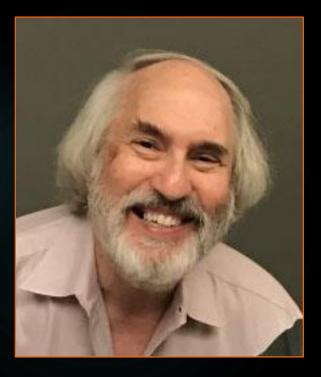
March 9, 2023 Wheelchair Fabrication in Developing Countries

ENGR110/210 Perspectives in Assistive Technology



David L. Jaffe, MS

Instructor



Questions, Comments, Suggestions, or Concerns?





Please notify me of your comments, suggestions, and concerns so I can explain / address / correct them before the end-of-term course evaluation.

Week 10 Class Sessions

Tue, Mar 14th
 End-of-Term Student Team Project Presentations
 Bring your laptop for scoring presentations

Thu, Mar 16th Student Project Demonstrations + Burritos Bring all your prototypes



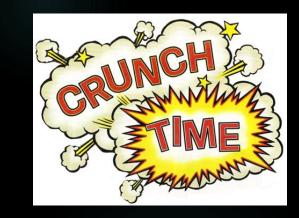


Reminder - Work with <u>Extreme</u> Diligence

- Time is your most precious resource
- ► 5 days until End-of-term Team Project Presentations
- Prepare for end-of-term presentation Tuesday, Mar 14th
- Enjoy end-of-term project demonstration Thursday, Mar 16th



Week 9



- It's project crunch time
- Brainstorm, Select, Prototype, Test, Analyze, Repeat, Report
- Contingency plan
- Discontinue submitting progress reports, ok to ask for advice







Week 9 Project Activities

- Finalize fabrication, perform user testing
- Focus on Tuesday's team presentation
- Project demonstrations bring prototypes next Thursday











Final Presentations - Tue, Mar 14th

- Cover your entire quarter's effort
- Tell a complete story, but focus on what you have achieved since the mid-term
- Emphasize how your team addressed the problem
- 7 minutes, no demos, no audience questions
- Show your prototype in your slides point to features
- Email Google Docs url to Dave by noon Tuesday
- One video of prototype in use
 - Embed a short video in your slides
- Be prepared to evaluate other teams' presentations bring your laptop
- Dress professionally





Dress Professionally

No t-shirts, sweatshirts, hoodies
No flip-flops, sandals
No shorts, jeans, holes in pants
No baseball or stocking caps



No Jacket Required

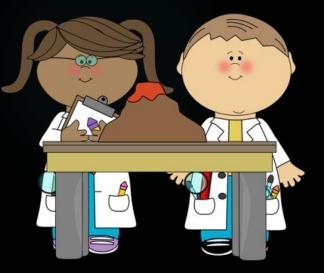


"Each item of clothing makes a statement about who you are"

"Dress for the grade you want"

Project Demonstrations - Thursday

- Bring all prototypes to class
- Meet in classroom to fill out a course evaluation form
- Project demonstrations in classroom or outside on patio
- No posters or handouts informal "trade show" presentations
- Demonstrate prototype's functionality
- Make sure Ayano & I check it out
- Check out other teams' projects
- Enjoy burritos & drinks
- Community members will attend
- Invite project suggestors, users, friends who contributed to your project's success
- Bring laptop to show additional videos and images of your process (no power outside)





Project Considerations

- Your prototype should be functional, but not necessarily ready for market
- Contingency plans if things don't work out
- Add a team or Stanford logo
- Never apologize for what you did or what you were not able to achieve
- Mention future plans
- Remember "Everything is a prototype"





Order of Presentation on Tuesday



- Playground Pals Accessible and Inclusive Playground Attractions (1)
 Tech-Support on the Go Mobile Laptop & iPad Computer Support for Abby
- 3. iPhone 4 iPhone Project with Danny
- 4. No Bad Vibez Bass Reduction Project
- 5. Team D.U.G Communication Aid for Nathan
- 6. Live Laugh Leash Leash Project for Danny and Korey
- 7. Mother Mary Aesthetic Prosthetic Leg Project
- 8. Funtastic Four Accessible and Inclusive Playground Attractions (2)
- 9. Su-paw-star Solutions Water Bowl for Danny's Service Dog Korey

Students working on Individual Projects

- Project presentations:
 - Schedule for Week 9
 - Outside of class
 - In-person

Food & Drink Signup for Thursday

For everyone:

