



University of Miami Undergraduate Marine and Atmospheric Science Program January 2010

*ALL THE "OOZE" THAT'S FIT TO PRINT - ON THE WEB AT: <http://www.rsmas.miami.edu/undergrad>*

*Welcome - We welcome our new and returning students. Please feel free to stop by the Marine and Atmospheric Science Office for advising, or to check on research, volunteer and job opportunities, upcoming events, information on clubs, and other announcements.*

The Marine Science Office is in Room 182 of the Cox Science Building.  
Our telephone number is (305) 284-2180. Our office email is [marsci@miami.edu](mailto:marsci@miami.edu).  
The Program website is: <http://www.rsmas.miami.edu/undergrad>

**OFFICE HOURS ARE 8:30 AM – 5:00 PM, Monday – Friday.**

We wish you well in the upcoming semester. Please be sure meet with your advisor for any academic concerns that you may have.

The advisors in the program are:

Marine Science

Dr. Dan DiResta  
Dr. Donald Olson  
Dr. Jill Richardson

Marine Affairs

Prof. Maria Estevanez

Meteorology

Dr. Brian Soden



**WELCOME TO DR. WILL DRENNAN  
NEW ASSOCIATE DEAN FOR THE UNDERGRADUATE PROGRAM**



Dr. Drennan, born and raised in Canada, received a B.Sc. degree in Mathematics and Engineering from Queen's University in 1982, followed by M.Math. (1984) and Ph.D. (1989) degrees in applied mathematics from the University of Waterloo. Following an 8 year stay at the National Water Research Institute, an Environment Canada research laboratory on the Great Lakes, Dr. Drennan came to the Rosenstiel School in 1997. He currently holds the rank of Professor of Applied Marine Physics. Since 2008 he has also been Director of the Abess Center's Ecosystem Science and Policy undergraduate program.

Dr. Drennan's current research focuses on processes at the air-sea interface and includes aspects of both oceanography and meteorology. Most of his research is field-based, using specially designed buoys, as well as ships and aircraft. Over the past decade, his research has taken him from the Arctic Ocean during International Polar Year, to the eye of Hurricane Isabel. His measurements of heat, momentum and carbon dioxide transfer at the ocean surface contribute to the improvement of hurricane and climate models.

## ***MSC Newsletter -***

The Bathybius, the Marine Science Newsletter, will be posted on the web to keep you up to date on academic and other information that could be of interest to marine science, marine affairs and meteorology students.

You may view it on the web at: <http://www.rsmas.miami.edu/undergrad/>

## ***MSC Computer Lab -***

The Marine Science Lab at Cox 184 has computers for MSC students' use between 8:30 AM to 4:45 PM, Monday through Friday, except during scheduled classes in the lab. You may use them to access your email and for the World Wide Web. The computers also have a number of programs that you will be using in your marine science lab courses.

## ***Student Email -***

Students should provide the University with a preferred email address for entry into the University's database. This enables professors to email assignments, information and important notices to you. If you have not already provided the University with your email preferred email address, you may do so by logging on to My UM, then select Student Menu.

## ***University Resources -***

Please remember that the University has numerous resources that can help you, from the Library Services to the Toppel Career Placement Center. We hope that you will use these resources during your stay at the University. We would like to provide you with additional information on a few, which may be helpful to you such as:

**STUDENT ACADEMIC DEVELOPMENT CENTER** - This Center is particularly helpful in preparing students. It offers tutoring (at no charge, in most cases) and support. It is located on the second floor of the University Center, Suite N-201. The telephone number is 284-2800.

**My UM SYSTEM** - The My UM system permits you to view information such as student accounts, grades, employment opportunities and registration. To access the system, you will need to go to <http://easy.miami.edu/> or [www.miami.edu](http://www.miami.edu) and click on the My UM option at the top. If you're new to the system, click on "first time user" and follow the instructions. If you have any questions, please call 305-284-5455 or email the Registrar at [registrar@miami.edu](mailto:registrar@miami.edu).



