New Hires

* Taylor Ball - Student Worker IV (Chuck Russell – SNSC)
* Adrienne Breland - Staff Research Scientist (Jim Thomas – NNSC)
* Andrew Chellman - Undergraduate Lab Assistant (Joe McConnell – NNSC)
* Nudthawud Homtong - Hourly Technical (Kumud.Acharya – SNSC)
* Blake Krejci - Hourly Technical (Markus Berli – SNSC)
* Mark Monroe - Staff Research Scientist (Jim Thomas – NNSC)
* John Olson - Postdoctoral Fellow (Chuck Russell – SNSC)
* Libe Rwechungula - Student Worker II (Braimah Apambire – NNSC)
* Milos Visekruna – Volunteer (Markus Berli – SNSC)
* Andrew Vitale - Student Worker IV (Justin Huntington – NNSC)

PROMOTIONS

♦ Clay Cooper – Associate Research Professor
♦ Justin Huntington – Associate Research Professor

DID YOU KNOW...

• Laura Craig received the 2014 George Burke Maxey Fellowship Award.
• Ryan Liebert received the 2014 George Burke Maxey Award in Water Resources Research.
• During the 4th European Conference on Permafrost in Portugal, Jennifer Frederick participated as a member of the International Permafrost Association working group on submarine permafrost mapping.
• In addition, Jennifer joined the Permafrost Young Researcher Network as a council member to the executive committee for US representation, which is a two-year service position. Congratulations!
• Congratulations to Peng Jiang and Rongrong for the birth of their baby boy Jerry Jiang, born April 12, 2014. Both the mommy and the baby are doing well.
DHS Announcements


≈ Shannon Holt successfully defended her thesis titled “Developing a three-dimensional hydrogeologic framework in northern Ghana, West Africa” under Alex Lutz for Graduate Program of Hydrologic Sciences at the University of Nevada, Reno on April 29, 2014.

≈ Emma Ruhmann successfully defended her thesis titled “Can quagga mussel veligers survive in low calcium water?” under Kumud Acharya for Master of Science in Water Resources Management at the University of Nevada, Las Vegas on June 12, 2014.

≈ Zach Johnson successfully defended his dissertation titled “Effects of transient storage on solute transport and nitrogen cycling in a western U.S. river,” under Rina Schumer for Graduate Program of Hydrologic Sciences at the University of Nevada, Reno on June 17, 2014.

Proposals Submitted

<table>
<thead>
<tr>
<th>Date Submitted</th>
<th>PL, Co-PI</th>
<th>Title</th>
<th>Sponsor</th>
<th>Funding</th>
</tr>
</thead>
<tbody>
<tr>
<td>18-Apr-14</td>
<td>Greg Pohll CoPI: Justin Huntington &amp; Sesh Rajagopal</td>
<td>Water Sustainability in Snow-Fed Arid Land River System</td>
<td>US Department of Agriculture</td>
<td>$1,970,002</td>
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<tr>
<td>18-Apr-14</td>
<td>Joe McConnell</td>
<td>Collaborative Research: Seasonally-resolved impurities as constraints on firn densification and gas trapping mechanisms at WAIS Divide, Antarctica</td>
<td>National Science Foundation</td>
<td>$124,795</td>
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<tr>
<td>22-Apr-14</td>
<td>Joe McConnell</td>
<td>Collaborative Research: Continuous Aerosol and Gas Measurements in SPICE Core: Holocene Biogeochemistry and Ice Core Chronology</td>
<td>National Science Foundation</td>
<td>$742,372</td>
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<tr>
<td>4-Jun-14</td>
<td>Joe McConnell</td>
<td>Bridge Proposal for Continued Core Atmospheric and Snow Measurements at the Summit, Greenland Environmental Observatory</td>
<td>National Science Foundation</td>
<td>$99,943</td>
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<tr>
<td>4-Jun-14</td>
<td>Jackson Crews</td>
<td>The Role of Seismically Initiated CO2 Gas Bubble Growth in Groundwater as a Mechanism for Remotely Triggered Seismicity</td>
<td>DOI - US Geological Survey</td>
<td>$60,562</td>
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</tbody>
</table>
Publications and Presentations

