

## DARCY LECTURE EVENT

Montana State University and the Energy Research Institute are hosting  
the 2015 Darcy Lecturer

### Rainer Helmig

*Title: Evaluating the Competitive Use of the Subsurface: The Influence of Energy Storage and Production in Groundwater*

Date: June 4, 2015

Location: Byker Auditorium, Room 3, Chemistry and Biochemistry Building

The program begins with talks by ERI researchers investigating subsurface energy topics.

Program:

1:30 Matthew Fields. *Microbially Enhanced Coal Bed Methane Production*

1:55 Adie Phillips. *Advanced Technology for Mitigating Subsurface Gas Leakage*

2:20 Lee Spangler. *The Kevin Dome Carbon Sequestration Project*

2:45 Short Break

3:00 Rainer Helmig. *Evaluating the Competitive Use of the Subsurface: The Influence of Energy Storage and Production in Groundwater*



**Abstract.** The subsurface is being increasingly utilized both as a resource and as an energy and waste repository. With increasing exploitation, resource conflicts are becoming increasingly common and complex, such as thermal energy storage and the effects surrounding hydraulic fracturing in both geothermal and shale gas production.

### Rainer H. Helmig

Rainer H. Helmig, Ph.D., is head of the Department of Hydromechanics and Modelling of Hydrosystems at the Institute for Modelling Hydraulic and Environmental Systems, University of Stuttgart, Germany. His research covers fundamental research and applied science in the field of porous-media flow. A major focus is on developing methods for coupling hydrosystem compartments and complex flow and transport processes. This is based on simulation methods and techniques for describing single- and multiphase, multicomponent flow and transport processes in the subsurface, i.e., in porous and fractured-porous media.

*For questions about this event, please contact Michelle Leonti at 406-994-1658.*