GeoBulletin is distributed weekly, by E-mail. Contributions are requested! If you have a news item, a request, an announcement etc. email it to geodept@geology.wisc.edu or leave it at the office, Room 225 by Noon on Monday.

**Weeks Lecture**

*Speaker list - Fall 2011*

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**WEEKS LECTURE**

**DR. DAVID J. DES MARAIS**

NASA Ames Research Center

Friday, Sep 30th, 2011, 3:30 PM, Weeks Hall – Room AB20

Marine microbial mats and the search for evidence of life in deep time and space

Cyanobacterial mats in extensive seawater evaporation ponds at Guerrero Negro, Baja California, Mexico, have been excellent subjects for microbial ecology research. The studies reviewed here have documented the steep and rapidly changing environmental gradients experienced by mat microorganisms and the very high rates of biogeochemical processes that they maintained. Recent genetic studies have revealed an enormous diversity of bacteria as well as the spatial distribution of
Bacteria, Archaea and Eukarya. These findings, together with emerging insights into the intimate interactions between these diverse populations, have contributed substantially to our understanding of the origins, environmental impacts, and biosignatures of photosynthetic microbial mats. The biosignatures (preservable cells, sedimentary fabrics, organic compounds, minerals, stable isotope patterns, etc.) potentially can serve as indicators of past life on early Earth. They also can inform our search for evidence of any life on Mars. Mars exploration has revealed evidence of evaporite deposits and thermal spring deposits; similar deposits on Earth once hosted ancient microbial mat ecosystems.

Thursday, Oct 6, 2011:

Steve Silliman, Notre Dame Darcy Lecture (Host: Bahr)

"National Ground Water Association 2011 Darcy Distinguished Lecture"

Characterization of a Complex, Sole-Source Aquifer System in Benin, West Africa

The Godomey wellfield is the sole source of freshwater for Cotonou, Benin. The Cotonou/Calavi area is the largest population center in Benin, with an estimated population of between 1.5 and 2 million people. Located directly on the Atlantic coast, this population center is also bordered by the southern and western shores of a large, shallow lake. Groundwater wells serving this population are located about 6 km north of the Atlantic coast and as close as 1 km to the western shore of the lake. With most production wells located within partially confined portions of this complex aquifer system, this water resource is threatened by contamination from saltwater intrusion (both from the lake and the ocean) and anthropogenic activities.
Collaboration among scientists and students from the United States and Benin has allowed development of increasing insight into the hydrogeology of this important coastal aquifer system. Research efforts discussed in this presentation include numerical modeling, hydraulic testing, water quality characterization, and electrical resistivity surveys. Discussion of a number of technical and social/cultural issues encountered during this research effort illustrates the value of close cooperation with in-country collaborators, including those from both the technical and social science disciplines.

Thursday, Oct 6th, 2011, 12:05 -1 PM, Weeks Hall –140

Development of Reliable Hydrologic Data Sets in Difficult Environments: Case Studies from Benin, West Africa

Reliable hydrologic data are critical for sound hydrogeologic analyses and for the subsequent policy decisions based on those analyses. However, obtaining such data sets in the face of limited budgets and limited access to field sites can be a daunting challenge, particularly in rural regions in developing countries. Experience in Benin demonstrates that such challenges are best met through close collaboration with a number of in-country entities (universities, local populations, government agencies, and NGOs) and integration of hydrologic expertise with political, social, and cultural considerations.

This presentation focuses on a series of case studies from Benin directed at developing data sets involving: (1) regional water quality, (2) temporal variation in nitrate contamination in rural groundwater wells, and (3) temporal variation in hydraulics and water quality related to saltwater intrusion as well as anthropogenic contamination in coastal areas. This presentation demonstrates both the value of statistical analysis in the design and implementation of sampling plans in these difficult environments, as well as the power of close collaboration with in-country colleagues and local populations.