**RSMAS LIBRARY** - The RSMAS library has extensive holdings in the literature of atmospheric and marine sciences and marine affairs. It also has direct access to other UM Library systems. For information, please call the library at (305) 361-4060 or visit the website at: <http://www.rsmas.miami.edu/support/lib/>

**MATH LAB** - The Math Lab offers individual tutoring to students on appointment basis. Students registered in math courses below the 300 level are given priority. Please contact Dr. Leticia Oropesa at 284-2575 for more information.

**CHEMISTRY RESOURCE CENTER** - Assists all students taking 100 - 200 level chemistry courses. Graduate students provide individual and small group tutoring. Call 284-5165 for more information.

Please consult the Undergraduate Bulletin of the University of Miami at  
[www.miami.edu/bulletin](http://www.miami.edu/bulletin)  
for other university resources not listed above.

# *Internships and Jobs* – are viewable on the window of the MSC office.

We also maintain binders which contain numerous internship and job opportunities. You may also wish to view the following websites:

## **RECENTLY POSTED INTERNSHIPS:**

**NSF REU –**

[http://www.nsf.gov/crssprgm/reu/reu\\_search.cfm](http://www.nsf.gov/crssprgm/reu/reu_search.cfm)

**NOAA – Educational Partnership Program**

<http://epp.noaa.gov>

**DOLPHINS PLUS**

<http://www.dolphinsplus.com>

**SOUTH FLORIDA STUDENT SHARK PROGRAM**

<http://www.rsmas.miami.edu/groups/fmq/research/sfssp.html>

**WHALE CENTER OF NEW ENGLAND –**

<http://www.whalecenter.org/research-whales/whale-center-internships.html>

**HOPKINS MARINE STATION, STANFORD UNIVERSITY**

<http://hopkins.stanford.edu/careers.htm>

**MARINE BIOLOGY WEB, SUNY STONY BROOK**

<http://life.bio.sunysb.edu/marinebio/intern99.html>

**NATIONAL WEATHER ASSOCIATION**

<http://www.nwas.org/jobs.html>

**MARINE CONSERVATION BIOLOGY INSTITUTE**

[http://www.mcbi.org/resources/res\\_career.htm](http://www.mcbi.org/resources/res_career.htm)

**AMERICAN METEOROLOGICAL SOCIETY**

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

**SEA GRANT MARINE CAREERS**

<http://www.marinecareers.net/>

**SOCIETY FOR MARINE MAMMALOGY**

<http://www.marinemammalogy.org/strat.htm>



# *Student Organizations -*

There are several student organizations at the University of Miami, which deal with environmental issues and marine affairs. Among them are:

**RHO RHO RHO** - The Marine Science Honor Society. Members work to develop research skills, scholarship, and career opportunities for fellow students. They are also dedicated to service to the marine community. More information is available on the Rho Rho Rho website at: <http://penguin.bio.miami.edu/rhorhorho/>

**MARINE MAMMAL STRANDING NETWORK** - This organization works with the National Marine Fisheries Service to respond to marine mammal strandings in Southeast Florida. It also organizes training for members in marine mammal photo identification, anatomy, and physiology. For information, you may email [mmstcanes@gmail.com](mailto:mmstcanes@gmail.com).

**SCUBA CLUB** - The club has been active in sponsoring weekend dives that have archaeological and photographic as well as scientific appeal. It also invites locally and nationally renowned speakers to its meetings. If you like to dive, this is a great way to meet people. The club is open to all University of Miami students. For more information you may go to: [www.umscuba.org](http://www.umscuba.org) or email [umscuba@gmail.com](mailto:umscuba@gmail.com) .



**PROPELLER CLUB** - The Propeller Club Port of University of Miami fosters understanding of marine and maritime industries with meetings and invited lectures. The club has close ties with the *Propeller Club Port of Miami*. For information, please contact Prof. Maria Estevanez at: [mestevanez@rsmas.miami.edu](mailto:mestevanez@rsmas.miami.edu).

