

**Organization of
Biological Field Stations**

**Newsletter
No. 66
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OBFS News

The Newsletter of the Organization of Biological Field Stations • May 1998
 Editor: David S. White, Hancock Biological Station

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OBFS Home Page <http://jasper.stanford.edu/OBFS/>

OBFS Election Results

Changes to Constitution and Bylaws

- (1) To create office of Network Coordinator

Constitution, Article 4 Approved
Bylaws, 2 Approved

- (2) To establish OBFS Restricted Fund

New Bylaw Approved

Election Results

President	Art McKee
Vice President	Shorty Boucher
Secretary-Treasurer	Peter Connors
Member at Large	Hilary Swain

OBFS expresses its thanks to the other candidates who were willing to give of their time to the Society.

Peter G. Connors, OBFS Secretary

The First FIRST Project Meeting

The Faculty Institutes for Reforming Science Teaching through Field Stations (FIRST) project held its first meeting in mid-May at OIMB. The project is supported by the National Science Foundation and conducted under the direction of Jan Hodder of the Oregon Institute of Marine Biology and

Diane Ebert-May, Director of the Science and Mathematics Learning Center at Northern Arizona University. The second FIRST project meeting will take place at Archbold Biological Station immediately following the annual OBFS meeting. Jan Hodder will provide an update at the annual meeting.

An Action Plan for Database Networking of OBFS

Representatives of OBFS met at the National Center for Ecological Analysis and Synthesis (NCEAS) May 17-22, 1998 to develop ways to involve biological field stations in strategic environmental issues. During the workshop, a framework was developed for the establishment of a network among OBFS sites in collaboration with

the Long Term Ecological Research (LTER) sites, NCEAS, and the San Diego Supercomputing Center (SDSC). A report from the workshop is now being edited and should be available by the annual OBFS meeting. Jack Stanford and Art McKee will provide updates at the annual meeting at Archbold Biological Station.

OBFS Display

The OBFS display is available for meetings. It is a very good way to advertise the activities of OBFS and the importance of field stations in research and teaching. The display may be reserved by contacting Nina Consolatti, Facilities Coordinator, Kellogg Biological Station, Michigan State University, 3700 East Gull lake Drive, Hickory Corners, Michigan 49060. Phone: 616/671-2228; Email: Consolatti@kbs.msu.edu. Contact Nina also for special information on shipping and handling the display.

Also available for the asking from Nina Consolatti are two NSF sponsored workshop reports on data management

at field stations. Contact her at the addresses given above for the OBFS display.

Data Management at Biological field Stations. Report of a Workshop May 17-20, 1982, W.K. Kellogg Biological Station, Michigan State University (the 'green' book)

Data Management at Biological Field Stations and Coastal Marine Laboratories. January 1992, Report of an Invitational Workshop, April 22-26, 1990, W.K. Kellogg Biological Station, Michigan State University (the 'blue' book)

An Introduction to New OBFS Member Stations

La Suerte Biological Field Station

La Suerte Biological Field Station is located in northeastern Costa Rica in Central America (10° 26' 30" ; 83° 46' 15" W). This lowland neotropical region remains one of the most biologically diverse in the world. The field station encompasses 700 acres of advanced secondary forests, swamps, marshes and pasture. In addition, much of the property lies along the Río Suerte, a beautiful flowing river that empties into the Caribbean at Tortuguero National Park. The area is home to thousands of plant and insect species as well as hundreds of species of amphibians, reptiles, birds (222 species: see our web site for the bird list at La Suerte) and mammals. The list of animals include three monkey species (white-face

capuchins, mantled howlers and spider monkeys), pacas and agoutis, keel-billed toucans, white-crowned parrots, strawberry poison-dart frogs, eyelash vipers and green iguanas. La Suerte Biological Field Station was inaugurated in 1993 and is devoted exclusively for programs of research, education, and conservation. The Field School offers broad undergraduate and graduate training in Neotropical field ecology. Classes are limited to around 22 students. With one senior faculty and three graduate teaching assistants per course, the small class size insures an optimal student:faculty ratio of 1:6. Courses include primate ecology and behavior, rainforest ecology, ornithology, herpetology, rainforest art, and the biology of neotropical fishes. Tens of students who have participated

in our educational and research programs have gone on to graduate school and become successful professionals. In addition several long-term research projects are ongoing at La Suerte. Our goals at the Field School are twofold: We want to challenge students intellectually and provide them with the problem-solving skills and academic background needed to address key issues in tropical ecology, environmental studies, and conservation. At the same time, we hope to foster in students a love of inquiry, exploration, and learning about their natural world. This is accomplished by having the students actively participate in science. Since it was established in 1993, La Suerte has attracted over 500 students from across the United States, Canada, Latin America, India and Japan to study tropical rainforest ecology and conservation. We have also established a field station, and educational and research center in Nicaragua called Ometepe.

