



SEOEN NEWSGRAM

February 4, 2012

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Upcoming Seminars:

Geography Speaker: **Dr. Doug Stow**, Department of Geography (San Diego State University)
 Title: "Geographic Object-based Image Change Analysis: Theory and Geographic Applications."
 Location: The University Center for the Environment, Room 2011
 Location: Callcott Bldg., Room 2011

From the Provost:

M.O.S.A.I.C. SYMPOSIUM PROPOSALS

Faculty is invited to submit a proposal for a breakout session at the 2nd annual M.O.S.A.I.C. Symposium (Meaningful Opportunities for Students to Achieve International Competencies) taking place on March 24, 2012. The goal of M.O.S.A.I.C. is to promote diversity in international learning and expose students to opportunities and topics which are important to the internationalization of the curriculum and how they can be developed both here at USC and abroad. For more information on M.O.S.A.I.C., please visit <http://studyabroad.usc.edu/mosaic>. Click on the following link to complete the brief proposal form: <http://studyabroad.usc.edu/index.php?content=proposal>

Proposals should be submitted online by **February 1, 2012**.

PRESENTATION LEADERSHIP DIALOGUE, TUESDAY, FEBRUARY 7, 6:00-8:00 PM, LAW SCHOOL AUDITORIUM

The Provost's Office encourages student, faculty, and staff attendance at the President's Leadership Dialogue on February 7 from 6:00 pm to 8:00 pm in the Law School Auditorium. President Stastose's Center for Leading Charitable Hunter-Gaunt, an award-winning journalist and the first African-American to graduate from the University of Georgia. She will be speaking about her new memoir, *To the Mountaintop: My Journey through the Civil Rights Movement*. Following her remarks, the President will initiate an audience discussion with Hunter-Gaunt about her reflections on leadership in the struggle of the civil rights movement. The USO Gospel Choir will be performing, and a book-signing will be held after the event. For more information, please see <http://www.usc.edu/provost/leadershipsummit/>.

2011-2012 MUNGO Distinguished Professor Award - Nomination Deadline 2/9

The Michael J. Mungo Distinguished Professor of the Year Award is being offered again this spring. The winner will receive \$10,000. To assist in this award is to recognize and reward excellence in teaching on the USC Columbia campus.

The award is open to full-time (tenured) professors, including those who are candidates for, or who have already received other teaching awards.

Nominations may be made by students, faculty, department chairs, directors, and deans. Nominations will be accepted until Friday, February 9, 2012. To nominate a faculty member, please submit a nomination form and a brief letter stating the reasons for your nomination. (The nomination form is available for download on the Office of the Provost website at <http://www.usc.edu/provost/mungo.shtml>.)

Non-faculty are not required to submit materials. The <http://www.usc.edu/provost/mungo.shtml> is composed of students and former winners of the award evaluate the nominations and determines the list of finalists. Members of the selection committee visit the finalists' classes, interview the finalists and the finalists' colleagues, and poll the students in the finalists' classes.

For more information or to download the electronic nomination form, please see <http://www.usc.edu/provost/mungo.shtml>.

Faculty News

Award

Environment and Sustainability Program

Dr. Phillip Barnes was awarded an extension on a VHA Grant (VHA VEGA Training and Evaluation) in the amount of \$16,100.

Presentations

Environment and Sustainability Program

Dr. Phillip Barnes received an invitation to present and serve on the Academic Committee of The Greening of Industry Network's 2012 conference in Östergötland, Sweden. The conference is scheduled for 21-24 October, 2012. Please visit the Conference website www.goin2012.se for further information and submission of abstracts.

Dr. Greg Carbone and **Dr. Dan Tuftord** presented a talk at a collaborative workshop called, "Drought and Salinity Intrusion: Past, Present, and Future Conditions in the Coastal Yakin-Pee Dee River Basin" on December 14th in Georgetown, SC. For more details, visit <http://www.usc.edu/geo>.

Dr. Phillip Barnes was recently invited by the Autonomous University in Barcelona, Spain to teach a class in Management Systems and Sustainable Development. The class was a part of the Environmental Management Tools program in the Master of Environmental Studies.

Funding and Education Opportunities

Environment and Sustainability Program

Environmental Technology Demonstrations - Funding Available

ARLINGTON, VA, January 12, 2012--The Department of Defense (DoD), through the Environmental Security Technology Certification Program (ESTCP), supports the demonstration of technologies that address priority DoD environmental requirements. The goal of ESTCP is to reduce the transfer of innovative environmental technologies through demonstrations that demonstrate the data needed for regulatory and DoD end-user acceptance. Projects conduct formal demonstrations at DoD facilities or sites in operational settings to document and validate improved performance and cost savings.

