

Intercampus Applied Research Program (IARP) Awards

Applied, translational research requires the participation of investigators from many scientific disciplines and schools of creative thought. The new internal funding program, called "Intercampus Applied Research Program (IARP)" was designed to foster new, applied, translational research projects and creative activities and to accelerate discoveries that have the potential to change people's lives. The IARP, which is jointly sponsored by IUPUI and Purdue University, provides \$50,000/year in support of collaborative projects that involve participation of faculty from the two universities.

The first round of competition for IARP awards has concluded. A total of 21 collaborative proposals were considered in a rigorous peer review process that involved faculty reviewers from both the IUPUI and Purdue campuses. The 5 proposals selected for funding in 2007-2008 are:

Interfacing Biological Knowledge and Statistical Analysis for Rapid Interpretation of Clinical Proteomics Experiments. Investigators: Gunther Schadow, Informatics, IUPUI and Olga Vitek, Statistics and Computer Science, Purdue University. The goal of this project is to develop data structures and statistical methodology for rapid interpretation of clinical proteomic data.

Digital Inspection and Virtual Restoration of 3D Objects. Investigators: Daniel Aliaga, Computer Science, Purdue University and Larry Zimmerman, Anthropology, IUPUI. The goal of this project is to develop algorithms and a prototype system for enabling fast, in-place inspection and virtual restoration of important and/or historically significant 3D objects.

Regulation of Root Growth by a Soybean Protein Kinase. Investigators: John Watson, Biology, IUPUI and Angus Murphy, Horticulture, Purdue University. The goal of this project is to manipulate WAG genes to improve seedling establishment under laboratory conditions and in compacted soil.

Deployment of Water Quality Decision Support Tools Using Service Oriented Architecture (SOA) and Web 2.0 Development Approach. Investigators: Bernard Engel, Agricultural and Biological Engineering, Purdue University and David Bodenhamer, Polis Center, IUPUI. The goal of this project is to create a modern, efficient, and highly functional web-based mapping tool to support environmental decision making.

Hydrogen Fuel Cell Power Systems for Portable Applications. Investigators: Arvind Varma, Chemical Engineering, Purdue University and Andrew Hsu, Mechanical Engineering, IUPUI. The goal of this project is to develop a practical, high density, hydrogen source and an affordable fuel cell catalyst in order to improve the performance characteristics of portable electronic devices.

For more information on this program contact Dr. Janice Froehlich, Interim Vice Chancellor for Research, IUPUI Research Office (jcfroehl@iupui.edu).