**EARTH ALERT** - This environmental club has been active across the campus. Among its projects are campus recycling, highway and beach clean-ups, and waterway monitoring. If interested, please email: [earth\\_alert@yahoo.com](mailto:earth_alert@yahoo.com)

**SAILING CLUB** - This organization was founded to promote the great sport of sailing through both recreational and competitive means. The club sails every Sunday from the RSMAS campus and provides a beach and picnic atmosphere along with the fun and excitement of sailing. For information, please email [sailingcanes@gmail.com](mailto:sailingcanes@gmail.com).

**AQUARIUM CLUB** - This newly formed club was founded last semester and is open to students who currently maintain aquariums, would like to start one up, or anyone who simply has an interest in aquariums. If you would like to learn more about this group, please signup in the MSC office and you'll be added to their email list. You may also contact club board member Kasey Cantwell at [k.cantwell@umiami.edu](mailto:k.cantwell@umiami.edu).

**ATMOSPHERIC CLUB** - The Atmospheric Club participates in the National Forecasting Contest, visits weather laboratories and operates their own weather station. Club members also participate in atmospheric research and present at local and national meetings. For additional information, please email: [atmocub.studorg@miami.edu](mailto:atmocub.studorg@miami.edu)



**If you are interested in these organizations, please visit the Marine Science office.**

The clubs normally post their meeting times and locations, and the names and telephone numbers of their contact persons on the MSC office window during the first two weeks of classes. Throughout the semester, current information is available from the club mailboxes, which are located inside the MSC office.



# RSMAS SHUTTLE SCHEDULE - SPRING 2010



**January 19, 2010 — May 12, 2010**

**Monday through Friday**

*Shuttle service ends on the last day of classes.*

<b>Departure Time</b>	<b>To and From</b>
7:45 AM	Departs Coral Gables Palm Court to Viscaya Metrorail
8:15 AM	Departs Viscaya Metrorail Station to RSMAS
8:30 AM	Departs RSMAS to Coral Gables Palm Court
9:00 AM	Departs Coral Gables Palm Court to Viscaya Metrorail
9:30 AM	Departs Viscaya Metrorail to RSMAS
10:00 AM	Departs RSMAS to Coral Gables Palm Court
11:00 AM	Departs Coral Gables Palm Court to RSMAS
11:30 AM	Departs RSMAS to Coral Gables Palm Court
<b>12:00 — 1:00 PM</b>	<b>No Service</b>
1:00 PM	Departs Coral Gables Palm Court to RSMAS
2:15 PM	Departs RSMAS to Coral Gables Palm Court
2:45 PM	Departs Coral Gables Palm Court to RSMAS
3:30 PM	Departs RSMAS to Viscaya Metrorail Station
3:50 PM	Departs Viscaya Metrorail Station to RSMAS
4:30 PM	Departs RSMAS to Gables Palm Court
5:00 PM	Departs Coral Gables Palm Court to RSMAS
5:30 PM	Departs RSMAS to Coral Gables Palm Court (with stop at Viscaya Metrorail Station)

