevas
- Newsletter Editor:**
Susan S. Kirschenbaum

Message From the President

By David Schroeder, Division 21 President

Midyear Symposium a success story.

In writing this column a year following the tragic events of 9/11, the tendency is to reflect on the tragedy and its impact on us individually and as a society. The aftermath has shifted priorities and changed how we view our freedom and security. In his Autumn message in our newsletter Jerry identified a number of opportunities for applied experimental and engineering psychology to contribute to improving what we now call homeland security. For example, there is an ongoing research program at the William J. Hughes Technical Center supporting security human factors. Despite these efforts, the media has reported on breaches in security, delays in implementing new technologies and hiring necessary security personnel, as well as continued concerns surrounding the vulnerability of various segments of our society to terrorist attacks. Now more than ever, we as psychologists are presented with the opportunity to demonstrate, through the application of our research experience, how human performance can be improved to enhance homeland security. With experience in personnel selection and training, optimizing work/rest schedules, improving interfaces between the human and machine, and enhancing communications and coordination within and across work groups we are poised to make a significant contribution to homeland security.

I was delighted to see many of you at the annual APA convention in Chicago. But for those of you who did not have the opportunity to attend, this was the first year for the shortened meeting time and use of cluster (thematic) programming. Doug Griffith was our representative in planning a cluster that was presented on Saturday morning. The thematic programming effort was initiated by a video and poster session on psychotechnology. The keynote address for the cluster was provided by Dave Woods and entitled "Technology: Challenges and Opportunities." If you haven't had an opportunity to attend one of Dave's presentations, he has by far, the most whiz bang and sophistication in his graphics of anyone I have seen. As usual, he made a very informative and thought provoking presentation. His presentation was followed by a panel discussion "Technological Implications for Organizational, Consumer, Military, and Engineering Psychology." Panel participants included Frank Landy,

Inside:

- Message from the President
- Chicago, Toronto, and You
Bill Howell
- 2003 MYM, Call for papers
- Preview of 03 Convention
- Why you should belong to APA
Philip G. Zimbardo
- Highlights and pictures from
Chicago
- Council Report
Hank Taylor
- Report on DoD HF TAG
Gerald P. Krueger
- Organization
- From the Editor
Susan Kirschenbaum
- Job openings

William Macey, Allen Parchem, Alan Nicewander, and Deborah Boehm-Davis. What made this thematic approach unique was the opportunity for collaboration between 6 divisions with shared interests. Congratulations to Doug and his colleagues in developing this informative session. I am also pleased to announce that the Division alignments for the cluster will remain the same for next year in Toronto (5, 13,14, 19, 21, and 23) and Doug will again serve as the Division's representative in planning the thematic effort. Should you have any recommendations for next year, please contact Doug.

I would be remiss if I didn't thank Dee Andrews for his efforts in organizing the Division 21 program for the Chicago meeting. Despite the scheduling challenges associated with the thematic programming and shortened meeting time, Dee managed to put together a very interesting and successful program.

While the annual convention in Chicago was clearly successful judging from comments I received, it was only the capstone event of a remarkable year led by Jerry Krueger. I would like to take this opportunity to thank Jerry for his dedication and consistent efforts to promote the area of applied experimental and engineering psychology. It was his planning and effort that led to one of the most successful mid-year symposiums in the history of the Division. For the first time in several years we were actually able to earn a little money as a result of the meeting. During 2002/3 we will try to build on his success and hold the 2003 mid-year symposium on March 6-7, at the same location, Fort Belvoir, VA. The emphasis in 2003 will be on "Measuring and Maintaining Performance in Complex Environments." Scott Shappell will serve as chair for both the mid-year symposium and the Annual Convention. Additional details concerning the Mid-year Symposium and Annual Convention are provided in this newsletter. I would encourage each of you who are involved in assessing performance in complex systems such as air traffic control, flying, other modes of transportation, and military systems, to develop and submit a proposal for the mid-year symposium and consider sending a proposal for next year's Annual Convention as well. We will again hold the mid-year meeting of the EXCOM on the morning of March 6 prior to the start of the symposium.

So with big shoes to fill, let me share with you some of my notes from the incoming meeting of the

executive committee. The challenges that face our division are not new, they have been around for some time and are similar to those of a number of other divisions. They include (i) increasing our membership, (ii) improving the overall financial stability of the division, and (iii) promoting increased involvement among the membership. During my tenure as secretary-treasurer I pointed out that a large percentage of our membership was over age 60. Given those demographics we must actively focus our energy on attracting and retaining new members. We need to continue to demonstrate to graduate students in applied experimental, engineering and human factors that there are benefits from joining our division. By joining the division, they have an opportunity to work and interact with colleagues who are at the forefront of applied psychology in the workplace, academia, and in research laboratories across the country. Haydee Cuevas, our student representative from the University of Central Florida has worked diligently during the past year to generate greater student interest in the division. We are hoping to capitalize on her incredible enthusiasm to expand our student participation in the Division. But she can't do it alone. I hope each of you, particularly those of you in academic settings will share with your students the benefits of involvement in our division. Point out the obvious benefits. For example, we are a small division looking for individuals to become involved. There is also an excellent opportunity to attend and present at the mid-year symposium and at the annual APA convention. Even more, for an additional fee of \$15.00 a year students receive the *Journal of Experimental Psychology: Applied*, the Division's Newsletter and can join the Division's listserv.