Friday, Oct 14, 2011:
Terry Plank, Columbia University/LDEO (Host: Singer)

Friday, Oct 21, 2011:
Local Speaker

Friday, Oct 28, 2011:
Chongxuan Liu, Pacific Northwest National Lab (Host: Huifang Xu)

Friday, Nov 4, 2011:
Steve Wesnousky, U.Nevada-Reno Tectonics Institute (Host: DeMets)
Friday, Nov 11, 2011:
Greg Hirth, Brown University (Host: Bonamici)

Friday, Nov 18, 2011:
Sumit Chakraborty, MSA (Host: Valley)

Friday, Dec 2, 2011:
Jessica Blois, UW-Madison (Host: Peters)

Friday, Jan 27, 2011:
Department Welcome Back

Friday, Feb 03, 2011:
Peter Wilf, Penn State (Host: Geary/Peters)

Friday, Feb 10, 2011:
Greg Waite, Michigan Tech (Host: DeMets)

Friday, Feb 17, 2011:
Margaret Fraiser, UW-Milwaukee (Host: Peters)

Friday, Mar 9, 2011:
Aradhna Tripati, UCLA (Host: Carlson)

Friday, Mar 25, 2011:
Marin Clark, Univ Michigan (Host: Goodwin)

Friday, Apr 13, 2011:
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NATIONAL SCIENCE FOUNDATION EAST ASIA AND PACIFIC SUMMER INSTITUTES
FOR U.S. GRADUATE STUDENTS - 2012 APPLICATION NOW OPEN

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The National Science Foundation (NSF) East Asia and Pacific Summer Institutes for U.S. Graduate Students (EAPSI) is a flagship international fellowship program for developing the next generation of globally engaged U.S. scientists and engineers knowledgeable about the Asian and Pacific regions. The Summer Institutes are hosted by foreign counterparts committed to increasing opportunities for young U.S. researchers to work in research facilities and with host mentors abroad. Fellows are supported to participate in eight-week research experiences at host laboratories in Australia, China, Japan (10 weeks), Korea, New Zealand, Singapore and Taiwan from June to August. The program provides a $5,000 summer stipend, round-trip airfare to the host location, living expenses abroad, and an introduction to the society, culture, language, and research environment of the host location. The **2012 application is now open and will close at 5:00 pm proposer’s local time on November 9, 2011.** Application instructions are available online at [www.nsfsi.org](http://www.nsfsi.org). For further information concerning benefits, eligibility, and tips on applying, applicants are encouraged to visit [www.nsf.gov/eapsi](http://www.nsf.gov/eapsi) or [www.nsfsi.org](http://www.nsfsi.org).

NSF recognizes the importance of enabling U.S. researchers and educators to advance their work through international collaborations and the value of ensuring that future generations of U.S. scientists and engineers gain professional experience beyond this nation's borders early in their careers. The program is intended for U.S. graduate students pursuing studies in fields supported by the National Science Foundation. Women, minorities, and persons with disabilities are strongly encouraged to apply for the EAPSI. Applicants must be enrolled in a research-oriented master's or PhD program and be U.S. citizens or U.S. permanent residents by the application deadline date. Students in combined bachelor/master degree programs must have matriculated from the undergraduate degree program by the application deadline date.

The first Summer Institutes began in Japan in 1990, and to date over 2,400 U.S. graduate students have participated in the program.

Should you have any questions, please contact the EAPSI Help Desk by email at eapsi@nsfsi.org or by phone at 1-866-501-2922.

**JOB OPENINGS:**

- **The Origins Laboratory of the Department of the Geophysical Sciences and Enrico Fermi Institute at the University of Chicago** seeks applicants for a postdoctoral researcher position in isotope geochemistry-cosmochemistry
- **The Keck Science Department,** which houses the biology, chemistry, and physics faculty for Claremont McKenna, Pitzer, and Scripps Colleges (three of the five undergraduate Claremont Colleges), seeks a Physical Geographer
- **Faculty Positions in Sedimentary Geology,** Geological Sciences, Indiana University, Bloomington
Tenure-Track Faculty Position in Sedimentary Geology/Low-Temperature Geochemistry - Iowa State University

GRINNELL COLLEGE - ENVIRONMENTAL STUDIES (ENVIRONMENTAL GEOCHEMISTRY) - TENURE-TRACK POSITION (START FALL, 2012).

Natural Resource Technology, Inc. (NRT) is seeking an entry-level candidate (0 to 2 years) with a BS/MS degree in environmental engineering, hydrogeology, or environmental science.

