

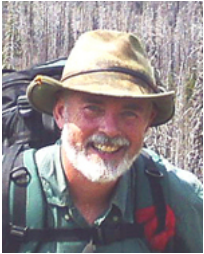


Matchmaking for Interdisciplinary Collaboration Session II

Speaker Abstracts

Wednesday, October 11, 2017

10:30-1:00

Elson S. Floyd Cultural Center

Presenter	Abstract
 <p>Howard Davis Harold Frank Institute for Engineering Entrepreneurship 509-335-6834 davish@wsu.edu https://research.wsu.edu/office-research/report/innovation-and-entrepreneurship-review</p>	<p>Present ongoing efforts across WSU to connect faculty around entrepreneurship, including how to design, develop, fund, and implement efforts to transform research into products and services that benefit the public.</p>
 <p>Leah Sheppard Management, Information Systems and Entrepreneurship 509-335-7112 leah.sheppard@wsu.edu</p>	<p>Gender stereotypes and their impact in organizational settings.</p>
 <p>Terence Saldanha Management, Information Systems and Entrepreneurship 509-335-6843 terence.saldanha@wsu.edu</p>	<p>Linking Information Systems to Innovation.</p>



Porismita Borah

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Using mobile technology in the study of risky behaviors.



David Makin

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Developing an Interdisciplinary Research Lab and research partnerships around policing. The Complex Social Interactions (CSI) Lab develops analytics with real world applications for public safety agencies.



Rebecca Craft

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Sex differences in cannabinoid treatment of arthritis.



Michael Wallace

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The Healthy Brain Pledge challenges teens to track healthy brain habits for one month. The goal is to encourage healthy living habits that protect young people from stress, depression, and mental illness.



Justin Denney

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Using pediatric medical records linked to multiple sources of data characterizing the child's neighborhood of residence to better understand the individual, family, and community contributors to the social determinants of health disparities.



Bidisha Mandal

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Using administrative and survey data to examine prevalence of chronic conditions and rural-urban disparities in accessing medical care.



Caitlin Bletscher

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Annual intercultural service learning project with INTO WSU international students and CAHNRS Global Citizenship Program cohort that addresses food insecurity. The project includes research on its impact on student intercultural competence and intercultural sensitivity.



Karen Barale

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Childhood obesity prevention efforts have rarely been successful. Incorporating parenting content into prevention efforts may be a missing link in combatting childhood obesity. This project involves modifying previously used videos and supplementing them with in-person and online activities.



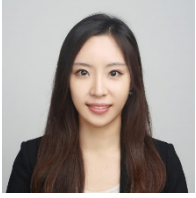
Debra Hansen

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<http://ppe.cw.wsu.edu/ripple-effects-mapping>

Ripple Effects Mapping is an emerging evaluation technique that could be used to map the expected and unexpected outcomes of programs and research. This participatory group process helps to document the results of program efforts within complex, real-life settings.



Ji Yun Lee

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The presentation will talk about a life-cycle engineering decision framework for civil infrastructure systems exposed to evolving conditions to achieve their short- and long-term resilience objectives.



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The design and upkeep of road infrastructure can be enhanced by technological tools such as crowd sourcing, data analytics, and real-time interconnectedness. Using these modern advantages to their fullest potential can enhance community mobility, including meeting the needs of the underprivileged and elderly.



Michael Sanchez

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Optimizing Green Stormwater Infrastructure (GSI) efficacy by integrating hydrologic, cultural, and socioeconomic elements in a watershed spanning the urban-agriculture continuum.



Ali Hajbabaie

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Controlling traffic congestion through cooperative management of multiple system controllers with distributed optimization and coordination techniques.



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Developing algorithmic tools and computational methods to transform the existing power distribution system into an autonomous and intelligent system. New planning and operational tools will effectively integrate new technologies to modernize the power grid and enhance service quality and grid resilience.



Michael Gaffney

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Extension faculty located in more than 40 locations across the state are intensely networked at the local, regional and statewide levels. They are also accomplished in applied research, various research methodologies, and a wide range of subject matters. With an increased University focus on applied research, experiential opportunities for students, and entrepreneurialism, Extension faculty can be powerful collaborators for campus-based faculty. The key is finding (and defining) mutual opportunity, appropriate incentives, and working appropriately in the arenas occupied by Extension faculty.



Brad Gaolach

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WSU's Metropolitan Center for Applied Research and Extension (Metro Center) staff serve as the conduit between metropolitan decision makers and WSU faculty expertise across the state. This project-based and client-centered approach gives the Metro Center flexibility to respond quickly to emerging metropolitan needs, and help build capacity to create sustainable solutions for the future.



Shenghai Dai

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Using Large-Scale Assessment Data to Make Diagnostic Inferences: Implications from TIMSS Mathematics for Learning and Instruction.



Xinmin Liu

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"Feeling" landscape through a multi-sensory approach will lead to a better understanding of the ecological values of rural environments, especially in developing economies like that of China and India. The predominantly visual mode of current technological knowhow has gravely suppressed the use of other human senses in perceiving landscape and doing agronomics, which has triggered a brutal dismantling of the interrelated and symbiotic workings of land, water, climate, and other ingredients of the bio-physical world in rural China. A case-study from East China will show how to attain more values from the rural environment by virtue of multi-sensory affect.



Andy Perleberg

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In Washington State, 215,000 families control 5.8 million acres of private forest land. These "family forests" are typically located in low elevations, buffering urban developments from industrial forests and multiple-use public lands. They also contribute significantly to rural economies, air and water quality, fish and wildlife habitat, aesthetic beauty, and both a lifestyle and a living for the owner. Yet the sustainability of family forests is of great concern due to the tremendous risks posed from numerous sources.



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All research has a human dimension. The SESRC offers services to faculty to help with this human component in their research, particularly when social science research methods are needed (e.g. survey research methods including questionnaire design and data collection). They can assist with each step of the research process, from generating ideas and proposal presentation to the very last stage of program assessment/evaluation.