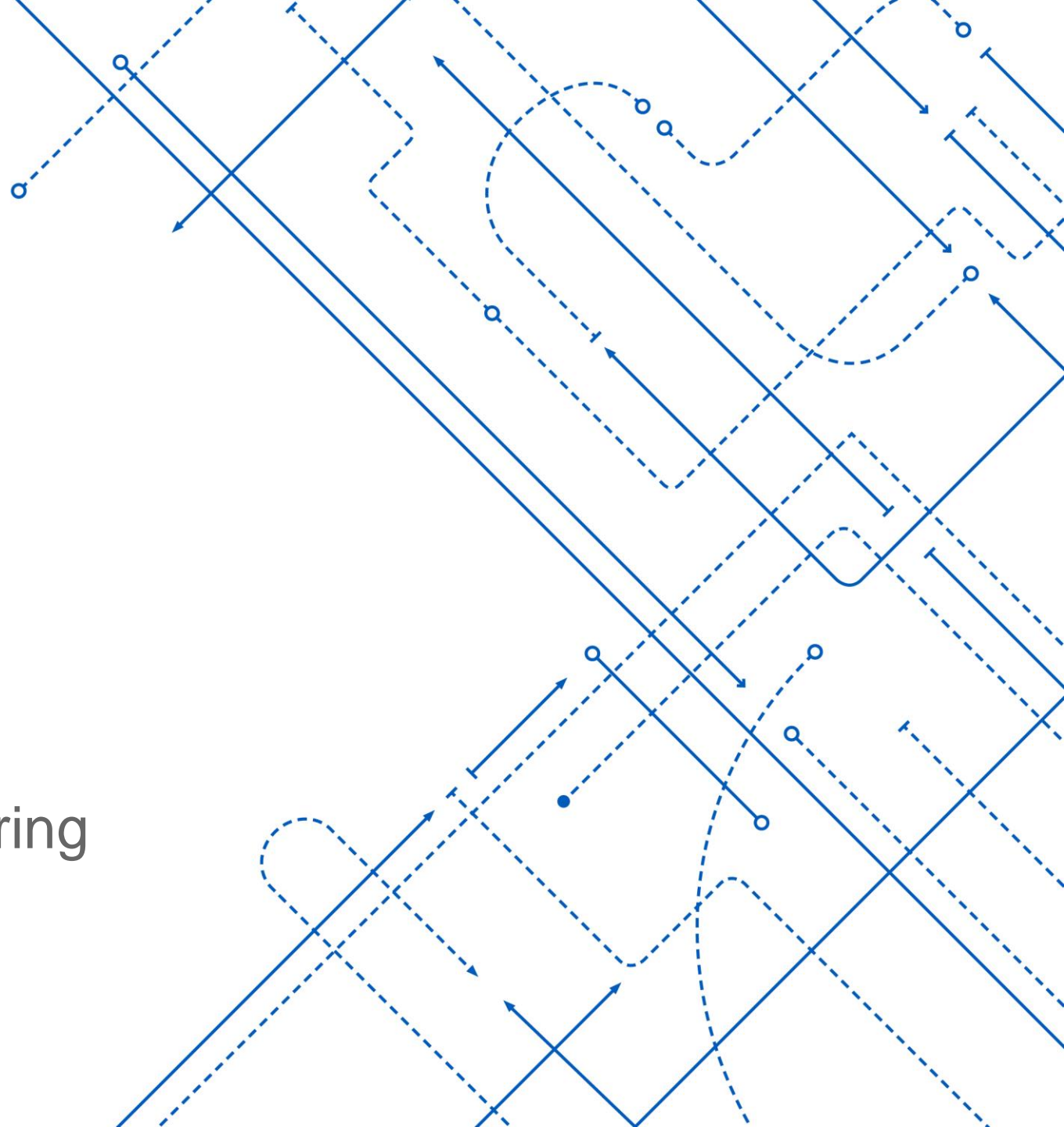


HFES@UB:

A STUDENT CHAPTER'S PERSPECTIVE

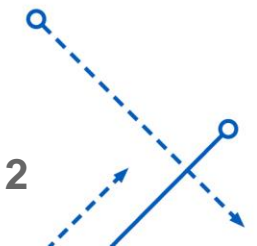
Adam Houser

Industrial and Systems Engineering



About the presenter

- Fourth-year PhD student in Human Factors engineering;
- Topics of interest include mental models and erroneous human behavior in cybersecurity, cyberdefense, and counterespionage applications;
- Cognitive Systems Engineer for Resilient Cognitive Solutions, Pittsburgh, PA;
- Member of HFES for four years:
 - Three years with CEDM TG (student paper reviewer)
 - Webmaster for HPM TG
 - Webmaster for UB HFES website (hfes.eng.buffalo.edu)
 - President, vice-president, treasurer for student chapter
 - Fundraising chair for IUW 2014 (raised \$7,000)



HFES OVERVIEW

A broad picture of the organization

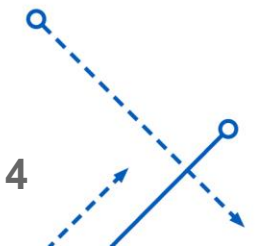
What is the Human Factors and Ergonomics Society?