## UNIVERSITY OF MIAMI ACADEMIC CALENDAR

**SPRING 2010**

Subject to Change

**69 Class Days Per Semester**

Jan 5	Tues	Deadline for Readmission
Jan 4 - 15	Mon-Fri	INTERSESSION
Jan 12	Tues	Housing Available for Students
Jan 12	Tues	International Student Orientation
Jan 13	Wed	Orientation Begins
Jan 18	Mon	HOLIDAY (MARTIN LUTHER KING, JR. DAY)
Jan 19	Tues	CLASSES BEGIN
Jan 19	Tues	Late Registration Fees in Effect
Jan 27	Wed	Last Day for Registration and to Add a Course
Feb 3	Wed	Last Day to Drop a Course Without a "W"
Feb 3	Wed	Last Day to Make a Change in Credit-Only Designation
March 1	Mon	Academic Alert Grades Due in myUM
March 5	Fri	Last Day to Apply for Graduation for Spring, Summer 1 and 2
March 13 - 21	Sat-Sun	SPRING RECESS / INTERSESSION
March 29	Mon	Registration Appointments Available on myUM
April 2	Fri	Last Day to Drop a Course
April 12	Mon	Registration for Fall Semester 2010 & Summer 2010* (Begins)
April 16	Fri	Magna/Summa Theses Due in Honors Program Office
April 16	Fri	Graduate Students: Last Day to Defend Dissertation/Thesis for Spring 2010 Graduation
April 30	Fri	CLASSES END (11:00 PM)
May 1 - 4	Sat-Tues	Reading Days
May 5 - 12	Wed-Wed	FINAL EXAMS
May 12	Wed	Graduate School Deadline for Completion of Dissertation/Thesis
May 12	Wed	SEMESTER ENDS (11:00 PM)
May 13	Thurs	Honors Day Convocation
May 13	Thurs	SPRING COMMENCEMENT EXERCISES - All Graduate Degrees
May 14	Fri	SPRING COMMENCEMENT EXERCISES - All Undergraduate Degrees
May 14	Fri	Housing Closes at NOON for Non-Commencement Participants
May 15	Sat	Housing Closes at NOON for Commencement Participants
May 17	Mon	Final Grades Released by Faculty in myUM by Noon
May 19	Wed	Final Grades Available to Students in myUM

*\*As Scheduled By Appointment*

Updated September 15, 2009

[Most up-to-date calendars available at www.miami.edu/registrar](http://www.miami.edu/registrar)



## 2010 Sea Secrets Lecture Series Unveiled

Photo credit: Jenny Huang

Virginia Key, Fla. — December 28, 2009 — The University of Miami's Rosenstiel School of Marine and Atmospheric Science, and the Ocean Research and Education Foundation, today announced the roster of distinguished scientists and explorers who will speak in the 2010 *Sea Secrets* lecture series. The events, which are free and open to the public, are designed to provide insight and information about the oceans that cover two-thirds of our planet, and much of which, are still an enigma. Programs take place in the Rosenstiel School Auditorium, 4600 Rickenbacker Causeway on Virginia Key, beginning with a reception at 5:30 p.m., followed by the lecture at 6:00 p.m. Sponsored by The Elizabeth Ordway Dunn Foundation, The Charles N. and Eleanor Knight Leigh Foundation and Southern Wine & Spirits, Sea

Secrets is designed for the South Florida non-scientific community.

The following is the schedule for *Sea Secrets* in 2010:

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### WEDNESDAY, JANUARY 13, 2010: Voyages of Marine Voyeurism

#### Ned and Ana de Loach

Sex is the engine of natural selection. From the curious courtship rituals of frogfishes, flounders and flasher wrasses to mass spawning aggregations of Nassau grouper, join Ned and Anna de Loach, co-authors with Paul Humann of eight marine life field guides. The team has spent the past two decades capturing the portraits and behaviors of underwater creatures on film and video. Their dazzling collection reveals – in many cases for the first time – some of the most dramatic reproductive strategies in the animal kingdom. Their work includes the mating antics of invertebrates like the blue ringed and wunderpus octopuses, and flamboyant cuttlefish, as well as many additional rare sights from the sea.

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### WEDNESDAY, FEBRUARY 17, 2010: Crustacean Fascination

#### Trevor Corson

Join us for an entertaining and educational evening with acclaimed author Trevor Corson, whose bestseller *The Secret Life of Lobsters* was named a 'Best Nature Book of the Year' by *USA Today* and *Discover* magazine. Trevor spent two years working as a commercial lobster fisherman in Maine before chasing a team of renegade lobster scientists around New England for a year to write his book. He will share his insights into the hilarious undersea antics of lobsters, the rugged lives of the fishermen who catch them, and a rare conservation success story where fishermen and scientists collaborated to protect this important resource in an age of vanishing seafood. A guest judge on the *Food Network's* hit TV show "Iron Chef America" and a regular guest on *NPR*, Trevor is also the author of *The Story of Sushi: An Unlikely Saga of Raw Fish and Rice*, and will be signing copies of his books after the talk.

