Message from the Chair

Brian Gore

This will be my last message as Chair of the SDTG as I am approaching the end of my tenure as your SDTG Chair. This year has seen a lot of changes within the systems development community. One large change for our group in specific is the loss of Dr. David Meister, a SDTG member and the HFES Historian. This will leave a large gap in the knowledge base for us and is a great loss. We should take this time as an opportunity for other members within the SDTG to take a lesson from Dr. Meister's legacy and become more involved to serve as a resource for the systems-related field. We undertook an initiative this past year to recognize Dr. Meister's contribution to the SDTG and have proposed an annual "Best Paper" award for the best SDTG paper under Dr, Meister's name. Dr. Janae Lockett-Reynolds and Dr. Bob Beaton will spearhead the review committee to nominate papers from those provided to the SDTG for the Annual conference. The inaugural award will be presented in 2007 in Baltimore.

Over the two years that I been Chair, we have taken up a number of initiatives in an attempt to strengthen the SDTG. These initiatives have been to increase the amount of communication to the membership, increase collaboration with large scale system developers, bridge the divide between research and commercial organizations, and to increase general awareness of systems-related issues. A large challenge for the SDTG has traditionally been in disseminating information to the membership. We decided to take more of an active stance and prepare more newsletters to keep the SDTG membership informed on the events occurring within the systems community. We have been successful in doing this averaging 3 newsletters for the past 2 years. The kudos for this increased communication goes to the Newsletter Editors (Melissa Weaver in previous years and Wenbi Wang currently) who have done a wonderful job preparing information and getting this valuable information.
out to the membership. Teresa Alley has also been actively updating our web site with relevant systems-related information, another key to information dissemination. Another initiative of the SDTG has been to increase the connection with large scale system developers - this was successful with contact being initiated with NASA, the US Army, the Navy and the Marines. A number of participants from these organizations submitted and presented papers at our Annual Meeting.

The success of the TG can often be measured in the number of members on our roster. In 2004, we had 137 members, a respectable number of members but our membership numbers had shown a general decreasing trend from its high of 237 in the year 2000 and 227 members in 2001. We have reversed this decline in membership largely through the initiatives. The SDTG currently has 194 members.

The SDTG will be left in capable hands with the current slate of officers that we have generated for guiding the group forward. We have also aligned a number of officers for future years given our successes at increasing the visibility of the SDTG. Please consider the nominees in the newsletter and cast your vote to Lori McDonnell, the Nominations and Elections Chair for the SDTG by Monday, October 16th.

As a reminder, we will be holding our Annual SDTG business meeting on Wednesday October 18th at 4:30 pm to 5:30 pm in the Hilton (location still TBD). Refreshments and light snacks will be provided. Please plan on attending and consider volunteering your time to help shape the SDTG for the future!

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**SDTG 2006 Election**

The Chair, Technical Program Chair—Elect and Secretary/Treasurer are the three offices in the System Development Technical Group that are up for election this year. The elected individual will assume their respective offices following the SDTG Business Meeting and will remain in office through the 2008 HFES Annual Meeting.

**Instructions:** Please review the candidates below and select your choice. You may also write in a candidate (write-in must be a SDTG member). Please make your selection by either:

1) Email Lori McDonnell (lmcconnell@mail.arc.nasa.gov) and indicate in the message your name and your choice.
2) Fill the ballot below and mail it to the following address:

   Lori McDonnell (SDTG Ballots)  
   Human Systems Integration Division  
   NASA Ames Research Center  
   MS 262-4, Moffett Field, CA 94035  
   USA

Please ensure that your ballot is received by Monday, October 16th. The results will be announced on Wednesday October 18th at 4:30 pm at the SDTG Business Meeting.
Nominee Bios

Chair Nominee: Jerry R. Duncan

Jerry Duncan is manager of the Collaborative Science Group at the John Deere Moline Technology Innovation Center. He leads a research program to develop and apply VR technology to Deere business processes, and provides human factors and ergonomics technical support to product and system engineering groups across the Deere enterprise. He has a PhD in Industrial Engineering, specializing in Human Factors and Ergonomics, from Kansas State University, and is a Board Certified Professional Ergonomist. He has been an active member of HFES since 1974 and a member of the SDTG from its inception.

Technical Program Chair Nominee: Janis Hebermehl

Janis Hebermehl is a Manager in the Human Systems Integration group at the Boeing Huntington Beach site. In this position, she focuses on creating processes and identifying tools for rapid concept development. The processes and tools allow development and evaluation of architecture solutions in early phases of a program and help the customers in identifying needed capabilities. Janis has experience in acquisition of new business, internal research and development, and implementation of diverse engineering practices (from concept development, requirements definition to test and integration). Her expertise is in HSI issues for Unmanned Systems. Additionally, she has published several papers regarding development of human modeling processes. Janis' educational background includes a BA Degree and a MS Degree in Engineering from Arizona State University.

Secretary/Treasurer: Larry Avery

Mr. Avery has over 20 years of professional experience in human factors engineering. This professional experience includes development and application of human factors technology to a variety of complex systems including military, nuclear power, and commercial. Mr. Avery's skills include user requirements definition, user interface specification and design, and user interface test and evaluation. He is currently working on a number of projects focused on improving ship design. These include the development of a noise control guidebook designed to sensitize and educate engineers on the implications of noise and how to mitigate them as well as the revision to ASTM F 1337 Standard Practice for Human Engineering Requirements for Ships and Marine Systems, Equipment and Facilities. He is also providing HF design support to the conceptual design of a new missile radar ship. He was one of the primary contributors to ABS Guidance Notes for the ergonomic design of navigational bridges and for the implementation of bridge resource management practices.

