

Presentation Topics and Speakers' Biographies

Lewis-Clark State College

Project Description:

Growing the Pipeline: The LCSC INBRE Program

Speaker: Jane S. Finan, Division of Natural Sciences and Mathematics

Jane Finan is a biologist who has served on the faculty of Lewis-Clark State College (LCSC) since 1990. Jane has taught a wide variety of courses, including pathophysiology and endocrine physiology, to students ranging from non-science majors, pre-nursing students, and biology majors.

Jane has served as co-principal investigator and administrator of the IDeA Network of Biomedical Research Excellence (INBRE) Program on the LCSC campus since the inception of the program in Idaho in 2004.

University of Idaho

Project Description:

This SBOE funded project is focused on late-stage prototype testing of naturally occurring probiotics isolated from the GI tract of fish that are capable of reducing mortality due to coldwater disease in rainbow trout aquaculture. We have partnered with a well-known Aquatic Animal Health Company (Aquatic Life Sciences) to complete laboratory and field testing essential for licensing and commercialization of such a product.

Speaker: Dr. Ken Cain, Associate Professor, Dept. of Fish and Wildlife Sciences:

Dr. Cain received his PhD in Fish Health/Immunology from Washington State University in 1997 and holds a B.S degree in Fisheries and an M.S degree in Aquaculture (fish nutrition) from Michigan State University. Currently, he is working as an Associate Professor in the Department of Fish and Wildlife Sciences at the University of Idaho (UI). In addition, he holds an administrative appointment as the Associate Director of the UI's Aquaculture Research Institute. He also serves on the editorial board of Aquaculture Research and is an ad hoc reviewer for a number of other journals. He has received recognition through multiple Innovation awards from the UI technology transfer office for work leading to licensed technology and patents in the area of fish disease diagnostics and vaccine development for aquaculture.

Dr. Cain has successfully developed new tools to better diagnose fish diseases and is involved with projects aimed at novel disease control in aquaculture using probiotics. Recently, his research interests have turned to the development of aquaculture methods for new species for both conservation and commercial purposes.

Idaho State University

Project Description:

Innovative Research in Radiological Source Applications and Technologies. The presentation will cover recent developments related to the Dept. of Energy grant-funded projects and collaborations ongoing at the ISU RISE Complex in Pocatello.

Speaker: Dr. Eric Anthony Burgett, Associate Professor of Nuclear Engineering

Dr. Burgett completed his degrees in Nuclear Engineering – a BS in 2005 and his MS and Ph.D. in 2008 and 2010 respectively, at Georgia Institute of Technology. He has received the Health Physics Society's H. Wade Parker award in Accelerator Applications in Health Physics. His present research includes radiation detector design, development and fabrication, neutron and gamma spectroscopy, homeland security and nuclear safeguards. As the recipient of \$2 million in DOE grants as well as collaborator in public/private agreements, he is Principal Investigator for a set of projects focusing on developing advanced radiation detectors and processes to measure fuel inside nuclear reactors.

A member of the American Nuclear Society since 2002, Dr. Burgett serves on the Radiation Protection Safety Dosimetry Executive Committee and related technical programs. He has published numerous articles in the national journals *Medical Physics*, *Nuclear Instruments and Methods*, and *Radiation Protection Dosimetry*.

Boise State University

Project Description:

Expansion and restructuring of Computer Science Department to help meet compelling state economic development, research, and workforce needs.

Speaker: Dr. Harold Blackman

Prior to his current position as Associate Vice President for Strategic Research Initiatives at Boise State, Dr. Harold Blackman acquired over thirty years of experience in education, research management, and in human factors research and development. Much of that experience focused on the study and understanding of human error. He is an internationally recognized expert in human reliability analysis and co-developed the training course in that subject for the US Nuclear Regulatory Commission. He has co-authored two books, one on human reliability and the other on display design. Although the majority of Dr. Blackman's work has been in the nuclear industry he has also contributed to the research bases for agencies of the Department of Defense, as well as NASA. In 1997 he received the distinction of being named a Fellow of the Human Factors Society. He has also received numerous corporate awards most notably the NOVA award from Lockheed Martin for his technical contributions to human factors engineering. He currently serves on the editorial board for *Reliability Engineering and*

System Safety. In addition to his technical accomplishments Dr. Blackman held a variety of management positions while at the Idaho National Laboratory including Director of the Center for Advanced Energy Studies (CAES). He has been involved in University education throughout his career beginning as a faculty member, and as adjunct faculty since then.

Speaker: Nic Cornia

Mr. Cornia was born in Boise, Idaho and attended Centennial High School, then graduated with a BS in Biophysics from Brigham Young University (BYU) in Provo, Utah. He is currently working on a Master's in Computer Science at Boise State University and is supported by the IGEM grant. He is working on an inter-disciplinary project involving Biology and Computer Science as part of Dr. Tim Andersen's research group in the Computer Science department.