**Weeks Lecture**  
*Speaker list - Fall 2010*

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### Weeks Lecture

**Episodic Tremor and Slip, the curious third wheel of fault motion**  
*Prof. John Vidale  
Dept. Earth & Space Science  
University of Washington (Seattle)  
Friday, Dec 3rd 2010, 3:30 PM. Weeks Hall, Room 140*

The known universe of tectonic fault behavior has gained a new neighborhood in the last few years. Before, faults were considered to either conform to the reasonably well-understood earthquake cycle or else slide steadily. In the earthquake cycle, a fault stays locked for the years while stress is accumulating, then cracks and slides.

Deeper than the locked portion, faults were assumed to move stealthily and steadily. Disrupting this orderly bipartite universe has been tremor - a prolonged, noise-like, 1-10 Hz rumbling that has been spotted below the locked portion of a variety of faults. In subduction zones, often tremor is coincident with slow and low-stress-drop slip that takes many orders of magnitude longer to complete than garden-variety earthquakes, with the rupture progression estimated in km per day rather than per second. The so-called episodic tremor and slip (ETS) is seen to strike at much more regular intervals than old-fashioned quakes.

Tremor is loading dangerous faults, such as near Seattle and Los Angeles, at unsteady rates, perhaps allowing estimations of variable levels of danger. Tremor may silhouettes where the fault is locked, with alarming implications in some places. We can hope that tremor evolves through the earthquake
cycle of the locked zone above in a way revealing the approach of feared events. It is a rare phenomenon that attracts so much inquiry, yet remains so obscure.

**Tremor**

![Tremor Image]

**Earthquake**

![Earthquake Image]

Friday, Dec 10, 2010: no speaker planned (just before AGU)

Friday, Jan 21, 2011:

Gail Christeson, University of Texas (Host: Chuck DeMets)

Friday, Jan 28, 2011:

Marcia Bjornerud, Lawrence University (Host: Laurel Goodwin)

Friday, Feb 04, 2011:

Matt Pritchard, Cornell University (Host: Cliff Thurber)

Wednesday, Feb 09, 2011:

Craig Manning, MSA Distinguished Lecturer (Host: John Valley)
Friday, Feb 11, 2011:
Bill McClelland, University of Iowa (Host: Basil Tikoff)

Friday, Feb 18, 2011:
Hydrogeology search

Friday, Feb 25, 2011:
Hydrogeology search

Friday, Mar 18, 2011 - Spring Break

Friday, Mar 25, 2011:
Kate Scharer, Appalachian State University (Host: Laurel Goodwin)

Friday, Apr 1, 2011:
Paul Kapp, University of Arizona (Host: Basil Tikoff)

Friday, Apr 15, 2011:
David Peate, University of Iowa (Host: Brad Singer)

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**JOB OPENINGS**

- Technician position available in GIA Laboratory in New York
- Indiana University of Pennsylvania - Tenure Track Assistant Professor – Energy Resource Geology
- Postdoctoral/Assistant Professor Positions in Seismology - University of Vienna, Austria
- Research Associate 2 - Department of Geology & Geophysics - Yale University
- Postdoctoral position applying SIMS-based approaches to reconstruct modern and ancient biogeochemistry - Washington University in St. Louis
- University of California, Berkeley - Department of Earth and Planetary Science - Faculty Position in Geochemistry:
- The University of California - Assistant Professor of Ecosystem Geochemistry - The Department of Environmental Science, Policy, and Management
- The Geochemistry Department at Sandia National Laboratories (Albuquerque, New Mexico) has an opening for postdoctoral research
- The School of Earth and Atmospheric Sciences (EAS) at Georgia Institute of Technology seeks applications for a postdoctoral research associate to conduct research in the field of earthquake seismology
- Tenure-Track Faculty Position, Sedimentology/Stratigraphy - The University of Alabama Department of Geological Sciences
- Tenure-Track Faculty Position, Radiogenic Isotope Geologist - The University of Alabama
- Visiting Professor of Hydrology - The University of Alabama Department of Geological Sciences
• Postdoctoral Program in Geological Sciences, Brown University
• Laboratory manager position for a Dynamic SIMS, Swiss National Ionprobe Facility (SwissSIMS) - The University of Lausanne
• The Department of Earth and Oceanographic Science invites applications for a tenure-track position at the assistant professor rank.
• The Department of Geology and Environmental Geosciences at Northern Illinois University invites applications for an anticipated tenure-track position - Stable Isotope Geochemistry
• The Department of Geology and Environmental Geosciences at Northern Illinois University invites applications for an anticipated tenure-track position - Tenure-track Faculty Position in Hydrogeology
• Tenure-Track Position - Stable Isotope Geochemistry (Tier II Canada Research Chair)

JOB OPENINGS

Technician position available in GIA Laboratory in New York
GIA Laboratory in New York invites applications for a Research Laboratory Technician. The laboratory seeks an individual to operate an LA-ICP-MS instrument for gem material analysis. Responsibilities include performing instrument maintenance, assisting other instrument users within the organization, as well as operating additional analytical instrumentation (including FTIR, Raman, UV-Vis, and XRF equipment) to test gem materials. The laboratory technician will be expected to independently perform data collection and interpretation.