The Institute of Environmental Science and Technology (ICTA) at the Universitat Autònoma de Barcelona (UAB) invites applications for a Fellowship in Marine Palaeoclimatology of 16 Months for an Experienced Researcher (ER) at the Post-Doctoral Level.

The Faculty of Science at the University of Helsinki is announcing one open tenure-track position in GEODYNAMIC MODELLING at the Institute of Seismology under the Department of Geosciences and Geography.

The Geology Department at Southern Illinois University Carbondale invites applications for a postdoctoral fellowship in petrology.

Position Opening: Museum Specialist (Geology) -The Department of Mineral Sciences at the Museum of Natural History in Washington, D.C.

Position title: (Post Doc) Research Associate - North Carolina State University

JOB OPENINGS:

COSMOCHEMISTRY/GEOCHEMISTRY POSTDOCTORAL POSITION AVAILABLE
The Origins Laboratory of the Department of the Geophysical Sciences and Enrico Fermi Institute at the University of Chicago (http://geosci.uchicago.edu/~dauphas/OLwebsite/OLFrameset1.htm) seeks applicants for a postdoctoral researcher position in isotope geochemistry-cosmochemistry. Although different backgrounds will be considered, experience in clean laboratory procedures and multicollector inductively coupled plasma mass spectrometry (MC-ICPMS) techniques is especially desirable. The main themes that are being developed are (i) mass-dependent isotope variations for tracing geo-bio cycles and igneous processes, (ii) stable isotope anomalies for characterizing the heterogeneity of the nebula and identifying new presolar phases, and (iii) radiogenic isotopes for constraining early solar system chronology. Completion of the Ph.D. is required. Initial appointment is for one year, renewable up to 2 times contingent upon good progress. Applications must be received by November 1, 2011; applications received after this date may be considered if the position is not filled. A resume and the names of three references should be sent to Nicolas Dauphas (dauphas@uchicago.edu). The University of Chicago is an Affirmative Action/Equal Opportunity Employer.

The Keck Science Department, which houses the biology, chemistry, and physics faculty for Claremont McKenna, Pitzer, and Scripps Colleges (three of the five undergraduate Claremont Colleges), seeks a Physical Geographer who is committed to excellence in teaching and who will develop a vibrant research program that fully engages undergraduate students. The appointment will be made at the Assistant Professor level to begin July 2012. Areas of interest include but are not limited to natural hazards, global land-use, geomorphology/ climate interactions, and remote sensing. The new hire will be an integral participant in the Mellon Foundation-funded Claremont Colleges Intercollegiate Environmental Analysis Program (http://ea.pomona.edu/), which also includes faculty from Harvey Mudd and Pomona Colleges. Many Keck Science faculty actively participate in collaborative research projects with research groups at nearby colleges and universities, and such collaborations are welcomed for this position. Teaching responsibilities include participation in the introductory Environmental Science sequence, a course in natural resource geography, and an upper division course in the candidate's area of specialty. A Ph.D. and a record of scholarly publication are required. Postdoctoral experience is preferred.
Please apply online at https://webapps.cmc.edu/kecksci/faculty/ by uploading a cover letter, a curriculum vitae, a description of your proposed research, a statement of your proposed approach to teaching science in a liberal arts setting, and the names and e-mail addresses of three references. Inquiries regarding the position may be e-mailed to Professor Donald McFarlane at dmcfarlane@kecksci.claremont.edu. Additional information about the department may be found at www.kecksci.claremont.edu. Review of applications will begin October 17th, 2011, and the position will remain open until filled.

The Keck Science Department of Claremont McKenna, Pitzer, and Scripps Colleges is an equal opportunity employer. In a continuing effort to enrich its academic environment and provide equal educational and employment opportunities, the department actively encourage applications from women and members of historically under-represented social groups in higher education.

