

# Aging Technical Group Newsletter

Spring 2018



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## Message from the Chair

Dear ATG members,  
Greetings as you finish this spring semester and free up time to work on your summer projects and enjoy some time away to visit family and friends or travel for a new adventure. I hope that you've been successful in your bids to secure resources for whatever lies ahead this summer!

Let me start my term as your Aging TG chair by thanking all of you who have served us in the past years. Whether you've volunteered your time for reviews or taken on the responsibility of serving as an officer, you've made it possible for us to continue spreading the news about great research and teaching that's been accomplished to benefit our forebears and to better design the

world for our future selves. Thanks especially to Kelly Caine for her service as the TG Chair for 2016 and 2017 and for mentoring me as I took over this position.

I would also like to thank everyone who attended the ATG lunch during the 2017 annual meeting. It's always wonderful to catch up in person and to meet the new people who have joined the group, particularly the new students being oriented to the field. I'd also like to especially thank our guest speaker for the luncheon, Dr. Aaron Bangor, who is the lead accessible technology architect for AT&T and the chair of the Texas Governor's Committee on People with Disabilities. Aaron shared a thought-provoking reflection he has given to inspire designers and engineers throughout AT&T to make their products more accessible not only for business reasons but also for humanitarian reasons. I hope that we can continue this conversation at the upcoming fall meeting in Philadelphia.

I'm also really pleased to congratulate the winner of the 2017 Arnold Small award for best student paper for the Aging TG, Kenneth Blocker, and his colleagues from the University of Illinois and his colleagues Kathleen Insel, Kari Koerner & Wendy Rogers for his paper entitled Understanding the medication adherence strategies of older adults with hypertension. Thanks again to Ranjana Mehta and her reviewers for their careful review and decision about this award. Please refer to the next page for reminders and upcoming deadlines.

Again, I hope that the semester finishes well for you and that you have a creative and productive summer!

Peace,  
Marita



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## Reminders and Upcoming Deadlines

- **June 25, 2018:** Registration opens for the 2018 HFES Annual Meeting
- **August 1, 2018:** Officer nominations
- **August 20, 2018:** Aging TG Student Research Scholarship deadline
- **August 31, 2018:** Elections for ATG officer
- **October 1-5, 2018:** The 2018 HFES Annual Meeting will be held at the Philadelphia Marriott in Philadelphia, Pennsylvania

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## Recap of Business Meeting at HFES Conference 2017

We had a great time at our business meeting in Austin, TX. last year! We met briefly to announce the new officers, get to know each other over lunch, announce the 2017 Arnold Small Award Winner, and discuss some ideas for our next meeting in Philadelphia, Pennsylvania. Thank you to everyone that attended the meeting! We hope to see you next year!

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## ATG Officer Elections

### Current Officers:

Chair (Philadelphia, PA): Marita O'Brien  
Program Chair Elect (Seattle, WA): Jenay Beer  
Secretary/Treasurer (Philadelphia, PA): Laura Barg-Walkow  
Program Chair (Philadelphia, PA): Anne Adams  
Newsletter Editor (Philadelphia, PA): Maurita Harris

We will have elections again this August. Please consider running for an office in the future. We will start accepting nominations on August 1, 2018 and elect new officers on August 31, 2018.

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## Human Factors Engineering Class at the MIT International Design Center Focuses on Design for Aging

Ben Sawyer, AgeLab researcher and instructor, created a class that focused on redesigning everyday things for older adults. This class aims to teach the fundamentals of Human Factors and redesign a tool or device using Human-Centered Design over four days.