ESTCP is seeking proposals for innovative environmental technology demonstrations as candidates for funding beginning in FY2013. This solicitation requests pre-proposals via Calls for Proposals to Federal Agencies and via a Broad Agency Announcement (BAA) for Private Sector Organizations. **PRE-PROPOSALS ARE DUE BY THURSDAY, MARCH 15, 2012.**

Detailed instructions for DoD, Non-DoD Federal, and BAA proposers are available on the ESTCP web site: <http://www.servicestcp.org/FundingOpportunities/ESTCP-Solicitations>.

DoD organizations (Service and Defense Agencies) may submit pre-proposals for demonstrations of innovative environmental technologies in the following topic areas:

- Environmental Restoration – Technologies for the characterization, risk assessment, remediation, and management of contaminants in soil, sediments, and water.
- Munitions Response – Technologies for the detection, classification, and remediation of military munitions on U.S. lands and waters.
- Resource Conservation – Tools, technologies, and methodologies that advance DoD's management of its natural resources and associated services.
- Weapons Systems and Platforms – Technologies to reduce, control, or eliminate the sources of wastes and emissions in the manufacturing, maintenance, and use of weapons systems and platforms.

The **Broad Agency Announcement (BAA)** and **Non-DoD Federal Call for Proposals (CFP)** are seeking pre-proposals for environmental technologies in the following topic areas only:

- Management of Contaminated Groundwater
- Characterization, Detection, Assessment, Testing and Training Range Contamination
- Military Munitions Detection, Classification and Remediation
- Watershed Management Models/Tools for DoD Installation Applications
- Demonstration/Validation of Alternatives to Cadmium Plating in Manufacturing and Maintenance of Weapons Systems

ACCO Webinar Series: Durban De-Brief - An Analysis of COP-17 in Durban and Implications for Industry

February 1, 2012 | 12:30 pm - 1:50 pm (Eastern)

Click here to register

- Jonathan Pershing** – U.S. Deputy Special Envoy for Climate Change, U.S. Department of State
- Elliot Dinger** – Executive Vice President, Center for Climate and Energy Solutions (C2ES)
- David Rosenheim** – Executive Director, The Climate Registry

About the Webinar Program

In December 2011, the 17th Conference of Parties assembled in Durban, South Africa to continue discussions on the future of the Kyoto Protocol and a global agreement to reduce greenhouse gas emissions in both developed and developing countries. Building upon the success of the Cancun Agreements and the Copenhagen Accord, substantial strides were made at COP-17 as thousands of delegates worked together to Durban to participate in the negotiations and related business development activities. With the first commitment period of the Kyoto Protocol set to expire this year, the agreement reached in Durban are an important foundation for negotiations scheduled to take place in Copenhagen in December 2009.

Just a few weeks before the inaugural Climate Leaders Conference, ACCO, C2ES and The Climate Registry invite you to attend this webinar on February 1, 2012. The Traj Traj COP-18, and the impact of the agreement on U.S. businesses, the policymaking process at Federal and sub-national levels, and international efforts to build upon the Kyoto Protocol.

Student Services

ENVIRONMENTAL SCIENCE MAJORS:

There are now accepting applications for the Environmental Science majors' Undergraduate Awards. Are you a student and think you deserve one of these – Submit the application materials! Are you a faculty/staff member who knows someone who should receive one of these – encourage them to apply or submit a nomination! Students, please see the details below and send your application to Shelley Schlenk (sshlenk@mailbox.usc.edu) or contact the Student Services Office (SSO) at 843-777-9444. Your application should consist of a one-page resume of your academic achievements and any extracurricular, environmentally-related activities (please see attached announcement for details).

Deadline for the applications is Friday, March 2 at 5 pm.

If you are a junior or senior with a cumulative GPA of 3.0 or greater, and you wish to be considered for this award, they ask that you please submit an application on or before **Friday, March 2nd**. Your application will consist of a one-page resume of your academic achievements and any extracurricular, environmentally-related activities. This should include the following:

- Your name and contact information including: name, SSN, local address and telephone phone number, e-mail address, academic major and minor
- Expected date of graduation and your intended profession
- Total number of credit hours taken overall and your overall GPA
- A list of all ENVR courses and your ES Major GPA
- Faculty-supervised environmental research projects (if any)
- Environmentally-related employment (i.e., internships, part-time jobs, etc.)
- Environmental activities and leadership roles (e.g., field trips, Earth Day, meetings, etc.)
- Participation in student and/or environmental organizations (e.g., SAGEE)

Please submit your applications electronically by email or in person to Ms. Shelley Schlenk (sshlenk@mailbox.usc.edu) or in person at 777-1613. If you have any questions, please contact Gwen Geidel (ggeidel@usc.edu) or a member of the staff at 843-777-9444.