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Faculty Positions in Sedimentary Geology, Geological Sciences, Indiana University, Bloomington

The Department of Geological Sciences invites applications for one or more tenure-track/tenured faculty positions. We seek a candidate whose research in sedimentary geology complements one or more of our current strengths in sedimentology, geobiology, geochemistry, and tectonics to fill the Robert R. Shrock Endowed Position in Sedimentary Geology at the Assistant or Associate level. Qualified candidates must have a PhD in a field related to sedimentary geology and an established record of excellence in research and teaching at the graduate and undergraduate level. Readiness to teach courses in depositional environments, petroleum geology, or structural geology is an advantage. In the case of an exceptional pool of candidates, a second hire into the Boyce Chair, also with access to endowed research funds, may be possible. Review of applications will begin November 15, 2011 and continue until the position is filled. Indiana University is an equal opportunity/affirmative action employer, and encourages applications from women and minority candidates. Further details are available at http://geology.indiana.edu/department/sedsearch.html.

Please submit a letter of application, a current vita, and the names and addresses of three referees. All enquiries and applications should be addressed to:

Prof. David Polly,
Shrock Search Chair,
Department of Geological Sciences,
Indiana University,
Bloomington, IN 47405-1403

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Tenure-Track Faculty Position in Sedimentary Geology/Low-Temperature Geochemistry - Iowa State University

The Department of Geological and Atmospheric Sciences at Iowa State University invites applications for a tenure-track faculty position at the assistant professor level to begin August 2012. The position will be in one of two broad areas: sedimentary geology or low-temperature geochemistry, with particular emphasis placed on research relevant to paleoclimatology, environmental geochemistry, or contaminant hydrogeology. An essential requirement is the potential of applicants to establish a successful, externally funded research program. Ideally that program would complement existing strengths in the department, including climate modeling, paleoclimatology, glaciology, hydrogeology, geophysics, economic geology, tectonics, and geoscience education. We also encourage interactions with researchers and faculty in other units on campus, such as Agricultural and Biosystems Engineering; Agronomy; Chemistry; Civil, Construction and Environmental
Engineering; Ecology and Evolutionary Biology; Natural Resources Ecology and Management; the Iowa Water Center; the Leopold Center for Sustainable Agriculture; and the National Laboratory for Agriculture and the Environment. A commitment to excellence in teaching at the undergraduate and graduate levels is also essential. Information about the Department appears at: http://www.ge-at.iastate.edu/.

Candidates must hold a Ph.D. by the time of appointment. All applications must be submitted electronically at www.iastatejobs.com (search vacancy ID# 110650). Please be prepared to enter or attach a letter of application including concise teaching and research statements, curriculum vitae, and the names, addresses, e-mail addresses, and phone and fax numbers of at least three references.

The positions will remain open until filled. Full consideration will be given to those applications received by November 13, 2011. We encourage applications from minorities, women, veterans, and persons with disabilities. Iowa State University is an equal opportunity/affirmative action employer.

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GRINNELL COLLEGE - ENVIRONMENTAL STUDIES (ENVIRONMENTAL GEOCHEMISTRY) - TENURE-TRACK POSITION (START FALL, 2012).

GRINNELL COLLEGE. Tenure-track position in Environmental Studies (environmental geochemistry), starting Fall 2012. Assistant Professor (Ph.D., post-doctoral experience preferred); Associate Professor possible.

Grinnell College is a highly selective undergraduate liberal arts college. The College's curriculum is founded on a strong advising system and close student-faculty interaction, with few college-wide requirements beyond the completion of a major. The successful candidate will teach in the Environmental Studies Concentration and have the opportunity to contribute to other interdisciplinary concentrations (e.g., Policy Studies, Global Development Studies, Peace Studies). Preference will be given to candidates who can demonstrate the ability to relate environmental geochemistry to social issues. In consultation with the successful candidate, the College will assign a department of appointment (Chemistry or Biology). The teaching schedule of five courses over two semesters will include Earth systems science with lab (labs count as half a course), the senior seminar in environmental studies, new upper level courses in the person's areas of expertise, and one or more courses in the department of residence. Every few years one course will be Tutorial (a writing/critical thinking course for first-year students, oriented toward a special topic of the instructor's choice). Candidates should plan an active research program involving undergraduates. Start-up funds, excellent equipment, new and recently renovated facilities, support for student-faculty research, and a field station are available.

In letters of application, candidates should discuss their interest in developing as a teacher and scholar in an undergraduate, liberal-arts college that emphasizes close student-faculty interaction. They also should discuss what they can contribute to efforts to cultivate a wide diversity of people and perspectives, a core value of Grinnell College. To be assured of full consideration, all application materials should be received by October 1, 2011.

