



Workshop for PhD students on Groundwater Flow and Contaminant Transport in Fractured Clays and Shale

June 18 - 19, 2008
Geocenter Denmark

Lecturer

Professor Larry McKay, University of Tennessee



Professor Larry McKay was selected as the 2008 Birdsall-Dreiss Distinguished Lecturer by the Hydrogeology Division of the Geological Society of America. He is visiting Geocenter Denmark on this occasion and will present a workshop during his visit.

The workshop will focus on the principals of groundwater flow and contaminant transport in fractured, fine-grained materials. Topics covered will include:

Day 1: June 18

9:00 – 17:00

- Fracture networks and aperture
- Cubic Law for calculating flow through a fracture
- Characterization of fractured clays
- Matrix diffusion
- Discrete fracture vs Equivalent Porous Media (EPM) modelling approaches
- Homework assignment using the cubic law and a discrete-fracture/matrix-diffusion model (we'll start the assignment in class)

Day 2: June 19

9:00 – 12:00

- Completion of homework assignment in class
- Discussion and reading lists

14:00 (Auditorium B)

- GSA Birdsall-Dreiss Distinguished Lectures

“Cracks in the Clay: The Role of Fractures and Macropores in Critical Zone Hydrology”

“Germs and Geology: Emerging Issues in Waterborne Pathogen Research”

Abstracts for the lectures available at <http://web.utk.edu/~hydro/Birdsall-Dreiss.html>.

Time and place

June 18 - 19, 2008

Geocenter Denmark
Øster Voldgade 10
1350 Copenhagen K.
Denmark

Work load and credit points

Approximately 50 hours in total including the lectures and exercises during the course and preparatory reading before and during the course. The workload corresponds to 2 ECTS.

Study material

Notes and copies of references papers will be provided during the course.

Admission

Applicants are requested to submit the registration form no later than June 9, 2008. Information on admission to the course will be forwarded shortly after.



International Research School of Water Resources

The total number of participants is limited to 24. PhD students are given first priority but depending on the number of registrants we also welcome post-graduate participants. The course is free for PhD students enrolled at universities. Post-graduate participants will be charged a course fee of DKK 3.000.

Accommodation and travel

For PhD students FIVA will arrange for accommodation residence facilities near the university free of charge. Participants are requested to cover travel expenses from own funding.

Further information

Please contact Karsten Høgh Jensen (khj@geol.geol.ku) or Frederik Uldall (fu@geol.ku.dk).