Finally, I would like to take this opportunity to congratulate the new members of the executive committee. Doug Griffith who is the new president-elect and Regina Colina-Willner who was elected to serve as the new member-at-large on the executive committee. Since Doug will serve as the president-elect, Doug Wiegmann from the University of Illinois was appointed to serve the remaining two years of Doug Griffith's position as a member-at-large on the executive committee. Thanks to Stephen Goldberg who finished his three years as an at-large member of the executive committee. His dedication and support were greatly appreciated. Due to other responsibilities, Henry Emurian asked to be relieved

of his responsibilities as chair of the membership committee. He will continue to serve as the web master for Div. 21. Raymond King from the FAA Civil Aerospace Medical Institute in Oklahoma City was appointed and approved as the new chair of the membership committee. He has already processed a couple of student applications. I challenge each of you to identify and encourage a colleague or student to join the division.

In reviewing the list of past-presidents, I am honored to serve as president during 2002/3 and would like to hear from you regarding your thoughts on what we need to do to continue to revitalize the Division. I am especially interested in how we can promote greater involvement among our members, including the submission of articles to the newsletter. Since we have a significant number of elder statesmen within the division, I am wondering if several of you would be interested in developing a short piece for the newsletter on "lessons learned in the field of applied psychology." Susan Kirschenbaum, Newsletter Editor, is always looking for additional information and articles for the newsletter. Many thanks to her for the dedication, effort, and excellent work in editing and preparing the three newsletters for 2001/2.

Other notes for the newsletter:

LOOKING FOR A FEW GOOD VOLUNTEERS:

Upon returning home from APA, I received a letter of resignation from Richard Kelly, the **Secretary/Treasurer** of the Division. Jim Callan (Past president and former Secretary/Treasurer) has graciously agreed to assist in these activities until we

can find a replacement. Thus, we are now in the process of searching for a volunteer who would be interested in supporting the Division by serving in this position. APA handles the banking and preparation and mailing of checks. The duties associated with Treasurer are primarily focused on the transfer of the new membership checks to APA and documentation and coordination of the expense vouchers with APA to ensure that our bills are paid in a timely manner. The secretarial responsibilities involve keeping minutes at the various meetings throughout the year, attending the Annual Business Meeting and meetings of the EXCOM, and maintaining the list of student and professional affiliates who have joined the Division during the year. Support is also provided for an annual division report that is sent to APA each year. I would be happy to discuss these responsibilities with anyone who has an active interest in supporting the Division (405 954-4846) or via e-mail at David.Schroeder@faa.gov.

ListServ Manager

Wendy Rogers, who initiated the two Division 21 list servers has served as the Division's List Manager since 1996. She will be on faculty development leave from Georgia Tech next year and will not be able to continue to serve as the list serve manager. Division 21 hosts two lists -- one for members and one for the executive council. We have 177 members on the listserv. Primary responsibilities involve coordinating the addition and deletion of names from the list. For more information, contact Wendy Rogers at wr43@prism.gatech.edu.

Chicago, Toronto, and You

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

As in years past, relatively few Division 21 members showed up at the Chicago convention despite some excellent programming and widely publicized changes in the convention format. Competing demands in Chicago made it impossible for me to check session attendance as I usually do, so I can't speak to how well the division's program fared. Wearing my BCA hat, however, I've been intimately

involved in all aspects of the format changes unveiled this year, and would like to share with you some observations on the Chicago inaugural and the prospects for next year's Toronto event.

A bit of background. The main changes on display in Chicago were: (1) shorter duration (Thursday-Sunday), (2) all substantive programming in the same physical location (Convention Center) rather than scattered among hotels, (3) more invited sessions designed to appeal to larger segments of the membership (program "tracks" organized by clusters

of divisions around themes of shared interest; “plenary sessions” appealing to the entire psychological community), (4) less attendance-draining interference between non-divisional and divisional programming (separate time blocks reserved for track, plenary, and divisional sessions), and (5) a greater emphasis on attracting “name speakers” and “hot topics.”

Why were these changes implemented? Very simply, because the steady decline in convention attendance (overall, divisional, and session) and satisfaction had reached a crisis point. I won't bore you with the masses of data I've seen supporting this conclusion, but one statistic is pretty revealing: attendance fell from nearly 12% to less than 6% of the APA membership in just the last decade! BCA was convinced that major changes had to be made, and the Board of Directors agreed. All five of the innovations listed above were based on surveys and studies carried out by BCA, the Research and Conventions Offices, and various Task Forces over the past 15 years. We decided to implement them all at once rather than piecemeal in hopes of attracting attention and convincing some chronic “stay-at-homes” to give the new version a shot. Of course we also realized that more innovations means more opportunity for glitches and more things for the change-averse to complain about. We just hoped the plusses would outweigh the minuses, and that we could use “lessons learned” to improve the product for 2003 (Toronto) and beyond.

Well, the expected glitches and bitches have surfaced, and we've already made adjustments based on what we've learned so far. But the bulk of the retrospective work is just getting underway. So let's turn now what the early returns suggest and what remains to be done.

Chicago from the rear-view mirror. What we know is that overall attendance (more than 13,600) was well in excess of projections for the first time in many years—this despite 9/11, the economy, and other factors that have depressed attendance at most other professional meetings this year. The anecdotal feedback BCA and the Convention Office have gotten so far has tilted positive, but we've had our share of constructive (and not so constructive) criticism as well. We'll know a lot more once the formal evaluation is complete. “What evaluation,” you ask? Well, it consists of five measures: (1)

attendance figures for all the new-format sessions (i.e. track and plenary programming), (2) exit survey for attendees at those sessions, (3) survey of convention attendees, (4) survey of division presidents, and (5) survey of the division cluster representatives who organized the thematic “track” programming. In aggregate, these data should provide a strong indication of whether BCA's model for revising the convention is on the right track, along with useful information on which features were most and least appreciated, and what steps might be taken to fine-tune each one. Planning for Toronto, which is already underway, was informed by the Chicago planning experience (e.g. divisions were re-clustered) and is proceeding much more smoothly. Undoubtedly when all the data are in—which should happen within the next month or so—other revisions will be implemented.