A B.S. or M.S. in materials science, geology, physics, chemistry, or a related field is preferred. Experience in LA-ICP-MS analysis is required.

We offer competitive salaries, excellent benefits, a pleasant working environment, and are committed to workplace diversity. If you are interested in applying, please send your resume, cover letter and salary requirements to: nyrecruiter@gia.edu. We thank all applicants for their interest. Unfortunately due to the volume of responses, only candidates under consideration will be contacted. No phone calls or faxes please.

For more information about this opening please visit our website at http://www.gia.edu. GIA is an Equal Opportunity Employer.

Indiana University of Pennsylvania - Tenure Track Assistant Professor – Energy Resource Geology
The Department of Geoscience at Indiana University of Pennsylvania invites applications for a full-time tenure-track appointment at the Assistant Professor level beginning August 2011. Our department is committed to innovative teaching and research in an undergraduate-only setting. Qualifications: We seek an individual who is broadly trained in the area of Energy Resource Geology. Individuals in the sub-disciplines of basin analysis, subsurface geology and sequence stratigraphy are encouraged to apply; preference will be given to those with experience in the oil and gas sector. Candidates should demonstrate outstanding skill and enthusiasm for undergraduate education with particular emphasis on developing an active research program involving undergraduate students. A Ph.D. is required at the time of appointment. Candidates must communicate effectively and perform well during the interview(s), which will include a teaching demonstration and a research seminar. All applicants must be work-eligible. Responsibilities: The successful candidate will be expected to teach twelve contact hours each semester. Teaching responsibilities include: non-majors Geoscience classes for general education; an introductory majors class in energy geology; and upper-level undergraduate courses in the candidate's area of expertise. He/she will also be expected to advise undergraduate research projects and develop a joint faculty-student research program.

Application Materials: Applicants should send a cover letter discussing qualifications, curriculum vitae, statements of teaching and research interests, three reference letters, and copies of academic transcripts to: Dr. Jonathan C. Lewis, Chair, Energy Geology Search Committee, IUP Department of Geoscience, 114 Walsh Hall, Indiana, PA 15705. Complete applications are due January 14, 2011. IUP is in the town of Indiana, situated on the flanks of the Allegheny Mountains. Salaries and benefits are competitive. Additional information about IUP and the Department is available at http://www.iup.edu. IUP is an equal opportunity employer M/F/H/V. IUP is a member of the Pennsylvania State System of Higher Education.
Stable Isotope Geochemistry-Northern Illinois University, DeKalb, IL-Geology and Environmental Geosciences - Tenure-track Faculty Position in Stable Isotope Geochemistry

Located in one of the most dynamic regions of the country, NIU is a comprehensive teaching and research institution with a diverse and international student body of more than 24,000.

The Department of Geology and Environmental Geosciences at Northern Illinois University invites applications for an anticipated tenure-track position at the Assistant Professor level to begin in August, 2011. We seek an individual whose research interests are in the broad area of stable isotope geochemistry. We expect the successful applicant to establish a vigorous and innovative externally funded research program that integrates with one or more of our existing strengths in geochemistry, environmental geology, mineralogy/petrology, paleoclimatology, paleontology, sedimentology/stratigraphy, or structural geology and tectonics. The candidate will be expected to supervise Ph.D. and M.S. students and have a commitment to excellence in teaching at both the undergraduate and graduate levels. The department’s facilities include an array of analytical instruments (Element 2, MAT 253, DELTA plus, and 2100 T Mass Spectrometers, Carlo Erba NA1500 and alpha spectrometer, electron microprobe, X-ray diffractometer, LV-SEM/EDS, etc.) and field equipment (truck-mounted Geoprobe, large percussion corer, oceanographic analytical and sampling equipment, and two specialized remotely operated vehicles). Applicants who can utilize or expand existing facilities, especially our mass spectrometers, will receive special consideration.

A Ph.D. in the geosciences or a related field is required at the time of appointment. The department currently has 13 faculty members, whose research and teaching interests are described on our web site at http://www.niu.edu/geology/.

Applicants must submit a letter of application, curriculum vitae, statements of teaching and research interests, and list of at least three references to: Mark Frank, Search Committee Chair, Department of Geology and Environmental Geosciences, Northern Illinois University, DeKalb, IL 60115. Complete applications must be received by January 10, 2011. NIU is an AA/EEO Institution that values diversity in its faculty, staff, and students; we strongly encourage applications from diverse candidates including women and minorities.

