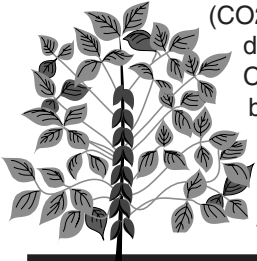


BIODIESEL TO BE OFFERED AT PORT EVERGLADES

By Pedro Montiero, Conservation Chair

Port Everglades stores and supplies most of the fuel in South Florida, and distributes it with over 1,000 petroleum tanker truck shipments per day. In April, some of these tankers will be delivering biodiesel, a cleaner burning alternative to petroleum-based diesel. The National Biodiesel Board (NBB) states that "biodiesel is made from renewable resources like soybeans and other natural fats and oils, grown in the United States."

The most obvious advantage of biodiesel is that the carbon dioxide (CO₂) that is released into the atmosphere during diesel combustion is offset by the CO₂ that is absorbed from the atmosphere by the agricultural crops during production. In this aspect, biodiesel is renewable, and reduces greenhouse gas emissions if used instead of petro-diesel. However, since fossil fuels are used during its production



and distribution, using biodiesel is no substitute for conserving energy by driving less and using more efficient products.



Current users of biodiesel include the Florida government; Florida Power and Light; Everglades National Park; Miami and Ft. Lauderdale Airports; the City of Coconut Creek; and the Ft. Lauderdale water taxis.* The improved availability of biodiesel should help drive costs down, as even with the tax incentives, biodiesel is still more expensive than the heavily subsidized fossil fuel diesel. Biodiesel can be consumed straight (B100) or in a blend such as 20% biodiesel and 80% petroleum-based diesel (B20). It can run in modern diesel engines with no modifications, but older diesel engines must have their hoses replaced with modern hoses that are compatible with biodiesel. NBB states that "use of biodiesel in existing diesel engines does not void parts and materials workmanship warranties of any major US engine manufacturer."

The US Department of Energy (DOE) and US Department of Agriculture (USDA) Biodiesel Lifecycle Inventory Study compared findings for a comprehensive "cradle to grave" inventory of materials used; energy resources consumed; and air, water and solid waste emissions generated by petroleum diesel fuels and biodiesel. Their comparison of the total "lifecycle" costs and benefits of each of the fuels concluded that compared to petroleum diesel, biodiesel is four times as efficient in utilizing fossil energy, and Biodiesel and B20 exhibit similar fuel economy to diesel fuel.

continued on page 2

Broward Sierra Programs

The **APRIL 5TH** Program will feature **Bob Wallace**, photographer, scuba diver and author of the children's book, *"The Adventures of Ichi - The Baby Deer"*, the first of a series of five books to be published. Bob will bring several of his rescued wild animals (maybe a Florida Panther) so be sure to bring your children for a close-up view of Florida creatures.



Bob's photos have appeared in National Geographic, Rolling Stone, Newsweek and the Saturday Evening Post. His undersea explorations include investigations of blue holes and underwater marine sanctuaries.

PLAN AHEAD TO ATTEND THESE PROGRAMS:

MAY 3RD: Central American Free Trade Agreement. How "free" trade deals undermine both environmental and worker protection, and even the government's ability to enforce their own laws. Presenter TBA.



JUNE 7TH: Citizen Initiatives Under Attack. Attorney Lesley Blackner, co-author of the *Florida Hometown Democracy amendment* brings an update.



JULY 5TH: "Hope Takes Wing", the saga of the ultralight flights to bring Whooping Cranes back to Florida's Chassahowitzka Wildlife Refuge after a hundred-year absence in eastern North America.



Doors open at 7:00 PM, committee reports at 7:30 and program at 8:00. Anne Kolb Nataure Center on Sheridan Street in Hollywood, East of U.S. 1

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We hope you enjoy our newsletter. Why not join us right now? Come along on an outing. Get involved, learn about local issues and how they affect you and your community. Just use the membership form on the back cover.



