

Summary: ORCATECH Council Meeting

Attendees: See roundtable updates

Agenda

- 9:00 am - 9:30 am: Welcome and Updates; Jeff Kaye
- 9:30 am - 10:15 am: Introductions and Roundtable updates
- 10:15 am - 10:30 am: Break
- 10:30 am - 10:55 am: Presentation by Julia Huddleston, Carmen Steggell and Atiya Mahmood on the Oregon DHS demonstration project, On the Move in Oregon
- 11:00 am - 12:00 pm: Presentation by Gilles Virone, PhD?; Predicting Abnormal Home-Based Behaviors for the Older Generation
- 12:00 pm - 1:00 pm Networking lunch (provided)

Minutes

Welcome and Updates; Jeff Kaye

- Welcome!
- ORCATECH Cohort updates
 - Roybal renewal just submitted last week.
 - Thinking ahead: Perhaps Webinar to bring us together
 - Conferences: List will be posted on website. Please let us know about upcoming or past conferences to add to this list.
 - End of fall: ORCATECH website updates
 - Bioengineering Research Partnership update: N=228; mean age = 84; 71% female (29% male); 16.2% minority (Increase from 14.5% minority as of October); 50% live alone; 4 deceased in past 6 months (4 couples, 2 singles refused; 1 couple, 1/2 couple, 1 single due to health)
 - Next meeting TBD, Winter 2009

Roundtable updates

- Jeff Kaye, ORCATECH Director: Updates: BRP: Unobtrusive monitoring of elders using technologies. Recently received supplemental funding for minority recruitment. Currently reviewing data and look forward to hearing Dr. Virone's talk to see his approach to the data.
- Jessica Payne-Murphy, ORCATECH Research Coordinator, "The New Temporary Tracy Zitzelberger/Executive Administrator" and go-to person for funding questions, etc.
- Julie Bergstrom, Oregon Association of Area Agencies on Aging & Disabilities: Provides case mgmt for medicaid system. Government funds are only able to provide limited funding for people with disabilities and elders. Currently we're not very sophisticated with technology in our system but looking to incorporate this to increase socializing, sharing interests, and to improve effective advocacy to educate the public on individuals with special needs.
- Linda Boise, ORCATECH, Layton Aging & Alzheimer's Disease Center: Director of Education Core: Conducting focus groups with older adults to look at basic interest and receptivity of unobtrusive technologies. Has worked with positive health coaching with Holly Jimison as well.
- Kristin Childress, University of Washington; NP working on doctorate. Interested in aging population and currently working on website for folks with AD.
- Diane Cook, Washington University, Pullman: Interested in developing machine algorithms from motion sensors and wearable devices. Looking at activity recognition, patterns and at direct and indirect

cues from clinician to patient. Funded by Bosch and tobacco money. Also looking at correlating behavioral data with activity and physical expenditures; sleep and depression, diabetes, children with obesity.

- Graham Crawford, University of Oregon, School of Management. With his colleagues Adam Gottlieb and John LaManna?, they are interested in learning more about working with individuals with cognitive disabilities and brain disorders and teaching them to communicate via email and to create assessment tools on internet. They are very interested in sharing ideas and receiving input at today's meeting.
- Adam Gottlieb, University of Oregon, School of Law
- John LaManna?, University of Oregon, School of Law
- Brian DeVore?, Intel Digital Health Group: Works alongside Eric Dishman and Farzin Guilak, but primarily works on the policy side. Specifically works to engage federal and state funding sources in projects of this type. Currently working with early version of ORCATECH in California and other groups are starting to look at ORCATECH as a model. Jeff asks: What will election bring to funding? Brian: Think new president-elect has interesting ideas but there is no money- don't want to be a pessimist but...state and federal funding is very grim. Richard Smith is leading effort to create 'ORCATECH-like' organization in CA. Group is comprised of assistive technology groups, academia, etc. CAST has now more a state focus but has not had a 'ton of traction' at this point.
- Layla Garrigues, OHSU School of Nursing- New graduate student interested in observing and gathering ideas today.
- Claude Goodman, Care Wheels: Providing technologies for individuals with disabilities of all ages. Since last ORCATECH meeting- state of financial foundation in health is crumbling; however, there are new opportunities arising.
- Tamara Hayes, ORCATECH, OHSU Biomedical Engineering: Living Lab- 34 subjects. Range of technologies: Viterion box to measure CO2- looking at congestive heart failure. "Pet" project: Unobtrusive bed mat with load cells. Beds in sleep lab now and looking at respiration in
- Len Hua, Pacific University School of Optometry: Works with Viji to examine "aging in place" As an optometrist, he is interested in helping by providing optical aids for reading, etc. to older adults.
- Julia Huddleston, Oregon DHS. Provides project management for recipients of federal funds for transitioning from nursing home to individual home.
- Holly Jimison, ORCATECH, OHSU Medical Informatics and Clinical Epidemiology: Media release next week (to send out) that looks at elders' barriers to technology. Interested in the effects of physical exercise, diet changes, and sleep improvement to prevent memory loss.
- Jane Jorgensen, ATG, formerly Cleverset. Performs inference/probabilities in relational datasets. Looks at monitoring data from Claude Goodman's CareWheels? clients. Blends activity data from Claude's motion sensor data with prior health data and develops personalized health assessments through trends in data. Very exciting. ATG is publicly held company with no interest in this area; therefore, now looking for partners. Contracts with NIA/NIH in 2009. Please inquire if interested.
- Nicole Larimer, ORCATECH, OHSU Biomedical Engineering. Wasn't able to join us today.
- Lydia Lundberg, Elite Care, residential care facility (Misha Pavel adds: "the most wired (community) in the U.S.") Collecting end of life data. 9 residents died in home, not hospital. Just returned from Dussberg, Germany and visited unique elder resident community. Nursing home type residences- we are collaborating with them to see if we can introduce technologies there. Netherlands elder community as well.
- Atiya Mahmood, OSU Center for Healthy Aging Research: Health and built environment is area of research. Social behavioral issues and perception of technology. Work with Carmen Steggell and Julia Huddleston.
- James McNames?, PSU Electrical and Computer Engineering: Data analysis. Focus is monitoring people with Parkinson's Disease. Using objective motor activity.
- Deborah Messecar, OHSU School of Nursing- taking place for Heather Young as Director Center of Excellence at OHSU. Interested in behavioral modifications for caregivers and how technology can reduce strain for caregivers.

