



Aging Technical Group Newsletter

Summer 2015

Message from the Chair (Diana Schwerha, PhD)

Happy end of summer!

Inside this issue:

Message from the Chair

1

*Researcher Looking for
Co-Authors*

2

*Students: Submit Your
Application for a ATG
Scholarship*

2

*Relevant Sessions
at a Glance*

3

*Annual Human Factors
and Ergonomics Society
Meeting in Los Angeles
Preliminary
Program ATG &
Aging-Relevant
Sessions*

3-7

Officer Elections

7

Greetings to all ATG members. We're in August now and that means that we will be back to school soon, and the conference is right around the corner. I wanted to thank you for allowing me to serve the group these last two years. Aging topics continue to be in the news nearly daily. The most relevant topic in my realm right now is succession planning for engineers. The engineering workforce is getting mature, the workforce has been leaned out, and now it's going to be tough to find enough mid and entry-level engineers to fill the need. So... all of your work in keeping older individuals healthy and working is very important!

Since it's August it's time for elections. I encourage you to throw in your hat for one of the the available offices. It's not much work and it's fun to meet new people (or get to be better friends with your colleagues who you do know!). Please see the section in this newsletter with the available offices. Send me your name and I will include you in the elections. The deadline for nominations will be September 9, 2015. After that time, I will send out a link to a Qualtrics survey so that everyone can vote.

Also, registration is open for the 2015 HFES Annual Meeting. It will be held October 26-30 at the JW Marriott Hotel at L.A. LIVE. Online registration is now open! Early-bird rates extend through September 14. Rooms for the Annual Meeting are available at the JW Marriott Los Angeles L.A. LIVE at the special rate of \$219.00 per night (single/double). This rate will be available until October 2, 2015, or until the block sells out.

We will also be accepting submissions for the student scholarship. We have a generous donor for this, and the scholarship provides an awesome opportunity to receive some extra funds (\$500) to help offset the costs of running an experiment. Please see the details in this newsletter.

I want to thank all of the officers and our members for their work to support the Aging Technical Group. You all participate in making this world a better place. Kudos to you!

My best and enjoy those last days of summer,

Diana

Researcher Looking for Co-Authors

John Roebuck is working on a short technical article and extended publication concerning the external growth of human ears and possible changes in ear canal diameter. These articles will be based on data that he has compiled from international sources on the Internet and personal email correspondence. The documents will summarize and demonstrate, with graphs, the continued growth of ears during aging, a phenomenon especially notable in men. Such data are of interest to designers of devices that fit into and around human ears, such as ear protectors, jewelry, hearing aids, ear buds, and other communication devices. If anyone else would like to help with this effort, John would seriously consider co-authors.

John is an Anthropometry Consultant at Roebuck Research and Consulting.

If you are interested in helping with this research, please contact John Roebuck at johnroebuck@earthlink.net.

Students: Submit your Application for a ATG Scholarship

The ATG's goal is to provide scholarships (up to \$500) to students to conduct their research (1-2 scholarships per year based on resources; open to MS or PhD Level). Students must be members of the Aging Technical Group and agree to submit their research to the HFES conference within 2 years of receiving the award. Students must submit a 1-2 page description of their project and request for funds (it should also present a timeline for their research leading up to graduation). The applicants should also provide a letter of support from faculty stating:

- 1) how the funding from the Aging Technical Group is critical to the research;
- 2) what the student's academic/scholarship record is, and;
- 3) an endorsement of the student's research plan.

Completed applications should be sent to Diana Schwerha at schwerha@ohio.edu. The deadline for submission is October 5, 2015. Once I receive the submissions, I will send out an email requesting help for their review.

Relevant Sessions at a Glance

Tuesday

1:30 pm – 3:00 pm S1 – Safety Topics 1: Practices and Applications

3:30 pm – 5:00 pm POS1 – Interactive Posters & Demos Session

Wednesday

8:30 am – 10:00 am HC3 – Cognition and Decision Support

10:30 am – 12:00 pm A1 – Aging and Technologies for Health Care

12:00 pm ATG – Business Meeting

Thursday

8:30 am – 10:00 am A2 – Aging, Information Search, and Virtual Agents

1:30 pm – 3:00 pm ST5 – Affordances for Young and Old

Friday

8:30 am – 10:00 am SF5 – Interactions with Technology

10:30 am – 12:00 pm HC13 – Health Care Safety

10:30 am – 12:00 pm OE5 – Motion and Reach

Annual Human Factors and Ergonomics Society Meeting in Los Angeles Preliminary Program ATG & Aging-Relevant Sessions

Tuesday, October 27th

1:30 pm – 3:00 pm

Safety Topics 1: Practices and Applications

Session Chair: Lora Cavuoto

Session Co-Chair: David Lenorovitz

- “Store-Related Injuries to Children and Adults”. Robyn Kim, Caroline Crump, Erin Harley, Genevieve Nauhaus, Serap Yigit-Elliott.

Tuesday, October 27th (continued)

3:30 pm – 5:00 pm

POS1: Interactive Posters & Demos includes

“The Role of Age and Postural Stability for Visually Induced Motion Sickness in a Simulated Driving Task”. Behrang Keshavarz, Alison Novak, Lawrence Hettinger, Thomas Stoffregen, Jennifer Campos.