**Journal Articles**


**Conference Abstracts/ Presentations**


New Projects

Lafrance and Gallagher Gifts - Funding for Global Impact

*PI:* Braimah Apambire
*Agency:* DRI Foundation
*Amount:* $45,000
*Summary:* To support Global Impact Fund to create DRI WASH (Water, Sanitation, and Hygiene) High Impact Fund Campaign Fund with the following deliverables: 1) Outline and criteria for the Fund; 2) A case of support for the Fund; 3) Website and test results of the Fund from different platforms; and 4) Meetings to get other NGO’s and donors on board.

DRI, Drexel and World Vision Capacity Building Program

*PI:* Braimah Apambire
*Agency:* World Vision Inc.
*Amount:* $50,000
*Summary:* This capacity building program is intended to help World Vision deliver their 2010-2016 WASH Strategic Plan which calls for implementing long term WASH projects in ten countries, benefiting more than 6 million people. This strategic effort is a massive undertaking, focused on improving the wellbeing of some of the poorest people in the most difficult areas of the world. In preparation for the development of this WASH staff training program, interviews (including a survey of approximately 120 World Vision field staff) have been conducted at learning centers across Africa to identify capacity building needs and priorities. The survey data and interview information now needs to be analyzed and the results used to develop a draft work plan for this multiyear competency-based training program.

The Circuit Rider Program (Yr-2); WASH Consortium (Yr-2); Werner; CIWAS

*PI:* Braimah Apambire
*Agency:* Wallace Genetic Foundation
*Amount:* $75,000
*Summary:* Circuit Rider: Create a TtT Program to assist nongovernmental organizations and local governments to create Circuit Rider programs that will provide long-term, regular support to communities that want to keep their drinking water, sanitation and hygiene systems working well into the future. WASH: To help resolve WASH-related human resource challenges and strengthen the contributions of the U.S. university WASH sector to meeting MDG 7 in developing countries, a group of U.S. university faculty and researchers formed the University/WASH Consortium in November of 2009. Werner: In regard to new WASH programs at DRI, there is a need for someone to assist Braimah with outreach, resource development, prioritizing and recruiting of partners, program development and arranging of meetings either in person or by telephone. Steve, like Braimah, has extensive contacts in the WASH sector. CIWAS: Meetings and conferences.
**New Projects**

**East River RMBL Study**

*PI:* Rosemary Carroll  
*Agency:* DOE - Lawrence Berkeley National Lab  
*Amount:* $10,329  
*Summary:* Dr. Rosemary W.H. Carroll will provide on-site support for the East River RMBL study. This will include, but not be limited to; coordinating with local entities (e.g. RMBL, FS, Mt. CB W&S, WSCU), help in deploying equipment and on-going sampling at selected sites in the basin, and working with Dr. Reed Maxwell at the Colorado School of Mines to co-advice a MS level student responsible for initial hydrologic modeling of the East River.

**GOED KF NV COE**

*PI:* Kumud Acharya  
*Agency:* State of Nevada  
*Amount:* $500,000  
*Summary:* Combining the domain expertise from the Nevada System of Higher Education (NSHE) institutions, The Southern Nevada Water Authority, and IBM’s advanced computing/Smarter Water technologies, the Nevada Water COE will (1) act as a portal for attracting, partnering with, and servicing national and international business in the water domain; (2) deliver high value shared services to public and private sector clients while building job skills and assisting the Department of Employment Training and Rehabilitation (DETR) to grow the workforce for tomorrow; and (3) assist with commercializing and distributing the collective domain expertise in water sciences, technology and management areas. The COE will leverage the world-renowned expertise of DRI and the other NSHE institutions in the field of hydrologic sciences. This Las Vegas-based COE will deliver services in water resource management and big data analytics. The COE business model involves a joint venture among academic, public and private sectors where each partner brings critical resources to create a mechanism to accelerate the economic cycle through applied research leading to technology commercialization, high-value shared services to a broad range of public and private sector clients, and advanced workforce with core technology skills and domain expertise to meet employers’ needs and attract technology focused companies to Nevada.