Postdoctoral/Assistant Professor Positions in Seismology-University of Vienna, Austria

The Section of Geophysics of the Institute of Meteorology and Geophysics is looking to fill two positions at postdoc/assistant professor level in the field of seismology. Applications from neighboring fields of geophysics, geodynamics, physics etc. are also welcome. We are looking for highly motivated and creative assistants for the newly filled chair of geophysics (Prof. G. Bokelmann). The Vienna region offers, beside interesting opportunities for research and application, particularly high quality of life. The salary is 3,248.70 Euro per month before taxes (paid 14 times a year). The contract is limited to duration up to 4/6 years, depending on the applicants qualification. The candidates are expected to participate in geophysics teaching at a modest level (4 hours per week).

Your application should contain CV, list of publications, your research interests, as well as names and addresses of three potential referees, who are willing to send letters of recommendation.

Degree of Employment: 40 hours/week

Areas of work:
We require an active participation in the research program in the field of solid Earth geophysics. Important topics are regional geodynamics, seismic risk and nuclear verification. Candidates should contribute to advising Master and doctoral students. An advantage is the interest in performing seismological field experiments, as well as data analysis and interpretation, at least for one of the two positions.
Profile:
Doctoral degree in geophysics or neighboring fields. Advanced computer and programming knowledge are a plus. Ability to work in a group is a requirement. Applications including a letter of motivation (German or English) should be sent via Job Center to the University of Vienna (http://jobcenter.univie.ac.at) no later than 19.12.2010 and be referenced to the identification number 1634.

For further information please contact Goetz Bokelmann, +43-1-4277-53720.

The University of Vienna intends to increase the number of women on its faculty, particularly in high-level positions, and therefore specifically invites applications by women. Among equally qualified applicants women will receive preferential consideration.

Human Resources and Gender Equality of the University of Vienna
Identification number of advertisement: 1634
E-Mail: jobcenter@univie.ac.at

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Research Associate 2 -Department of Geology & Geophysics -Yale University

The Earth Systems Center for Stable Isotopes studies at Yale University is looking to hire a full time laboratory manager to manage the operation and maintenance of a state of the art multi-use isotope center; collaborate with principal investigators and students in method development, sample analyses and data interpretation; provide input in the form of technical guidance and direction on various phases of isotopic research. The center is a multi-user laboratory facility that contains 5 IRMS for assorted applications. Detailed information about the facility can be obtained at http://earth.geology.yale.edu/escsis/.

Detailed job description is given below.

Please apply online at www.Yale.edu/jobs - the STARS req ID for this position is 11591BR.

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Postdoctoral position applying SIMS-based approaches to reconstruct modern and ancient biogeochemistry - Washington University in St. Louis

The Isotope Biogeochemistry group at Washington University in St. Louis invites applications from outstanding and motivated individuals for a postdoctoral position with the principal emphasis on applying secondary ionization mass spectrometry (SIMS) approaches to investigate modern and ancient biogeochemical cycling, including but not limited to that of carbon, sulfur, and nitrogen. The research will involve a combination of field-based studies, laboratory experiments, and SIMS instrument use (e.g., NanoSIMS and/or 7f-geo). Candidates preferably will have experience in one or more of the following: operation and data collection/calibration of SIMS (or similar) instrumentation; stable isotope analysis; and biogeochemical modeling. Candidates must have a Ph.D. in geology, chemistry, geochemistry or a related field at the time of the appointment. This will be a one-year term appointment with possibility of renewal up to three years. Applicants should send a CV, description of research interests, and contact information for at least three references to:

David A. Fike
Department of Earth & Planetary Sciences Washington University
1 Brookings Dr., CB 1169
St. Louis, MO
(dfike@levee.wustl.edu).
University of California, Berkeley - Department of Earth and Planetary Science - Faculty Position in Geochemistry:
The Department of Earth and Planetary Science at UC Berkeley invite applications for a tenure-track faculty position in geochemistry. We seek an individual with research interests and/or approaches that will complement or augment our existing strengths, and who will contribute to our core teaching in Earth and Planetary Science. Applicants should have demonstrable potential for international leadership in one or more areas of (broadly defined) geochemistry. The appointment will be at the Assistant Professor level. We especially invite applications from scientists whose research involves field and/or laboratory studies of Earth and planetary materials in the solid, liquid and/or gas states, including organic or inorganic molecules, and their processes. Applicants are strongly encouraged whose biographical attributes (e.g., gender, ethnicity) would enhance our department's diversity.

To apply for the position:

- 2) Submit PDF file(s) of your curriculum vitae, bibliography (misspelled in current text), statement of teaching and research interests, and the names and addresses (email and postal) of at least three references. A single file including each of these sections is preferred. Submission can be done either (A) by uploading at the self-registry site above, or (B) by sending as attachment(s) to geochem@eps.berkeley.edu.

Please direct any inquiries to geochem@eps.berkeley.edu.

Applications must be received by December 12, 2010; late applications will not be considered. Fax applications will not be accepted. The University of California, Berkeley is an Affirmative Action/Equal Opportunity Employer.

