



April 2007 Newsletter

FIVE COLLEGE COASTAL AND MARINE SCIENCES CERTIFICATE

With pre-registration for Fall semester starting up, now is the perfect time to consider pursuing the FCC&MS Certificate. Earning the Certificate is comparable to minoring in Marine Science. You must take a total of six courses, representing each of following categories:

- Organismal biology
- Marine and coastal ecology
- Marine geology, chemistry, and other related sciences
- Resource management and public policy

Take a look over the approved course list (www.fivecolleges.edu/sites/marine/coursework)...you may have already completed eligible courses without even realizing it.

Please visit 'www.fivecolleges.edu/sites/marine/certificate' for more info on the Certificate, as well as 'www.fivecolleges.edu/sites/marine/courses' for the list of approved courses offered in the Fall.

FIVE COLLEGE APRIL EVENTS: several climate change and conservation-related happenings

Friday, 13 April : *"Making a Difference While Making a Living"* 4- 6 p.m. in the Neilson Library Browsing Room, Smith College. Want to earn money protecting people and the environment? Learn how from Kevin Doyle from the Environmental Careers Organization who will present on "Careers for Everyone in the New Green Economy." A post-talk panel will feature a United Nations Population Fund staff member, GIS specialist, filmmaker, lawyer and real estate developer, and a grassroots organizer. All are welcome. Desserts and organic Costa Rican coffee will be served.

Monday, 16 April : Two climate-related events sponsored by the Smith College Environmental Science and Policy Program. Both are presented by Ken Mankoff, a computer scientist who has spent the past 10 years working for various universities on multiple space agency

projects (NASA and the European Space Agency). His focus has been on data processing, analysis, and scientific visualization. He is currently employed by Columbia University and works at the NASA Goddard Institute for Space Studies in NYC where he develops climate models.

Monday, 16 April at **12 p.m.**: “*EdGCM: Modeling the Global Climate*” Campus Center Rm 103/4, Smith College

Monday, 16 April at **7 p.m.**: “*An Inconvenient Truth- Take Two*” Campus Center Carroll Room 103/4, Smith College. Come see THE slideshow presentation by one of the thousand people trained by Al Gore and [The Climate Project](#). See new slides, hear new information about the climate change issue and its possible effects, and have a chance to ask questions. The public is welcome.

Tuesday, 17 April : “*Women In Science: Changing the Climate from the Bottom Up and the Top Down*” A panel and discussion with faculty and student leaders. 5 – 7 p.m. in Rm 112 of the Isenberg School of Management, UMass – Amherst

Friday, 20 April : “*Symposium in Honor of H. Allen Curran*”
4 p.m. in the McConnell Auditorium, Smith College, with a dinner reception to follow at 6 p.m. at the Smith College Club at 6:00 p.m. The Symposium speakers are all Smith College Alumnae:

- Jen Christiansen '95 - freelance designer and illustrator based in New Haven, Connecticut.
- Dr. Kelly Halimeda (Hali) Kilbourne '98 - postdoctoral research associate at the Climate Diagnostics Center of the NOAA Earth Systems Research Laboratory in Boulder, Colorado.
- Lila Eve Gerald '03 - Ph.D. student at the Virginia Institute of Marine Science at Gloucester Point, Virginia.



The following films are happening at UMass as part of their Sustainable Film Series.
All films start at 7pm at Gordon Hall, UMass

Wednesday, 11 April: “*The Great Warming*” Introduced by Rev. Margaret Bullitt-Jonas

Tuesday, 24 April: “*Out of Balance: ExxonMobil's Impact on Climate Change*”
Introduced by Tina Clark of Clean Water Action

Wednesday, 25 April: “*The Next Industrial Revolution*” Introduced by Jerry Epstein, co-director of the Political Economy Research Institute.