Please submit applications online by visiting our application website at https://jobs.grinnell.edu/. Candidates will need to upload a letter of application, curriculum vita, transcripts (copies are acceptable), statement of teaching philosophy, statement of research interests, and provide email addresses for three references. Questions about this search should be directed to the search chair, Professor Lee Sharpe, at EnvironmentalStudiesSearch@grinnell.edu or 641-269-3169. Grinnell College is an equal opportunity/affirmative action employer committed to attracting and retaining highly qualified individuals who collectively reflect the diversity of the nation. No applicant shall be discriminated against on the basis of race, national or ethnic origin, age, gender, sexual orientation, gender
identity and expression, marital status, religion, creed, or disability. For further information about Grinnell College, see our website at http://www.grinnell.edu.

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Natural Resource Technology, Inc. (NRT) is seeking an entry-level candidate (0 to 2 years) with a BS/MS degree in environmental engineering, hydrogeology, or environmental science. Our projects include investigation, remediation, and construction oversight at soil, groundwater, and sediment contamination sites; compliance and due diligence assessments; and environmental monitoring for clients such as power companies, industrial corporations, law firms, government, and industry research associations throughout the US. The successful candidate for this position will initially engage in collection and analysis of field data, construction/remediation oversight, and documentation. With experience, this candidate will assume responsibilities for proposals, project planning, and preparation of reports communicating NRT’s observations, evaluations, and conclusions. We routinely work in project teams, comprised of internal and external members, because our projects often transcend multiple engineering and scientific disciplines. This teaming structure requires strong oral and written communication skills as well as the agility to transition from extended field assignments to the office environment. An ideal candidate works well independently and within a team environment. Position: Environmental Engineer, Hydrogeologist, or Environmental Scientist
Position Location: Pewaukee, Wisconsin
Position Start: Fall 2011 or Winter 2012
Position Classification: Full-time Salary

Essential Position Abilities
• Appropriately apply scientific and engineering principles and concepts to area of specialization; able to draw solutions from education and formal training. Experience an asset, but not required.
• Ability to conduct and direct measurements and sample collection including documentation of field tasks, data tabulation, and report preparation.
• Knowledge of federal, state and local environmental regulations and programs is an asset.
• Ability to participate in field assignments requiring travel through the US, primarily in the Midwest.

Basic Qualifications
• BS/MS environmental engineering, hydrogeology, or environmental science related fields.
• 0 to 2 years environmental consulting experience. Wisconsin and/or Illinois regulatory experience a plus.
• OSHA HAZWOPER 40-hour certification and current 8-hour refresher training an asset, not required.

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The Institute of Environmental Science and Technology (ICTA) at the Universitat Autònoma de Barcelona (UAB) invites applications for

1 Fellowship in Marine Palaeoclimatology of 16 Months for an Experienced Researcher (ER) at the Post-Doctoral Level

The fellowship is sponsored by the 7th Framework Programme of the European Community as part of the Marie Curie Initial Training Network “GATEWAYS”.
The ER fellowship is directed towards reconstructing the Late Pleistocene ocean circulation of the Agulhas Current regime off southern Africa and its relation to the climate variability in the Southwest Indian Ocean and beyond. We seek a candidate with expertise in either of the fields of stable isotopes (δ18O, δ13C) and trace element geochemistry (Mg/Ca, Cd/Ca) or radiogenic isotopes. For further information about the GATEWAYS project visit www.gateways-itn.eu

Eligibility. EC Marie Curie ITN recruitment and mobility regulations apply. Eligible for the ER fellowship at the ICTA/UAB are:
• Spanish nationals who have legally resided and had their main activity outside Spain and the EU (i.e., in a non-associated third country) for at least three of the last four years immediately prior to the appointment;
• Non-Spanish nationals who have not resided or carried out their main activity in Spain for more than 12 months in the 3 years immediately prior to the appointment (short stays such as holidays are not taken into account);
• Fellows who at the time of their appointment are within the first 5 years (full time equivalent) of their career, starting from the date when the degree was obtained that was required to embark on their doctoral programme.

