

# ***GEOBULLETIN***

***FEBRUARY 15, 2008***

**LECTURE SCHEDULE** ---- All lectures (unless otherwise noted) are held on Fridays at 3:30 PM in AB20 (Laudon Lecture Hall). Coffee & cookies are served in the lobby starting at 3:15 PM. No more lectures scheduled for this semester.

## **SPRING 2008 WEEKS LECTURE SCHEDULE**

**February 15** ---- Linda Hinnov ---- The Johns Hopkins University

***GENERAL TALK: February 15, 2008 – Friday 3:30 PM – Room 140 – Weeks Hall***

## **ASSEMBLING THE ASTRONOMICAL TIME SCALE FOR EARTH HISTORY**

**February 22** ---- David Wesolowski ----- ORNL

## ***"LINKING MOLECULAR AND MACROSCOPIC PROPERTIES OF THE MINERAL-SOLUTION INTERFACE"***

This talk will summarize the efforts of a large, multi-disciplinary team applying advanced chemical imaging, computational and experimental approaches to studies of the interface between crystalline oxides and aqueous electrolytes. The effects of solution temperature and composition, and mineral surface structure on the molecular-level features of this complex nanoscale regime will be discussed, and linked with macroscopic manifestations of interfacial phenomena, such as surface charge, ion adsorption and transport of charged particles.

**February 29** ---- Gene Hunt -----Smithsonian -----

**March 7** ----- Francesca Smith ----- Northwestern ----

**March 28** ----- **Hold for AAPG**

**April 4** ----- Martin Saar ----- University of Minnesota -----

**April 11** ----- Laurie Brown ---- University of Massachusetts ----

**April 18** ----- Christopher Kim – Chapman University

**April 25** ---- Board of Visitors' Meeting ---- date reserved ----

**May 2** ----- Clark Johnson – University of Wisconsin

**May 9** ---- Sean C. Solomon ----- DTM/Carnegie Institution of Washington -----

## **FALL 2008 WEEKS LECTURE SCHEDULE**

September 12 ----- Steve Holland --- University of Georgia

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## **POSITION OPENINGS:**

### **LAMONT-DOHERTY EARTH OBSERVATORY OF COLUMBIA UNIVERSITY REU SUMMER INTERN PROGRAM**

Sponsored by the Columbia University Department of Earth and Environmental Sciences and the Lamont-Doherty Earth Observatory of Columbia University

Theme: Analyzing Global Databases

Program dates: June 4th - August 6th, 2008.

Now accepting applications for 2008 Summer Programs.

Application deadline is March 1, 2008

Visit the Department of Earth and Environmental Sciences website for detailed information.

<http://eesc.columbia.edu>

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### **LABORATORY TECHNICIAN. RADIOCARBON DATING LABORATORY**

A permanent full-time position is available in the Rafter Radiocarbon Lab for a technician to provide analytical support in the laboratory. The work involves the physical and chemical preparation of samples submitted for radiocarbon dating. The successful candidate for this job will have

- A tertiary qualification, preferably in chemistry or geochemistry;
- Practical knowledge of and experience in laboratory equipment and procedures, and in solving technical problems;
- Demonstrated ability to work reliably and to adhere to strict procedures;
- Meticulous attention to detail, including clear and accurate record keeping;
- Good communication and computer skills; familiarity with PC software
- The ability to work well in a team and to cooperate with colleagues in helping the laboratory to fulfil its functions in research and commercial activities.

The Rafter Radiocarbon Lab is part of the National Isotope Centre, a division of GNS Science, the premier source of applied isotope science capability in New Zealand. GNS Science is a Crown Research Institute (CRI) owned by the New Zealand Government and is New Zealand's largest geological science organisation. It provides geological and geophysical research and consultancy services to government and industry within New Zealand and overseas.