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### WEDNESDAY, MARCH 17, 2010: Tagging & Tracking: A Whale of a Tale

#### John Calambokidis

Blue whales are the largest animals that have ever lived on the planet and they were almost driven to extinction by whalers. Now, new studies are revealing secrets of blue and humpback whale migrations and underwater behavior. John Calambokidis, a Research Biologist with Cascadia Research, has been studying these marine creatures for more than 20 years. In 2009, his research on blue whales was featured in *National Geographic* magazine, as well as in a 2-hour special on the *National Geographic Channel*. Using new tags attached with suction cups, his research has provided a unique view into the underwater lives of these giants and also some of the threats they face. In addition to photographs, John will show exciting footage of blue whales feeding, taken from the perspective of a blue whale.

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### WEDNESDAY, APRIL 7, 2010: Angling For Conservation

#### Mark Sosin

Fish live in a watery parallel universe, unfamiliar to most humans. Understanding them and their habits, especially when trying to catch them requires great deal of knowledge. Mark Sosin has spent decades as a fish watcher and angler, teaching a generation of fishermen the tactics, tackle, and the techniques of sustainable marine angling. As executive producer and host of "Mark Sosin's Saltwater Journal" broadcast on *Fox Sports*, *Armed Forces Television Network*, and *MyOutdoorTV.com*, he has become one of America's most well recognized fishing authorities. Mark will discuss his award-winning career, as well as his recent book, *Mark Sosin: A Sportman's Memoir*.

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# RSMAS MARINE SCIENCE UNDERGRADUATE FELLOWSHIP Summer 2010



The University of Miami, Rosenstiel School of Marine and Atmospheric Science (RSMAS) Summer Undergraduate Research Fellowship Program is designed to introduce bright and energetic undergraduates to research in the marine and atmospheric sciences. The intensive summer program allows undergraduate students the opportunity to experience graduate level research and school.

The summer undergraduate fellows will conduct their research at the Rosenstiel School of Marine and Atmospheric Science located on Virginia Key, an island in Biscayne Bay connected by a causeway to metropolitan Miami, Florida. A RSMAS faculty member is assigned to each summer undergraduate fellow, according to the student's educational background and interests. The students will spend eight (8) weeks engaged in laboratory research at RSMAS.

The School's basic and applied research interests have grown to encompass virtually all of the marine and atmospheric sciences: Marine and Atmospheric Chemistry, Marine Biology and Fisheries, Applied Marine Physics, Physical Oceanography, Meteorology, and Marine Geology and Geophysics. RSMAS is one of the five largest oceanographic facilities in the United States and is the only institution of its type located in a tropical setting.

All fellows are expected to attend scientific lectures relevant to current research in the marine sciences, and present a short seminar on their summer research experience. The fellowship includes a \$2,000.00 stipend, campus housing in the dorms on a share basis, with the possibility of travel expenses. **The Summer Undergraduate Fellowship Program runs from June 1, 2010 through July 31, 2010.**

## **ELIGIBILITY:**

Fellowships are offered on a competitive basis to United States citizens or permanent residents who are juniors or seniors enrolled full-time at a four-year college or university, and have a grade point average of 3.0 or better.

## **HOW TO APPLY:**

Interested applicants may apply by submitting a complete application package. A complete package includes:

1. COVER LETTER. A typed letter from the student stating research interests, experience, educational goals, career objectives, and any other relevant information. Please send a resume or CV.
2. FACULTY LETTER OF REFERENCES (3). Each letter must be sealed in an official university envelope.
3. TRANSCRIPT. Most recent official transcript.
4. A SIGNED AND DATED APPLICATION. The application may be found on the Internet [here](#).

All of the above required items must be postmarked no later than **FEBRUARY 5, 2010** and mailed to:

Rosenstiel School of Marine and Atmospheric Science  
Dr. Larry Peterson, Associate Dean for Academic Affairs  
4600 Rickenbacker Causeway  
Key Biscayne, FL 33149  
(305) 421-4155

**FELLOWSHIPS WILL BE AWARDED BY APRIL 30, 2010**