The University of California - Assistant Professor of Ecosystem Geochemistry - The Department of Environmental Science, Policy, and Management, Division of Ecosystem Science, invites applications for a tenure-track 9-month (academic year) appointment at the Assistant Professor level in the area of Ecosystem Geochemistry, starting 1 July 2011. The position includes a joint appointment in the California Agricultural Experiment Station.

The successful applicant must have a PhD and post doctoral experience in a chemical or related science, an excellent record of scientific accomplishment, a strong commitment to undergraduate and graduate teaching, and a demonstrated interest in being part of a community of ecosystem scientists.

The department seeks candidates whose research, teaching, or service has prepared them to contribute to our commitment to diversity and inclusion in higher education.

How to Apply

Applicants should submit the following documents electronically as pdf files labeled as follows: “LASTNAME_FirstName_Document Number” with numbers as following:

1. Letter of application containing a list of at least 3 referees who have been asked to email letters of reference to geochemistry@berkeley.edu
2. Current curriculum vitae
3. Statement of research interests
4. Statement of teaching interests and experience
5A-C. pdf copies of 3 recent representative publications

Submit application materials online using eCNR.
Refer potential reviewers to the UC Berkeley Statement of Confidentiality. The closing date for applications is 30
November 2010.

The University of California is an Equal Opportunity Affirmative Action Employer.

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The Geochemistry Department at Sandia National Laboratories (Albuquerque, New Mexico) has an opening for
postdoctoral research aimed at developing a molecular-level understanding of nuclear waste glass dissolution, the
reaction kinetics of chemical warfare agents on inorganic surfaces, and the adsorption of oxyanions onto iron
oxyhydroxides. The research will involve the use of quantum methods and classical molecular dynamics. The
researcher will support programs in both the Geochemistry Department and the Department of Electronic and
Nanostructured Materials. A background in chemistry or geochemistry background with some computational
experience is preferred. Candidates should be within six months of graduation to be considered. To apply, go to
http://www.sandia.gov, click on Careers, and search the job postings for Job ID 636544. For further information
about the position contact Louise Criscenti at ljcrisc@sandia.gov or Todd Alam at tmalam@sandia.gov.

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The School of Earth and Atmospheric Sciences (EAS) at Georgia Institute of Technology seeks applications for a
postdoctoral research associate to conduct research in the field of earthquake seismology. The project is recently
funded by the National Science’s Foundation’s CAREER program. Specific tasks include systematic search of
deep non-volcanic tremor and remote triggering around the world, and test different models of aftershock
triggering based on waveform detections after moderate to large earthquakes. Additional description of the funded
project can be found at http://www.nsf.gov/awardsearch/showAward.do?AwardNumber=0956051

Potential applicants need to have (or will soon be completing) a Ph.D. in the field of geophysics or a related field.
They should have a clear research record and relevant experience in analyzing seismic data. Review of
applications begins on December 15th, 2010 and we anticipate a start date within the next 6-9 months. The
position is initially offered as one yr and can be extended to two yrs depending on performance. Excellent
candidate will be evaluated within the “Research Frontier Postdoctoral Fellowship” program that is recently
established within the EAS http://shadow.eas.gatech.edu/~dufek/Postdoctoral_Fellowship

Please send electronically a CV, a 2-4 page research statement, and the names of at least three professional
references to Prof. Zhigang Peng at zpeng@gatech.edu. Georgia Institute of Technology is an equal opportunity
employer. For further information please contact Prof. Zhigang Peng (zpeng@gatech.edu, 404-894-0231).

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Tenure-Track Faculty Position, Sedimentology/Stratigraphy The University of Alabama Department of
Geological Sciences

The Department of Geological Sciences at The University of Alabama invites applications for a tenure-track
faculty position in sedimentology and stratigraphy, beginning August 2011. The position will be filled at the
Assistant Professor level. Candidates must have a strong record of research and must have received their Ph.D.
in Geology or a related field at the time of appointment. The successful candidate will be expected to teach
introductory geology courses and undergraduate and graduate courses in sedimentology and stratigraphy,
supervise student research projects at the master and doctoral levels, and establish a vigorous externally-funded
research program in sedimentology and/or stratigraphy. The department has a broad range of geophysical, modeling, isotopic and geochemical research facilities available. Details regarding existing research programs, related department equipment and facilities are found at http://www.geo.ua.edu. For inquiries regarding the position, contact Dr. Delores Robinson, Chair of Sed/Strat search Committee (dmm@geo.ua.edu) or Dr. Ibrahim Çemen (icemen@as.ua.edu), Chair of the UA Dept. of Geological Sciences. Applicants should go to http://www.facultyjobs.ua.edu to electronically apply. When submitting an application, candidates must provide a research statement, teaching statement, curriculum vitae with contact information for at least three referees. Applications will be reviewed beginning January 14, 2011, and will continue until the position is filled. The University of Alabama is an Equal Opportunity Affirmative Action Employer and Actively Seeks Diversity in its Employees.

