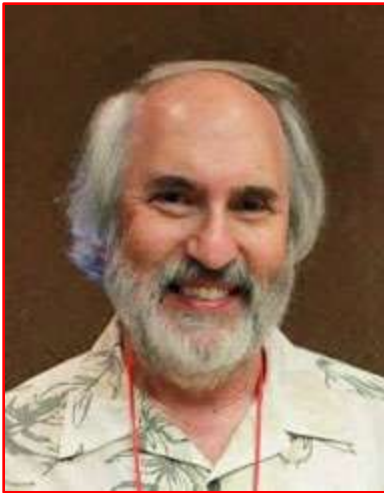


January 21, 2016

ENGR110/210

Perspectives in Assistive Technology



David L. Jaffe, MS

Instructor

Questions or Concerns?



Team Projects

- Work with diligence
- Inform me of your team's progress – meeting or email



Miscellany



- Abortion rates for Down Syndrome pregnancies:
 - About 92% of pregnancies in Europe with a diagnosis of Down syndrome are terminated. In the United States, termination rates are around 67%, but this rate varies significantly depending upon the population evaluated.
 - When non-pregnant people (men & women) are asked if they would have a termination if their fetus tested positive, 23 - 33% said yes, when high-risk pregnant women were asked, 46 - 86% said yes, and when women who screened positive are asked, 89 - 97% say yes.
 - Wikipedia - [Down syndrome](#)

Pre-lecture Discussions

1. 24 - Ethical / Moral Dilemmas Related to Disability
2. 22 - Assistive Robotics
3. 20 - In the News
4. 18 - **Vintage Assistive Technology**
5. 17 - Ten Commandments of Making
6. 12 - Assistive Technology Device Review
7. 7 - The Upside of Failure
7. 7 - Who is Disabled?
9. 6 - Suffering
10. 5 - More on the Design Development Process
11. 3 - Video Theatre

Vintage Assistive Technology



What kind of man owns his own computer?

Rather revolutionary, the whole idea of owning your own computer? Not if you're a diplomat, printer, scientist, inventor... or a kite designer, too. Today there's Apple Computer. It's designed to be a *personal* computer. To uncomplicate your life. And make you more effective.

It's a wise man who owns an Apple.

If your time means money, Apple can help you make more of it. In an age of specialists, the most successful specialists stay away from uncreative drudgery. That's where Apple comes in.

Apple is a real computer, right to the core. So just like big computers, it manages data, crunches numbers, keeps records, processes your information and prints reports. You concentrate on what you do best. And let Apple do the rest. Apple makes that easy with three programming languages—including Pascal—that let you be your own software expert.

Apple, the computer worth not waiting for.

Time waiting for access to your company's big mainframe is time wasted. What you need in your department—

on your desk—is a computer that answers only to you...

Apple Computer. It's less expensive than timesharing. More dependable than distributed processing.

Far more flexible than centralized EDP. And, at less than \$2500 (as shown), downright affordable.

Visit your local computer store.

You can join the personal computer revolution by visiting the Apple dealer in your neighborhood. We'll give you his name when you call our toll free number (800) 538-9696. In California, (800) 662-9238.

Apple Computer, 10260
Bandley Drive,
Cupertino,
CA 95014.



