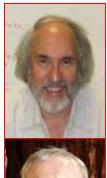
ENGR110/210 Perspectives in Assistive Technology



David L. Jaffe, MS

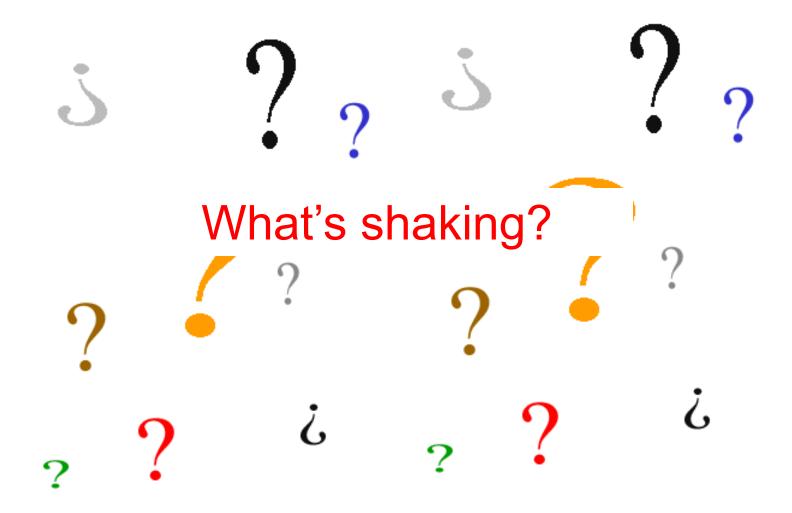


Professor Drew Nelson



John Thiemer

Questions?



If you have a car and are planning to drive to any of the three upcoming class tours, please sign the Carpool Driver's Signup Sheet

Tour Events

- 1. Thursday, February 23rd Motion & Gait Analysis Lab Menlo Park
- 2. Thursday, March 1st Willow Garage Menlo Park
- 3. Tuesday, March 6th VA Medical Center Palo Alto

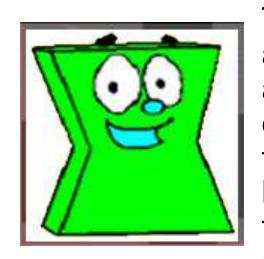
Agnes



"At first glance, it may look like a mere souped-up jumpsuit. A helmet, attached by cords to a pelvic harness, cramps my neck and spine. Yellow-paned goggles muddy my vision. Plastic bands, running from the harness to each arm, clip my wingspan. Compression knee bands discourage bending. Plastic shoes, with uneven Styrofoam pads for soles, throw off my center of gravity. Layers of surgical gloves make me all thumbs."

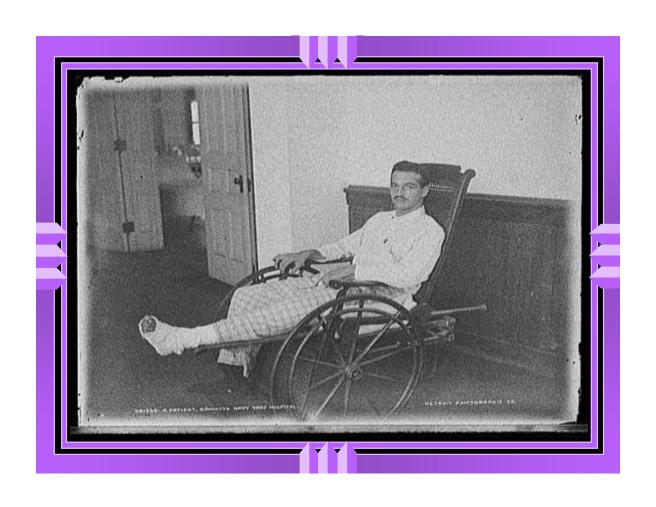
Age Gain Now Empathy System

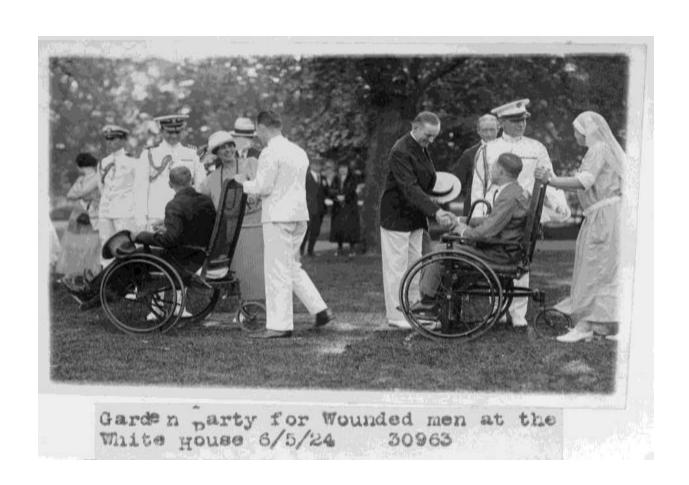
Assistive Technology Boogie



This multi-media production celebrates assistive technology through music and animation with open captioning and audio description. Assistive technology includes the wide array of devices and systems that help people with disabilities accomplish functional tasks including mobility, communication, access to information, and activities of daily living.

"AT Boogie" is the result of collaboration between Jeff Moyer; animator Haik Hoisington; and Jim Tobias, president of Inclusive Technologies, a New Jersey-based assistive technology consulting firm.