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Tenure-Track Faculty Position, Radiogenic Isotope Geologist – The University of Alabama - Department of Geological Sciences, Radiogenic Isotope Geologist. The Department of Geological Sciences invites applications for a tenure-track faculty position to be filled at the Assistant Professor level beginning August 2011. Minimum qualifications are a Ph.D. degree in geosciences or related discipline at the time of appointment. We seek a candidate whose research focuses on development and applications of radiogenic isotopes to geochronology and geochemical tracers. The successful candidate will be expected to (i) establish a state-of-the-art radiogenic isotope laboratory; (ii) institute a vigorous, externally funded, research program; (iii) develop and teach courses in introductory geology and at the undergraduate and graduate levels in their field of expertise, and (iv) supervise student research projects at the master and doctoral levels. The Department has a wide variety of modern analytical equipment including electron beam instruments, XRD, XRF, ICP, ICP-MS and an advanced stable isotope laboratory with two CF-IRMSs. Information about the Department is available on our web site at Http://www.geo.ua.edu. Applications, filed electronically at http://www.facultyjobs.ua.edu, will be reviewed beginning January 14, 2011 and will be accepted until the position is filled. When submitting an application, candidates must provide a research statement, teaching statement and curriculum vitae with contact information for at least three referees. For inquiries regarding the position, contact Dr. Paul Aharon, Chair of RIG Search Committee (paharon@geo.ua.edu) or Dr. Ibrahim Çemen (icemen@as.ua.edu), Chair of the UA Dept. of Geological Sciences. The University of Alabama is an equal-opportunity/affirmative-action employer and actively seeks diversity in its employees.

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Visiting Professor of Hydrology - The University of Alabama Department of Geological Sciences

Hydrogeology - Three-year Non-tenure earning Visiting Assistant Professor Position Department of Geological Sciences, The University of Alabama The Department of Geological Sciences at The University of Alabama invites applications for a three-year, non-tenure earning, visiting faculty position in hydrogeology, beginning August 2011. The position will be filled at the Assistant Professor level. Candidates must have a strong record of research and a Ph.D. in hydrogeology by the time of appointment. The successful candidate will be expected to teach introductory geology courses and undergraduate and graduate courses in hydrogeology, advise graduate students, and contribute to the Department's research program in hydrogeology. The Department has a broad range of resources and existing facilities that include both inorganic and organic geochemistry analytical laboratories, electron beam and X-ray analytical instruments, an advanced stable isotope laboratory with two CF-IRMSs and extraction lines, modeling and computational facilities, truck-mounted Geoprobe® unit, and a wide array of other hydrologic field and geophysical equipment. Details regarding existing department research programs, equipment and facilities are found at http://www.geo.ua.edu. Questions should be directed to Dr. Geoff Tick (gtick@geo.ua.edu), Chair of the Hydrogeology Search Committee, or to Dr. Ibrahim Çemen (icemen@as.ua.edu), Department Chair. Applicants should submit a CV, research statement, teaching statement, and names and contact information for at least three referees electronically through the UA Jobs Website at http://www.facultyjobs.ua.edu. Review of applications will begin on January 7, 2011, and will continue until the position is filled. The University of Alabama is an equal opportunity/affirmative action employer and actively seeks diversity in its employees.
Postdoctoral Program in Geological Sciences, Brown University

The Department of Geological Sciences at Brown University invites applications for its postdoctoral research associate program. The Department seeks outstanding candidates in the field of Earth and planetary sciences, with preference given to applicants whose research addresses key questions in Earth composition, structure, dynamics, deformation and material properties. Research associates are encouraged to pursue their own research interests, but close interaction with Brown Geological Sciences faculty is expected. Additional program information and a description of research and facilities in the Department can be found at http://brown.edu/Departments/Geology.

These competitive, institutionally-supported postdoctoral positions are awarded for a one-year period, with anticipated extension for a second year. The annual stipend is $52,000 and a research/travel fund of $5,000 is provided in each year.

Applications should include a brief proposal for the research to be carried out at Brown (with identification of a Brown faculty sponsor), a statement of research accomplishments, curriculum vitae, and contact information for three references. Applications should be emailed (in PDF format) to Gloria_Correra@brown.edu no later than January 7, 2011. Decisions will be made in Spring, 2011, for a position start date as early as July 1, 2011. Applicants should have a recent Ph.D. or should be 2011 degree candidates. Completion of the Ph.D. is required by the time of the appointment.

Brown University is an equal opportunity/affirmative action employer. We welcome applications from minority and women scientists.

Laboratory manager position for a Dynamic SIMS, Swiss National Ionprobe Facility (SwissSIMS)

The University of Lausanne is opening a search for the position of laboratory manager for the SwissSIMS facility, housing a dynamic SIMS. Starting date foreseen is summer 2011. The successful candidate must have an extensive experience in the development of dynamic SIMS techniques and an established research record. The appointment will be as a permanent scientific staff. Salary will depend on experience and age of the applicant.