Long-term goals for La Suerte include 1. To offer field-oriented courses in animal behavior and tropical ecology that are available to both undergraduate and graduate students; 2. Educate students from all parts of the globe about the need to protect and conserve tropical rainforests and the natural heritage of our planet; 3. Census and inventory the flora and fauna of La Suerte and develop a plan for the sustained management of their forests; 4. Initiate long-term ecological projects on the flora and fauna; 5. Educate and train Costa Rican students in ecology, conservation, field biology; 6. Initiate long-term research to obtain scientific information for management,

conservation decisions, and identify key properties for forest habitat purchases to construct biological corridors

The Faculty and Director of Research of the La Suerte Biological Field Station in Costa Rica have received permission from the Nicaraguan Government to create a series of education centers and protected forests throughout their country. With the establishment of the Estación Biológica de Ometepe in January of 1997 we welcome you to join us in our efforts to protect, conserve, manage, and learn about the flora and fauna of Nicaragua. In December of 1997 we inaugurated our first primate behavioral and ecology field class in Nicaragua. Several new classes on tropical ecology, primate biology, ornithology, and herpetology will be taught at the site Summer 1998, Winter 1999, and Summer 1999. This represents a unique opportunity to participate in what is the start of a long-term study of the ecological role of monkeys, birds, bats, and other animals in influencing forest regeneration and plant species diversity in the tropical rainforests of Central America. Nicaragua has been called "the land passed by". Unlike other countries in Central and South America, the forests of Nicaragua have been relatively untouched by logging companies, tourists, and multinational corporations over the past 25 years. Fully one-third of the tropical lowland rainforests in Nicaragua are still intact. This is due to several historical, cultural, and environmental factors. Nicaragua is a country rich in fertile soils, marine and coastal resources, and tropical forests. It is located in the middle of Central America, bordered by the Pacific and

Caribbean oceans, and by Honduras to the north and Costa Rica to the south. The country got its name from the "Niquiranos" a group of people who settled in this region from Mexico in the eighth century AD.

The site that we have selected for our first ecological-educational-and research station is **Isla de Ometepe**. Ometepe is an island of 276 square kilometers lying in Lake Nicaragua. It is the largest island in the world situated in a fresh water lake. Two majestic forested volcanoes dominate the island. One called Madera raises 1,400 meters above the lake. The other, Concepción is even taller and reaches a height of nearly 1,700 meters. Ometepe is situated in southeastern Nicaragua and has a population of 30,000 people. The majority of the people who live on the island are of Indian ancestry.

The word Ometepe is a Nahuatl word that means "land of 2 volcanoes" (Nahuatl is a language spoken by the ancient Aztecs and their descendants). Crater lakes, beautiful streams with cascading water, cloud forests, and lowland forests are found on the island, along with some 80+ species of birds, mantled howler monkeys (*Alouatta palliata*), white-faced capuchin monkeys (*Cebus capucinus*), sloth, deer, other tropical forest mammals, reptiles, and amphibians. Our field camp is located on a bay overlooking Lake Nicaragua.

For additional information on La Suerte or Ometepe, please visit our WEB site at <http://www.studabroad.com/lasuerte> or email lasuerte@Safari.net. Dr. Paul A. Garber, Director of Research and Education, La Suerte Biological Field Station.

Wind River Canopy Crane Research Facility (WRCCRF)

The WRCCRF site, located within the T.T. Munger Research Natural Area in the Gifford Pinchot National Forest in Washington state, features an 85m tall Liebherr 550HC tower construction crane, allowing researchers to access the canopy of a 400-600 year old Douglas fir (*Pseudotsuga menziesii*) and western hemlock (*Tsuga heterophylla*) forest [<http://weber.u.washington.edu/~wrccrf>]. The development of the site as a research tool began in 1995 through the efforts of Dr. Jerry Franklin, Project Director, and Dr. Dave Shaw, Site Director, from the University of Washington utilizing primarily U.S. Forest Service and National Science Foundation funds.

