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 – Spring 2012*

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<td>Friday, Jan 27, 2012:</td>
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**WEEKS LECTURE**

Dr. Peter Wilf
Paleontological Society Distinguished Lecturer
Associate Professor, Penn State University
Dr. Peter Wilf, Associate Professor and Paleontological Society Distinguished Lecturer, has collected extensively from prolific fossil beds derived from ancient volcanic lakes in Patagonia, Argentina. The main sites date to 52- and 47-million years, a globally warm time interval, and they are located at the ancient biological crossroads of South America, Antarctica, and Australia, which all remained connected at the time.

The discoveries include hundreds of plant species along with insects, frogs, and fish. Strikingly, a majority of the plants' living relatives are large rainforest trees found not in South America but in Australasia, including the mountain rainforests of New Guinea and nearby tropical islands that are now more than 8,000 miles from the fossil sites. Dr. Wilf will discuss these findings and what they can tell us about ancient flora and climate change.

Friday, Feb 10, 2012:
Greg Waite, Michigan Tech (Host: DeMets)

Friday, Feb 17, 2012:
Margaret Fraiser, UW-Milwaukee (Host: Peters)

Friday, Feb 24, 2012:
Emile Okal, Northwestern University (Host: Tobin)

Friday, Mar 9, 2012:
Aradhna Tripati, UCLA (Host: Carlson)

Friday, Mar 16, 2012:
Matt Hurtgen, Northwestern (Host: Peters)
Friday, Mar 25, 2012:
Marin Clark, Univ of Michigan (Host: Goodwin)

Friday, Apr 13, 2012:
BOV

Friday, Apr 20, 2012:
Steve Holbrook, Univ of Wyoming (Host: Tobin)

Friday, Apr 27, 2012:
Tim Masterlark, U. Alabama (Host: Feigl)

Friday, May 4, 2012:
Carl Jacobson, IOWA State (Host: Goodwin)

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Student Looking for a job:
Kyle Erdmann (Kderdmann@wisc.edu) - 414-614-1678
Looking for Work
- Lab Assistant
- Research Assistant
- Field Assistant
- Other

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JOB OPENINGS:

- Western Washington University invites applications for a tenure-track Assistant Professor whose interdisciplinary research and teaching specialties connect tectonics/structural geology and surface processes.
- Metrologist position available in GIA Laboratory - New York City
- Faculty Search: Assistant/Associate Professor of Geoscience & Chemistry, University of Connecticut
- Biogeochemist/Environmental Geologist - Lakehead University, Thunder Bay Campus
The Department of Geological Sciences at Indiana University invites applications for a full-time postdoctoral research position aligned with a NASA-funded project.

Baldwin-Wallace College - The Department of Biology & Geology is seeking an individual with a commitment to excellence in undergraduate teaching, student advising and directing undergraduate research to fill a tenure-track position in geology.

The Seismic Research Centre of The University of the West Indies invites applications for the position of Research Fellow (Ground Deformation Specialist) at the Montserrat Volcano Observatory.

The IRIS Undergraduate Internship Program (http://www.iris.edu/internship) is NOW accepting applications for our 2012 internship class.

The Department of Earth Sciences at Carleton University invites applications for a preliminary (tenure-track) appointment in isotope geochemistry.

The Peter A. Rock Thermochemistry Laboratory at UC Davis has possible openings for postdocs and Ph.D. students to work on experimental calorimetric studies relevant to the fundamental issues in CO2 sequestration.

The Incorporated Research Institutions for Seismology (IRIS) Program for Array Seismic Studies of the Continental Lithosphere (PASSCAL) has an opening for a 2012 summer student intern at the IRIS PASSCAL Instrument Center at New Mexico Tech.