Thursday, 26 April: “*Power of Community: How Cuba Survived Peak Oil*” Introduced by John Gerber, Professor of Plant Soil and Insect Sciences

STUDY AWAY PROGRAMS

1. Beam Reach Marine Science and Sustainability School

Spend 10 weeks off campus studying endangered killer whales in the wild!

Beam Reach is for you if you want to: study endangered orcas in the wild, sail for 5 weeks on a biodiesel electric catamaran, work with experts in killer whale conservation and acoustics, learn about marine conservation and sustainability, learn in a small group and get lots of individual time with instructors, work on real science and your own research project, spend 5 weeks at Friday Harbor Labs, and earn 18 credits from the University of Washington. You don't have to be a science major to apply; you just have to be interested in the marine environment and want to spend 10 weeks studying off campus.

They are now accepting applications for our Spring 08 program (March 31-June 7, 2008). They do have a few spaces left in our Fall 07 program: Aug 20 - Oct 28, 2007

<http://beamreach.org>

2. Williams-Mystic Maritime Studies Program

For a semester, explore the history, policy, literature, and science of the world's oceans. Travel the Atlantic, Pacific, and Gulf coasts and live at the world's largest maritime museum, Mystic Seaport. All majors and classes welcome. Scholarships available.

Visit Mystic, CT on Sat 21 April 2007 for their Open House.

RSVP to admissions@williamsmythic.org

More Information: www.williams.edu/williamsmythic

SUMMER SHORT COURSES

1. Shoals Marine Laboratory

The SML's Curriculum has been recently expanded to better serve students from all over the country. This summer, we will offer more than two dozen college-credit courses at our facility on Appledore Island, Maine. Please take a minute to review some of their exciting offerings - and join us on Appledore this summer!

Sustainability in the 21st Century; Coastal Ecology and Bioclimates; Field Microbial Ecology; A Marine Approach to Introductory Biology; Field Marine Science; Field Marine Biology and Ecology; Molecular Systematics and Natural History; Seaweeds, Plankton and Seagrass; Marine Vertebrates; Field Ornithology; Seabird Conservation; The Herring Gull's World; Forensic Science for Marine Biologists; Functional Morphology of Marine Organisms. To view SML's complete list of college credit courses for Summer 2007, please go to: www.sml.cornell.edu/college/pc-cs.htm

2. The Bermuda Institute of Ocean Sciences

Coral Reef Ecology field course offering in Bermuda in July 2007. The official deadline has passed but places, scholarship and financial aid are still available. Applicants and scholarships are assessed from now until the end of April on a case-by-case basis once a

completed application has been received so promptly visit www.bbsr.edu/Education/summercourses/cre/cre.html for application details.

Course dates: 8-28 July 2007

Course instructor: Dr. Samantha de Putron.

Qualifications: Open to undergraduates and graduate students with strong academic credentials. The course is open only to SCUBA divers.

Course fee: \$3,850 (tuition, room and board). Scholarship and financial aid available.

For further information please contact: Jo Duyzer, Education co-ordinator, at Jo.Duyzer@bbsr.edu

3. Oceanic Society Research Course

Field Course in Biology, Ecology and Conservation of Antillean Manatees, Loggerhead Sea turtles, and Bottlenose Dolphins: GIS mapping and boat surveys.

Location: Oceanic Society Field Station, Blackbird Caye, Belize, Central America.

Date: June 16-23, 2007

Instructors: Dr. Leslee Parr, San Jose State University; Mario Mota, University of Florida.

Local Belizean researchers will also contribute to the course.

Cost: \$1090 - Four students per cabana with shared bath.

Course Description: Students will participate in a hands-on field study. This course will include instruction in general marine mammal and turtle ecology, anatomy, physiology, evolution and population biology and specifics about bottlenose dolphins, Antillean manatees, and Loggerhead turtles in Belize. Students will learn field assessment methods for dolphins, manatees, and turtles in their habitat, including GPS use and basic GIS location mapping. Discussion of conservation issues particularly related to isolated tropical ecosystems. Field excursions from the Blackbird Oceanic Field Station will compliment lectures and presentations.