Our mission at the WRCCRF is to provide safe and reliable canopy access for those wishing to better understand the dynamics of this coniferous forest ecosystem and to foster an environment for interaction and exchange of information.

To a large extent our mission is being realized in the collaborative efforts between the WRCCRF and the Western Region of the National Institute of Global Ecological Change (WESTGEC) directed by Tom Suchanek at University of California at Davis [<http://nigec.ucdavis.edu/westgec/>]. WESTGEC studies at the WRCCRF are focusing on diverse components of the ecosystem: (1) needle, branch, tree and canopy level processes relating to controls on productivity, (2) carbon storage within above-ground and below-ground

components, (3) empirical tower-based measurements of the flux of greenhouse gases from the landscape level to the atmosphere, (4) remote sensing and modeling of water and CO² flux, and (5) parameterization of biogeochemical models using empirical data from the components listed above. This collaborative process has created a site at which more holistic approaches to forest research are possible. Here we can also make significant advances in our understanding of terrestrial greenhouse gas flux within an old growth forest in order to determine whether this system represents a potential source or sink of global carbon.

Gump Research Station, Moorea, French Polynesia

The Gump Research Station (GRS) offers unique opportunities for tropical field research in marine, freshwater and terrestrial environments. The station is located on the west bank of the spectacular Cook's Bay of Moorea, an island known for lush volcanic peaks, turquoise lagoons and long, deep bays. The goal of GRS is to maintain a small but efficient field station where students and researchers can use their time effectively while enjoying one of the world's most beautiful settings.

The station consists of housing accommodations for 35 (dormitories, bungalows and apartments), two laboratories, a lecture hall, diving facilities, and a fleet of boats. Water tables provide unfiltered seawater and freshwater. Tropical marine habitats ranging from mud and sand flats to deep oceanic waters, inner and outer reefs,

algal ridges and a lagoon with small patch reefs and seagrass beds are close to the station. The rugged relief of Moorea offers a variety of terrestrial habitats and communities. Streams contain a unique diadromous fauna.

Courses on island biology and geomorphology, and scientific diving are offered annually by UC Berkeley. Courses from other colleges and universities in marine biology and tropical ecology have been offered and inquiries about holding new courses there are welcome. Because we are located in French Polynesia an approved scientific permit, which is submitted to their government through the GRS, is required. A three-month lead time is necessary for permit evaluation. For further information, Please contact Vincent Resh, Director, Gump Research Station, e-mail: vresh@nature.berkeley.edu.

Bull Shoals Field Station

Southwest Missouri State University is completing arrangements with the Missouri Department of Conservation and US Army Corps of Engineers for a special use permit on land at the Drury-Mincy Wildlife Area, a 5,600 acre reserve in Taney County, Missouri. The land is located in the Ozark mountains, includes oak-hickory forest and glade habitats, and is adjacent to a large reservoir (Bull Shoals Lake).

The Biology Department, in collaboration with other departments in the College, plans to establish a field station at the site, and recognizes the enormous potential of such a station to

our programs at SMSU. The station will be used as a base for student and faculty research, teaching field courses, and monitoring the rapidly-changing environment of the White River drainage. Because of the unique communities in the area, we expect to also host collaborators from other institutions.

Currently, the field station site overlooks the lake and includes an old stone house and two outbuildings.

Initially, researchers at the station must be willing to "rough it". After developing a research program at the site over the next several years, we plan to solicit funding for renovations and build a research lab. As the station develops, we plan to add a classroom building and cabins, which will allow teaching on-site field courses. For further information, contact Dr. John Havel, phone 417/836-5308 or email jeh694f@mail.smsu.edu.