Further information on GNS, this position, and an application form can be obtained from our website <http://www.gns.cri.nz/news/vacancies/index.html> To apply, please forward a covering letter, curriculum vitae and a completed application form to Human Resources, or email to [careers@gns.cri.nz](mailto:careers@gns.cri.nz)



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## *FEBRUARY 15, 2008*

Human Resources, GNS Science  
PO Box 30 368  
Lower Hutt 5040  
New Zealand  
T +64 4 570 1444 F +64 4 570 4748

The closing date for applications is Friday 29, February 2008

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### **POSTDOCTORAL ASSOCIATE IN SEISMOLOGY/CRUSTAL DEFORMATION STUDIES OF THE YELLOWSTONE**

**The University of Utah** invites applications for a postdoctoral associate in seismology and/or geodetic imaging and related dynamics of the Yellowstone hotspot and its active magmatic-tectonic system. We are interested in a scientist to conduct research on such topics as earthquake source properties, integration of EarthScope GPS and strainmeter data with earthquakes and volcanic manifestations, volcano-fault stress interactions, deformation modeling, geodynamics, etc. A rich source of data is available from the University of Utah Yellowstone seismic network as well data from the EarthScope PBO GPS and borehole strainmeter arrays and the USArray seismic network (see [www.uusatrg.utah.edu](http://www.uusatrg.utah.edu) and [www.seis.utah.edu](http://www.seis.utah.edu)).

Interaction with students, faculty and with the Yellowstone Volcano Observatory (a partnership of the Univ. of Utah, the USGS, and Yellowstone National Park) as well as participation in earthquake response and interpretation needs is expected. Computing experience with the Linux/ Unix operating system is required.

Applicants must have a Ph.D. in geophysics or closely related field. Appointment will be for one-year beginning summer 2008 or negotiable, with continuation contingent upon performance and funding. Applicants should email Robert B. Smith, [rbsmith@earth.utah.edu](mailto:rbsmith@earth.utah.edu)):

- 1) A letter of Application including a statement of research interests and how the applicant is qualified to conduct the above research,
- 2) A current curriculum vitae, and
- 3) Names and email addresses of three persons who can provide recommendations for the candidate. Applications will accept until the position is filled. The University of Utah is an equal opportunity Employer.

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Assistant Professorship in Analytical Geochemistry,  
Geological Sciences, Indiana University, Bloomington

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## **THE DEPARTMENT OF GEOLOGICAL SCIENCES AT INDIANA UNIVERSITY,**

**BLOOMINGTON,** invites applications for a tenure-track faculty appointment at the Assistant Professor level specializing in analytical geochemistry. We seek an individual whose research centers on the use of multi-collector ICPMS to address fundamental questions in the geosciences. Preference will be given to candidates whose interests complement existing departmental expertise in areas of isotopic and molecular geochemistry, hydrogeology and mineralogy, and strengthen and augment current research programs in studies of the evolution and history of Earth and/or planetary systems. Our instrumental laboratories for biogeochemistry and analytical and environmental geochemistry will move to a new multidisciplinary science building scheduled for completion in June 2009,

which has space designated for an ICP-MS facility. Review of applications will begin on March 1, 2008 and will continue until a suitable candidate is recruited.

All enquiries and applications should be addressed to

Simon Brassell, Professor and Chair, Department of Geological Sciences,

Indiana University, Bloomington, IN 47405-1403

(simon@indiana.edu).

Please submit a letter of application, and a complete vita, with contact information and the names of at least three referees. *Indiana University is an equal opportunity/affirmative action employer,* and encourages applications from women and minority candidates.

Edward M. Ripley

Professor of Geochemistry

Indiana University

1005 East Tenth Street

Bloomington, IN 47405

Tel.:812-855-1196

Fax.:812-8557961

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## **SUMMER UNDERGRADUATE RESEARCH 2008**

Study the Earth's interior through Independent Research using state of the art facilities with Mineral Physics Institute

Program

- Ten week at Stony Brook University working on projects in High-pressure research or Earth Sciences, June – August, 2008
- Design experiments, collect and interpret results
- Present finding to other Scientists



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## *FEBRUARY 15, 2008*

### Eligibility

- Undergraduate majoring in any of the physical sciences or mathematics
- 60 academic credits completed
- Interest in research career in Earth Sciences
- U.S. citizens or permanent resident