Application documents. Applicants who fulfil the above criteria submit by email a letter of intent stating their interest in the GATEWAYS project; their Curriculum Vitae showing, amongst others, their University education background; the names, addresses, email and telephone numbers of two referees who the search committee can contact for letters of reference.

Contact. GATEWAYS Project Office, Universitat Autònoma de Barcelona, Institut de Ciencia i Tecnologia Ambientals, Cerdanyola del Vallès, Spain
Email: pr.gateways.itn@uab.cat
Deadline for applications is the 25th of October 2011

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The Faculty of Science at the University of Helsinki is announcing one open tenure-track position in GEODYNAMIC MODELLING at the Institute of Seismology under the Department of Geosciences and Geography.

The Department of Geosciences and Geography is the leading Finnish institute for research and teaching in the field. In addition to carrying out research and teaching in geology and geography, the Department conducts seismological research and performs public duties related to seismology. The Department has an overall budget of over seven million euros and employs a staff of more than 100, including 14 professors. The research conducted at the Department is based on active participation in national and international research and observation networks. The strengths of the Department of Geosciences and Geography and the Institute of Seismology include multidisciplinarity, modern laboratories and sounding materials as well as outstanding scientific research.

The appointee is expected to conduct internationally outstanding research. In addition, he or she is expected to take advantage of national and international research funding opportunities, participate in teaching and doctoral education provided at the Department and actively promote interaction between academia and society at large. The appointee should preferably be focused on the modelling of physical processes that shape the Earth, particularly numerical modelling of the geodynamic processes of the crust. He or she should preferably assemble a research team to conduct the said modelling, and utilise the existing high quality geoscientific observation data of the Department in his or her work. A good international partnership network is a prerequisite for the successful completion of this task.

The appointee will be part of the ECO Research Community operating at the Department. The ECO research group consisting of researchers and postgraduate students in geology and geophysics studies the formation and development of continents, tectonic movement and related magmatic activity, earthquakes and the formation of mountains, which are key factors in the formation of mineral resources and guide the processes that shape the climate and biosphere. The teaching duties of the assistant professor will be related to the teaching of dynamic processes and their modelling at the Division of Geology.

The starting salary will be EUR 4,000-4,900 a month depending on the applicant's qualifications and work experience.

Applications must be accompanied by the following English-language enclosures: a CV, a list of publications, a report on experience and merits relevant to the assessment of the applicant's teaching skills as well as other documents that may be relevant to the selection; or, alternatively, an English-language academic portfolio containing the above-mentioned documents and information (for instructions, see http://www.helsinki.fi/facultyofscience/vacancies/portfolio.pdf). In addition, applicants are expected to enclose with their application an English-language report (max. two pages) on how they intend to develop research in the field, if appointed.
Upon request from the Faculty, applicants should prepare to submit ten publications of their own choice to be sent to assessors after the application period. The publications must be submitted by email as PDF attachments. Applications must be addressed to the Faculty of Science. The Faculty requests that the applications, together with the required enclosures, be sent to the Registry of the University of Helsinki by email: hykirjaamo@helsinki.fi. Applications can also be sent by post to the following address: Registry of the University of Helsinki, P.O. Box 33 (Yliopistonkatu 4), 00014 University of Helsinki, Finland. The closing date for applications is 12 October 2011 at 15.45 local Helsinki time. Further information about the position may be obtained from Professor Tapani Rämö, tapani.ramo@helsinki.fi, +358 9 191 50810, +358 40 526 0636.

The Geology Department at Southern Illinois University Carbondale invites applications for a postdoctoral fellowship in petrology. The successful candidate will work with Dr. Justin Filiberto in NASA-funded efforts, focusing on analytical and experimental studies of martian basalt degassing as the source of 'acid fog' and of halogens in the soil. These efforts focus on volatile elements (specifically halogens) in planetary magmas, Martian meteorites, terrestrial analogs, and experimental studies, starting with analyses by optical microscopy and electron microprobe. The candidate will be encouraged to design and conduct their own research in petrology. Applicants must hold a Ph.D. in geology or a related field or show that they will complete all degree requirements by the time of appointment. The applicant must specialize in petrology or geochemistry; experience with planetary materials and/or experimental equipment is recommended. The position would be for one year, with possible extension up to four years depending on performance and funding. Southern Illinois University Carbondale is a large, research-oriented institution situated in a pleasant small-town setting southeast of St. Louis. The Geology Department has a full-time faculty of 11 with about 70 undergraduate and 30 M.S. and Ph.D. students. For further information, please visit http://www.geology.siu.edu/.

