



## Press Release

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### For Immediate Release

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### Hydro Research Foundation Announces 14 Hydro Fellowship Awards Washington, D.C. (May 16<sup>th</sup>, 2011)

The Hydro Research Foundation, Inc. (Foundation) announces the selection of fourteen recipients of Hydro Fellowships today. Each fellowship will be worth approximately \$94,000 over the two-year period of study. The fourteen Fellowships are made possible by a \$3 million four-year grant from the Wind and Waterpower Technologies Program of U.S. Department of Energy (DOE). The recipients represent eleven universities from ten states. The Program now funds 23 students at 15 Universities. The fourteen new recipients, their universities and their research topics are:

**Katherine Birckbichler**- Virginia Tech, Blacksburg VA, Masters Candidate  
Research- Erosion of Cohesive Sediment due to Hydropower Releases

**Brian Campbell**- Colorado State University, Fort Collins CO, Masters Candidate  
Research- Design Standardization for Integrating Micro Hydropower into Existing Infrastructure and Utility Systems

**Mitch Clement**-University of Colorado, Boulder CO, Masters Candidate  
Research- A Methodology for Assessing the Value of Integrating Hydropower and Wind Generation

**Lisa Dilley**- Washington State University, Pullman WA, Doctoral Candidate  
Research - Economic Feasibility of Pumped Storage Hydropower in Systems with Seasonally Low Flows

**Andre' Dozier**- Colorado State University, Fort Collins CO, Masters Candidate  
Research-Integrated Water and Energy Systems Analysis Tool Development

**Keith Martin**- The Pennsylvania State University, University Park PA, Masters Candidate  
Research- Analysis of the Effects of Pre-Swirl on the Efficiency and Operating Range of Hydro Pumps used in Pumped Storage Facilities

**Matthew McDonald**- Washington State University, Pullman WA, Masters Candidate  
Research- Climate Change Impacts on Columbia River Stream Flow and Hydropower Production

**Garrett Monson**- University of Minnesota, Minneapolis MN, Masters Candidate  
Research- Development of Low-Head Structures for the Purpose of Aeration

**Ryan Morrison**- University of New Mexico, Albuquerque NM, Doctoral Candidate  
Research- Optimization of Reservoir Operations on the Rio Chama using Multicriteria Decision Analysis and Multiobjective Operational Reservoir Modeling

**Kathryn Plymesser**- Montana State University, Bozeman MT, Doctoral Candidate  
Research- Predicting Fish Passage and Energetic Requirements for the Alaska Steeppass Fishway using a Computational Fluid Dynamics Model

**Pavlo Rudenko**- Washington State University, Pullman WA, Doctoral Candidate  
Research-The Development of Clean, Surface-reconditioning Additives Based on Solid Inorganic Nanoparticles for Environment-Friendly Industrial Lubricating Compositions

**Sue Nee Tan**- Cornell University, Ithaca NY, Doctoral Candidate  
Research- Coupling Hydropower and Intermittent Renewables Within the Grid

**Ilker Telci**- Georgia Institute of Technology, Atlanta GA, Doctoral Candidate  
Research- Renewable Energy Production from Water Distribution Systems

**Yushi Wang**- University of Iowa, Iowa City IA, Doctoral Candidate  
Research-Development of a Computational Tool for Predicting Water Quality in Large-Scale Flows

The **Hydro Fellowship Program** is designed to stimulate new student research and academic interest in research and careers in conventional or pumped-storage hydropower. The next phase of the Program will be to work with the hydro industry to establish partnerships to help fund the next class of fellows. According to the Foundation's Executive Director, Linda Church-Ciocci, "These partnerships will assure the sustainability of the program and assure that our industry continues to attract bright, capable entrants to hydropower. These new fellows represent the future of our industry"

The fellowships include a tuition allowance, living stipend, professorial honorarium, and participation in Hydro Fellows Roundtables. According to Program Manager Deborah M. Linke, another call for proposals will be issued later in 2011 that will be more focused on mechanical and electrical engineering students. From that call, a 2012 class of fellows in their last year of work on their Master's degrees will be selected in April of

2012. In addition to seeking industry partners, Linke noted, “We are also looking for mentors for our new fellows and career opportunities for those who are completing their degrees. The Hydro Research Foundation was established in 1994 and became an independent non-profit corporation under section 501(c)(3) of the Internal Revenue Code in 1996. The Foundation has two principal objectives: (1) to facilitate research; and (2) to promote educational opportunities related to hydropower. More information about the Hydro Research Foundation can be found at [www.hydrofoundation.org](http://www.hydrofoundation.org).