The Broward Sierra Club Leaders

- Chair**
Harold Hancock 954-566-9817
- Vice-Chair**
Loren Colburn 954-761-1355
- Secretary**
Louis Serra 954-442-0880
- Treasurer**
Max Goldstein 954-296-3411
- Energy Issues Chair**
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- Conservation Chair**
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- Everglades Chair**
Rod Tirrell 954-772-3865
- Outings Chair**
Jackie Fisher 954-434-2855
- Education Chair**
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- Fundraising Committee Chair**
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- Carrying Capacity Chair**
Linda Brown 954-764-1470
- Membership Chair**
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Broward Sierra News is published monthly for the members of the Broward County Group, Florida Chapter of the Sierra Club. Subscriptions are available for non-members. Send inquiries to: **Broward Sierra News**, P.O. Box 350432, Ft. Lauderdale, FL 33335

Membership Corrections -
To expedite any membership change (new addresses, etc.) or problems with your membership records please send your name, member number, old and new address or problem to:
Member Services, 85 Second Street, San Francisco, CA 94105-3441. 415-977-5653 or e-mail <address.changes@sierraclub.org> or <membership.services@sierraclub.org>
If further assistance is needed, please contact your local Membership Chair, Andrea Hagen 954-475-9399.

Committee Meetings

Executive Committee:

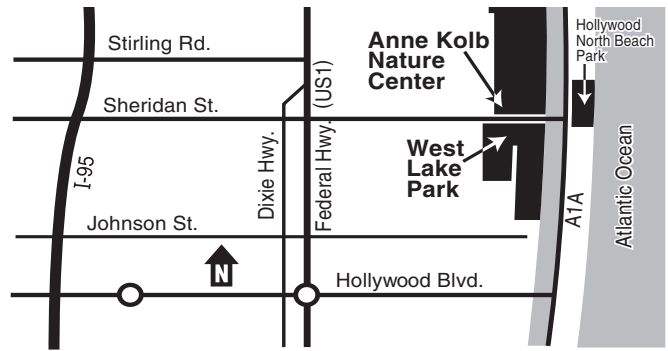
Meets the 3rd Monday of each month at 7:00 pm, in room 430a of the Broward County Governmental Center. For details call Loren Colburn at 954-761-1355 (or e-mail lorenac1101@hotmail.com).

Broward Sierra Club Social:

Meets the 4th Wednesday of each month from 6:30 to 8 pm. On April 27th we will be at Ginger Bay Café in Hollywood at 1908 Hollywood Blvd. 954-923-1230. For further info call Max Goldstein at 954-296-3411.

Carrying Capacity Committee:

Contact Linda Brown, Carrying Capacity Chair at (954) 764-1470 or e-mail lmbrown@communityusa.com.



Broward Sierra Club General Meetings

Held on the first Tuesday of every month at Ann Kolb Nature Center (954-926-2480). Outings sign-up start at 7:00 p.m. and the general meeting begins at 7:30 p.m. All members welcome!

To get to Anne Kolb Nature Center: Take 95 South to Sheridan St. exit. Go East past Federal Hwy. The entrance to Anne Kolb Nature Center will be on your left (After the sign for West Lake Park). The center is before the Intracoastal Bridge.

Biodiesel, continued from page 1

Average Biodiesel Emissions Compared to Petroleum Diesel¹

Emission Type	Linked to	B100	B20
Total Unburned Hydrocarbons	smog, ozone	67% reduction	20% reduction
Carbon Monoxide	smog, ozone	48% reduction	12% reduction
Carbon Dioxide	greenhouse gas	75% reduction	15% reduction
Particulate Matter (PM)	respiratory disease	47% reduction	18% reduction
Nitrous Oxides	smog, ozone	10% increase	2% increase
Sulfates	acid rain	100% reduction	20% reduction*
Soot (PM)	cancer study underway	84% reduction	17% reduction*

* This number is an estimate based on the results from B100 studies.

Biodiesel has superior lubricity (which reduces engine wear), and similar BTU content/performance ratings compared with petrodiesel. As the table indicates, biodiesel is also less dirty than petro-diesel. Moreover, biodiesel is essentially free of harmful aromatics such as benzene, toluene, and xylene.

One must wonder what impact growing biodiesel crops has on land use. Most biodiesel comes from soy, which yields on average about sixty gallons of biodiesel per acre each year. However, the NBB states that there is an annual surplus of one billion pounds of soy oil produced as a by-product of protein feed for livestock. That much oil could yield 130 million gallons of biodiesel, with 100 million pounds of glycerin left as a by-product. Perhaps we can use the glycerin to offset the grease used in soap, which is currently derived from waste livestock, cats, dogs, and other "unwanted" animals.

As biodiesel consumption increases, we should ensure that new sources of biodiesel are not increasing demand for land. New research by the University of New Hampshire claims that algae ponds at wastewater treatment plants can yield thousands of gallons of biodiesel per acre each year. Perhaps that would offer our sewage plants an economic incentive to clean up their waste and produce biodiesel, rather than injecting our

sewage under our aquifer or pumping it onto our reefs. This should reduce the algal blooms that are killing so much of our sea life.