What features, you might wonder, have generated the most anecdotal comments so far? Here are a few I've noted. Most folks seem to like the shorter (Sunday ending) duration, and I heard a lot of positive reactions to specific “track” and “plenary” sessions, although I doubt most of these people recognized that the sessions resulted from a new programming model. The most complaints (along with a number of complements) involved physical and programmatic logistics—notably location, size, and complexity of the Convention Center, and the scheduling of particular sessions. Of course, these are the same complaints from years past that prompted consolidation of all programming “under one roof,” and temporal segregation of divisional, track, and plenary programs. If you put all the sessions that once were distributed over a bunch of hotels into one place, it has to be pretty big, right? In Chicago, that left only one option which, admittedly, wasn't in the best location or laid out as conveniently as one might like. Was navigating it more painful than the hotel-hopping of yore? We won't know until the data are in. But this I can assure you: the Toronto venue is much more compatible with our unique needs than Chicago was. And a lot cheaper: what cost you \$100 in Chicago will cost roughly \$66 in maple-leaf country due to the longstanding favorable exchange rate. Whatever the Chicago surveys show, I'm betting the response to the new physical arrangement will be overwhelmingly positive once Toronto is factored in.

Looking ahead. I'm rotating off BCA this December and Brian Wilcox (University of Nebraska) will get to wear the shirt with the bull's eye on the back. I am confident that he and his colleagues will weigh all the data from this first year very carefully and will make whatever refinements are called for in the "new convention" model. I think the data will show that despite all the limiting circumstances and the difficulties inherent in initiating change, Chicago was an unequivocal success. More importantly, I believe it marks a change in direction that promises sustained overall improvement in future conventions, and an opportunity for Division 21 to address the chronic difficulties its program chair faces in putting together attractive programs and getting its members to attend. It also may offer the division a recruitment opportunity. Consider this. The majority of APA members don't belong to any division, and since divisions have traditionally controlled all the programming—and geared it mainly to their

members—very few non-division members attend. One objective of the "new convention" model is to attract more attendees from this huge pool of unaffiliated members. If this objective succeeds, divisions have a golden opportunity to use their programming as a marketing tool in member recruitment. Even a small percentage increase from the unaffiliated pool would mean *thousands* of potential candidates for an introduction to engineering and applied experimental psychology.

When the data from Chicago are complete, I'll give you a final accounting—provided you've got space in the Newsletter. But in the meantime, I'll be thinking Toronto and talking it up among my Division 21 friends. I hope you'll be doing likewise. I truly believe that if we hang in there, Division 21 can make this reinvented convention a key element in its revitalization efforts.

Division 19 and 21 Mid Year Symposium
March 6-7 2003
Call for Papers

Once again, Divisions 19 and 21, in conjunction with the Potomac Chapter of the Human Factors and Ergonomics Society, will be hosting the Annual Mid-year Symposium March 6th and 7th, 2003 at the Fort Belvoir Officer's Club, in picturesque Fort Belvoir, Virginia. The theme for this year's symposium is *Measuring and Maintaining Performance in Complex Environments*. Historically, the annual mid-year symposium has provided an outstanding forum for presenters and attendees who are interested in research designed to assess human performance on the battlefield, in military and civilian aviation, air traffic control, and other complex work environments. This year there will be special emphasis placed on advances in the measurement of

operator performance and human error. We are currently in the process of soliciting for papers and encourage scientists and those interested in the field to develop a presentation or panel session for the upcoming 2003 mid-year symposium. Students are actively encouraged to participate in either the paper or poster sessions and will be automatically eligible for an award given by Division 19 for the best student presentation. Deadline for paper submissions is January 10, 2003. If you have any questions or would like to propose a presentation or panel, please contact Scott Shappell by telephone (405-954-4846) fax (405-954-4852) or via e-mail (Scott.Shappell@faa.gov).

Two Symposia with a Common Theme

Henry Emurian is organizing two symposia with a common theme: human-computer interaction. The first is entitled "The many faces of human-computer interaction researchers in information systems," and the second is "Interdisciplinary perspectives on

human-computer interaction." The former will consist of researchers in IS departments, and the latter will consist of folks from human factors, cognitive studies, industrial psychology, government, and industry. The purpose is to try to open Division

21 to a consideration of information technology -- at least more so than is present now. The first group is filled and the second group is almost full. Scott says that we should be able to get the two slots. I've also arranged a special issue of *Computers in Human Behavior* to publish the papers.

So there!

Why Should You Belong to APA?

***By Philip G. Zimbardo, Ph.D.
President of APA***

One of the first things that newly-elected APA Presidents do is get briefed by staff on the structure, function and activities of APA's organization and its members. When I first became President I knew about as much about APA as the typical member -- I subscribed to the journals, I read parts of the Monitor, gave talks at conventions, and I knew that there was a large organization "somewhere" doing things in support of Psychology. Unlike most APA presidents, I was a total outsider to APA governance, never having had anything to do with its Council of Representatives, task forces or many committees. I paid my dues, used APA when I needed to, but never worked in its trenches. I won the election based on solely on the credits I had earned as an academic-scientist.

Now that I am well into my Presidency, I can say it has been an eye opener for me to discover the range, number and extent of projects, task forces, actions and initiatives meant to further our discipline, advocate for psychological science, and apply psychological knowledge in the service of society. I also had no idea of the large staff infrastructure at APA that serves as our eyes, ears, hands and feet in making sure that psychology gets funded and represented at federal and local levels, in making sure that the very best of science, application and practice come to the attention of policy makers and implementers, and in fostering psychology's collaborations with other scientific disciplines.