- Ronald Metoyer, OSU, School of Electrical Engineering and Computer Science: Visualizing data through interactive means. New to this area. Delivering exercise programs remotely.
- Yvonne Michael- Interested in active aging or WHO's definition: "Aging that incorporates activities that elders' consider important." Just finished data collection of GPS-enabled cell phones. What aspects of elders' communities are being used? Ton of data that will be presented in winter at ADC presentation at Layton Center. What are aspects of community that are important for aging? How can we help people live in their homes longer?
- Margaret Neal, PSU School of Community Health: Was not able to join us today.
- Misha Pavel, ORCATECH, OHSU Biomedical Engineering. Focus: What behavioral markers can tell us about cognition. Using inferences, how can we take action? Looking at gait, cognitive games, physical exercises. Point of Care Laboratory- working with sensor testing. Talk to us if you're interested in the POCL. Working with Pacific Retirement Services to implement technology. Their new building is being erected (points out window across lawn). Looking at BRP data- mouse data specifically.
- Brian Roark, OHSU Center for Spoken Language & Understanding; Faculty member; research is natural language processing. Pilot projects tracking markers discriminating healthy aging markers from unhealthy. Data collection set for early next year working with Layton Center. Narrative recall and picture recognition and conversational speech- now looking at less structured responses such as autobiographical monologue.
- Zak Shafran, OHSU Center for Spoken Language & Understanding- Colleague of Brian Roark. Focus is learning from every day conversations. 2 projects: Hopkins: developing automatic speech recognition systems and Roybal project: using BRP and living: sociability via everyday speech.
- Karen Shimida, Life by Design Northwest- 9 member organization that serves to help people in their 50's reexamine career options. Set up volunteer opportunities for life career changes. Connecting research with application. Advocating for your themes for state conference next year.
- Carmen Steggell, OSU Center for Healthy Aging Research: Director of gerontology core. Research: Focus is aging in place; however, we're discovering these have different meanings to different people. Concept analysis looking at this term "aging in place" in literature- grad student dissertation. "On the Move" project discussed later.
- Sinisa Todorovic, OSU Center for Healthy Aging Research: Looking at patterns; anomalies in behavior. Looking at video data- seasonal changes in behavior, etc.
- Pokala Vedavalli, Pacific University, School of Pharmacy; Animal models for patterns.. currently looking at cholinergic drugs and vision side-effects for folks with AD. Works with Len Hua.
- Gilles Virone- Signal processing for Smart Homes in France, Belgium and U.S. Working with larger data sets and interested in looking at abnormal behaviors.
- Kathy Wild, ORCATECH, Layton Aging & Alzheimer's Disease Center: Web-based cognitive testing. When administered remotely, how does this compare with gold-standard?

On the Move in Oregon: Oregon DHS demonstration project, Julia

- People with disabilities division. 33 of these projects. 1.75 billion dollars federal to help long term (6 mos + or longer) residents of nursing facilities to transition back to home. Most Oregonians pay \$7500 per month in care facilities so by month 4, most on Medicaid. Transitioning is difficult: even with careful planning there are formidable challenges. We create these plans for people. 85 people have signed up and we have moved 30 so far. Some have very complicated medical problems that require round the clock medical care. For one couple, we paid \$3400 for house renovations to make his home accessible; we also pay for transportation to and from church once a week. Example monthly stipend after costs of health payments in nursing facilities= \$30. For one woman, we provided her with clothing, as all she had remaining were hospital gowns. For one project in particular, we are partnering with Elite Care in Enterprise, Oregon. For a foster home hoping to become an AD care center, we assisted to support this new design; as county needed this resource. This federal money can be used for construction, renovation, and/or demolition. There is an opportunity to provide technologies in process of renovating. People are self-referring to the program from speaking engagements we've had.

- Carmen Steggell: Julia asked us for the empirical stability to 'justify' in a sense the program. How best to evaluate the wide variety of projects? Need uniform measures to evaluate different projects. What are the variables? Quality of life?
- Questions: Brian DeVore? - Do you share best practices with other states? Julia: We do cross-sharing between states. Money runs out 2012 and report due.

Move to hear Gilles Virone, PhD? speak (slides available on the website)

-- Created by JessicaPayneMurphy? - 07 Nov 2008