The person will collaborate closely with the manufacturers during construction of the SIMS instrument, will spearhead the installation of the facility, and will be integrated in the Swiss and international research environment.

The responsibilities of the Laboratory Manager will include:
- supervision of the daily operation of the facility
- quality control of analytical results
- development of analytical methods and standards
- participation in the scientific steering committee
- supervision and training of users, associated technical personal and research scientists
- development of his/her own scientific projects

To achieve this, a dynamic individual with a strong background in analytical methods and instrumental technologies is sought. A Ph.D. degree in physical sciences or engineering is required. The successful applicant is expected to have a strong record in the application of ion microprobe analyses or mass spectrometry to one or more areas in Earth and planetary sciences. Excellent communication skills are required as well as a willingness to participate in collaborative research.

Applications should include a curriculum vita, publication list, a summary of the research and managing experience and interests, and names and email addresses of at least 3 referees. The University of Lausanne encourages applications by minorities and woman. Please send applications to Prof. Othmar Müntener, head of the search committee no later than 31 of January 2011.

Institute of Mineralogy and Geochemistry University of Lausanne Anthropole CH-1015 Lausanne, Switzerland
Tenure-Track Faculty Position in Paleoclimate / Paleoceanography (Position # 10072) - The College of Marine Science at the University of South Florida invites applications for a tenure-track, nine-month academic faculty position. Appointment can be at the Assistant Professor or Associate Professor rank. Salary is negotiable and competitive.

We seek a paleoclimatologist/paleoceanographer who use a quantitative, interdisciplinary approach to investigating regional to global environmental variability on any timescale including those relevant to society. Minimum Requirements: Must have a PhD in a relevant scientific discipline at the time of hire.

For the Assistant Professor rank, candidates must have a strong potential for scholarly publication and obtaining extramural research funding, and be committed to quality instruction and mentoring of graduate students.

For the Associate Professor rank, candidates must also have an outstanding record in research, including a substantive publication record, evidence of success in attracting extramural research funding and a strong record in graduate education as evidenced by successful direction of master’s and/or doctoral candidates.

Preferred qualifications: The successful candidate will use diverse and novel geochemical analysis of natural marine and/or continental archives including (but not limited to) corals, marine sediments, tree-rings, speleothems, etc., and integrate numerical modeling to test hypotheses on environmental change.

We seek to enhance existing strengths in (1) natural and anthropogenic environmental change, including understanding the historical context of current global change as well as extreme events in the geologic past, and (2) modern and ancient hydrological and ecosystem dynamics. The successful candidate will have strong analytical skills, and an immediate capacity for establishing an internationally recognized, externally funded, interdisciplinary research program.

Contact: For information regarding the available position, please contact Dr. Al Hine, ahine@marine.usf.edu 727-553-1161, or Desiree Worneor, dworneor@usf.edu 727-553-1632.

Application procedures: Apply online at http://www.usf.edu/Employment/. Please submit a statement of research interests specifying the research contributions you could provide to College of Marine Science, a cover letter specifying the appropriate appointment rank, curriculum vitae, and contact information for three referees. Position is open until filled, however, review of applications will begin immediately, with preference given to those received by Jan. 17, 2011. Appointment is expected to commence August 7, 2011.

Tenure-track Assistant Professor Position, Geobiology-Global Change.- The University of Massachusetts Amherst

The Department of Geosciences and Commonwealth Honors College at The University of Massachusetts Amherst invite applications for a tenure-track position at the Assistant Professor level starting Fall 2011. A Ph.D. in Geosciences, Biological Sciences, Microbiology, or related fields is required at the time of appointment; post-doctoral experience is preferred. Potential focus areas include geomicrobiology, biogeochemistry, paleobiology, paleoclimate studies, biogeography, Earth systems history, or carbon cycle research. Emphasis will be placed on the applicant's demonstrated potential to develop a successful externally-funded research program in laboratory, modeling and/or field-based research that explores past, present and/or future environmental change at the interface between the biosphere-geosphere-hydrosphere-atmosphere. In addition to teaching courses in her/his specialty, the successful candidate will be required to teach two new undergraduate Honors general education courses on the subjects of Life History and Life Environments. This position is one of several hires affiliated with the University of Massachusetts Commonwealth Honors College. The new faculty member will be in the Department of Geosciences, with affiliation as Honors Faculty in the Commonwealth Honors College, and is expected to contribute to teaching and mentoring in the departmental Honors program. Applicants should supply a
cover letter, CV, research statement, teaching statement, and contact information for three referees familiar with their research and teaching efforts to search@geo.umass.edu. For more information, visit the Department of Geosciences website (www.geo.umass.edu) or contact the Search Committee Chair (search@geo.umass.edu). Review of applicants will begin Nov. 15, 2010 and continue until the ideal candidate is identified. The Department of Geosciences is committed to increasing the diversity of the faculty, student body, and curriculum. The University of Massachusetts is an Affirmative Action /Equal Opportunity Employer; women and members of minority groups are encouraged to apply.