I realize I may sound like a cult convert, but I want to share with my colleagues in Division 21 a few of the things that I've learned that APA does for its scientists and scientist-practitioners. I hope it will help dispel the myth that "APA does nothing for scientists or academics," or "my dues go only to support Practice." The more I have learned, the more I have been motivated to contribute time, energy and talents to further these important efforts (as I will outline at the end of this note). If you want to know the whole gamut of things the Science Directorate does, please check out its web page -- www.apa.org/science.

Here are a few highlights in just three areas -- advocacy, training, and what I will call "burning issues." These activities underscore what APA does "behind the scenes" in service to us all.

Advocacy: You probably all know that APA has a large presence on Capitol Hill through its activism for mental health parity and prescription privileges. But did you know that APA has an equally vocal presence for science matters? APA staffers monitor what is happening on the Hill and in Federal Agencies relevant to researchers (NSF and NIH -- including institutes NIMH, NICHD, NCI, NINDS, NIDA, NIAAA, NIA; and VA, NASA, DOE, DoD, and FDA to name a few -- a lot of alphabet soup, but rich in funds that we want to tap into). They work in many ways to advocate for behavioral science funding, and for report language in federal bills in support of behavioral science research -- by proposing legislative language, by testifying before congressional committees, and by visiting with congressional members and their staff. Much of this work is done in coalitions, and APA's staffers take leading roles. Just for starters, PPO-Science's Karen Studwell chairs the Friends of The NICHD (a coalition that advocates for the National Institute of Child Health and Human Development), PPO-Science's Director Geoff Mumford is the treasurer of the Coalition for National Science Funding, PPO-Science's Heather Kelly is the treasurer of the Defense Research Coalition, and PPO-Science's Pat Kobor is co-chair for the Coalition for the Advancement of Health through Behavioral and Social Sciences Research. In addition to "lobbying" efforts, APA staff continually monitor and respond to doings in the federal research and regulation arena. Whenever there are requests for comment on proposed regulations or changes to the research landscape, staff request input from relevant experts and draft a comment or letter from APA. In the last year APA has made comments on a wide variety of proposed legislative and regulative issues from education, animal research, medical records privacy, data sharing, to standards for IRB accreditation. For each of these issues, members have been asked for their input -- to make comments on written documents, to come to Washington to help put on

congressional events, such as briefings or research exhibits, or to let APA take them to talk directly to their congressional representatives on the Hill about specific legislative issues. You can find out about these by subscribing to a monthly e-newsletter that will keep you up to date – its called SPIN. Look at it via <http://www.apa.org/ppo/issues/spinhome.html> or sign up by sending an email to ppo@apa.org

APA also advocates in a different way -- there is regular APA representation at major meetings of other societies and organizations (e.g., Society for Neuroscience, American Association for the Advancement of Science, National Academies of Science, etc.), where larger science initiatives and issues are discussed. In these venues APA presents information on such issues as ethics, research regulation and IRBs, or gives comments to National Research Council committees on their scope and work plans. APA has an important place at the science table -- I attend a bi-annual conference of the presidents of over 60 scientific societies, where psychology is the only social/ behavioral science represented, and have been able to show these physicists, biologists and others of the many ways in which psychology is relevant to issues of national defense, terrorism, and more. APA staff also attend regular meetings with other science groups and with policy makers (for example the Office of Science and Technology Policy -- the white house's advisory arm) to discuss current science opportunities and issues, and consult with federal agencies on applications of behavioral research to their concerns.

Training: APA's most visible student activities occur through its graduate student association, APAGS -- but did you know that the Science Directorate sponsors the "Science Student Council" - - a group of 10 students who engage other science graduate students in convention programming, an extensive web presence, an email network, a grant program and more? The Science Directorate is also involved in some direct training activities. One activity is for more established researchers -- the Science Directorate's "Advanced Training Institutes," first held in 1999, offer week-long, hands-on courses on cutting-edge methodologies such as fMRI techniques or longitudinal modeling. Another activity is directed toward advanced graduate students and young faculty, the Academic Career Workshop. This workshop, which delves into the nitty gritty of finding, getting and keeping an

academic research position, has been offered for several years at convention and at smaller scientific meetings. APA offers many more opportunities for learning -- from teaching tips for faculty, to a week course on psychology in general for outstanding science undergraduates, to the Exploring Behavior Week outreach to high school students. I will add that each of these activities is something in which you or your students could participate. I am planning to have APA develop the standard text for H.S. psychology courses, to collaborate with APS in promoting psychology science at H.S. science fairs, and to develop new web sites for training H.S. and College teachers in being more effective in their teaching.

"Burning Issues" Activities: You may know about APA's standard governance groups -- the Board of Scientific Affairs (BSA) consists of 9 outstanding scientists (current Chair is Harry Reis, Div 8 Executive Officer), and its three standing Committees, CPTA (Committee on Psychological Tests and Assessments), CARE (Committee on Animal Research & Ethics) and COSA (Committee on Scientific Awards). But you may not know that BSA regularly supports the establishment of working groups or task forces that address timely issues. Recent ones are a working group on Internet research, a task force on testing on the Internet, and a working group on the implications of the genetic revolution for psychological research and knowledge, and an ad hoc group to address current issues in research regulation, especially IRB activities. Each of these groups, comprised of experts in the topics, has been called together to survey the issues and make recommendations about what to do next. For example, the research on the Internet group (chaired by Robert Kraut) is looking at technical, ethical, and other implications of using the internet as a tool for collecting data, as a means of assistance to researchers who are or intend to use this tool. The IRB group is planning to develop informational materials to facilitate IRB-researcher-administration interaction.