Mr. Avery has been on the forefront of efforts within the Department of Defense (DoD) to standardize the design of the HCI. He is the primary author of the Army Weapon System Human-Computer Interface Style Guide, which provides design guidelines for Army real time and near-real time weapon systems, as well as Version 1.0 of the Human Factors Design Guidelines for the Army Tactical Command and Control System (ATCCS) Soldier-Machine Interface. He is of co-editor of Version 2.0 and Version 3.0 of the DoD Human-Computer Interface Style Guide. He also has extensive experience in test and evaluation (T&E). He developed a human factors engineering (HFE) T&E methodology for the U.S. Department of Energy (DOE), the US Army and the US Marine Corps. He has planned and conducted usability evaluations on over 30 systems and products. He is past chair of the System Development Technical Group as well as the Test and Evaluation Technical Group.
HFES 50th Annual Meeting

We hope everyone is planning on attending the 2006 HFES Annual Meeting at the Hilton San Francisco Hotel on October 16-20, 2006. In addition to hundreds of technical presentations on state-of-the-art human factors/ergonomics research and application, the 50th Annual Meeting will feature special events to launch the Society's 50th anniversary year.

And don’t forget about the SDTG Business Meeting, (Wednesday, October 18, 4:30-5:30 p.m. in the Hilton (location TBD). Catch up with SDTG members and meet new ones. Discuss officer elections and the future goals of the technical group.

SDTD Events at the 2006 HFES Annual Meeting

SD1 - Tuesday October 17th, 1030-1200
The Challenge of Integrating Cognitive Requirements into Systems Development: Solutions & Lessons Learned. (Chair: Weaver, Jay Shively)

(1) Multidisciplinary Systems Development: Challenges and Lessons Learned
Kelly Neville, Jennifer Fowlkes, Jerry Owens, Jack Ennis
(2) Executable Requirements for Visualization Design
Christopher Hale
(3) Impacting System Design with Human Performance Modeling and Experiment: Another Success Story
Diane Mitchell, Jessie Chen
Michael Linegang, Heather Stoner, Michael Patterson, Bobbie Seppelt, Joshua Hoffman, Zachariah Crittendon, John Lee

SD2 - Thursday October 19th, 0830-1000
Organizational Factors in Design: How to Support Collaborative Relationships and Information Sharing through Network Analysis and Requirements Capture. (Chair: Rene dePontbriand, Chris Arabak)

(1) Developing Systems That Can Utilize Captured Command and Performance Data to Support Collaborative Adaptation in Dynamic Distributed Work Environments
Roger Chapman
HFES Election Results

President Elect
John F. (Jeff) Kelley, IBM Corporation, Atlanta, GA

Secretary-Treasurer-Elect
Valerie Gawron, General Dynamics, Fairfax, VA

Executive Council at-Large
Eduardo Salas, University of Central Florida

SDTG Listserve:
Hfes-sdtg@listserv.hfes.org

Instructions are on our web site:
http://sdtg.hfes.org/listserve.html

Current SDTG Officers

Chair - Brian Gore
b gore@mail.arc.nasa.gov

Technical Program Chair - Janae Lockett Reynolds
locket-reynoldsj@nswc.navy.mil

Technical Program Chair - Elect - Jay Shively
jshively@mail.arc.nasa.gov

Secretary/Treasurer - Lori McDonnell
lmcdonnell@mail.arc.nasa.gov

Newsletter Editor - Wenbi Wang
wenbi.wang@drdc-rddc.gc.ca

Webmaster—Teresa Alley
talley@dticam.dtic.mil

(2) How Network-Enabled Capability Changes the Emergent Properties of Military Command and Control
Guy Walker, Neville Stanton, Rebecca Stewart, Daniel Jenkins, Linda Wells, Paul Salmon, Mark Young, Damian Green, Richard McMaster, Chris Baber

(3) Job Design for Remote Collaboration in Drilling Operations
Kristina Lauche

(4) Promoting Human Systems Integration within the U.S. Navy: Systems Engineering, Acquisition, and Personnel Integration (SEAPRINT)
Jennifer McGovern Narkevicius, Julie Stark, John Owen

SD3 - Thursday October 19th, 1530-1700

(1) Foam, Wood, Metal: An Iterative Process for Console Usability Testing
Nancy Burton, Melissa Weaver, Jeanette Smith, Katie Hall

(2) Design Consideration Tests: Midproject Verification and Validation
David Kancler, Christopher Curtis, Scott Bachmann

(3) Adaptive Soldiers: Overcoming Obstacles Imposed by New Technology
Pamela Savage-Knepshield

(4) Participatory Design Methods for a Commander’s Predictive Environment
Robert J. Beaton, John Winters
STDG member name: 

Mark your choice with an X or write in your vote.

For the office of SDTG Chair, I would like to vote for:
Jerry Duncan   
(write-in) 

For the office of SDTG Technical Program Chair-Elect, I would like to vote for:
Janice Hebermehl  
(write-in) 

For the office of SDTG Secretary/Treasurer, I would like to vote for:
Larry Avery   
(write-in) 

- You can cast your vote through email to Lori McDonnell at lmcdonnell@mail.arc.nasa.gov
- The paper ballot should be mailed to:
  
  Lori McDonnell (SDTG Ballots)  
  Human Systems Integration Division  
  NASA Ames Research Center  
  MS 262-4, Moffett Field, CA 94035  
  USA  

**Ballots must be received by Monday, October 16th.**