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Department of Geology & Geophysics - Yale University - The Earth Systems Center for Stable Isotopes studies at Yale University is looking to hire a full time laboratory manager to manage the operation and maintenance of a state of the art multi-use isotope center; collaborate with principal investigators and students in method development, sample analyses and data interpretation; provide input in the form of technical guidance and direction on various phases of isotopic research.

The center us a multi-user laboratory facility that contains 5 IRMS for assorted applications. Detailed information about the facility can be obtained at http://earth.geology.yale.edu/escsis/.

Detailed job description is given below.

Please apply online at www.Yale.edu/jobs - the STARS req ID for this position is 11591BR.

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Tenure-track Assistant Professor Position, Geobiology-Global Change - The Department of Geosciences and Commonwealth Honors College at The University of Massachusetts Amherst invite applications for a tenure-track position at the Assistant Professor level starting Fall 2011. A Ph.D. in Geosciences, Biological Sciences, Microbiology, or related fields is required at the time of appointment; post-doctoral experience is preferred. Potential focus areas include geomicrobiology, biogeochemistry, paleobiology, paleoclimate studies, biogeography, Earth systems history, or carbon cycle research. Emphasis will be placed on the applicant’s demonstrated potential to develop a successful externally-funded research program in laboratory, modeling and/or field-based research that explores past, present and/or future environmental change at the interface between the biosphere-geosphere-hydrosphere-atmosphere. In addition to teaching courses in her/his specialty, the successful candidate will be required to teach two new undergraduate Honors general education courses on the subjects of Life History and Life Environments. This position is one of several hires affiliated with the University of Massachusetts Commonwealth Honors College. The new faculty member will be in the Department of Geosciences, with affiliation as Honors Faculty in the Commonwealth Honors College, and is expected to contribute to teaching and mentoring in the departmental Honors program. Applicants should supply a cover letter, CV, research statement, teaching statement, and contact information for three referees familiar with their research and teaching efforts to search@geo.umass.edu. For more information, visit the Department of Geosciences website (www.geo.umass.edu) or contact the Search Committee Chair (search@geo.umass.edu). Review of applicants will begin Nov. 15, 2010 and continue until the ideal candidate is identified. The Department of Geosciences is committed to increasing the diversity of the faculty, student body, and curriculum. The University of Massachusetts is an Affirmative Action /Equal Opportunity Employer; women and members of minority groups are encouraged to apply.

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The Department of Earth and Oceanographic Science invites applications for a tenure-track position at the assistant professor rank. Ph.D. is required (advanced ABDs will be considered). We seek candidates whose research is within the solid-earth field including such specializations as volcanology, structural geology, tectonics or mineralogy. Maine's coastal and inland rock exposures provide outstanding opportunities to study igneous, metamorphic, and deformed minerals and rocks for teaching and for research.

Bowdoin values excellence in teaching and in scholarly research. The Department of Earth and Oceanographic Science is at an exciting point of expansion and redefining its curriculum. The successful applicant will contribute to the department and to the college by teaching introductory, core, and upper level undergraduate courses, and by
Pursuing significant research that regularly engages undergraduate students. The typical teaching load in the department is three courses per year.

Bowdoin College accepts only electronic submission. Please visit https://careers.bowdoin.edu to submit a cover letter, curriculum vitae, statement of teaching philosophy, statement of research plans, and the contact information for three references who will provide letters of recommendation.

Review of applications will begin December 10, 2010, and will continue until the position is filled. We will participate in the employment centers at the Geological Society of America meeting in Denver (November 2010) and the American Geophysical Union meeting in San Francisco (December 2010).

A highly selective liberal arts college on the Maine coast with a diverse student body made up of 29% students of color, 3% International students and approximately 15% first generation college students, Bowdoin College is committed to equality and diversity and is an equal opportunity employer. We encourage inquiries from candidates who will enrich and contribute to the cultural, socio-economic, and ethnic diversity of our college. Bowdoin College does not discriminate on the basis of age, race, creed, color, religion, marital status, gender, sexual orientation, veteran status, national origin, or disability status in employment, or in our education programs.

Bowdoin College offers strong support for faculty research and teaching. We recognize that recruiting and retaining faculty may involve considerations of spouses and domestic partners. To that end, where possible, the College will attempt to accommodate and respond creatively to the needs of spouses and partners of members of the faculty. For further information about the college and the department, see our website at <http://www.bowdoin.edu/>