What you can do:

Ask your local municipality to convert its diesel fleets to biodiesel, to save on main-tenance costs and significantly lower their harmful emissions of carcinogens.

Ask local marinas to provide biodiesel, then buy it for your boat, or ask the diving and fishing boats to use it. Tell them they'll have fewer seasick people and less soot to clean up.

Ask your local fuel station to provide biodiesel, then buy it instead of petro-diesel.

¹ National Biodiesel Board (NBB)
<<http://www.biodiesel.org/>>

SIERRA SOCIAL

The Broward Sierra would like to invite members and friends to the monthly social. It's a chance to get together in a casual setting, meet new people and chat with people who have the same concerns as you. This month we will be in Hollywood at the Ginger Bay Café, 1908 Hollywood Boulevard. If you have any questions call Max Goldstein 954-296-3411.

SUNSET CRUISE ON A TALL SHIP IN BISCAYNE BAY

The outings group is once again having its Tall Ship cruise of Biscayne Bay. Come enjoy the view of the Miami skyline at sunset from the sailing vessel *Heritage of Miami*, designed after the 19th century cargo and passenger schooners that once sailed the waters off Miami, the Florida Keys and Gulf of Mexico. She is reminiscent of another time when the ocean was the chief means of transporting goods from port to port.



The 2-hour tour captures the spirit and adventure of a century gone by. The cruise will be on Saturday April 16th for more information contact Jackie Fisher 954-434-2855.



John and Julia Heinlein and Lyn Silvestri relaxing on the March, 2004 cruise.



The Capt. of the Heritage of Miami and guest of Sierra Club member, Swami Lalitananda (2004)

YOU CAN MAKE A DIFFERENCE

Do you have planning skills? Do you have creative abilities? How about marketing skills? Partying skills, anyone?! **We need volunteers with all sorts of talents to join the newly formed fundraising committee.** Help raise local funds to support local Sierra Club conservation work. Did your new year's resolution include making a difference in your community? Join the Broward Sierra Fundraising Committee today and do just that! Be a part of a committee that makes a difference for Broward County's environment, make new friends, leave a legacy!

Think you don't have what it takes? Think again! Local efforts by residents who care is what makes the Sierra Club what it is today! Think you don't have enough time? Think again! Your commitment can be as extensive or as limited as you wish. We'll find a role for all fundraising committee volunteers – a few minutes per week to a few hours per month can go a long way toward making a difference in your local community activist budget! Think the Broward County Sierra Club Fundraising Committee is strong enough without you? Think again! We are a newly forming committee – and trust me, we need all the help we can get!!

What is on the Broward County Fundraising Committee agenda for this year? A garage sale? An environmental gala? A cookie bake? A silent auction? Join us in making these, and many more exciting events happen! WHEN?! WHERE?! **Contact Tina Voci, Fundraising Committee Chair at tiiinnaa@gmail.com or at 954-817-3352 TODAY!**

Broward Sierra Group Outings

*To preserve a place, you must believe in it.
To believe in it, you must see it.*

SATURDAY, APRIL 2ND. WILDFLOWER BIKE RIDE IN EVERGLADES NATL. PARK WITH ROGER HAMMER.

Take a leisurely bike ride on Long Pine Key, in Everglades Nat'l. Park to Pine Glades Lake and back. Approximately 12 miles. Entire trip takes about 4 hours. Bikes available for rent or bring your own. Rated Moderate, due to distance. *Cost: Mem. \$25 (bring own bike), \$30 (rent trec bike); Non-mem. \$30 (bring own bike), \$35 (rent trec bike) PLUS \$10 per car entrance into park.*



Leader: Jackie Fisher 954-434-2855
Assist. Leader Kip Fisher 954-434-2855

SATURDAY, APRIL 16TH. SUNSET CRUISE ON A TALL SHIP IN BISCAYNE BAY

Enjoy a sunset sail on a 3-masted schooner out of Miami, around northern Biscayne Bay. The 2 hour sail includes snacks, but you are welcome to bring your own. Bring a friend or group of friends and enjoy conversation with 'like-minds' or just sit back and take in the fresh, salt air. Rated: Leisure.



Cost: Mem. \$25; Non-mem. \$28.
Leader: Jackie Fisher 954-434-2855
Assist. Leader Kip Fisher 954-434-2855

SATURDAY-SUNDAY, APRIL 23RD-24TH. OVERNIGHT BACK PACK TRIP TO MOSSY ISLAND CAMPSITE - MYAKKA RIVER STATE PARK.