You can learn more about this class here:

<https://news.mit.edu/2018/human-factors-engineering-class-tackles-design-aging-0302>

You can learn more about the redesign projects here:

<http://bendsawyer.com/iap2018/team-redesign-projects/>

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## The NHanCE Research Laboratory Receives a NSF Grant

The NHanCE (Next-Generation Human-Systems and Cognitive Engineering) Research Lab at Purdue was recently awarded an NSF grant to better understand and support the transition of control authority between (older adult) operators and autonomous systems. You can read more about this at [https://www.nsf.gov/awardsearch/showAward?AWD\\_ID=1755746&HistoricalAwards=false](https://www.nsf.gov/awardsearch/showAward?AWD_ID=1755746&HistoricalAwards=false)

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## 2017 Arnold Small Award Winner



Kenneth Blocker of the University of Illinois won for his paper with Kathleen Insel, Kari Koerner, Wendy Rogers for his paper entitled, *Understanding the medication adherence strategies of older adults with hypertension*. Kenneth Blocker was given an award plaque and a check for \$200 for the best student paper submitted to the Aging TG.

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## Publications

Pitts, B. J., & Sarter, N. (2018). What You Don't Notice Can Harm You: Age-Related Differences in Detecting Concurrent Visual, Auditory, and Tactile Cues. *Human Factors*, DOI: 0018720818759102. You can read more about this article here: <http://journals.sagepub.com/doi/pdf/10.1177/0018720818759102>

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## ATG Student Scholarship

Did you know that the ATG has a scholarship to help students pay for research-related expenses?

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).

### The requirements for consideration of the scholarship are:

- Students must be members of the ATG.
- Students must agree to submit their research to the HFES conference within two years of receiving the award.
- Students must submit a 1-2 page description of their project and request for funds.

### Submission

- Present a timeline for their research leading up to graduation.
- Provide a letter of support from faculty stating:
  - how the funding from the ATG is critical to the research,
  - what the student's academic/scholarship record is, and
  - an endorsement of the student's research plan.

### Procedure

- Send your completed application to the ATG Technical Group Chair, Marita O'Brien (maobrien@franciscan.edu) by **Monday, August 20th, 2018**.
- A selection committee comprised of ATG members will review and score the submissions.
- The ATG Scholarship award will be presented at the ATG business meeting at the HFES annual conference. Please be sure to attend the Wednesday lunch!

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## Aging Sessions at HFES Annual Meeting 2017

1. **"Managing Heart Failure on the Go: Usability Issues with mHealth Apps for Older Adults."** S. Morey, L. Barg-Walkow, W. Rogers.
2. **"User-Centered Evaluations with Older Adults: Testing the Usability of a Mobile Health System for Heart Failure Self-Management."** V. Cornet, C. Daley, P. Srinivas, R. Holden.
3. **"Understanding the Medication Adherence Strategies of Older Adults with Hypertension."** K. Blocker, K. Insel, K. Koerner, W. Rogers.
4. **"Telepresence Heuristic Evaluation for Adults Aging with Mobility Impairment."** X. Wu, Thomas, E. Drobina, T. Mitzner, J. Beer.
5. **"A Taxonomy to Aid in the Design of Complex Physical Activities for Older Adults."** L. Koon, R. Brustad, M. Babkes Stellino.
6. **"Age Differences in Tornado Warnings and Emotions."** M. O'Brien, C. Peterson.
7. **"Effect of Social Stress on Motor Function in Older Adults: an fNIRS Investigation."** J. Rhee, T. Dillard, M. Nzoiwu, R. Mehta.
8. **"Developing a Quick-Start Guide to Aid Older Adults in Interacting with Gesture-Based Video Games."** C. Harrington, K. Hare, W. Rogers.
9. **"Performance in Takeover and Characteristics of Non-Driving Related Tasks During Highly Automated Driving in Younger and Older Drivers."** H. Clark, J. Feng, A. McLaughlin, B. Williams.
10. **"Three-Dimensional Multiple Object Tracking Speed Thresholds are Associated with Measures of Simulated Driving Performance in Older Drivers."** H. Woods-Fry, S. Deut, C. Collin, S. Gagnon, J. Faubert, M. Bedard, S. Marshall.