**JOB OPENINGS:**

Western Washington University invites applications for a tenure-track Assistant Professor whose interdisciplinary research and teaching specialties connect tectonics/structural geology and surface processes. The appointment will begin effective September 16, 2012. The ideal candidate will enhance our existing strengths in field geology, geomorphology, geophysics, and tectonics, and contribute to the development of emerging departmental directions in engineering geology and geohazards research. Some examples of desirable research directions include influences of tectonic processes on landform evolution, rock/soil mechanics, or surficial deformation/seismic hazards associated with active plate margins. Candidates must have a PhD in an appropriate Earth Science field at the time of appointment; teaching/research specialty in tectonics + surface processes; ability to teach Structural Geology, Introduction to Geology, and Field-based courses (such as a portion of Field Geology or a section of a field-taught Structure course); ability to develop high-quality undergraduate teaching program; ability to establish externally-supported research program; ability to involve students in research; ability to contribute to graduate (MS) degree program; and excellent understanding of fundamental physical principles and processes and a demonstrated ability to apply that understanding in field-based and quantitative ways to important problems in the Earth sciences. Preferred qualifications include post-doctoral experience; college-level teaching experience; ability to teach GIS, Engineering Geology, or Geophysics/Geodynamics; and ability to work with a diverse student body. Interested candidates must apply online. To see full position description and log in to WWU's Electronic Application System for Employment (EASE), please go to https://jobs.wwu.edu/JobPostingsBrowse.aspx?CatID=85. Applications need to include a cover letter outlining your teaching and research experience and accomplishments with specific reference made to the required and preferred qualifications described above. The application should also include a C.V., graduate school transcripts, statements describing teaching and research philosophy and effectiveness, as well as goals and plans for teaching and research at WWU. The names and contact information for letters of reference from four persons familiar with the candidate’s research and teaching must be provided; one of these references must be from outside the applicant’s current institution. Review of all application materials will begin on Feb 17, 2012; position is open until filled. Questions regarding this position should be directed to the search committee chair, Elizabeth Schermer (schermer@geol.wwu.edu) or the Geology Department chair, Bernie Housen.
Metrologist position available in GIA Laboratory - New York City

GIA Laboratory in New York invites applications for a metrologist position. The laboratory seeks an individual with suitable technical background to implement, test, train, maintain, and to monitor the performance of equipment and instrument for measurement of all types of gem stones. Major responsibilities include non-contact dimension and angle measurement, color measurement, gem stone fluorescence measurement, as well as maintenance of other equipment such as optical microscopes. Other responsibilities may also be assigned.

A B.S. or M.S. in materials science, geology, physics, chemistry, or a related field is preferred.

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 GIA please visit our website at http://www.gia.edu. GIA is an Equal Opportunity Employer.

Faculty Search: Assistant/Associate Professor of Geoscience & Chemistry, University of Connecticut

The Center for Integrative Geosciences and the Department of Chemistry at The University of Connecticut, Storrs, invite applications for a joint tenure-track Assistant Professor appointment to begin August 2012. Appointments at the Associate Professor level will be considered for extraordinarily well-qualified candidates. We seek candidates who combine expertise in solid earth materials, low-temperature geochemistry, and earth-surface processes. Possible interests include, but are not limited to, mineral-fluid interactions (e.g., applications in hydrogeology, geochemical cycles) and geochemistry (e.g., applications in isotope geochemistry, geochronology, paleoclimatology).

Minimum Qualifications: A PhD in Geoscience or a related field; capacity to incorporate a course on Earth Materials, including mineralogy and petrology, into an interdisciplinary, undergraduate Geoscience curriculum; demonstrated record and vision for excellence in research and publication. Equivalent foreign degrees are acceptable.

Preferred Qualifications: Capacity to teach in the Environmental Chemistry program; research interests complementing and bridging existing programs in Geosciences and Chemistry, including low-temperature geochemistry and earth-surface processes; post-graduate research experience; demonstrated excellence in teaching; demonstrated ability to contribute through research, teaching, and/or public engagement to the diversity and excellence of the learning experience.

