



TAMPA BAY ASSOCIATION OF ENVIRONMENTAL PROFESSIONALS

WWW.TBAEP.ORG

BIOFUELS - ALSO KNOWN AS VEGETABLE OIL

Do you have old vegetable oil left over from that Thanksgiving turkey you fried just sitting around your garage? Are gas prices getting you down? There is an alternative, especially if you have a diesel-powered car or truck. Diesel engines are uniquely suited to run on vegetable oils because the inventor, Rudolph Diesel (1858-1913) originally designed them to run off of peanut oil. Waste oil can be used in most diesel engines after a conversion kit is installed.

Biodiesel comes from oils such as vegetables, peanuts, soy beans, canola/rape seeds, and hemp seeds. According to an article in No End Press, "biodiesel refers to plant-derived diesel that has been subjected to the process of transesterification, a chemical modification of ordinary vegetable oil which makes the fuel meet high industry standards (ASTM D6751) for usage in diesel engines and prevents it from solidifying at colder temperatures."

Straight vegetable oil (SVO) refers to any vegetable oil that can power diesel. The major drawback of using SVO is that it gels at colder temperatures and must be heated prior to reaching the engine's fuel injectors during cold weather. Cooking oil can be obtained from restaurants and must be filtered prior to use since it typically contains food particles. Waste Vegetable Oil (WVO) refers to used cooking or fryer oil that probably contains animal fats or fish oil from cooking. Vegetable oil conversion kits include a heating system and usually a second gas tank to circumvent the cold weather issues. SVO also produces extremely low emissions. Biofuels contain no sulfur and produce low carbon monoxide, particulate and toxic emissions.

The Greasecar Vegetable Oil Conversion System is an auxiliary fuel modification system that allows all diesel vehicles to run on straight vegetable oil in any climate. The Greasecar kit comes with everything needed to convert a diesel vehicle to run on vegetable oil. With the price of gasoline going up, national newspapers and network news have covered the issue recently.

If you have any used oil you have been saving because you didn't feel right dumping it down the drain or in your yard, there are several local entrepreneurs who will gladly take the oil (it's free fuel to them). You can contact Rick Thomas at rick@bonzRUs.com and let him know you read about his environmentally-sound efforts in the TBAEP newsletter.

TBAEP MAY MEETING

Please join us at our May meeting on Wednesday, May 17th to hear Andy Squires from Pinellas County Department of Environmental Protection talk about wastewater spills reported from one year in the Tampa Bay watershed that were tabulated to estimate potential nitrogen loadings to the Bay.

MAY 2006

Mark your Calendar!

Upcoming Meetings:

- **May 17 - 4:30PM**

Andy Squires

Wastewater Collection System

Spills: How Do They Impact

Nitrogen Loading to Tampa Bay?

EpiCenter at ICOT

- **June 21 - 4:30PM**

Amanda Ransone/Sierra Club

Red Tide & Coastal Pollution

EpiCenter at ICOT

- **July 20 - 5:30-7:30PM**

FAEP Annual Meeting at

Marco Island Chamber

Permitting School

Social Hour

NAEP

CALL FOR PAPERS

32ND ANNUAL CONFERENCE

Environmental Leadership:
Science, Education, Alliances

April 22-25, Orlando, FL

Go to: www.naep.org



LOCAL GOVERNMENT ENVIRONMENTAL ASSISTANCE NETWORK

American Wetlands Month

During the month of May, the nation will celebrate American Wetlands Month, focusing on the economic benefits that wetlands provide. EPA is joining with other federal, state and local agencies and private partners to recognize the ways that wetlands enrich the environment and society. Events are scheduled all across the country to educate and involve Americans in better understanding the importance of one of Earth's most valuable and fragile ecosystems. While more than half of the nation's original wetlands have been lost or converted to other uses in the lower 48 states, EPA's goal is an overall increase in quality and quantity of wetlands nationwide. To learn more about activities for American Wetlands Month, please visit: www.lgean.org/html/whatsnew.cfm?id=1045

Stormwater Management Webcasts

The Izaak Walton league is hosting a free, four-part webcast series on the latest techniques available to help transportation agencies save money, comply with water regulations, and improve water quality with context-sensitive stormwater management and low impact development techniques. Webcast topics include: Introduction to Alternative Practices to Manage Highway Runoff; Planning Highway Projects Using Alternative Practices for Stormwater Management; and Design, Construction, and Maintenance. For more information click on: www.lgean.org/html/whatsnew.cfm?id=1046