Effective Date of Appointment: November 1, 2011. Application Deadline: Review of applications will begin immediately and continue until the position is filled. Application Procedure: Applicants should submit curriculum vitae, a statement of research interests, and the names and contacts of at least three referees to (email is preferred):

Dr. Justin Filiberto
Southern Illinois University Carbondale
Department of Geology, Mailcode 4324
1259 Lincoln Drive
Carbondale, Il 62901 Fax: 618-453-7393
SIUC is an Affirmative Action/Equal Opportunity employer that strives to enhance its ability to develop a diverse faculty and staff and to increase its potential to serve a diverse student population. All applications are welcomed and encouraged and will receive consideration.

Position Opening: Museum Specialist (Geology) --The Department of Mineral Sciences at the Museum of Natural History in Washington, D.C. has a position opening in our analytical laboratories. We are seeking a person to assist a small group of full time researchers engaged in the study of meteorites, mineralogy, volcanology, igneous and metamorphic petrology, experimental petrology and biomineralogy. The duties of this position include sample preparation, fabrication of custom-designed parts and sample holders and assistance in the Analytical Scanning Electron Microscope and Electron Microprobe Laboratories. Preparation of thin sections and polished mounts of a wide variety of materials including Antarctic meteorites, rocks and experimental products is an essential part of this position. The position also includes basic machining and fabrication of parts from a variety of materials for use in the analytical and experimental laboratories. In
addition, this person will serve in a backup role in our electron beam laboratories assisting users and troubleshooting hardware and software issues. We are looking for self-motivated applicants with a background in geologic sciences and the ability to work well in an exciting workplace with many challenges. All applicants must apply online at the USAJOBS website. No other applications can be accepted.

To apply please go to (open to the public):
http://jobview.usajobs.gov/GetJob.aspx?JobID=102153641&JobTitle=Museum+Specialist+(Geology)&brd=3876&vw=b&FedEmp=N&FedPub=Y&x=78&y=15&jbf574=SM03&AVSDM=2011-09-02+00%3a03%3a00
Or for persons with status (current or former Federal employees):
http://jobview.usajobs.gov/GetJob.aspx?JobID=102153593&JobTitle=Museum+Specialist+(Geology)&brd=3876&vw=b&FedEmp=Y&FedPub=Y&x=78&y=15&jbf574=SM03&pg=2&re=3&AVSDM=2011-09-02+00%3a03%3a00

Visit our website for more information about us: http://mineralsciences.si.edu/ or contact Tim Rose (roset@si.edu), Analytical Laboratories Manager

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Position title: (Post Doc) Research Associate - North Carolina State University

Essential responsibilities: Seeking an exceptional postdoctoral associate to conduct independent research in support of their core study areas of biomineralization and bioweathering. These topics include the interactions of microbial exudates (siderophores) with mineral surfaces and metals, and/or the microbially induced formation of minerals. Activities may include conducting traditional geochemical experiments, molecular modeling, electron and force microscopies, and/or cutting-edge spectroscopic techniques to better understand the fundamental mechanisms of biogeochemical processes. Opportunities exist to interact closely with a group of distinguished intramural and extramural collaborators. Related activities include laboratory work; supervising graduate students; data analysis; report, manuscript, and proposal preparation; and presentation of research at local, regional, and national meetings. More information about the soil biogeochemistry laboratory group can be found at the webpage: http://www4.ncsu.edu/~owduckwo/

Qualifications: A Ph.D. in chemistry, geochemistry, environmental engineering, geology, soil science, or a related discipline is required. The successful candidate should have the demonstrated ability to design experiments and conduct independent chemical research. Excellent written and verbal communication skills are essential. A strong publication record is highly desirable.

For more information and informal consideration: Please send a CV and cover letter to Owen Duckworth (owen_duckworth@ncsu.edu). Application materials will be accepted until October 15, 2011 or until a suitable candidate is found. The formal application procedure will be posted on the North Carolina State University website soon.

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