An easy backpack of only about 5 miles total. Limit 6. (Suncoast Group)

Co-leaders: MikePici, 727-798-9227
or revmp777@earthlink.net
BenBerauer, 727-392-2821 or bfberauer@aol.com



We would like to invite you to come on one of our fine outings! If you have any questions about an outing, you can check with the certified Broward Sierra Outing Leader in charge of the outing. Some of the outings need no experience; others require some level of proficiency. All participants in Sierra Club outings are required to sign a standard liability waiver. If you would like to read the Liability Waiver before you choose to participate in an outing, contact the leader of the outing.

Make your check payable to: Broward Sierra Outings.

Include the name and date of the trip on your check. Include your name, phone number, email and street address.

Mail all checks to:
Jackie Fisher, 4992 S.W. 105 Way, Cooper City, FL 33328.

You may call the Sierra Hotline for updates at 954-858-0160.

**LOOK FOR UPDATED INFORMATION ON OUR WEBSITE:
<<http://florida.sierraclub.org/broward>>**



"Keep close to Nature's heart... and break clear away once in a while, and climb a mountain or spend a week in the woods. Wash your spirit clean."

— John Muir

EARTH DAY

The county is holding several activities to celebrate Earth day.

On Saturday April 23rd there will be a hike at Deerfield Island.

There will also be an Earth Day Ecoaction Day at Fern Forest.

On Sunday April 24th there will be an Earth Awareness Hike at the North District Nature Area in Coconut Creek.

For more information on these events please call the parks.

The event that has been held at Quiet Waters Park in past years for Earth Day has been cancelled.



EVERGLADES VS. DEVELOPERS

The Urban Development Boundary (UDB) in Dade County is once again being threatened. Carl Hiaasen recently wrote an interesting article on the subject. You can read it online at: http://www.miami.com/mld/miamiherald/news/columnists/carl_hiaasen/10992590.htm



ADVERTISE IN THE BROWARD SIERRA NEWS

Placing an ad in the Broward Sierra News does more than reach thousands of local, environmentally sensitive readers. It also helps to offset the costs of printing and mailing the newsletter, making it possible to continue to alert you to issues of local importance and the actions you can take, as well as inform you of events, outings and meetings of the Broward Sierra Club group.

RATES		
Size	1 month	3 months
Business card size ad (3-3/4" x 2")	\$55	\$150
Double size ad (3-3/4" x 4")	\$95	\$255
1/2 page ad (7-3/4" x 5")	\$195	\$525

If you would like to place an ad, please contact Max Goldstein at 954-296-3411 or email him at <maxgold@yahoo.com>.



Ansel Adams

Most people don't know that Ansel Adams was a member of the Sierra Club for over 5 decades. He didn't just photograph the wilderness. He fought for it. Shouldn't your grandchildren have more than photos to remind them of the grandeur of our land? The Sierra Club is dedicated to protecting our wilderness for generations to come. Join us. You'll be in good company.

Join the Sierra Club now and receive a **FREE Sierra Club Weekender Bag!**

(While supplies last)



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Yes, I want to join the Sierra Club! I want to help safeguard our nation's precious natural heritage and receive a free Sierra Club Weekender Bag. My payment is enclosed.

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City _____

State _____ Zip _____

Phone (optional) (____) _____

Check enclosed, payable to Sierra Club Mastercard Visa

Cardholder Name _____

Card Number _____ Exp. Date ____/____/____

Contributions, gifts or dues to the Sierra Club are not tax deductible; they support our effective, citizen-based advocacy and lobbying efforts. Your dues include \$7.50 for a subscription to *Sierra* magazine and \$1.00 for your Chapter newsletter.

Membership Categories



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Introductory	<input type="checkbox"/> \$25	<input type="checkbox"/>	Life	<input type="checkbox"/> \$1000	<input type="checkbox"/> \$1250
Regular	<input type="checkbox"/> \$39	<input type="checkbox"/> \$47	Senior	<input type="checkbox"/> \$24	<input type="checkbox"/> \$32
Supporting	<input type="checkbox"/> \$75	<input type="checkbox"/> \$100	Student	<input type="checkbox"/> \$24	<input type="checkbox"/> \$32
Contributing	<input type="checkbox"/> \$150	<input type="checkbox"/> \$175	Limited Income	<input type="checkbox"/> \$24	<input type="checkbox"/> \$32

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