THE 1998 ORGANIZATION OF BIOLOGICAL FIELD STATIONS ANNUAL MEETING at ARCHBOLD BIOLOGICAL STATION, FLORIDA, 17-20 SEPTEMBER 1998

The 1998 OBFS Annual Meeting will be held at Archbold Biological Station <www.archbold-station.org> from Thursday, 17 September, through Sunday, 20 September 1998. Archbold is located in central Florida near the town of Lake Placid, approximately 2-3 hours from Orlando, Tampa, or Miami. Archbold is an independent research facility devoted to long-term ecological research and conservation. (See: Swain, H. M. 1998. Archbold Biological Station and the MacArthur Agro-ecology Research Center. *Bull. Ecol. Soc. Am.* 79 (1):114-120.)

Pre-meeting Field Trip Overview

Plans for the meeting include a choice of three optional pre-meeting field trips on Thursday, 17 September, (1030 to 1500-1530) at nearby facilities. We suggest you make lodging reservations near your field trip site on the evening of Wednesday, 16 September, to facilitate a morning start. Persons who register for a pre-meeting field trip will be sent a detailed information packet, including an itinerary.

1. **Harbor Branch Oceanographic Institution**, <www.hboi.edu>, in Ft. Pierce, on Florida's east coast, about 1½ hours east of Archbold. Harbor Branch is an independent oceanographic research institute with a focus on marine science, aquaculture, environmental research, marine operations, and biomedical research.
2. **Disney Wilderness Preserve**, (call 407-935-0002 for a brochure), is just south of Orlando, about 2 hours north of Archbold. The Preserve is a creative mitigation project restoring 3,000+ acres of uplands and wetlands: established in 1992 as a cooperative agreement between The Nature Conservancy, the Walt Disney Company, and several public agencies.
3. **Riverwoods Field Laboratory**, <riverwoods.ces.fau.edu>, on the Kissimmee River, 2 hours south of Orlando and 40 minutes east of Archbold. Riverwoods serves as the center for ecological research for one of the largest river restoration projects in the world, including many projects by the South Florida

Water Management District.

Each of the three pre-meeting field trips will start at 1030 on Thursday, 17 September and will end sometime between 1500-1530, dependent on which trip, to allow attendees sufficient driving time to Archbold Biological Station for the evening reception and dinner.