MARINE SCIENCE MAJORS:

There are now accepting nominations for the **Marine Science Undergraduate Awards**. Are you a student/staff member who knows someone who should receive one of these? If you are a student and think you deserve one of these – get your faculty advisor or class professor to nominate you! Students are officially nominated by a letter of support from one of the Faculty or Staff emailed/addressed to Gwen Geidel (ggeidel@usc.edu) and ccd to Shelley Schlenk (sshlenk@mailbox.usc.edu). It is VERY helpful to include the student's resume as well.

Deadlines for the nominations are Friday, March 2 at 5 pm.

1) Outstanding Undergraduate in Marine Science Award

Each year, the Marine Science Program awards \$500 to one or more Marine Science seniors most recognized by their professors and academic advisors. Eligible students will receive a stipend of \$500 and a letter of commendation on our website.

Each year, the Marine Science Program awards \$500 to one or more Marine Science seniors most recognized by their volunteer efforts. Students are nominated with a letter written by a Marine Science Faculty member.

2) Traci Heinzelman Memorial Scholarship

The Traci Heinzelman Memorial Scholarship is given to a sophomore in Marine Science who best epitomizes the Marine Science Program academic excellence, research, and volunteerism. This \$1000 award is given in memory of Traci Jeanne Heinzelman, one of our outstanding Marine Science majors who died in a tragic automobile accident on the first day of spring break in 2002. A McNair Scholar in the Honors College, Traci was involved in the Student Services Office, field trips, Earth Day, meetings, and a team member to work on the ecosystem and returned to begin a master's degree in Biology as she simultaneously finished her BS in Marine Science.

Throughout all of this, she maintained a perfect 4.0 grade point average, and had completed all of her coursework for the RioS, a 15-week internship. Her parents set up the Traci Jeanne Memorial Scholarship in her honor. Inception, over \$25,000 worth of awards have been received in donations. Students are nominated with a letter written by a Marine Science Faculty member.

3) College of Arts and Sciences Marine Science Outstanding Rising Senior Award

This \$500 award is given annually by the College of Science and Mathematics to a rising senior (current junior) Marine Science major who has demonstrated excellence in Marine Science. Students are nominated with a letter written by a Marine Science Faculty member.

Student News

Get Experience!

Research Opportunities

Earth and Ocean Sciences

Superfund Research Program at Louisiana State University – Graduate Students Only

Superfund Research Program is an interdisciplinary environmental program and brings together researchers from the basic and applied sciences to study environmental problems. The program is currently accepting applications for graduate students in the LSU Health Sciences Center. The overall goal of our program is to understand how redox-active transition metals and organic pollutants associated with particulate matter react to form environmentally persistent free radicals (EPFRs), how these EPFRs initiate oxidative stress resulting in cardiac and pulmonary dysfunction, and how particle-associated radicals mediate formation of other stressors resulting in adverse health effects. We are currently accepting applications for graduate students in the program.

More information about Superfund Research Program can be found on their website www.srp.lsu.edu and in their brochure <http://www.srp.lsu.edu>.

Research Experience for Undergraduates Program in Estuarine and Coastal Marine Sciences

Duke University Marine Lab - Beaufort, NC

Application Deadline: February 15, 2012

The National Science Foundation funded REU program will take place at the Duke Marine Lab located on Pivers Island in Beaufort, North Carolina. The program is open to students who are currently enrolled in the Marine Science Program and programs with faculty mentors in the following general areas: sensory physiology, ecology, and behavior, environmental toxicology, molecular biology and genetics, coastal and estuarine processes. Each student will work with a faculty mentor, develop a research project, present progress and final oral reports and prepare a final written paper. Students will receive housing and meals at the Duke Marine Lab in addition to a stipend and travel allowance.

Dates: June 4 – August 10, 2012

Deadline: February 15, 2012

Eligibility

Students must be U.S. citizens or permanent residents in the U.S. or its territories, and be a rising sophomore, junior or senior enrolled in a baccalaureate degree program. Applications are encouraged from U.S. citizens belonging to groups currently underrepresented in the marine sciences (i.e., Native Americans, Alaskan Natives, African Americans, Latino/Hispanic and Pacific Islanders).