I could continue this list of things the science directorate and APA do for social psychologists and social psychology -- I have not even mentioned their regular activities that support the field such as research based awards, student grants, conference awards, and more, that demonstrate that APA respects and supports its scientific foundation. But

there is a more important point that I would like to address. This is the *perception* that APA does nothing and what you can do about it. When I mentioned this perception to Science Directorate staff (headed by Dr. Kurt Salzinger), they said it was something they constantly worry about -- and wondered how much their regular efforts -- substantial communications such as, *Psychological Science Agenda*, the bi-monthly newsletter; listserv notes; and the Science sections in the monthly *Monitor* -- get read or noticed by colleagues. Only you can answer that one -- but I want to remind you that the marvelous activities APA does in support of science are only possible when members (that is YOU!) are generous with their time, effort and attention. In each of their activities, the Science Directorate draws on member expertise, ideas and enthusiasm. So when you read a call for comments on your Division listserv, or read about a new important issue for which APA might be active, know that your input, your response and your opinion are not only important, they are the heart of what APA is all about. I want to assure you that there are eager ears waiting to hear from you -- mine, Bob Sternberg's (APA's president elect who will carry on the scientific tradition), and the staff of the Science Directorate.

Finally, let me mention a few things that I will be focusing on during my presidential tenure, in addition to helping develop a H.S. text and Psychology Science Fairs. I am working with the heads of APS to find areas in which our organizations can meaningfully collaborate for the benefit of psychological science. I am advancing an initiative to develop a compendium of all research psychologists have done that demonstrates a significant difference in improving some aspect of our lives, individually or collectively. Data are coming in from this survey (to which I would like each of you to contribute, see <http://research.apa.org/survey/compendium/>). When collated and organized by a task force of our experts, this compendium will be invaluable for creating a more positive image of psychology to Congress, the media and to the public.

I hope this quick overview has been of some value to you and encourages you to continue your APA membership, join if you are not, and promote APA to your students. One last word, the Chicago Convention (Aug 22-25) will be the best ever, in part because I am working closely with the Board of Convention Affairs to have many new, amazing features, fabulous events, special guests with fun and good times and rock and roll for all.

Highlights and Pictures from the Division 21 Annual Meeting

President Jerry Krueger called the meeting to order at 3:00pm. He reported on the outcome and success of the Midyear meeting in Arlington, VA, March, 2002. New officers elected were Doug Griffith, President-Elect and Regina Colonia Wilner Member-at-Large of the Executive Committee. Ray King has been appointed Membership Chair. Jerry urged all members to keep in mind the importance of our elections and to think about candidates for next year.

Two new Fellows elected last year were recognized: Susan Kirschenbaum and Marilyn Sue Bogner. At this meeting, Dee Andrews, US Air Force Research Lab, Mesa, AZ, also was elected a Fellow in Division 21. The President also called on members to seek and nominate members who might be eligible for Fellow status.



Sue Bogner gave her **New Fellow Address**, entitled "The what of the why of error: The systems approach."

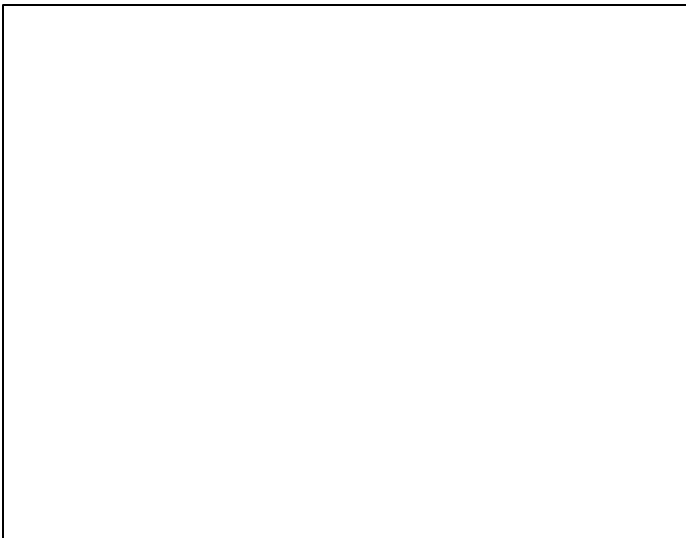
Wendy Rogers, Georgia Tech, was presented the **Franklin V. Taylor Award** for Outstanding Contribution to the Field.

Wendy has devoted considerable time and energy to enhancing awareness of the role of human factors and aging in the public. Her research has made significant contributions to our understanding of important theoretical and applications issues in the areas of cognition and aging, attention, skill acquisition, human-computer interactions, as well as human factors and aging from the perspective of science-based technology design.

She has compiled a noteworthy record of service to the Division of Applied Experimental and Engineering psychology, the Human Factors and Ergonomics Society, and to the Cognitive Aging Conference group as well. Within Division 21 she has served as President and is currently in charge of the Division's listserv. She received the George E. Briggs Dissertation award in 1992 and the Earl A. Alluisi Early Career Achievement Award in 1997. Both of these attest to the high quality of her research and her contributions to the field of applied experimental and engineering psychology. She is the author/co-author of well over 100 scientific publications. Her publications are found in *Human Factors* as well as leading journals on aging. She has edited 4 books and co-authored 19 book chapters, 40 proceedings papers, and 10 technical reports. Her promotion of the field of applied experimental and engineering psychology is also evident in her teaching and mentoring at Georgia Tech University. Due to other commitments our honoree was not able to attend APA this year. In summary, Wendy has demonstrated extraordinary service to the field of applied experimental and engineering psychology. Her dedication to promote both the science as well as public awareness of the effects of aging on using technology is particularly noteworthy.