Ear Trumpets



Big Ears



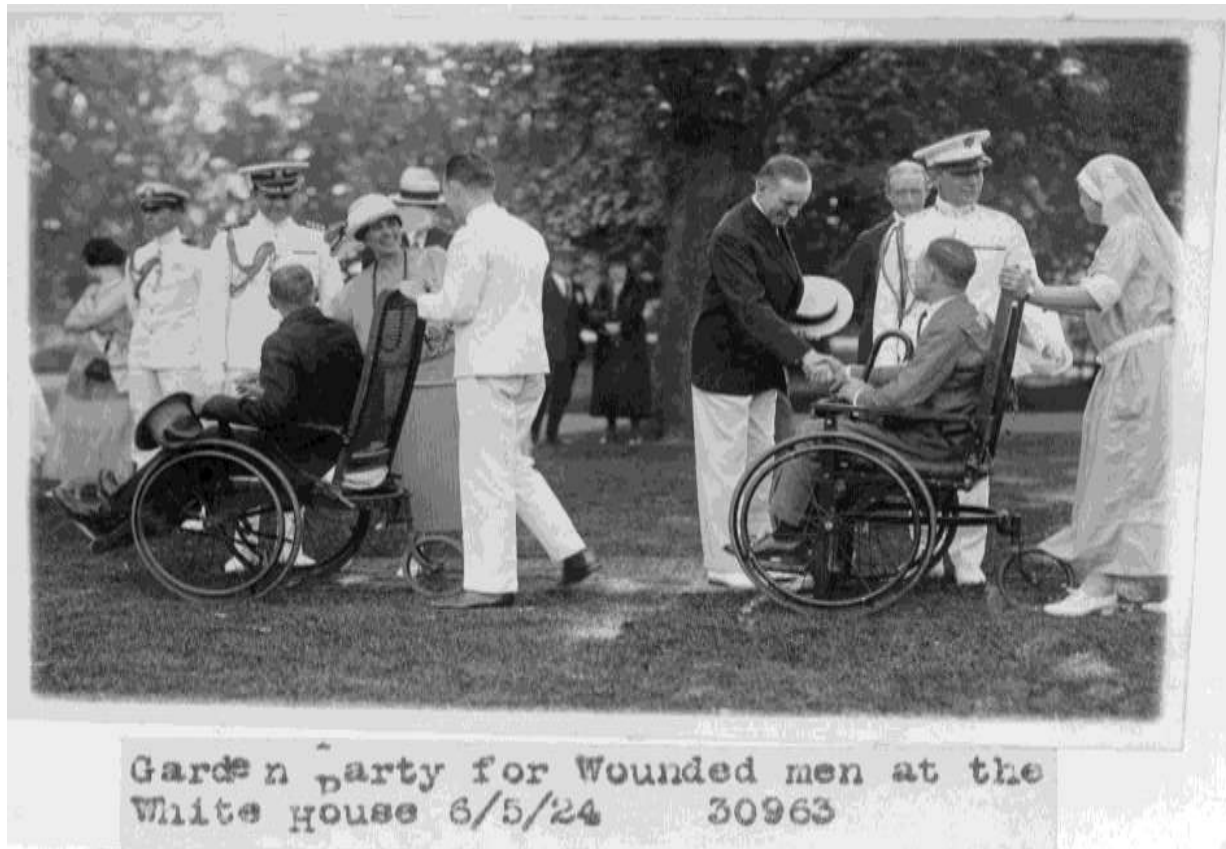
Big Ears



Old Wheelchair Designs



Old Wheelchair Designs



Old Wheelchair Designs



Old Wheelchair Designs



Old Wheelchair Designs



Old Wheelchair Designs



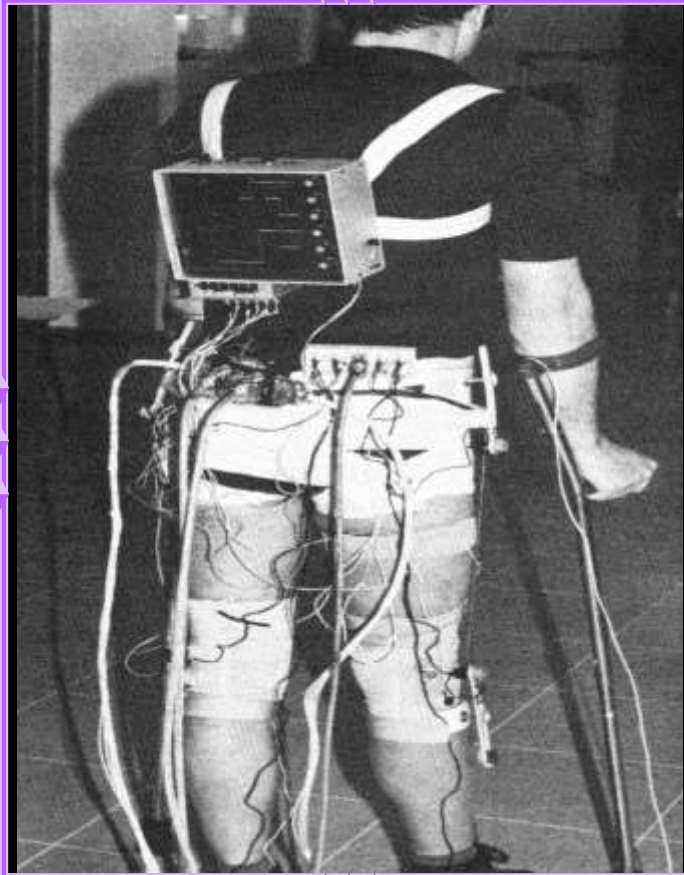
Old Wheelchair Designs



Old Wheelchair Designs



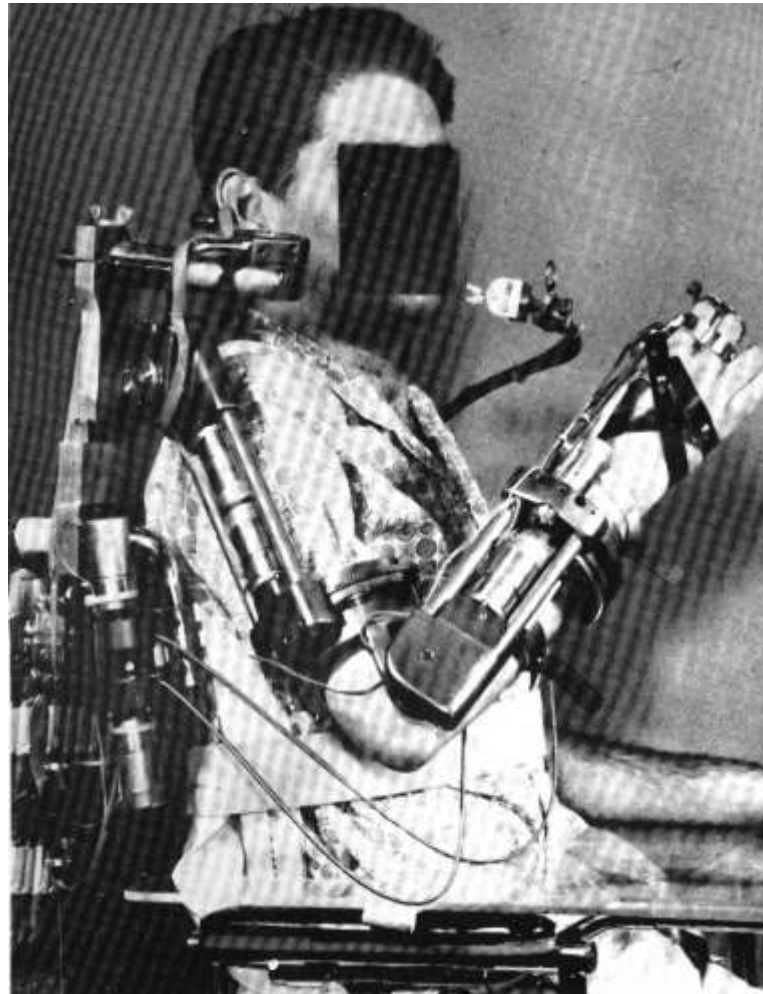
FES Walking



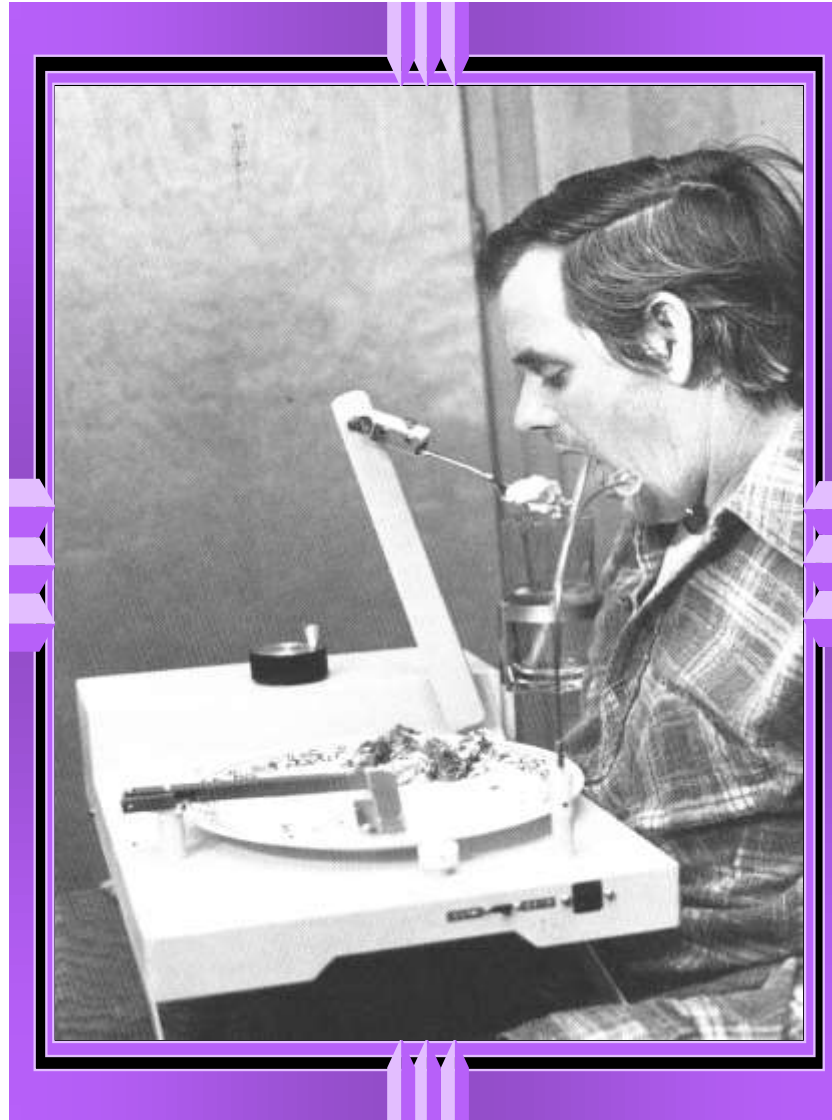
FES Walking



Chin Controlled Arm Exoskeleton



Robotic Feeding Aid



Robotic Feeding Aid



