Welcome to the Spring edition of the quarterly Research Newsletter. The purpose of the newsletter is to share with the university academic community the accomplishments of our faculty in the publication of books, chapters, journal articles, conference presentations, exhibits, invited lectures, and awards during the previous quarter. We will announce research project awards and contracts and grants from philanthropic foundations that have been funded in the previous quarter. Periodically, we will include feature articles or matters of interest to the research community as well as honors and awards received by faculty.

**Journal Articles and Book Chapters**

**M. Jahi Chappell** (School of the Environment)


Chappell, M.J., “The Localization Reader” R. De Young and T. Princen (eds.), The localization reader: Adapting to the coming downshift. MIT Press, Cambridge, MA, USA. 2013, 28:1631-1633. De Young and Princen’s Localization Reader is an edited volume of twenty-six pieces, all but to of which – the editor’s introduction and their concluding chapter – have been previously published. The editors have organized the reader into six sections and includes brief pieces of additional synthesis before each article and section.

**Cynthia Cooper** (School of Molecular Biosciences)

A. Beirl, T. Linbo, M. Cobb, and C. Cooper, 2013. “Oca2 Regulation of Chromatophore Differentiation and Number is Cell Type Specific in Zebrafish.” Pigment Cell and Melanoma Research. 27/2: 178-189. Oculocutaneous albinism 2 (Oca2) is one of the most common types of albinism in humans. Individuals affected by Oca2 are also most likely to develop melanoma in their lifetimes. This manuscript describes work done to characterize a zebrafish Oca2 model for this disorder. Future work includes better defining the function of Oca2 protein and conducting drug screens to find potential treatments for Oca2 in humans.
Recent Publications

Journal Articles and Book Chapters

**Marcelo Diversi** (Human Development)
Diversi, M., and C. Moreira. 2013. “Real World: Classrooms as Decolonizing Sites Against Neoliberal Narratives of the Other.” *Cultural Studies and Critical Methodologies*, doi: 10.1177/1532708613503771. As the neoliberal nozzle continues to tighten its grip on education that is public, accessible, critical, inclusive, and liberatory, we hold an even fiercer belief that dogma-free intellectuals can serve as one of its most effective oppositional figures. While our decolonizing critique of neoliberalism is as wide as its imperial project, we focus our attention here to how we attempt to examine, challenge, and resist neoliberal dehumanizing narratives of the other in our classrooms.

**Marcelo Diversi** (Human Development)
Lewis, P., H.M. Montgomery, C. Campbell, H. Ritenburg, and M. Diversi. 2013. “Initiating a New Story: Indigenous Inquiries.” *International Review of Qualitative Research*. 6/4: 478-486. As strangers living in another man’s house, Indigenous peoples frequently experience trouble when interacting with the protocols that individuals working within Western institutions have accepted as the normative methods and ways of knowing. There is simply a different sense of rationality at work within the dominant Euro-centric worldviews that see contestation and confrontation as normal ways of ensuring academic rigor and advancing claims of scientific expertise that many Indigenous academic (and their allies) feel discomfort with. Here we continue to present decolonizing alternatives.

**Marcelo Diversi** (Human Development)
Cunningham, M., and M. Diversi. 2013. “Aging out: Youths’ Perspectives on Foster Care and the Transition to Independence.” *Qualitative Social Work: Research and Practice*. 12/5: 587-602. Foster youth face significant barriers in a transition to independence which is markedly abrupt compared to the “emerging adulthood” that is expected of most young adults. While many of the difficulties that foster youth face in this transition are known at the larger demographic level, first-person narratives of the process of “aging out” of foster care are largely missing from academic literature. In an attempt to advance youths’ own narratives, we used critical ethnography to engage them in sharing their perspectives on the process of “aging out” of foster care.

**Brett Oppegaard** (Creative Media & Digital Culture)

Informal history education studies have shown that mobile media objects, such as apps, quickly could become critical parts of learning technologies of the future. To explore this further, a mobile app module designed for learning at a historic site was created and released to the public, and then an independent evaluator was enlisted to perform a LORI Analysis on the project, to assess the efforts as they related to informal history learning objectives. This evaluation identified potential best practices and opportunities for improvement in the design of learning systems.

**Sue Phelps** (Library)
Phelps, S. 2013. “Designing the Information Literacy Competency Standards for Nursing,” *Medical Reference Services Quarterly*, 32/1: 111-118. This requested article discusses the process by which the Information Literacy Competency Standards were written and the three documents that came out of the research to write the standards. It was written in advance of the final standards and focuses on another document that is now in revision.

**Sue Phelps and Linda Frederiksen** (Library)
Frederiksen, L., and S. Phelps. 2013. “The Challenge of Calculating Value: ROI in Academic Libraries.” *Zarzadzanie Biblioteka Library Management*. NR 1(5): 105-111. There has been a trend in library and information management to measure the return on investment of library resources. At the same time, reliable metrics for quantifying value and worth are undeveloped in this area. This article discusses and clarifies both the problems and potential of ROI studies in relation to one currently developed methodology.

**Sue Phelps** (Library)
Hyde, L., S. Phelps, and J. Planchon Wolf. 2013. “Information Literacy Competency Standards for Nursing.” *Association of College and Research Libraries*. [http://www.ala.org/acrl/standards/nursing](http://www.ala.org/acrl/standards/nursing). The Association of College and Research Libraries published their Information Literacy Competency Standards for Higher Education in January of 2000. They have since found their way into the university learning goals across the U.S. The Information Competency Standards for Nursing are a set of the original standards adapted to the values and essentials of the nursing profession. These standards were written for nurses, nursing faculty, and nursing students at all levels.