Florian Jentsch, Central Florida University, was presented with a plaque for the **Earl Alluisi Early Career Achievement Award**.

Florian has made significant contributions to the field of applied experimental and engineering psychology following receipt of his Ph.D. in human factors from the University of Central Florida. As a commercial pilot, he extended his passion for flying from the cockpit to the research laboratory and classroom. His research has provided significant contributions to understanding and enhancing pilot training. His research interests include crew resource management, situation awareness, meta-cognition, PC-based instructional strategies, and assertiveness. The Rapidly Reconfigurable Line-Oriented Evaluation Generator (RRLOE) software program he developed provides airline instructors with a unique tool to redesign simulation scenarios "on-the-fly." This capability significantly reduces the likelihood that trainees can predict the content or sequence of events during a training scenario. The software program has gained world-wide acceptance, with some 30 airlines utilizing aspects of the approach. His research has also improved the linkage between training objectives, knowledge/skill/ability (KSA) listings, and training and evaluations as part of the FAA's Advanced Qualification Program (AQP) for air carriers. There is little question that his research has led to significantly enhanced air carrier pilot training. Our honoree has received past recognition for his presentations (1997 best conference paper at the Human Factors and Ergonomics Society meeting), for his dissertation (1998 George E. Briggs Dissertation Award winner - APA Division 21), and for his excellence in teaching. He is the author/co-author of numerous presentations and publications. He currently serves as Associate Director of the Team Performance Laboratory at the University of



Central Florida.

Michelle Yeh of MITRE Corporation, winner of the 2001 **George E. Briggs Dissertation Award**, gave an address entitled "Attention and trust biases in augmented reality: examining the effects of image realism, interactivity, and the presentation of cueing symbology"

Student participation in the business of the Division was recognized and student input to the Newsletter was especially appreciated. The Student Representative, Haydee Cuevas, Central Florida University, announced a plan to increase student representation and to survey students to better meet their needs.



David Schroeder, in taking over as incoming President, was recognized Jerry Krueger for his outstanding leadership over the past year and presented him with a certificate of thanks.

Peter Hancock, University of Central Florida, winner of the Franklin V. Taylor career achievement award

in 2001 provides his address entitled "Effects of Stress on Human Performance."

Jerry and Dave presented the plaque for the **George E. Briggs Dissertation Award** to Gary S. Olacsi for his dissertation at Virginia Polytechnic Institute entitled "Examining Virtual Masking Effects on Target Acquisition Using Two-Dimensional Fourier Analysis Techniques."

Gary completed his dissertation as part of a graduate internship from the US Army Human Engineering and Research Laboratory at the Aberdeen Proving Ground in Maryland. His interest was on the visual psychophysics underlying quantitative models of target detection and recognition. He recognized that the existing model of target recognition that served as the basis for Army research and planning could be enhanced by the application and integration of contemporary models of human spatial vision. His dissertation was founded on the application of Fourier-based models of spatial frequency to categorize the detection of two-dimensional real-world military targets. This new approach has immediate application to both target detection and the use of camouflage. Gary was nominated by Dr. Robert J. Beaton from Virginia Polytechnic University and State University in Blacksburg, VA

Jerry provided his abbreviated presidential address during the combined presidential address and business meeting. The address was entitled "Transferring Engineering Psychology From One Sector of Society to Another: Are We Better for It?" A copy of the powerpoint slides used in his presentation are available on the Division's web page under the section labeled "Annual & Midyear Meetings Archives" "Presidential Address".

Photographs provided by Scott Shappell and David Schroeder.

Representative to APA Council Report

By Henry L. Taylor
Division 21 Council Representative

The Council of Representatives met at the Capital Hilton Hotel, Washington, D.C. February 15-17, 2002. A plenary session of council was conducted

February 14,2002, prior to caucus/coalition meetings; the consent agenda was approved.

2002 Final Budget

The Council approved the 2002 final budget of \$91,769,400 with a net deficit from operations of (\$1,585,600). This represents a variance of

(1,083,200) from the preliminary budget passed August, 2001. The primary reasons for the variance are:

- A. Member dues and fees were reduced (\$400,200) based on receipts to date.
- B. Royalties/Licensing/ Rights reduced (\$2,035,000) based on 2001 actual licensing experience.
- C. Sales on the *Publication Manual* increased \$512,500.
- D. Grants & Contracts increased \$1,353,000. This is a normal variance since the publications budget considers only awarded efforts. The awards since August 2001 account for the difference.
- E. Benefits increased (\$512,200) due to health insurance cost increase.
- F. Production revenue increased \$ 282,200 since more production costs than expected were absorbed in 2001.
- G. Stipends/Tuition (Grants) increased (\$360,500) as a result of the Minority Fellowship Program funded by NIMH. Cost increase was totally offset by grant revenue.
- H. Computer Equipment/ Furniture \$218,200 as a result of a credit due APA in January 2002 from vendor.
- I. Depreciation/Bad debt \$284,200 due to a planned reduction in capital equipment purchase.

The Council also authorized APA management to do what is necessary to ensure that the deficit for 2002 is no greater than the (\$1,585,600) deficit and requested the CEO to develop a plan to achieve a balanced budget by 2004 including substantial progress toward a balanced budget in 2003.

2001 Financial Operations Summary

The current financial situation is not good. The net loss from operations was (\$2,369,100) which represents a variance of (\$1,506,900) from the deficit

projected in August 2001. This large increase in the deficit was the result of the following factors:

- A. Royalties/Licensing/ Rights reduced (\$1,813,000) due to lower than projected licensing fees for *PsycOUT*. The impact of this large variance was minimized by a hiring freeze for the fourth quarter 2001.
- B. Sales were larger, \$829,900 than expected for the *Publication Manual*.
- C. Grants and Contracts (\$291,700) due to lost revenue as a result of the delay of the Third Women's Health Conference.
- D. Convention/Conference fees were lower than projected (\$446,300) due to lower registration at the annual meeting in San Francisco.
- E. Consulting & Contracting (\$743,000) due to outside legal expenses and extra help.
- F. Special Projects and other Expenses had a \$865,000 positive variance due to the reduction in grant activities noted in C above.