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Tenure-track Faculty Position in Stable Isotope Geochemistry - The Department of Geology and Environmental Geosciences at Northern Illinois University invites applications for an anticipated tenure-track position at the Assistant Professor level to begin in August, 2011. We seek an individual whose research interests are in the broad area of stable isotope geochemistry. We expect the successful applicant to establish a vigorous and innovative externally funded research program that integrates with one or more of our existing strengths in geochemistry, environmental geology, mineralogy/petrology, paleoclimatology, paleontology, sedimentology/stratigraphy, or structural geology and tectonics. The candidate will be expected to supervise Ph.D. and M.S. students and have a commitment to excellence in teaching at both the undergraduate and graduate levels. The department’s facilities include an array of analytical instruments (Element 2, MAT 253, DELTA plus, and 2100 T Mass Spectrometers, Carlo Erba NA1500 and alpha spectrometer, electron microprobe, X-ray diffractometer, LV-SEM/EDS, etc.) and field equipment (truck-mounted Geoprobe, large percussion corer, oceanographic analytical and sampling equipment, and two specialized remotely operated vehicles). Applicants who can utilize or expand existing facilities, especially our mass spectrometers, will receive special consideration. A Ph.D. in the geosciences or a related field is required at the time of appointment. The department currently has 13 faculty members, whose research and teaching interests are described on our web site at http://www.niu.edu/geology/. Applicants must submit a letter of application, curriculum vitae, statements of teaching and research interests, and list of at least three references to: Mark Frank, Search Committee Chair, Department of Geology and Environmental Geosciences, Northern Illinois University, DeKalb, IL 60115. Complete applications must be received by January 10, 2011. NIU is an AA/EEO Institution that values diversity in its faculty, staff, and students; we strongly encourage applications from diverse candidates including women and minorities.

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Tenure-track Faculty Position in Hydrogeology - The Department of Geology and Environmental Geosciences at Northern Illinois University invites applications for an anticipated tenure-track position at the rank of Assistant Professor to begin August, 2011. We seek a candidate with research and teaching interests in applied physical hydrogeology and preferably expertise in using groundwater modeling and field methods to characterize aquifers
and flow systems. Possible areas of research could include numerical modeling of subsurface flow, flow in fractured media and karst, groundwater-surface water interactions, contaminant transport, aquifer studies, etc. We expect the successful candidate to establish a strong externally funded research program, to supervise student research at undergraduate, M.S. and Ph.D. level, and to teach at all levels including assisting the summer environmental field methods camp. Departmental facilities include a truck-mounted Geoprobe™ 6600, field hydrogeological equipment, surface and borehole geophysical instruments, and extensive geochemical/analytical facilities. The department currently has 13 faculty members whose broad research interests are described on our website (www.niu.edu/geology); potential for collaboration exists with areas including role of fluids in formation of ore deposits and hydrocarbon accumulations, energy resources, hydro-geophysics, groundwater geochemistry and geomicrobiology, climate change and glacial studies, as well as with a new interdisciplinary Institute for the Study for the Environment, Sustainability and Energy (www.niu.edu/ese). A Ph.D. in the geosciences or a related field is required at the time of appointment. Applicants must submit a letter of application, CV, statements of teaching and research interests, and list of at least three references to: Philip J. Carpenter, Hydrogeology Search Chair, Department of Geology and Environmental Geosciences, Northern Illinois University, DeKalb, IL 60115. Send electronic applications to pjcarpenter@niu.edu. Complete applications must be received by January 10, 2011. NIU is an AA/EEO Institution that values diversity in its faculty, staff, and students; we strongly encourage applications from diverse candidates including women and minorities.

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Tenure-Track Position - Stable Isotope Geochemistry (Tier II Canada Research Chair) -Department of Earth and Atmospheric Sciences. Competition No. - A107912719 Closing Date - Will remain open until filled.

The Department of Earth and Atmospheric Sciences invites applications for a full-time, tenure-track position in Stable Isotope Geochemistry at the Assistant/Associate Professor level.

The successful candidate will be considered for a nomination as a Canada Research Chair at the Tier II level. We are seeking an individual with wide-ranging research interests in Solid Earth and Environmental Earth sciences. Current areas of strength within the Department, in which research collaboration with the successful candidate could develop, include petrology and geochemistry (mantle, crust and extraterrestrial), environmental and paleoenvironmental studies, radiogenic isotope geochemistry, isotopic characterization of fluids and gases, Earth evolution and biogeochemistry/geomicrobiology. The successful candidate will contribute to these strengths by developing an active research program that includes supervising graduate students, collaborating with other faculty members, obtaining external funding, and teaching undergraduate and graduate courses in geochemistry and stable isotope geochemistry. The Department is equipped with conventional and in situ analytical facilities for stable isotope analysis, including a Cameca IMS1280 ion microprobe.

Applicants must hold a Ph.D. degree at the time of appointment, have a proven research record and demonstrate excellence in teaching.

Applications may be addressed to the Acting Chair, Dr. Robert Creaser and should include current curriculum vitae, a statement of research interests and a statement of teaching philosophy. Applicants should also arrange for three hard-copy confidential letters of reference to be sent to Dr. Robert Creaser as soon as possible.

Application review will begin February 15, 2011; however, the competition will remain open until suitable candidates are found. The start date for this position is July 1, 2011.

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********** HAVE A GREAT WEEKEND **********