Wednesday, October 28th

8:30 am – 10:00 am

Cognition and Decision Support

Session Chair: Jane Carrington

Session Co-Chair: Yushi Yang

- *“Considerations for Using Subjective Mental Workload Measures in Populations With Cognitive Deficits”*. Siobhan Heiden, Barrett Caldwell.
- *“Mind the Gulfs: An Analysis of Medication-Related Cognitive Artifacts Used by Older Adults with Heart Failure”*. Robin Mickelson, Richard Holden.
- *“Improving Patient Comprehension of Numeric Health Information”*. Renato Azevedo, Daniel Morrow, Mark Hasegawa-Johnson, Kuangxiao Gu, Dan Soberal, Thomas Huang, William Schuh, Rocio Garcia-Retamero.

Wednesday, October 28th (continued)

10:30 am – 12:00 pm

Aging 1: Aging and Technologies for Health Care

Session Chair: Margaret Wan

Session Co-Chair: Shadeequa (Dee) Miller

- *“Analysis of Elderly Human-Robot Team Trust Models”*. Danielle Ishak, Dan Nathan-Roberts.
- *“Commanding Home Robots: A Comparison Between Older Adults With and Without Mobility Loss”*. Jenay Beer, Arthur Fisk, Wendy Rogers.
- *“Understanding Retirement Community Employees' Perceived Benefits and Concerns of Smart Presence Technology”*. Karina Liles, Rachel Stuck, Allison Kacmar, Jenay Beer.

12:00 noon – 1:30 pm

Aging TG Business Meeting (Lunch)

- Brief ATG status
 - Arnold Small Award
 - ATG scholarship for students
 - Social Time
-

Thursday, October 29th

8:30 am – 10:00 am

Aging 2: Aging, Information Search, and Virtual Agents

Session Chair: Nicole Werner

Session Co-Chair: Sylvain Bruni

- *“Investigating Perceived Usability and Choice Satisfaction of Alternative Search Engines' Presentation for Older Adults”*. Tamirat Abegaz, Edward Dillon Jr., Juan Gilbert.
- *“Age Differences in Information Search: An Exploration-Exploitation Trade-Off Model”*. Jessie Chin, Evan Anderson, Chieh-Li Chin, Wai-Tat Fu.
- *“In Search of Virtual Social Facilitation Effects”*. Natalee Baldwin, Jessica Branyon, Richard Pak.

Thursday, October 29th (continued)

1:30 pm – 3:00 pm

Affordances for Young and Old

Session Chair: Anuj Kumar Pradhan

Session Co-Chair: Clive D'Souza

- *“Navigating Intersections: Examining Age-Related Differences in Visual Scanning on a Driving Simulator”*. Yusuke Yamani, Siby Samuel, Luis Gerardino, Tracy Zafian, Donald Fisher.
 - *“User Acceptance of Voice Interfaces in the Automobile”*. Chaiwoo Lee, Bryan Reimer, Bruce Mehler, Joseph Coughlin.
 - *“Honking Helps Overcome the Driving Too Slowly Problem in Driving Simulators”*. Heejin Jeong, Paul Green.
 - *“Older Adults and Vehicle Design: Evidence-Based Approach to Examining Vehicle Ingress and Egress”*. T. Kajaks, A. Crizzle, J. Gish, R. Fleisig, B. Vrkljan.
-

Friday, October 30th

8:30 am – 10:00 am

Interactions with Technology

Session Chair: Jaclyn Baron

Session Co-Chair: Heather Lum

- *“Investigating Older Adults' Trust, Causal Attributions, and Perception of Capabilities in Robots as a Function of Robot Appearance, Task, and Reliability”*. Jessica Branyon, Richard Pak.

10:30 am – 12:00 pm

Health Care Safety

Session Chair: Shanqing Yin

Session Co-Chair: Jenna Marquard

- *“Developing a Fall Prevention System for Nursing Homes”*. Haneen Ali, Huiyang Li.

Friday, October 30th (Continued)10:30 am – 12:00 pm**Motion and Reach***Session Chair:* Pete Johnson*Session Co-Chair:* Sean Gallagher

- “*Evaluation of Older Driver Functional Range of Motion Using Virtual Reality*”.
Karen Chen, Xu Xu, Jia-Hua Lin, Robert Radwin.

ATG Officer Elections**Current Offices:**

Chair (Los Angeles): Diana Schwerha

Chair Elect (Los Angeles): Kelly Caine

Program Chair (Los Angeles): Jing Feng

Program Chair Elect (Washington, D.C.): Sharon Joines

Secretary/Treasurer (Los Angeles): Kathi Olson

Secretary/Treasurer Elect (Washington, D.C.): Kathi Olson

Newsletter Editors (Los Angeles): Natalee Baldwin & William Leidheiser

Web Master (Washington, D.C.): Anne Adams

We will have elections again in September 2015 for offices in 2016. Please consider running for an office. The open offices are listed below in bold.

Chair (Washington, D.C. & Austin, Texas): Kelly Caine

Chair Elect: no election for Chair this year; it is every other year on the even years.

Program Chair (Washington, D.C.): Sharon Joines

Program Chair Elect (Austin, Texas): ?

Secretary/Treasurer (Los Angeles & Washington, D.C.): Kathi Olson

Secretary/Treasurer Elect (Austin, Texas): ?**Newsletter Editor** (Washington, D.C.): ?**Web Master** (Austin, Texas): ?