Investments

APA had a net loss of approximately \$500,000 in investments during the year.

Ethics Code Revision Update

There was extensive discussion concerning the ethics code update. The current period for member comment on Draft 6 expired March 15, 2002 and Draft 7 will be published based on the comments received. A final vote is expected at the August 2002 meeting of Council.

Permanent Status of the American Society for the Advancement of Pharmacotherapy

The Council approved the request.

Recognition of Family Psychology as a Specialty in Professional Psychology

CRSPPP recommended approval and Council approved the request.

By Gerald P. Krueger

From April 29 through May 2, 2002, the Department of Defense Human Factors Engineering Technical Advisory Group (TAG), Meeting 47, was held at the Clarion Bayview Hotel, in San Diego, CA. The theme of the meeting was : C⁴ISR, Enabling the Information Dominance Transformation

On Monday afternoon the Plenary session was opened by Dr. James C. Geddie, the chairman of the TAG. The attendees represented the broad spectrum of human factors professionals within the Department of Defense. The introductory presentations covered a variety of human factors efforts in defense, aerospace and C4ISR development arenas. The number of presentations offered is too large to list, so just a sampling is offered here. A challenge for the attendees was choosing what sessions to attend and then having to break off involvement in one to move on to the next one.

On Tuesday, the Sub TAG sessions included Technical Society/Industry status reports from technical society members. The Human Factors Standardization Sub TAG dealt with Status Reports regarding Military Standards and Specification guides in development

The User-Computer Interaction had presentations on Automated Watch Turnover and the Use of Shared and Uniquely Held Information in a Distributed Collaborative Environment. The Controls and Displays Sub TAG covered the Impact of 2D and 3D Symbol Sets and Display Layout on Navy CIC Situation Assessment Tasks. This was in addition to presentations on Building Cognitively Aware Computational Systems and Multisensory Interface Concepts for Unmanned Air Vehicle (UAV) Systems.

Meanwhile, Sustained Continuous Operations were addressed with presentations on Aircrew Fatigue, Team Fatigue Research, A Comparison of Three Submarine Watchstanding Schedules and evaluations of the efficacy the use of three medications on performance in conditions of sleep deprivation and attempts to moderate its effects.

Human Factors in Training topics covered Multi-Level Security, Delivering Training using Synthetic Instructors and Synthetic Teammates in Simulated Environments, Advanced Human-Computer Interface Design Impact on Tactical Team Training

and the use of Intelligent Agents to Support Learning in Large Scale Modeling and Simulation Exercises.

A challenge faced by many participants of this meeting was staying with the schedule. So many of the presentations were very stimulating and generating so much discussion during and between sessions that ending one presentation or session and beginning the next was sometimes an effort.

The Sub TAGs for Human Modeling and Simulation and System Safety/Health Hazards/Survivability conducted their sessions and the Air Force, Army and Navy representatives held their Service Caucuses.

Wednesday saw the sessions for Human Factors in Telemedicine & Biomedical Technologies and Human Factors in Extreme Environments. The latter had presentations on Situational Understanding in Dynamic and Novel Environments, Human Factors Lessons Relearned at the National Training Center and Evaluating Teams in Extreme Environments.

The participants at this meeting represented the entire spectrum of human factors professionals, including physicians, program managers, engineers, physiologists, and psychologists from a broad range of specialties. Discussions between sessions and on breaks were often as informative and stimulating as the presentations.

Sessions on Wednesday were also held for Design: Tools and Techniques and Human Factors Engineering/Human Systems Integration: Management and Applications Sub TAGs. Here Virtual Technologies and Environments (VIRTE) and The Human Interface to C⁴ISR were subjects of animated discussion.

Tri-Service Workload Coordinating addressed Hybrid Semi/Autonomous Systems, Imaging Brain Dynamics and Operator State Estimation for Real-Time Human Engineering. Meanwhile the Human Factors Test and Evaluation Sub TAG focused on Using Boundary Manikins, Distributed Simulation to Perform Virtual Test & Evaluation of Operational Warfighting Concepts and Designs and an Iterative HCI Design Process in Coordination with the Rational Unified Approach to Software Development.

Wednesday evening was spent in a very enjoyable social gathering in San Diego's Old Town District.

The meeting was brought to an end on Thursday with a meeting of the TAG's Operating Board and an afternoon tour of the recently commissioned USS Lassen (DDG 82), an Arleigh Burke class guided missile destroyer.

Many of the presentations addressed exciting work in progress, often pushing the bounds of our knowledge

human physiology and psychology and generating some fascinating questions. Along with that were the continuing efforts to build human factors into the earliest phases of system design and avoid the ever more costly delays implied in redesigns of the complex systems in development and in concept phases.

Organizational Information

APA Call for Nominations

The APA Publications and Communications (P&C) Board has opened nominations for the editorships of three publications for the years 2005-2010:

Contemporary Psychology: APA Review of Books (Search Chair: Susan H. McDaniel, Ph.D., and Mike Pressley, Ph.D.)

Developmental Psychology: (Search chair: Joseph J. Campos, Ph.D.)

and

Psychological Review: (Search chair: Mark I. Appelbaum, Ph.D.)

Incumbent editors are Robert J. Sternberg, Ph.D., James L. Dannemiller, Ph.D., and Walter Mischel, Ph.D., respectively.