Appointment Terms: This is a full-time, 9-month appointment. Salary is competitive based on experience and qualifications. The successful candidate's primary academic appointment will be at the Storrs campus with the possibility of work at UConn's regional campuses.
To Apply: Please submit a curriculum vitae, letter of application, statement of research and teaching interests using Husky Hire (www.jobs.uconn.edu). In addition, please arrange for three confidential letters of recommendation to be sent to Mrs. Abigail Hastillo, University of Connecticut, Center for Integrative Geosciences, 354 Mansfield Road U-2045, Storrs, CT 06269-2045 or to geology@uconn.edu. Screening of applications will begin February 15, 2012 and continue until the position is filled. Please include the search number with all correspondence. The University of Connecticut encourages minorities, women, and people with disabilities to apply for this position.

This job posting is scheduled to close on 2/26/2012. The University of Connecticut is an EEO/AA employer.

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Biogeochemist/Environmental Geologist - Lakehead University, Thunder Bay Campus

Lakehead University, Thunder Bay Campus, invites applications for a tenure-track appointment in Geology at a rank commensurate with experience and qualifications. The appointment will commence on August 1, 2011.

All candidates will have a completed (or nearly completed) Ph.D. in Geology or a closely related field. The candidate will have a demonstrated strength in teaching and a record of research in the area of biogeochemistry, hydrology or environmental geology.

The successful applicant will contribute to Department offerings at both the undergraduate and graduate levels. These might include existing courses in hydrology, water resource science and environmental geology, as well as new courses in the applicant's area of expertise. An ability and willingness to teach courses outside of the main area of interest will be considered an asset. The successful applicant will also be expected to supervise honours theses and graduate students. The applicant is expected to conduct an active research program and to seek external financial support for this research.

The university is in the process of developing a Mining and Mineral Exploration Centre of Excellence and Innovation. The successful candidate will be expected to contribute to this initiative. The successful candidate may also be expected to apply for an Associate Industrial Research Chair under NSERC (see http://www.nserc-crsng.gc.ca/) within their first two years of appointment.

For further information, please contact Dr. Stephen Kissin, Chair of the Department of Geology, at (807) 343-8220 or stephen.kissin@lakeheadu.ca. Detailed information on our undergraduate and graduate programs is available at http://geology.lakeheadu.ca/.

Review of applications will begin on March 1, 2012 and continue until the position is filled. Applicants should submit a letter of interest, curriculum vitae, evidence of teaching effectiveness (such as a statement of teaching philosophy, teaching evaluations, course outlines), sample publications, and contact information for three referees to:

Dr. Rodney Hanley, Vice-President (Academic) and Provost Lakehead University
955 Oliver Road
Thunder Bay, ON P7B 5E1
Email: v pactademic@lakeheadu.ca,
Fax: (807) 343-8075

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A completed Confirmation of Immigration/Citizenship Status should accompany your package. This form is available on our website at http://hr.lakeheadu.ca/pdf/immig.pdf.

Lakehead University is an equal opportunity employer.

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Baldwin-Wallace College -The Department of Biology & Geology is seeking an individual with a commitment to excellence in undergraduate teaching, student advising and directing undergraduate research to fill a tenure-track position in geology that will start August 2012. The College would like to make this position visible to applicants from a wide variety of backgrounds and our hope is that you will help us identify potential candidates for the position. The position announcement will be available through Science Online, The Chronicle of Higher Education, a number of other venues and the College's website (http://www.bw.edu/resources/hr/jobs/).