Annual Meeting Overview

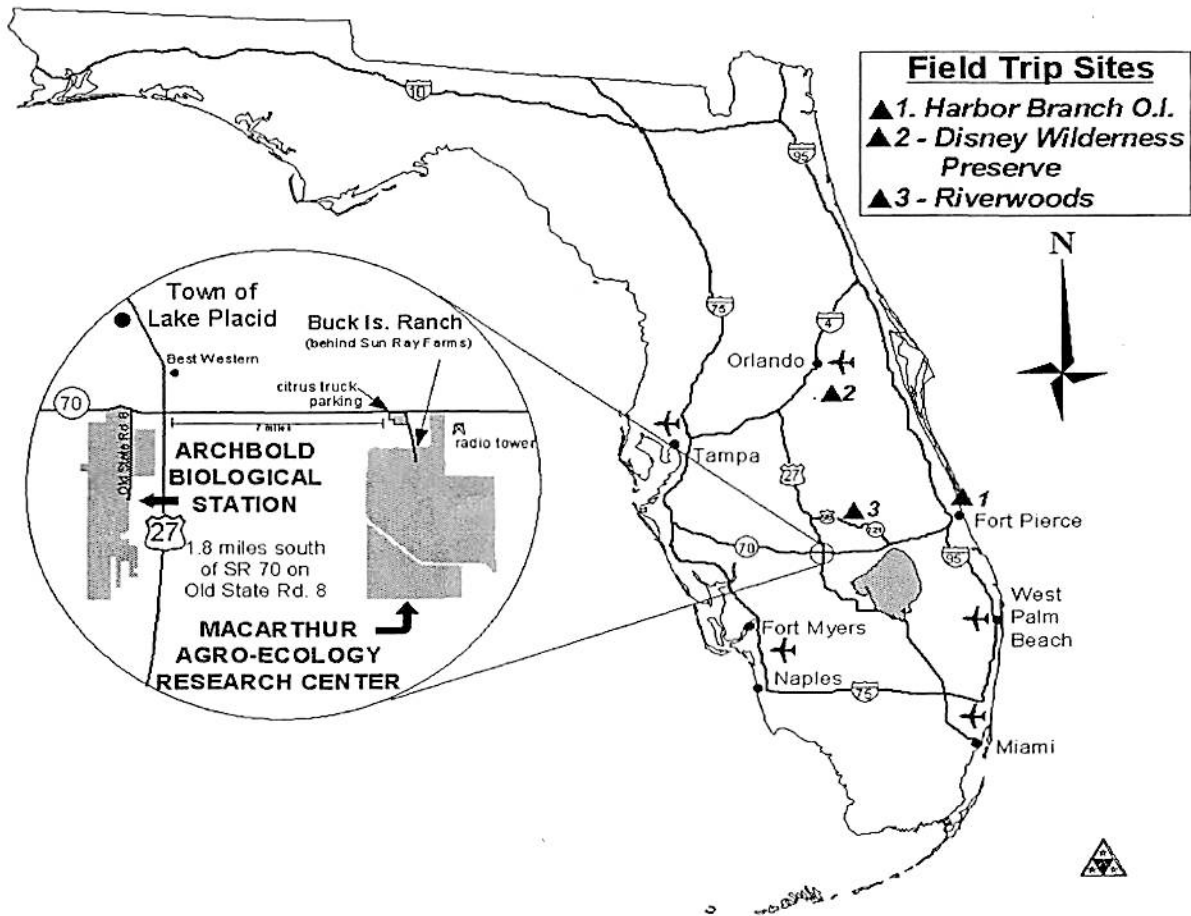
The official 1998 OBFS Annual Meeting will start at 1800 on Thursday, 17 September, with an OBFS Welcome Reception and Dinner at Archbold. Business Meetings will begin early on Friday, 18 September. One theme of the Meeting will be the role of field stations in regional conservation issues. The Meeting will include field trips around the globally significant scrub landscape of the Station, with opportunities to see numerous rare native plant and animal species, and the fire management program. Participants will also visit the MacArthur Agro-ecology Research Center (MAERC), a major division of Archbold, which is a 10,500-acre working cattle ranch to examine the interface between ecological patterns and processes, agricultural practices, and economics. Social events planned include a picnic at Lake Annie (a pristine sinkhole lake on the Station property), the OBFS Auction, and a barbecue. There will be reports from (a) the National Science Foundation (NSF) sponsored "Faculty Institutes for Reforming Science Teaching" (FIRST) project on enhancing undergraduate faculty teaching in ecology using field stations and (b) the OBFS Workshop at the National Center for Ecological Analysis and Synthesis (NCEAS) on integrated data management among field stations. The Meeting will conclude after lunch on Sunday, 20 September.

Meeting Accommodations

Archbold can house approximately 50 people at the Station and another 20 at the Ranch. It can provide meals for 70-100 people. Housing is variable with some bunk-bed dorm rooms and shared rooms in individual cottages. Cottage accommodation is also available at the Ranch, about a 20-minute drive from Archbold. Linens and towels are provided at the Station and Ranch. There is no camping at the Station or the Ranch. If you prefer to make motel reservations, there is the Best Western Lake Placid Inn, which is 5 miles north of Archbold (details may be found on the second page of the Registration Form).

Travel

Airport travel options to Archbold are numerous, but all require a drive from either Orlando (2-2½ hours), Tampa (2-2½ hours), Miami (2½-3 hours), West Palm Beach (2 hours), or Ft. Myers (1½ hours – nearest airport but harder to get low fares). If you are participating in one of the pre-meeting field trips, we suggest flying to Orlando for the Disney Wilderness Preserve and to West Palm Beach for the Harbor Branch Oceanographic Institution and for the Riverwoods Field Laboratory.



The Region

September is still hot (upper 80's and lower 90's) and steamy in Florida, but our accommodations are air-conditioned and this is a good time to see flowering plants. Archbold is a great base from which to explore many of the other ecoregions of Florida. (See Myers, R.L. and J. Ewel (Editors). 1990. *Ecosystems of Florida*. University of Central Florida Press, Orlando.)

Personal Items

Suggested items to bring: item for the weird and wonderful OBFS Auction (your station's T-shirt or mug, a craft item from your region, poster, natural history book,...); cool comfortable walking clothes (including long pants); walking shoes/hiking boots; sun block; insect repellent; hats; water bottles; binoculars; rain jacket; and flashlight. Archbold also has swimming areas, a tennis court, and a basketball backstop.