Candidates should be members of APA and available to start receiving manuscripts in early 2004 to prepare for issues published in 2005. Self-nominations are encouraged. The P&C Board encourages participation by members of underrepresented groups in the publication process and would particularly welcome such nominees.

The first interview of nominations will begin November 15, 2002. The deadline for accepting nominations is November 25th, 2002

To nominate candidates, prepare a statement of one page or less in support of each candidate. Address all nominations to the appropriate search committee chairperson at the following address:

Karen Sellman

P&C Board Search Liaison

American Psychological Association, Room 2004

750 First Street, NE

Washington, DC 20002-4242

(No email address was supplied for Karen Sellman the APA Web site is at: www.apa.org)

Nominations Alert

Late this year Doug Griffin shall be sending out an official call via the listserv for nominations for the offices of President-elect and Member-at-large. If you are not on the Division 21 listserv, this is just one of many reasons to get on the Division listserv. If you do not opt for the listserv, but would like to provide nominees, please send them to me either by conventional or electronic mail. These addresses are, respectively,

Doug Griffith

Veridian

14150 Newbrook Drive

Chantilly, VA 20151-2223

douglas.griffith@veridian.com

Fellows Nominations

The Division 21 Fellows Committee is soliciting nominations for new Fellows. Please provide some background information on your nominee so that the committee can screen for eligibility. The minimum standards for election to Fellowship under the APA Bylaws include: "Evidence of unusual and outstanding contribution or performance in the field of psychology." If your candidate meets selection requirements, you will receive further information and the forms needed for completing the application.

Nominees who have submitted completed applications will be voted on by Division 21 Fellows at the annual business meeting in August 2003 and will be forwarded to APA for final approval. Nominees who already are fellows of other APA divisions need only be submitted to the Division 21 Fellows Committee for review at the next Executive Committee meeting.

The Committee would appreciate receiving nominations as early as possible prior to November 1, 2002. Send nominations to the Robert D. Sorkin, AFOSR/NL, 4015 Wilson Blvd. Rm. 713, Arlington, VA 22203-1954 or to robert.sorkin@afosr.af.mil.

From the Editor: Help, this Means You!!!

Susan S. Kirschenbaum, Newsletter Editor

Our president has issued a call for volunteers. I want to second that and add a word to encourage new people to step up and help. If you looked at a list of Division Officers over the last decade, you would see the same names, over and over, and over again. These people have done a wonderful job and deserve applause from all of us, but we need to grow the pool of volunteers that the Division can call upon. That means you!

Sometimes volunteering is something as simple as writing a meeting report to share your experiences with the Division (see Jerry's report from the DoD TAG below). Other times, it means taking on a bigger responsibility like the job of **Secretary/Treasurer** of the Division. The only way to keep the Division running smoothly is to encourage new participation. There is no need to begin with a big job. If you don't know where your skills and interests fit in, ask., but just do it!

Announcements

Job Openings

The Cognitive Science Department of **Rensselaer Polytechnic Institute** anticipates one or more openings beginning in Fall 2003, rank open. We are seeking candidates who have a Ph.D. in Cognitive Science or one of its contributing disciplines (i.e., AI/Computer Science, Psychology, Education/Educational Technology, Philosophy/Logic, or Linguistics).

The Cognitive Science Department at Rensselaer Polytechnic Institute specializes in four areas: Machine & Human Reasoning, Computational Cognitive Modeling, Cognitive Engineering, and Perception & Action. The ideal candidate will bridge two of these areas or one of these and a supporting area (e.g., AI/Natural Language Processing, Educational Psychology/Technology, and Cognitive Neuroscience. Joint appointments with the Department of Computer Science, and/or the Department of Decision Sciences and Engineering Systems, are possible.

Rensselaer Polytechnic Institute (RPI), the oldest technological university in the U.S., is located in historic Troy NY, in the Hudson River Valley, approximately 5 miles N of Albany, NY. The Cognitive Science Department is a new department that anticipates taking its first class of doctoral students in the Fall of 2003. Department faculty have excellent ties with faculty in the human-computer interaction program, decision sciences, and computer science. Labs that bridge department boundaries encourage these ties.

Applications will be evaluated starting on December 1, 2002, and will continue until a suitable candidate is found. A vita, three letters of recommendation, a brief statement of research and teaching interests, and copies of relevant preprints/reprints should be sent to: Cognitive Search Committee, c/o Selmer Bringsjord - Chair, Rensselaer Polytechnic Institute, 110 8th Street, Troy, New York 12180-3590

If you have questions, please contact Selmer Bringsjord (selmer@rpi.edu), Chair, or Wayne D. Gray (gray@rpi.edu), Director of the Doctoral Program.

George Mason University seeks outstanding candidates in Applied Cognition -- open to a variety of research specializations, including complex problem solving, higher level cognition, visual attention, training (especially computer-based), memory, human performance, decision making, computational cognitive modeling, human computer interaction, and human factors. Position funded at the assistant level; candidates at the associate level should have a history of external funding. Candidates at both levels should have a commitment to high quality teaching and demonstrated ability to advance cognitive theory, preferably in the context of real-world problems.

George Mason University is the state university in Northern Virginia. Located 15 miles west of Washington, D.C., it is convenient to cultural and recreational activities, and funding sources. For a description, see <http://www.gmu.edu/departments/psychology>

Candidates should send a vita, copies of publications, brief statement of research and teaching interests, and three letters of reference to: Search Committee (specify position), Department of Psychology, MSN 3F5, George Mason University, Fairfax, VA 22030. Review of applications will begin on November 1, and continue until positions are filled. George Mason University is an EEO/AA employer.

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.