Food & Drink Signup



End-of-Term Celebration Food and Drink Signup Thursday, March 12th

1-DOD-DUNAMAD

IGEOUS FOUR FOOT

OUTR

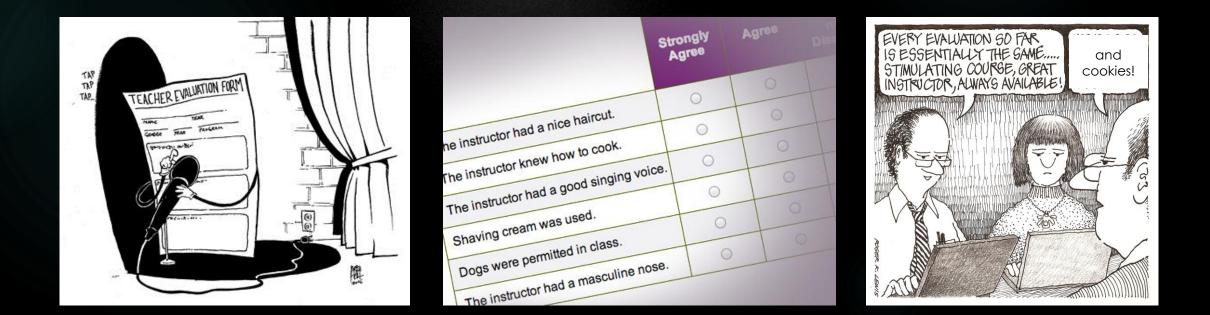
Choose one burrito and one drink item

Burrito			
Veggie	Chicken	Beef	

Drink			
Regular Coke	Diet Coke	Water	

Course Evaluations

- Survey: V Excellent: Fair: Poor.
- 1. Dave's in-class evaluation on Thursday
- 2. Cardinal Course Student Survey (Link sent out 03/07)
- 3. Registrar's evaluation online (on your own)



End-of-term Report



Cover your entire quarter's work
 Include material from mid-term report
 Consider mid-term report mark-ups
 Due Monday, March 20th





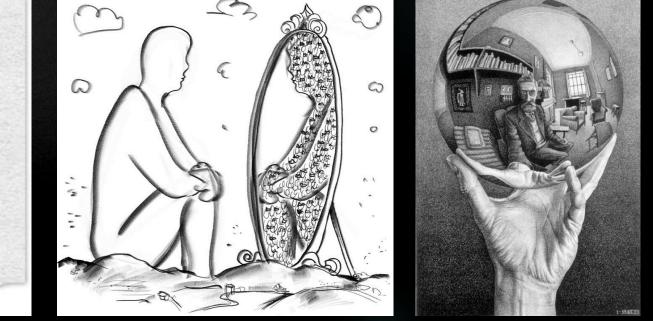


Individual Reflection

How you felt about your course, project, user, team experience
 Due Monday, March 20th

We do not learn from experience... we learn from reflecting on experience.

- John Dewey



Famous TV Characters with Disabilities

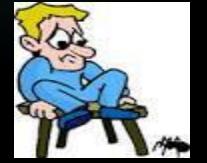


Big Bang Theory

Famous TV Characters with Disabilities - Raj







Raj - Social anxiety disorder, selective mutism, and fear of spiders (arachnophobia)

Famous TV Characters with Disabilities - Sheldon









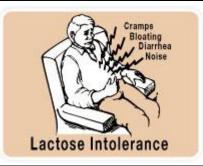
Marilu Henner

Sheldon - Eidetic memory, afraid of dogs (cynophobia) and birds (ornithophobia), mild OCD, "a bit of a germaphobe" (mysophobia), autistic behaviors, but not crazy (his mother had him tested), tardive dyskinesia symptoms

Famous TV Characters with Disabilities - Leonard







Leonard - Asthmatic and lactose intolerance

Famous TV Characters with Disabilities - Howard







Howard - Severe peanut allergy and fear of going into space (astrophobia)

Famous TV Characters with Disabilities - Penny





Penny - No last name!, shy bladder (paruresis)

Famous TV Characters with Disabilities - Barry





Barry Kripke - Speech impediment (rhotacism)

Famous TV Characters with Disabilities - Mrs Wolowit



Mrs Wolowitz – extreme obesity, neck size of 43, facial hair, gout

Famous TV Characters with Disabilities - Amy





Amy Farrah Fowler - night terrors

Famous TV Characters with Disabilities - Stuart

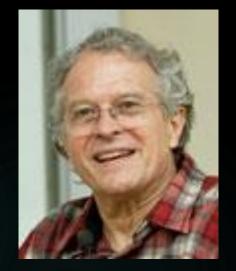




Stuart Bloom - night blindness (nyctalopia)

Today



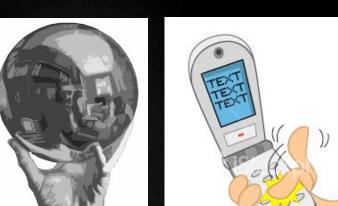


Wheelchair Fabrication in Developing Countries Ralf Hotchkiss Whirlwind Wheelchair International

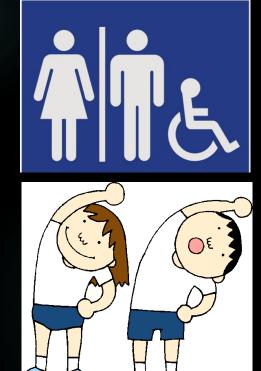
Joining Ralf will be Telma Ramos, a wheelchair builder from Nicaragua, who will show simplified, more efficient fabrication of Whirlwind Wheelchair's latest designs.

Break Activities

- Stand up and stretch
- Take a bio-break
- Text message
- Web-surf
- Respond to email
- Talk with classmates
- Reflect on what was presented in class









Short Break



SOCIAL $M \in \square \land$ BRFAK