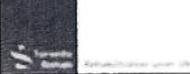


The development of technology to support positive aging

Geoff Ferris

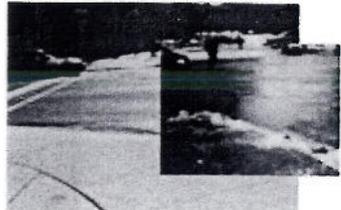
Jake Pauls ^{UM}

Deaths from fires declining by 2% per year in US

Deaths from stair falls increasing by 6% per year in US

Cost of non-fatal stair falls in US \$50b per year

Curb ramps



What does positive aging mean to me?

- Continuing to live in my own home
- Staying safe and active
- Able to care for my family

Stairlab



Existing Crossings with Curb Cuts



Anthea Tinker ^{UM}

"Biggest problem older people report at home is going up and down stairs"

Can I stay living in Canada in winter and still get out without falling?

A broken hip is usually a disaster

Barrier Free Design Concept



Can I plan ahead so a move is not necessary?

Could I make a way into the home on the level with access to a bedroom, bathroom and kitchen?

SoleSensor



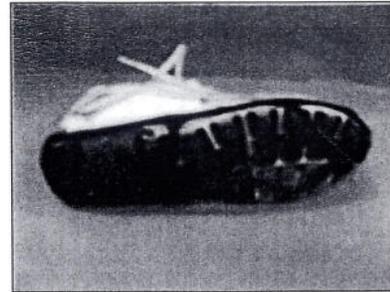
Stephan Perry

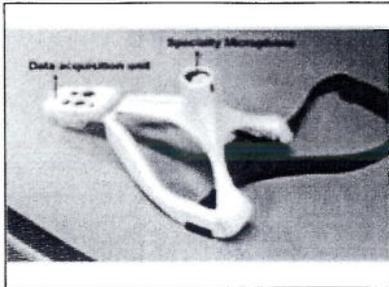
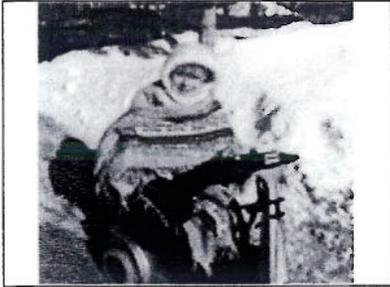
Puddles at Curb Cuts

- Puddles form regardless of property class or traffic
- 44% of all the curb ramps had large puddles
- 31% of these were near 41% of the best 25 ramps in town



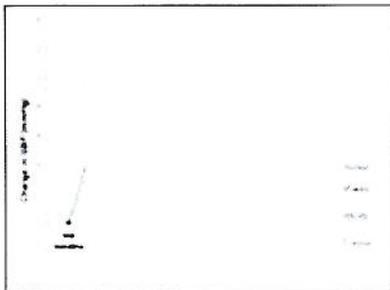

Curb Ramps in Winter



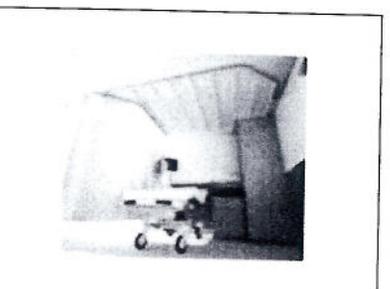
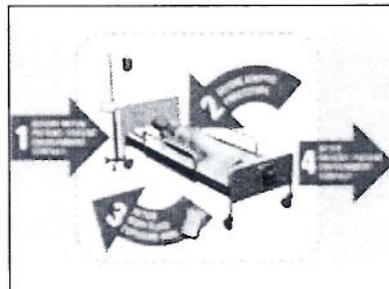
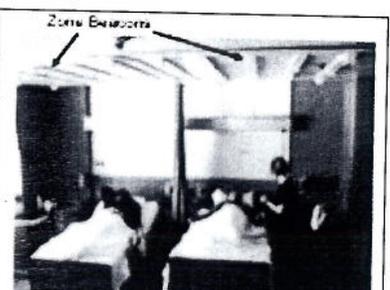
Hospital Acquired Infections

- 1 in 10 admissions
- 100,000 AEs
- 50,000 deaths due to inadequate hand hygiene



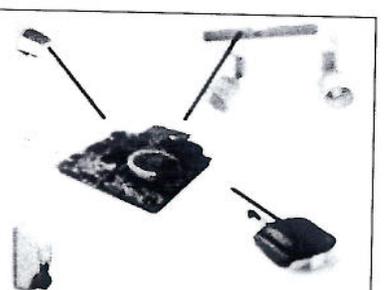
Current Practice

• "The 4 Moments"



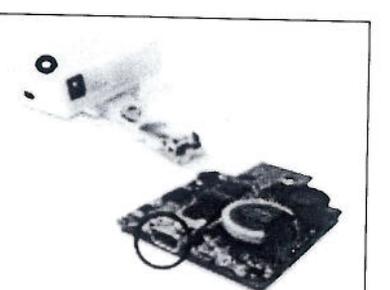
Research to prevent illness?

Sleep apnea
Hospital acquired infections



Sleep Apnea

- 6.5% adult population of whom 87% undiagnosed (1,250,000 Americans)
- 4X risk of serious ICH (annual stroke \$120,000,000 in US)
- 0.4% GDP
- requires sleep lab stay for diagnosis \$5000 - 20000

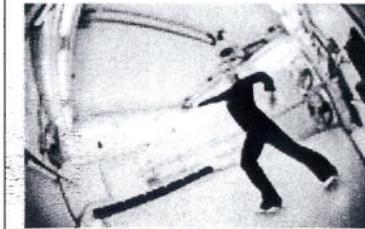
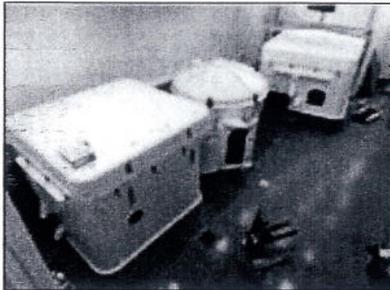
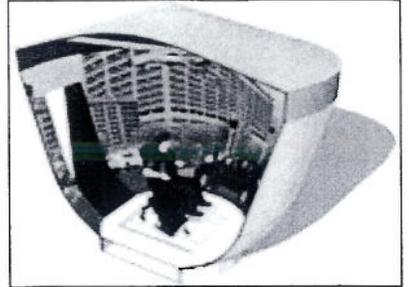


CEAL

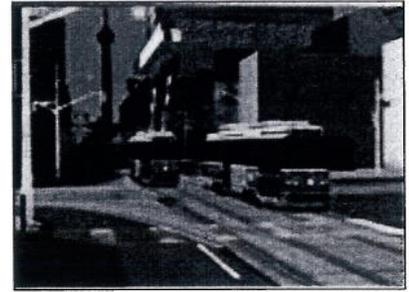
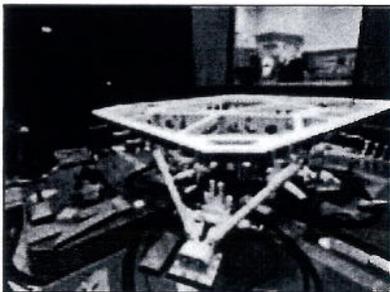


iDAPT

Winterlab



ClimateLab



Visit us & get involved

- campusjennifer@torontolab.on.ca
- www.CLALdapc.com

Stairlab

StreetLab

Visit us on Sunday 5 June
at FICCDAT

- www.FICCDAT.ca