Professional organization for professors, practitioners, students, and anyone else interested in how humans interact with systems:

- Simple systems, like doors
- Complex systems, like nuclear reactor control systems
- Physical systems, like manufacturing process aides
- Cognitive systems, like aircraft flight management systems

How can we adapt the environment to fit the human, rather than force the human to adapt to the environment?

HFES brings us together.



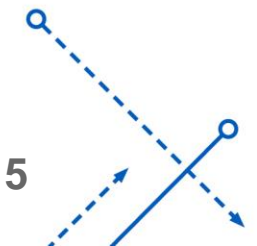
What is the Human Factors and Ergonomics Society?

HFES includes 24 different technical groups (TGs), including:

- Cognitive engineering and decision-making
- Human performance modeling
- Healthcare
- Macroergonomics
- Safety
- Surface transportation

Select one or more when you register as an HFES member

Offer membership perks, publications, leadership positions, activities at HFES Annual Meeting



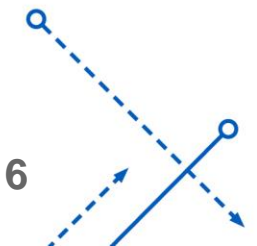
Why join HFES?

Joining HFES as a student is highly recommended:

- \$35 annual fee (compare to \$230 for non-member basic tier)
- Significant discounts on annual conferences
 - Exclusive access to conference career centers: post resumes, look for jobs
- Access to several journal archives
- Webinars, contact with professionals, networking opportunities
- CV bumps, leadership opportunities, improves student chapter member rates

Note 1: annual fees follow the calendar year, register early

Note 2: networking, networking, networking



STUDENT CHAPTERS

The benefits of having your own

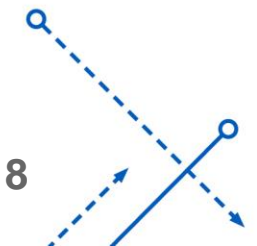
Joining your student chapter

There are benefits here as well:

- Social events, so you can meet the locals (both at home and at conferences)
- Member-driven learning opportunities that make sense for your department (see part 3)
- Group webinars and HFES national events
- Local outreach and professional development opportunities
- Leadership positions
- Networking, networking, networking

Note 1: helps your local chapter to be national member, but not required

Note 2: this comes in addition to all national membership perks

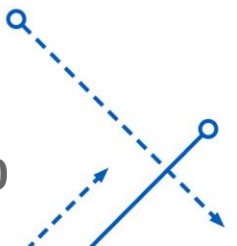


HFES@UB

Example activities and lessons learned

The Inter-University Workshop

- Collaboration between UT, UW, and UB
- One-day workshop exclusively for student work
- Practice presentation skills, hear feedback, meet others with similar interests
- Feedback at any stage of the work (published to research questions)
- 18 consecutive years



National Ergonomics Month Bad Design Contest

\$\$ UB HFES Bad Design Contest \$\$

October is National Ergonomics Month!



I see bad designs everywhere!

October 17th - 31st

Take a selfie with a bad design found on UB campuses (include location)

Explain why it is an awful design

Tweet it @ubHFES with #ubNEM

1st place: \$50 Amazon gift card
2nd place: \$25 restaurant gift card
3rd place: Two movie tickets

(Winners are selected based on how bad the design is, how well the downsides are explained, the creativity, and number of retweets and favorites.)

 Sponsored by the UB Human Factors and Ergonomics Society Chapter 

Ongoing education and seminars

UB HFES routinely offers a series of seminars for our members and department:

- LaTeX
- Microsoft Excel
- R (this spring?)
- Wireframing and prototyping: Axure or Balsamiq (TBD, potentially this fall)

We also offer sessions exclusively for members of HFES:

- B-exam study week
- Course recommendations
- Thesis and dissertation defense practice
- Research brown-bag seminars
- Guest lecturer meet-and-greets

Social events

We also have regular social events for members:

- Potlucks
- First Fridays at the Buffalo Modern Art Museum
- Baby showers!
- New student social events



QUESTIONS?

Thanks for hosting me!

adamhous@buffalo.edu

hfes.eng.buffalo.edu