Class format: Class size is small (10 maximum). Please contact the Oceanic Society in San Francisco for details. (415) 441-1106.

Course website: www.oceanic-society.org/pages/alltrips/spectrip5.html

PLANNING FOR YOUR FUTURE

Even if you are not ready to apply for a job just yet, pay attention to the types of positions out there and which skills are commonly preferred. For example, the ability to operate watercraft is requested in a few of the jobs listed below. Temporary summer positions may be fairly low-paying, but they provide both the experience and contacts that will open doors for future graduate school and career opportunities.

1. Marine Turtle Research Program

The NOAA-Southwest Fisheries Science Center (SWFSC) in La Jolla, CA, seeks to contract a database manager/data analyst to manage database systems and assist senior researchers with data analysis. The Program generates genetic data and collects a wide range of biological data,

including morphological, line-transect, mark-recapture, stable isotope, satellite telemetry, oceanographic, behavioral, and acoustic tracking. Databases have been developed using MS SQL Server with MS Access front ends. The successful candidate will be responsible for the upkeep of these databases as well as providing assistance to scientists to organize and analyze data. He/she will work under the supervision of a senior-level scientist of the program and a senior-level data manager of the Information Technology Services program at SWFSC. He/she will interact with scientists, IT personnel, and laboratory technicians. This position requires a person who is organized, detail-oriented, self-motivated, and be able to communicate technical materials with others. Although this is a one-year contract, it will be renewed subject to available funding.

If you are interested, please contact Tomo Eguchi, tomo.eguchi@noaa.gov
SWFSC/NOAA
8604 La Jolla Shores Dr.
La Jolla, CA 92037

2. Temporary Fisheries Technician- The Marine Program at Cornell Cooperative Extension in Riverhead, NY

Applicant will be responsible for general program support for various ongoing programs conducted by the Marine Program. Will also be responsible for assisting Marine Extension Agents in conducting applied field research projects. The position will require extended periods of time both in the field and in the office. This position will be primarily responsible for field and data entry components of the summer flounder mortality study and the tuna sampling project. Duties include collection of live fish aboard commercial vessels, maintenance and monitoring of on-board and shore-side live holding systems, preparation of equipment for scientific cruises, data entry, and dockside biological sampling of various marine species. May be required to report to field locations at start of workday, and may be required to work outside of normal office hours. At sea work will be required, as well as working designated weekends as required. Other duties as assigned.

Requirements:

- Associates degree in a related field plus 1 year experience; BS in Marine, Natural, or Environmental Sciences preferred.
- PADI open water certified
- Basic Understanding of marine science and fisheries biology and management
- Ability to accurately ID local fish species
- Valid driver's license

The position is starting ASAP, and will last for six months from start date. The technician will be paid at \$14.50 per hour, 40 hrs per week. Benefits available. Interested applicants should fax a resume and cover letter to Kristin Gerbino at (631) 727-7130

3. Massachusetts Department of Conservation and Recreation: Three Positions

Park Interpreter positions available at:

Scusset Beach State Reservation: 25 May to 3 September, 2007.

Horseneck Beach State Reservation: 10 June to 3 September, 2007.

Nickerson State Park – Brewster, MA: 10 June to 3 September, 2007.

Park Interpreters work a forty-hour week (which includes weekends, holidays, and some nights). The salary is \$473.58/week; employees are paid bi-weekly. Uniforms and training are provided. Park housing is not. **To apply:** Please send a Cover Letter, Resume and DCR Seasonal Application Form (available at www.mass.gov/dcr/employment.htm) to:

Amy Nelson, Regional Interpretive Coordinator
MA Department of Conservation & Recreation
P.O. Box 66
South Carver, MA 02366

4. Omnivorous Food Web Interactions in New Zealand- Summer Research Assistant

Volunteer research assistant(s) needed early-May to early-August (specific dates negotiable) in the investigation of omnivorous food web interactions in the New Zealand marine intertidal. The assistant will be primarily responsible for monitoring laboratory-based predator-prey “handling time experiments” at the Edward Percival Field Station in Kaikoura but may also participate in the monitoring of caging experiments and quadrat-based abundance surveys at field sites on the west coast of the South Island. (See <http://home.uchicago.edu/~mnovak/> for context.)