Early Environmental Control System



Stepping Relay

Voice-Recognition Environmental Control System



Eye-Gaze Control



Eye-Gaze Control



Augmented Communication System



Artificial Hand / Arm from 1560 - 1600



What is this?



Peg Leg Bates



Wooden Prosthetic Legs



Hardiman Prototype – 1950's



Student Exoskeleton Arms



Ultimate Exoskeleton



Steampunk Professor Xavier Wheelchair Project



[Video](#)

Steampunk Professor Xavier's Wheelchair
By: Daniel Valdez
<http://www.smeeon.com/>

Orange County Chopper

- Christopher & Dana Reeve Foundation
- [Video](#)



Tuesday, January 26th



**A Personal and Historical Perspective on
Creative Thinking and Design with a Focus
on Seniors**

Barbara Beskind

Today's Lecture



Issues in Human Interface Design

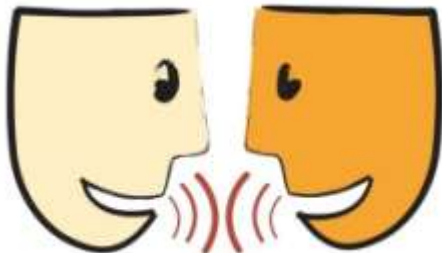
Gary M. Berke, MS, CP, FAAOP



Break Activities



- Sign attendance sheet
- Grab a cookie
- Stand up and stretch
- Take a bio-break
- Text message, web-surf, email
- Talk with classmates
- Reflect on what was presented in class



Short Break



Laptops Galore