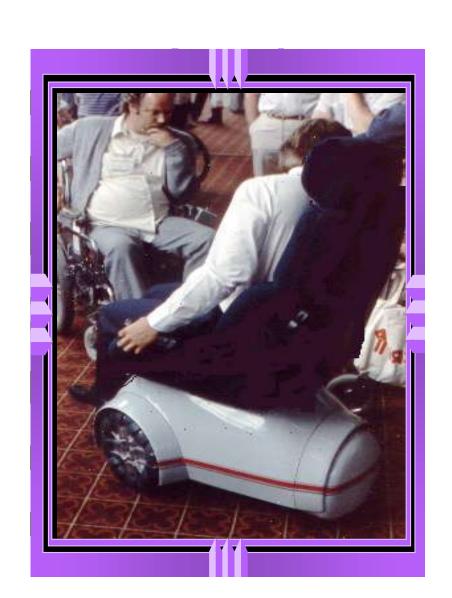




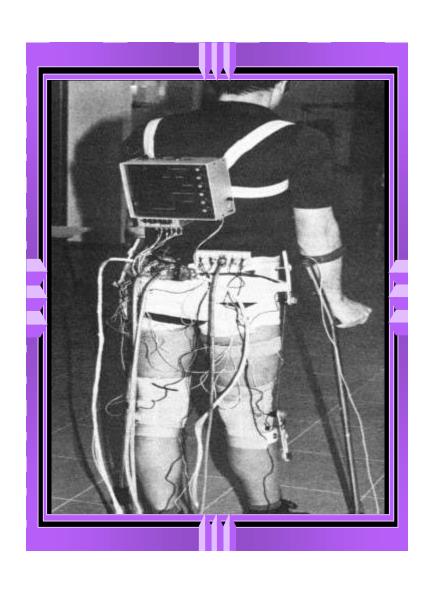




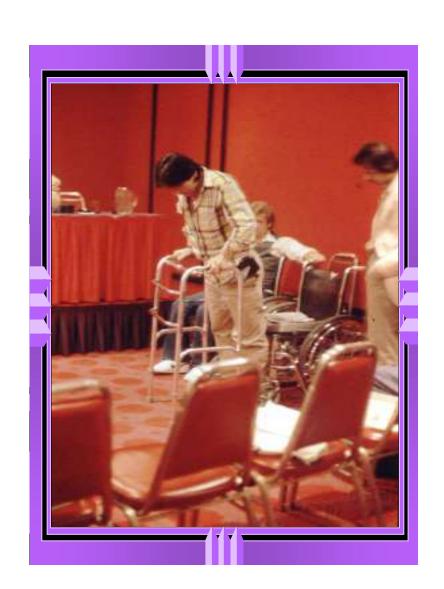




FES Walking



FES Walking



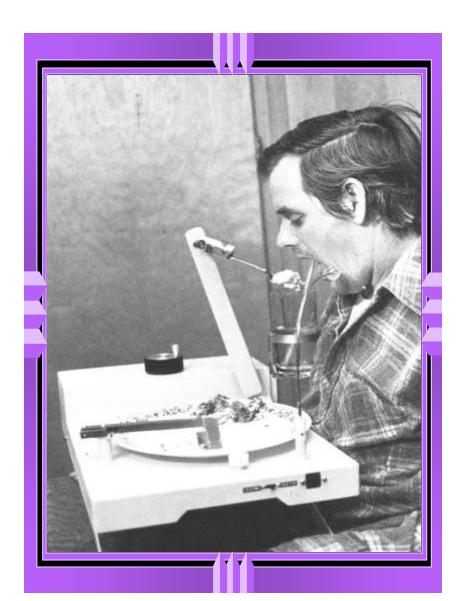
Chin Controlled Arm Exoskeleton



FES Grasp Control



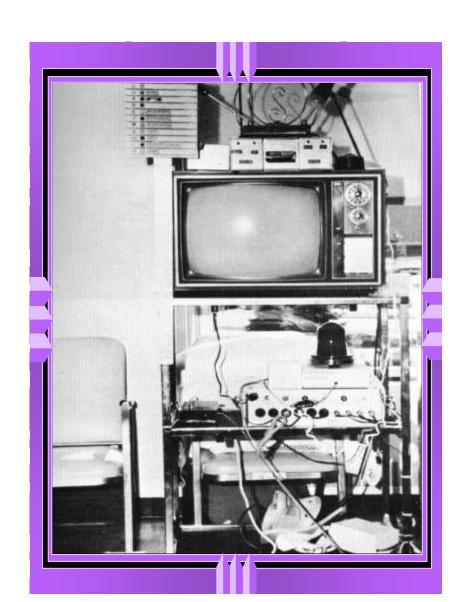
Robotic Feeding Aid



Robotic Feeding Aid



Early Environmental Control System



Environmental Control System



Voice-Recognition Environmental Control System



Eye-Gaze Control



Eye-Gaze Control





Switches







Augmented Communication System



Augmented Communication System



"Redneck Inventions"



"Redneck Inventions"



Wheelchair Videos

- 1. Steampunk Professor Xavier
- 2. Howe & Howe Rip Chair
- 3. Orange County Chopper Reeve Foundation

Steampunk Professor Xavier Wheelchair Project



<u>Video</u>

Howe and Howe Rip Chair



<u>Video</u>

Orange County Chopper

Christopher & Dana Reeve Foundation



Thursday

Midterm Student Project Presentations

Time Slots:

```
Mark Murphy - RotaBrake
1. 4:15 - 4:25
2. 4:25 - 4:35
                     Open
3. 4:35 - 4:45
                    Open
                    Nicole Torcolini
4. 4:45 - 4:55
5. 4:55 - 5:05
                     Anna Ly & Hain-Lee Hsueh
6. 5:05 - 5:15
                     Open
7. 5:15 - 5:25
                     Open
                     Open
8. 5:25 - 5:35
```

Today



Nancy Frishberg, PhD *MSB Associates*

What's up with the Telephone?

Short Break