OBFS Pre-Meeting Field Trip Information, 17 September 1998

You are invited to attend one of three pre-meeting field trips on Thursday, 17 September. The field trips will begin promptly at 1030 and end, at the latest, around 1500-1530. You will be mailed a pre-meeting field trip packet, depending upon your selection, along with your registration Information Packet.

1. Harbor Branch Oceanographic Institution, <www.hboi.edu>, 5600 U.S. 1 North, Ft. Pierce, FL 34946. This field trip is limited to 12-15 participants on 17 September at 1030. It includes a continental breakfast for early arrivals (before 1030), field trips, and lunch for a total cost of \$36. *We recommend that you fly into West Palm Beach.*

This field trip includes a 1030-1200 tour of the HBOI campus (submersible and ship operations facilities, the new Aquaculture Park, the collections component of the Harbor Branch Oceanographic Museum, and the Johnson Marine Education and Conference Center). Lunch will be from 1200-1300. A pontoon boat trip, 1300-1530, goes to marine environments near the Ft. Pierce inlet and HBOI. Trips will be guided by HBOI Education Center staff. Environments include mangrove forests, seagrass beds, sand and mud flats, floating docks and the open beach. Terrestrial environments include a *Sabal* palm and live-oak hammock and both natural and impounded wetlands.

You must arrange your own lodging the night of 16 September. Housing options include low-cost group housing on the HBOI campus for \$14 per night, per person. Local hotel accommodations range from \$50 to \$65 at group rates. HBOI reservations or hotel inquiries should be directed to Kim Roberts, 561-465-2400 ext. 500, at HBOI.

2. The Nature Conservancy, Disney Wilderness Preserve, (email: ecology@phoenixat.com or telephone: 407-935-0002), 6075 Scrub Jay Trail, Kissimmee, FL 34759. This trip is limited to 15 people, from 1030-1500, on 17 September. The total cost for the tour and lunch is \$30. *We recommend that you fly into Orlando.*

This trip includes a short presentation followed by a field tour of major plant communities, hydrologic restoration, pasture restoration, and prescribed burn sites. The Disney Wilderness Preserve is dominated by longleaf pinewoods with a wide variety of wetlands, including swamps and marshes found in small-to-large depressions throughout the pine flatwoods or fringing several lakes and a creek.

You must arrange your own lodging for the night of 16 September. A list of local motel accommodations may be obtained by contacting the Disney Wilderness Preserve at the above email or telephone address, or search the web for the many motels in Kissimmee.

3. Riverwoods Field Laboratory, <riverwoods.ces.fau.edu>, 100 Riverwoods Circle, Lorida, FL 33857. This field trip is limited to 15 people, from 1030-1530, 17 September. The field trip is at no cost, but you must provide your own picnic lunch and drink. In addition to the usual field attire, participants should wear shoes that can get wet. *We recommend that you fly into West Palm Beach.*

The trip includes a boat tour of ongoing Kissimmee River restoration projects and isolated wetlands guided by the South Florida Water Management District staff and the Kissimmee River Prairie manager.

You must arrange you own lodging the night of 16 September. Housing options include, at no charge, approximately 20 beds in cottages at Riverwoods, shared facilities, bring your own linens. Reservations may be made by contacting Carlos de la Rosa (email: delarosa@strato.net or telephone: 941-462-5330). There are no meals available on the Riverwoods site, but they do have cooking facilities available and you may wish to stop in Okeechobee and purchase your own groceries or perhaps an already prepared meal that you can store in the Riverwoods kitchen.

OBFS ANNUAL MEETING REGISTRATION FORM – 2 Pages

Please return (by mail or fax) a separate form for each member attending to: Penny M. DeVane, Archbold Biological Station, P.O. Box 2057, Lake Placid, FL 33862, Telephone: 941-465-2571, Fax: 941-699-1927, by **14 August 1998**. Details on the pre-meeting field trips can be found in the preceding section. A \$20 late fee will be charged on any registration received after 14 August 1998.

An Information Packet (including schedule, maps, pre-meeting field trip details) will be sent to all persons who register.