### To Apply

Go to [www.mpi.stonybrook.edu/summerscholars](http://www.mpi.stonybrook.edu/summerscholars)

Print and complete the application form

Include a personal statement, official transcript and two letters of recommendation

### Mail to

MPI REU Summer Program  
Mineral Physics Institute  
Stony Brook University  
Stony Brook, NY 11794 -2100

Evaluations begin upon receipt of application, Selections begin March 27, 2008

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**GEOTIMES**, the monthly news magazine of the earth sciences, is now accepting applications for its 2008 summer internship. We are looking for individuals, preferably with a geosciences background, who are interested in science writing and journalism. Based at the American Geological Institute in Alexandria, Va., the internship is 12 weeks long and includes a \$3,500 stipend. Please pass the attached flyer and information along to your students. The announcement is also posted on our Web site at

<http://www.geotimes.org/>

We'd appreciate your help in getting the word out about this Opportunity. Please contact me with any questions.

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Meg Sever

Managing Editor, Geotimes

American Geological Institute

email: [kms@agiweb.org](mailto:kms@agiweb.org)

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**INSTRUMENTATION RESEARCH SCIENTIST**

# ***GEOBULLETIN***

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## **THE GEMOLOGICAL INSTITUTE OF AMERICA, LOCATED IN CARLSBAD,**

**CALIF.**, seeks an experienced Research Scientist to develop optical spectroscopic instruments, and to plan, organize, and conduct research for the purpose of resolving industry issues and developing intellectual properties for the educational mission of the Institute. Requirements: Ph.D or M.S. in physics, chemistry, material science, geology, or similar field; strong background in spectroscopy, developing optical spectrometers and related applications; computer skills.

Knowledge of optical parts from the Ocean Optics and Avantes is a plus.

Primary duties include:

- Develops optical spectroscopic instrumentation (e.g., absorption and luminescence spectrometers in the UV-Vis-IR region); assists in other instrument maintenance.
- Contributes to developing applications where these spectrometers are used for studying and documenting gem materials (diamond, ruby, sapphire, pearls, and others)
- Assists in organizing research efforts to develop new identification criteria for natural, treated, and synthetic diamonds / colored stones / pearls; collects analytical data on gem materials and contributes to production
- Leads and/or contributes to research projects to include, but not limited to, sample preparation, data collection protocols, analysis, interpretation, and publication; input into annual research plans, department budgets, and status reports.
- Provides research presentations and publications to other GIA departments and to the general jewelry industry.

Please submit your resume and salary requirements by e-mail to [recruitergtl@gia.edu](mailto:recruitergtl@gia.edu). To learn more about GIA, visit our website at [www.gia.edu](http://www.gia.edu).

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## **ONE-YEAR FACULTY POSITION IN GEOLOGY (GLOBAL CHANGE/ENVIRONMENTAL GEOCHEMISTRY)**

The Department of Geology at Bates College invites applications for a one-year sabbatical replacement position. The successful candidate must demonstrate potential for teaching excellence in a vigorous undergraduate program, welcome the opportunity for close interaction with serious students and share with other members of the department responsibility for general-education courses. The position is open to candidates whose work lies within the broad fields of environmental geochemistry and/or global change. Relevant instrumentation within the department includes an IRMS interfaced to an EA and GC, ICP-OES, and SEM-EDS; supporting facilities include a staff-supported computation and imaging center. Completion, or near completion, of a PhD in the earth sciences is required.

Review of applications begins March 15 and will continue until the position is filled. Please mail a letter of application, curriculum vitae, brief statement of teaching and research interests, copies of graduate and undergraduate transcripts and three letters of recommendation to:



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Geology Search Committee R2489 c/o Bates College Academic Services  
2 Andrews Rd., 7 Lane Hall  
Lewiston, ME 04240

Bates College values a diverse college community and seeks to assure Equal Opportunity through a continuing and effective Affirmative Action program.

Posted: Feb. 11, 2008

Review Date: March 15, 2008

<http://www.bates.edu/x173353.xml>

\*\*\*\*\* **HAVE A TERRIFIC WEEKEND!** \*\*\*\*\*