Presentations and Publications

**Journal Articles**


**Conference Abstracts**


**DHS Reports**


**Reports**


New Projects

**Update Dry Valley Recharge Estimate**

**PI:** Jim Thomas
**Agency:** Intermountain Water Supply Limited
**Amount:** $15,464
**Summary:** DRI will lead the effort in developing updated chloride mass balance recharge estimates that incorporate new precipitation, water chemistry, and water isotopic data.

**Modifying the GSSHA Model to Simulate Near-Stream Vadose Zone Flows**

**PI:** David McGraw
**Agency:** Manhard Consulting, Ltd.
**Amount:** $30,000
**Summary:** To understand the level of effort and effectiveness of modifying the GSSHA model to simulate near-stream vadose zone flows.

DHS Announcements

- Ramon Naranjo and his wife Jen are the proud parents of a baby boy, Dominic Luis, born 1/8/09.
- Annabel Hope joined the growing Banta family on 1/20/09.
- Li Chen’s daughter, Sarah, was born on 2/9/09, weighing in at 7 lbs, 2 oz.
- Congratulations to the following winners of the DHS IR&D proposal competition!
  - Lambis Papelis: Development of Coated Porous Sorbents for the Treatment Of Waters and Wastewaters
  - Rina Schumer: A novel model to improve interpretation of the geologic record
  - Matt Reeves: How do Length-Aperture Correlations Influence Flow and Transport Characteristics of Fractured Rock Masses?
  - Yong Zhang: Mixing-controlled reactive transport in porous media: A combined study of stochastic models and lab experiments
## Proposals (submitted this quarter)

<table>
<thead>
<tr>
<th>Date</th>
<th>PI(s), CO-PI(s)</th>
<th>Sponsor</th>
<th>Title</th>
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<tr>
<td>26-Jan-09</td>
<td>Lutz, Alex</td>
<td>US Agency for International Development</td>
<td>Science and Technology: Safe Water Partnership for Faculty, Students and Educators in Ghana</td>
<td>46,508</td>
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<td>28-Jan-09</td>
<td>Berli, Markus (PI) Decker, Dave McDonald, Eric Verburg, Paul Young, Michael</td>
<td>National Science Foundation</td>
<td>MRI: Acquisition of an X-ray Micro Computed Tomography (microCT) System for Imaging Natural Materials</td>
<td>372,000</td>
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<td>12-Feb-09</td>
<td>Dana, Gayle</td>
<td>National Science Foundation</td>
<td>Collaborative Research: Cyberinfrastructure Development for the Western Consortium of Idaho, Nevada, and New Mexico</td>
<td>372,709</td>
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<td>17-Feb-09</td>
<td>Zhu, Jianting (PI) Papelis, Lambis</td>
<td>Department of Energy</td>
<td>Long-term Subsurface Transport Modeling at the Atomic and Mesoscales</td>
<td>719,120</td>
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<td>03-Mar-09</td>
<td>Russell, Chuck</td>
<td>DOI - US Geological Survey</td>
<td>Elevation Dependence of the Effective Concentration of Chloride in Precipitation</td>
<td>100,091</td>
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<td>11-Mar-09</td>
<td>Zhang, Yong</td>
<td>National Science Foundation</td>
<td>CMG Collaborative Research: Tempered Stable Models for Preasymptotic Pollutant Transport in Natural Media</td>
<td>339,357</td>
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<td>12-Mar-09</td>
<td>Jacobson, Roger (PI) Coming, Dan Hershey, Ron</td>
<td>National Science Foundation</td>
<td>CMG Collaborative Research: Mathematical and Geochemical Modeling and Visualization of Natural Nuclear Reactors</td>
<td>762,434</td>
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<td>13-Mar-09</td>
<td>Schumer, Rina</td>
<td>National Science Foundation</td>
<td>CMG Collaborative Research: Non-Poissonian Extreme Value Theory for Geologic Processes and Natural Hazards</td>
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