Previous research experience preferred but not required. While room and board and travel within New Zealand will be provided, it will not be possible to offer international travel; motivated individuals will be assisted in writing their own grant applications with which to cover this expense. (The opportunity for independent projects exists and will be strongly encouraged.) Applicants must be dedicated to laboratory detail, and flexible and comfortable working under adverse field conditions (i.e. in the wet and winter-cold of both day and night-time low-tide periods) for extended periods of time.

Please send a cover letter, resume, and contact information for two references to Mark Novak via email mnovak@uchicago (Subject: Assistant position), or to:

1101 E. 57th St.
Dept. of Ecology and Evolution, University of Chicago,
Chicago, IL 60637.

5. San Francisco Estuary Invasive Spartina Project (ISP) Monitoring Program

The Seasonal Field Biologist position conducts botanical and ornithological field surveys and performs associated data entry and editing in support of the San Francisco Estuary Invasive Spartina Project (ISP) Monitoring Program. Includes seasonal botanical monitoring (mid June through October), clapper rail monitoring (mid January through mid April), and associated GIS data entry/editing during these field seasons. Work may vary from 0-50 hours/week during these field seasons depending on tides, weather conditions, and site access permissions.

Requires close collaboration with other ISP Monitoring Program and Control Program staff (Seasonal Field Biologists and Managers) both in the field and in the office. Requires the ability to work well independently and in a field team setting, follow project-specific field protocols and data entry/editing procedures, and, if appropriate, suggest improvements to our project’s existing procedures. Requires a strong background in botany and ornithology. Requires a basic understanding of and some familiarity GPS and GIS data entry and editing. Requires familiarity with San Francisco Bay tidal marsh flora, avifauna and geography. Must be detail-oriented and able to perform work accurately and efficiently. Must have sufficient botanical and ornithological background to be able to collect data independently following approximately one week of training. Must be willing to work long hours in potentially adverse field conditions. Must be able to or

willing to learn to operate watercraft including kayaks and outboard-motor powerboats (Zodiac, whaler, Klamath). May occasionally require helicopter-based surveys. Must be available to work up to 5 full (8-10 hour) days a week during the above field seasons, with the understanding that work availability will vary within these dates. Must be flexible and adaptable to changes in schedules and hours, often with very little advanced notice.

Must provide own transportation to field sites around the San Francisco Bay. (Mileage is reimbursed, drivers license and proof of automobile insurance are required.) Hours are flexible and will vary from 0 - 50 hours/week depending on project needs. Pay rate starts at \$20-30/hour based on experience. No benefits are available for this position. Interviews will be scheduled April 25-27. Paid training will begin in May, and fieldwork will be available starting in early to mid June.

To apply, mail or email a cover letter, resume, and contact information for three technical references by **Monday, 23 April** to:

Ingrid Hogle, Monitoring Program Manager
San Francisco Estuary Invasive Spartina Project
2560 9th Street, Suite 216, Berkeley, CA 94710
Email: ibhogle@spartina.org
Phone: 510-548-2461 x 205.

MARINE SCIENCE IN THE NEWS

Recent marine-related headlines pulled from major news sources. The titles are hyperlinked to the full on-line articles.

[Coral reef collapse spells danger for millions](#)

(from Science Daily)

[Marine life treasure trove found](#) →

(from BBC News)

[Marine scientists monitor longest mammal migration](#)

(NOAA Press Release)

[Did dust bust the 2006 hurricane season forecasts?](#)

(NASA Press Release)



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