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The Department of Geological Sciences at Indiana University invites applications for a full-time postdoctoral research position aligned with a NASA-funded project entitled "Shallow-Borehole Array for Measuring Greenland Emission of Trace Gases as an Analogue for Methane on Mars." We seek an individual with demonstrated expertise in stable isotope geochemistry and geomicrobiology who is interested in isotope systematics associated with methane cycling in permafrost environments. The Stable Isotope Research Facility at Indiana University (http://geology.indiana.edu/biogeochemistry/index.html) includes several gas-source mass spectrometers and a Nu Plasma II multi-collector ICP-MS, housed in a new 56,000 sq ft multidisciplinary research facility on the Bloomington campus. The initial appointment will be for one year, with the possibility of annual renewal for two additional years. Applicants must have completed a PhD in a relevant field at the time of appointment. Salary will be commensurate with appointment rank and experience. Please submit your application, including a full CV, a statement of research experience and research goals, and contact information for three references, to Professor Lisa Pratt (pratl@indiana.edu) or Professor Jeff White (whitej@indiana.edu) Department of Geological Sciences, 1001 E Tenth Street, Bloomington, IN 47401. Review of applications will begin February 15, 2012 and continue until the position is filled. Preferred start date is April 1, 2012, but is negotiable. Indiana University is an Equal Opportunity/Affirmative Action Employer, Educator and Contractor, M/F/D and strongly committed to achieving excellence through cultural diversity. The university actively encourages applications and nominations of women, persons of color, applicants with disabilities and members of other underrepresented groups.

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The Seismic Research Centre of The University of the West Indies invites applications for the position of Research Fellow (Ground Deformation Specialist) at the Montserrat Volcano Observatory. The post is offered for one year, in the first instance, with prospects for extension.

Applicants must have a PhD in Earth Sciences or a related field at the time of appointment. The candidate should possess strong experience in geodesy. Evidence of strong mathematical/numerical skills is also essential. Experience in the use of volcano monitoring techniques and residential experience at a volcano observatory is highly desirable. In addition, experience in the use of InSAR would be an advantage.

The successful candidate will be an essential member of the team monitoring the ongoing eruption of the Soufrière Hills Volcano in Montserrat, with specific responsibility for undertaking monitoring and research in ground deformation at the MVO.
Application forms are available at: http://sta.uwi.edu/jobs/

Applicants should supply (a) a curriculum vitae (b) a statement of past achievement and future research interests and goals and (c) postage addresses, phone numbers, and email addresses of at least three references to:

The Campus Registrar, The University of the West Indies, St. Augustine, Trinidad, Trinidad & Tobago. Email: appointments@sta.uwi.edu and copied to Richard Robertson, Seismic Research Centre, The University of the West Indies, St. Augustine, Trinidad, Trinidad & Tobago. Email: richie.robertson@uwiseismic.com

To receive full consideration, all materials must be received by 28 February, 2012. Intended starting date is 1 June 2012.

Applicants should note that the Montserrat Volcano Observatory (MVO) is currently jointly managed by the UWI Seismic Research Centre (SRC) and the Institut de Physique du Globe de Paris (IPGP). This means that the Caribbean’s only currently erupting volcano is under the watch of regional scientists and provides significant opportunities for advancing geoscience research in the region.

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The IRIS Undergraduate Internship Program (http://www.iris.edu/internship) is NOW accepting applications for our 2012 internship class. The deadline for students to apply is February 1, 2012.

As faculty, YOU are one of the primary way students first learn about the opportunity. To help you announce/invite student to the program we have assembled some useful resources including:
- Text to copy and paste for an email broadcast!
- A video clip and/or slideshow to show at the end of your next lecture!
- A flyer to read an take to and hand to student that you think has great potential!
All are available here.... http://www.iris.edu/hq/internship/about#announce

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The Department of Earth Sciences at Carleton University invites applications for a preliminary (tenure-track) appointment in isotope geochemistry at the rank of Assistant Professor beginning on July 1, 2012.

Applicants must have a Ph.D. in Earth Sciences, or be in the final stages of obtaining their Ph.D., have demonstrated excellence in teaching, research and scholarship, as reflected in publications. The successful candidate will develop an externally-funded, high quality research program; will be committed to effective teaching at the undergraduate and graduate level; and will contribute effectively to the academic life of the Department. Proficiency in English is a requirement.

The Department is particularly interested in candidates with demonstrated expertise, experience and research interests in the field of elemental and isotope geochemistry, who have expertise with TIMS, MC-ICP-MS, or LA-ICP-MS instruments, and who also are engaged in the development of new techniques and innovative application of isotopic systems.