**Stephen Solovitz** (Mechanical Engineering)
Recent Publications

Conference Presentations, Exhibits, Invited Lectures, Awards

M. Jahi Chappell (School of the Environment) was a keynote panelist at the first Yale Food Systems Symposium, October 18-19, 2013. During this “Critical dialogue on the future of food and agriculture studies” with noted scholars Julie Guthman and Nathan McClintock, and moderated by James Scott, Chappell presented his views on the needs for radical humility, cross-cutting academic-community work, and the importance of “good membership” over “leadership.”

M. Jahi Chappell (School of the Environment) was an invited panelist for the session “Stakeholders & Synergies: Socio-economic dimensions of sustainable ag” at the 2013 Norman E. Borlaug International Symposium of the World Food Prize on October 18, 2013. Chappell presented on the pivotal importance gender equality plays in food security, the need for social science beyond economics in food security analyses, and the superior productivity and sustainability of smaller diversified farms over larger ones.

Cassandra Gulam (Department of Foreign Languages and Cultures) presented at the Rocky Modern Language Association’s annual conference in Vancouver, WA on October 11, 2013. Her presentation titled “Meme Me: Using Social Media Images as a Language-Learning Tool” offered orientation on memes and other images which are shared through social media. Pedagogical strategies for using such images as translation exercises in language classes are offered, including suggestions for novice through advanced levels, with special emphasis on the high intrinsic student motivation offered by such activities.

Cassandra Gulam (Department of Foreign Languages and Cultures) was invited to present at the Rocky Mountain Modern Language Association’s annual conference in Vancouver, WA on October 11th, 2013, in the special panel “Graduate Student Forum: Developing your Professional Career.” Her talk, based on four years’ experience as the front-end in-house editor for the Rocky Mountain Review, focused on the process of submission to academic journals, outlining strategies for prospective authors working towards publication.

Kristen Huggins (Education) and Klar, Hans presented a paper at the annual convention of the University Council for Educational Administration in Indianapolis, IN on November 7-10, 2013, titled “Becoming a Teacher Leader: A Study of Leadership Development in Three High Schools.”

Sarah Kooienga (Nursing) presented at the Ethnographic and Qualitative Research Conference in Las Vegas, Nevada on February 10-11, 2014 titled “Implementation of an Electronic Health Record in a small rural primary care clinic: an ethnographic analysis.

Brett Oppegaard (Creative Media and Digital Culture) was invited to present an overview of his mobile media research, “Mobile: A new medium for place-based learning,” to the directors of the WSU extension offices throughout Washington state, at the WSU Extension Directors Conference, in Vancouver WA, in November 2013.

Sue Phelps (Library) and Lorree Hyde from OHSU Library were presenters at the 2013 AACN Baccalaureate Education Conference in New Orleans, LA on November 21-23, 2013. This presentation titled, “Librarians and Nursing Faculty Working Togethers” was to introduce the Association of College and Research Libraries Information Literacy Competency Standards for nursing to nurse educators and discuss how they could be used in cooperation with their campus librarians and in program planning.

Sue Phelps (Library) Julie Planchon Wolf of UW Bothel and Lorree Hyde of OHSU presented “Sharing is Caring: Creation of Information Literacy Standards for the Nursing Community” at the 2013 ACRL Washington and Oregon Joint Conference, Taking Care: Ourselves, Our Users, Our Collections in October 24-25, 2013. The audience was academic librarians about the writing of the Information Literacy Competency Standards for Nursing and the organizational process of having the standards accepted for publication and presentation on the Association of College and Research Libraries website.

Gretchen Rollwagen-Bollens (School of the Environment and School of Biological Sciences) and Paul Thiers (Public Affairs) gave a joint presentation at the Ecological Society of America’s annual meeting in August 2013. The title of their presentation was “Teaching Socio-Environmental Synthesis to Non-Traditional College Students by Linking Natural Science and Social Science Courses” and included results of their collaboration on a socio-environmental synthesis teaching study supported by the National Science Foundation.
Recent Publications

Conference Presentations, Exhibits, Invited Lectures, Awards continued

Stephen Solovitz and Dave Kim (both Mechanical Engineering) presented a poster on the “Examination of Flow Response to Vent Shape Modification” at the 2013 AGU Fall Meeting in San Francisco, CA, in December 2013. This work, co-authored with Darcy Ogden (Scripps Institution of Oceanography), experimentally examined the evolution of volcanic vents during an eruption.

Jie Xu (Mechanical Engineering) presented his research at the ASME International Mechanical Engineering Congress, November 15-21, 2013. He and his student Ali Hashmi presented their recent studies on three topics related to microfluidics and biomedical applications.

Funded Research

Brett Oppegaard, Clark County Historical Promotion Grant - $19,600
Fort Vancouver Mobile: Buffalo Soldiers Module.
The Vancouver Mobile research and development team will next create and study interactive narrative through the stories of the Buffalo Soldiers in the civil War era, by interpreting the tale of Moses Williams, the First African-American Medal of Honor winner, who died, without fanfare, in Fort Vancouver’s Village, and was buried at the Fort Vancouver Post Cemetery. These geolocated stories will investigate the transspatial nature of mobile storytelling, providing just parts of the larger piece, requiring people to go from place to place to get the full story.

Interactive effects of nutrients and grazing on the control of cyanobacteria blooms: comparison across eutrophication gradient.
We will quantify the interactive effects of nutrient availability and zooplankton grazing in four lakes/reservoirs in Washington that span a eutrophication gradient, from eutrophic systems (Vancouver Lake and Lacamas Lake) to more oligotrophic systems (Lake Merwin, Cowlitz County; Cle Elum Lake, Kittitas County). The results of our experiments will allow us to more accurately define the balance of facts that influence cyanobacteria blooms in Washington lakes, and to better predict when or if cyanobacteria blooms may occur.