To apply: Interested students are required to submit:

- REU Application (available at http://www.duke.edu/reu/reu/programs/undergraduate_reu.html)
- Statement of Interest (available at http://www.duke.edu/reu/reu/programs/undergraduate_reu.html) (s) of interest, (iii) academic/ research preparation for this research area, (iv) career plans, (v) current resume
- Two letters of recommendation
- Official transcript

Please submit your application, statement of interest and resume together in one word document (in order) and send to reu@mailbox.usc.edu.

Application materials (including transcripts and letters of recommendation) can be sent electronically, or by mail to:

REU Coordinator
 Duke University Marine Lab
 135 Duke Marine Lab Rd.
 Beaufort, NC 28516

For additional information:

Dr. Richard Forward,
forwarc@duke.edu 252-294-7610

Environment and Sustainability Program

Bioenergy REU in Nebraska

Nebraska's summer program offers research opportunities in the science, technology, engineering, and mathematics fields. A core team of faculty mentors will serve as university ambassadors and mentors to middle and high school students participating in academic pre-university summer programs, including the Carolina Master Scholars Adventure Series and Summer Program Research Interns from the Governor's School for Science and Mathematics.

* These are full-time positions during the summer. Positions start May 28-July 21.

Great pay! Day counselors make: \$310.00 per week. Residential counselors make \$400.00 per week.

Applications due for by Monday, February 6th. *For an application, go to: <http://saen.usc.edu/adventures/staff.html>

Please direct any questions to pups@mailbox.usc.edu or call (803) 777-9444.

For more information about pre-university programs contact: <http://www.usc.edu/adventures/>

Gamecock Math Club

You are invited to join the Gamecock Math Club (membership open to all full-time USC students) as well as the national mathematics honor society Pi Mu Epsilon (membership open to students meeting the criteria). You can find more information about these two official USC student organizations at our website: <http://www.math.usc.edu/~pme/>

Application deadline and the Initiation Ceremony is **Tuesday, February 21st**.

To apply, please fill out the application and Criteria Verification Form below and send forms to Professor Girardi by e-mail at rgirardi@math.usc.edu.

Invitation

Application

Criteria Verification Form

Environment and Sustainability Program

Energy Forum – Student Volunteers Needed

The SC Energy Office is in need of student volunteers that would be willing/able to come be "staff" for a forum on energy coming up February 23, 11:30 AM until about 6:00 PM in the Engineering Building here on campus. The need is for people who are interested in energy, and willing to help make sure the event goes smoothly. If you are interested in the energy community, as well as some in the political world.

Event is table top (no chairs, no food), and USC students are welcome to attend as registrants.

For more information on the event, view the invitation [here](http://www.usc.edu/energy) and the agenda [here](http://www.usc.edu/energy).

If you are interested, please contact Trish Jerman by phone at 803-737-8025 or by e-mail at trishjerman@energy.sc.gov

EEER Sponsored 2012 Geothermal Student Competition

The US Department of Energy's Office of Energy Efficiency and Renewable Energy are pleased to announce the 2012 Geothermal Student Competition. The Competition is designed to support, inspire, and promote innovation, exploration, and entrepreneurship among the nation's emerging young thinkers. The Competition platform focuses on developing and advancing the next generation of geothermal energy exploration technology that can potentially unleash an infusion of reliable, cost-effective, and clean geothermal energy into the U.S. energy economy.

The Challenge: Undergraduate and graduate student teams, guided by a faculty member in the role of mentor, are challenged to conduct a professional-quality assessment of the Snake River Plain site in Idaho using innovative exploration technologies. Research should include geophysical, geochronological, and geochronological data. Research should include geophysical, geochronological, and geochronological data. Research should include geophysical, geochronological, and geochronological data.

Who Should Apply?

The Competition is open to undergraduate and graduate students in science, engineering and business programs of study.

Where do I Apply?

The Competition application, guidelines, and copies of the case study can all be found on the Competition website <http://rise.ore.gov/geothermal/>

How does the Competition work?

The Competition is divided into two phases:

Phase 1

Student teams, comprised of up to four students with the faculty member serving in the capacity of project advisor and coach, will submit an application through the website detailing their project plan. The top ten competitive applicants are selected and the winning teams, their mentors, and their schools are notified and advanced into Phase II of the competition. Teams entering Phase II will receive a \$10K stipend to defray some direct costs associated with equipment purchase, travel and other expenses incurred during the research cycle.

Phase 2

The teams are required to participate in monthly review meetings and submit regular reports documenting their progress. Phase II is completed when the Teams submit the required technical paper and present their findings to the team of expert judges at the Geothermal Council Capstone event. ORISE will manage all aspects of the competition including recruitment, program promotion, conducting an application review and coordinating Capstone judging panels, for the selection and award process.