Further information on the Department can be obtained at www.earthsci.carleton.ca and http://iggrc.carleton.ca
Please send application to: Chair, Department of Earth Sciences, Carleton University, 1125 Colonel By Drive, Ottawa, Ontario, K1S 5B6. Fax: 613-520-5613. Email: chair@earthsci.carleton.ca.

Applications should include a curriculum vitae, a cover letter, a teaching dossier, a statement outlining current and future research interests, and the names and addresses (including e-mail addresses) of three referees.

The deadline for applications is March 15, 2012. Canadians and permanent residents will be given priority.

This position is subject to budgetary approval.

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As part of the Dept. of Energy's Energy Frontier Research Center "Nanoscale Controls on Geologic CO2", the Peter A. Rock Thermochemistry Laboratory at UC Davis has possible openings for postdocs and Ph.D. students to work on experimental calorimetric studies relevant to the fundamental issues in CO2 sequestration. This includes development of calorimetric methodology in the supercritical CO2 and CO2/H2O environment, stability of various carbonate phases, and modeling of phase equilibria. Experience in experimental techniques at high pressure and in thermodynamic calculations, as well as a strong geochemistry background are highly desirable. Please contact Prof. A. Navrotsky (anavrotsky@ucdavis.edu), preferably sending a CV, for further info.

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The Incorporated Research Institutions for Seismology (IRIS) Program for Array Seismic Studies of the Continental Lithosphere (PASSCAL) has an opening for a 2012 summer student intern at the IRIS PASSCAL Instrument Center at New Mexico Tech. The duration of the internship is flexible (up to three months). If scheduling allows, the intern will also take part in the late May IRIS Education and Outreach Orientation Week at New Mexico Tech (www.iris.edu/hq/internship/about/orientation) in association with the IRIS Summer Undergraduate Internship program. We seek an advanced undergraduate or graduate student with seismic experiment design, field methods, seismograph electronics, and data processing interests. For general information, please visit www.passcal.nmt.edu, or contact PASSCAL Instrument Center Director Bruce Beaudoin (575-835-5070; bruce@passcal.nmt.edu). The internship includes a weekly stipend, living expenses, round-trip travel funds to Socorro, NM, and tuition support to cover NMT summer registration as a special graduate student. To apply, send a letter summarizing interests, college transcripts, and at least one appropriate letter of recommendation to: PASSCAL Summer Intern Committee, c/o Bruce Beaudoin, IRIS PASSCAL Instrument Center, New Mexico Tech, 100 East Rd., Socorro, NM 87801. For full consideration, materials must be received by April 6, 2012.

Details: The internship is designed for a student with a background in Earth Science who is interested in seismic field methods, electronics, and data processing. The IRIS/PASSCAL Instrument Center, funded by the National Science Foundation via the IRIS consortium, maintains and helps deploy large numbers portable seismographs (Reftek and Quanterra), broadband sensors (Streckheisen, Guralp, Nanometrics), portable telemetered networks, and high-resolution cable reflection systems (Geometrics) that are heavily utilized by the U.S. research community and international partners. The successful candidate will learn about the technology and maintenance of state-of-the-art seismic equipment, potentially assist in deployments in the US and overseas, and participate in seismic data processing under the direction of the Instrument Center Director and Staff. The intern will register as a special student for 6 credits of Directed Study (Geophysics 590) under the advisorship of PASSCAL Instrument Center P.I. and NMT Geophysics Professor Richard Aster. At least one week prior to the conclusion of the internship, the intern will submit a report not to exceed 15 pages summarizing tasks performed and
observations/suggestions pertinent to PASSCAL program operations and future Education and Outreach efforts. The intern will be given a personal allowance of $575/week for tuition, fees, books, and living expenses. Transportation costs to and from New Mexico Tech will be reimbursed up to $3,500, as will room and board costs up to $1700.

For further information, please contact Bruce Beaudoin (see above) or Rick Aster (aster@ees.nmt.edu; 575-835-5924).

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