Contact information:

Name: _____

Address: _____

City: _____, State/Province: _____, Zip: _____, Country: _____

Telephone: _____, Fax: _____, Email: _____

Name tag information, please list as you would like to appear:

Name: _____

Station: _____

Title: _____

Attending spouse/family member name(s): _____

Travel/Length of stay plans:

I/(we) will be flying to: Orlando ____, West Palm ____, Miami ____, Tampa ____, Ft. Myers ____

Airport arrival date: _____, Airport arrival time: _____.

Will you be renting a vehicle at the airport? Yes ____, No ____

If yes, and if you would be willing to give a lift to another person(s), how many spare seats are in your car? ____

If no, we will post vehicle space availability information via the OBFS list server,

<jasper.stanford.edu/OBFS/>, for interested members to check out and contact other members directly.

Other travel plans: _____

Arrival date at Archbold: _____, Approximate arrival time at Archbold: _____.

Departure date from Archbold: _____, Departure time from Archbold: _____.

Are you scheduled to attend the NSF FIRST workshop following the OBFS meeting? Yes ____, No ____

All pre-meeting lodging arrangements at facilities other than Archbold are the responsibility of the individual. Please refer to the preceding field trip information section.

OBFS ANNUAL MEETING REGISTRATION FORM – Continued

Last Name: _____

OBFS Meeting and Archbold meal/lodging registration: *(The following rate includes all meeting costs, meals, and single bed lodging in non-smoking rooms beginning with the Reception/Dinner on Thursday, 17 September, through lunch on Sunday, 20 September. Extended stays/meals at Archbold will be billed separately.)* OBFS members have lodging priority. All beds will be held on a first come, first choice, basis. Families may be accommodated, if space is available.

Please indicate dietary preference: Regular _____, Vegetarian _____

Spouse/family member (#): Regular _____, Vegetarian _____

If you have any dietary restrictions, please specify: _____

OBFS meeting with meals and main house/cottage lodging at the Station: \$195 _____

OBFS meeting with meals at the Station, cottage lodging at the Ranch: \$180 _____
(This facility is approximately 15 miles from the main Station)

OBFS meeting with meals and dorm room lodging at the Station: \$180 _____
(Only 10 beds available at this rate)

Spouse/family member, meals and lodging only: \$175 _____

(Space extremely limited, a few double beds available, children Double, if available,
under 12 free) Y / N

OBFS meeting with meals but no lodging at the Station or Ranch*: \$150 _____

Preferred Roommate(s): _____

***If you prefer a local motel during the meeting, you are requested to make your own arrangements.**
The Best Western Lake Placid Inn (approximately 5 miles away, north of SR 70 – 2165 U.S. Hwy 27 South, Lake Placid, FL 33852, telephone: 941-465-3133) has set aside a block of rooms, at a rate of \$50 per night, for Archbold. When you call Best Western, please ask for Denise and mention that you are with the group from Archbold.

Find check enclosed, or bill my credit card for the following:

Pre-meeting trip: \$ _____ Number of persons:
1. HBOI (\$36/person) _____
2. DWP (\$30/person) _____
3. Riverwoods (\$ no charge) _____

Meeting cost: \$ _____

Late Fee (\$20 after 8/14): \$ _____

TOTAL: \$ _____

Method of Payment:

_____ Check (make payable to: Archbold Biological Station)

_____ Visa/MasterCard (Please DO NOT email credit card information)

Card # _____, Expiration date: _____

Name on Card: _____

THE OBFS NEWSLETTER

OBFS News is edited by David White and Cheryl Bullington and printed at the Hancock Biological Station, Murray State University. Items for inclusion in the newsletter can be mailed to the

Hancock Biological Station, 561 Emma Drive, Murray, KY 42071 or sent via email to david.white@murraystate.edu or cheryl.bullington@murraystate.edu

OBFS MAILING LIST

The following mailing list has been formatted for Avery # 5161 labels.



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Archbold Biological Station
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Arnot Teaching and Research Forest
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Dr Andy N Spencer
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Bard College Field Station
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Belle Baruch Institute for Marine Biology
Dr Madilyn Fletcher
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Bermuda Biological Station for Research, Inc
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4873 AUSTRALIA

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Corvallis, OR 97331

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Clio Smeeton
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Cochrane, Alberta
T0L 0W0 CANADA

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Otto, NC 28763-9218

Cranberry Lake Biological Station
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SUNY College of Environmental Science & Forestry
Syracuse, NY 13210

Darrin Fresh Water Institute
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