Please contact Dr. Desmond Stubbs, Program Manager by email Desmond.Stubbs@ore.gov or by phone (865) 603-2461.

Internships

Environment and Sustainability Program

Orion Magazine - New Green Internship Listings

Winter Internship

Rock Forest and Farmstead Center
 Rupert, VT

Education Interns

Teton Science Schools
 Jackson, WY

Farm Apprentices/Interns
 Rosie Creek Farm
 Ester, AK

Interns

Cabot Shores Wilderness Resort
 Cape Breton, Nova Scotia

Editorial Internships

High Country News
 Paonia, CO

Brook Trout Habitat Restoration Internship

Tim Mountain Conservation Center
 Albany, NH

There's more! View **ALL of the current listings here**.

Marine Science Program

7th Annual Governor Tauese P.F. Sunia Memorial Coral Reef Conservation Summer Internship

Announcement: Caribbean Area

Opening Date: January 18, 2012; Closing Date: February 29, 2012

Internship winner notified: March 30, 2012

Internship period: June to August 2012

The United States Coral Reef Task Force (USCRTF); Department of Interior, U.S. Fish and Wildlife Service (FWS) and Office of Insular Affairs; U.S. Department of Agriculture, Natural Resources Conservation Service, and the National Marine Fisheries Service are pleased to announce the 7th Annual Governor Tauese P.F. Sunia Memorial Coral Reef Conservation Summer Internship for the Caribbean Area.

This internship is in recognition of the late Governor's outstanding leadership and contribution to the conservation of coral reef ecosystems. The late Governor Sunia is most remembered for being an eloquent and impassioned advocate for coral reef protection and management at the local level, not only in American Samoa, but throughout the U.S. and the Pacific region. This summer internship continues the Governor's legacy by providing an outstanding college or university student a unique opportunity to gain valuable, professionally formative experience in coral reef conservation policy and management, while also contributing to the overall efforts of the hosting agency (FWS) and the USCRTF.

It provides an 10-week summer internship for a single student (see eligibility information below) interested in natural resource management and conservation in the Caribbean region. The student will work at the National Wildlife Refuge and contribute to the Guánica Bay / Rio Loco Watershed Partnership. The internship covers salary and transportation costs. The program is designed to provide the selected student with career-enhancing experience through work on coral reef conservation in a developing nation. The student will be provided with a stipend, housing allowance, and in some cases, a travel allowance. Qualifications vary by position, and all levels of scientists, from undergraduates to retired professionals, are encouraged to apply.

In 2012, GeoCorps will be bigger and better than ever. GeoCorps has added a new partner, the State of California Department of Conservation's Abandoned Mine Lands (AML) Program, and expects to offer two to eight positions that involve surveying abandoned mine sites on public lands in California's deserts and mountains. Other new aspects of the program include "AstroCorps" (astronomy) positions, as well as an archaeology position. Also in 2012, GeoCorps continues to offer GeoCorps American Indian internships, as well as sixteen GeoCorps Diversity Internships. Filter these categories to René Buccina, Cape May Bird Observatory, 600 Route 47 North, Cape May Court House, NJ 08210. rene.buccina@njaudubon.org or www.njaudubon.org. NJ Audubon is an Equal Opportunity Employer.

Student Conservation Organization - List of Jobs Available <http://www.usc.edu/geo>

Marine Science Program

SEACAMP Jobs for Marine Biologists and SCUBA Instructors

Seacamp Association, Inc. is a non-profit organization offering a unique marine science/SCUBA summer residential camp for teenagers ages 12-17 and a marine science day camp for young ages 10-13. During the fall and spring, Seacamp hosts schools groups of all different ages and from around the world. The location in 1966, it is located near the most extensive coral reef in the continental United States and in the middle of the Florida Keys National Marine Sanctuary. Through the use of its surrounding environment, Seacamp aims to educate children about marine science and ocean conservation. Seacamp's core philosophy is "For the sea has to teach us all the fun in learning it". Resumes and cover letters should be submitted for review to info@seacamp.org.

Fisheries Observers Needed

We are seeking long-term observers for the following observer positions for both the North Pacific Observer Program in Alaska and the West Coast of the United States Observer Program.

Students who will be graduating in the spring, or students who have graduated recently and are still looking for field biology positions, should contact the Director of the National Wildlife Refuge System, Office of Rachel Moore, by e-mail at moore@fws.gov or by phone at 865-317-9343.

Funding Available - Grant

SLUCUM-LUNZ FOUNDATION

GRANT INFORMATION AND APPLICATION INSTRUCTIONS