MEMBERSHIP NEWS

Did you know that together we can achieve more? If every TBAEP member introduced the benefits and services of our association to a co-worker, colleague, friend or associate, we would double the resources available to meet the needs of **YOU**, our member. Not only financial resources, but human resources, our most important ones. We'd like to welcome these new and renewing members to our organization:

Chris Dailey

Claudia Lewis

Kevin O'Donnell

Abbey Warner

Terrie Weeks

Bill Brammell

NEW HOME WATER USAGE

How much water do new homes consume? No one knows for sure, so the EPA and six water districts in the West and three in the South plan to find out. The 10 agencies have announced a 33-month study to collect detailed information about how much water is consumed in "standard" new homes vs. "high-efficiency" new homes.

[U.S. EPA News Briefs](#)

NOAA HURRICANE HUNTER

Friday, May 5th,
Tampa International Airport
9:30AM-5:00PM

Each year AOC, in conjunction with the National Weather Service and the National Hurricane Center, conducts a "Hurricane Awareness Tour". This year one of the P-3 Orions will be touring and will conclude with an open house at TIA. The P-3 will be open to the public, free of charge, and families are invited.

World Environmental & Water Resources Congress 2007

Restoring Our Natural Habitat

May 15-19, 2007

Call For Papers

Aquifer and Lake Recovery/Restoration • Applied Research in Water, Wastewater, and Stormwater Issues • BMP Technology • The Changing Face of the Engineering Workforce • Computational Hydraulics • Education & Research Engineering • History & Heritage • Environmental Processes in Restored Areas • Environmental & Public Health Interrelationship • Evolutionary Computation • EWRI Local Technical Group Activities • Groundwater Hydrology, Quality, and Management • International Issues • Irrigation & Drainage • Planning & Management • River & Wetlands Restoration • Standards Development for Habitat Restoration • Student Papers • Sustainable Development in Sensitive Environments • Watershed Management & Restoration

Session Proposals Due June 30, 2007

Contact: kckabbes@kabbesengineering.com

Fort De Soto Eco-Day

On Saturday, May 6th Friends of Fort De Soto and Tampa Bay Watch will host their first Fort De Soto Eco-Day. This is a day of volunteer projects that add to the health and beauty of the beloved park. Eco-Day will start at 9AM and last until 1PM. The event will be followed by lunch. Projects Include: **Sea Oat Planting at the Beach**, **Salt Marsh Planting at the Campground**, and **Oyster Bar Building at the Campground**. For more information and to volunteer for projects or assist with lunch preparation, please email: volunteer@tampabaywatch.org

UPCOMING 2006 CONFERENCES

THE COASTAL SOCIETY'S 20 TH BIENNIAL CONFERENCE	MAY 13-18	ST. PETE BEACH, FL	WWW.THECOASTALSOCIETY.ORG
RESTORATION 2006	MAY 16-17	NEW ORLEANS	WWW.RESTORATION2006.ORG
CONTAMINATED AND HAZARDOUS WASTE SITE MANAGEMENT	JUNE 12-16	TORONTO, ONTARIO	WWW.CONTAMINATEDSITE.COM
FLORIDA CHAMBER'S 20 TH ANNUAL ENVIRONMENTAL PERMITTING SUMMER SCHOOL	JULY 19-21	MARCO ISLAND	WWW.FLORIDAENET.COM
FLORIDA LOCAL ENVIRONMENTAL RESOURCE AGENCIES	AUG 2-4	HYATT ON SARASOTA BAY	WWW.FLERA.ORG
FLORIDA BROWNFIELDS CONFERENCE	OCT	MIAMI	WWW.FLORIDABROWNFIELDS.ORG
FLORIDA REDEVELOPMENT CONFERENCE	OCT 18-20	MIAMI	WWW.REDEVELOPMENT.NET
US EPA NATIONAL BROWNFIELDS CONFERENCE	NOV 13-15	BOSTON	WWW.BROWNFIELDS2006.ORG
FLORIDA REMEDIATION CONFERENCE	NOV 14-15	KISSIMMEE	WWW.ENVIRO-NET.COM

NPDES NEWS - EPA STORMWATER WEBCASTS

EPA is continuing their series of webcasts training sessions for municipal stormwater managers. Designed for those unable to attend out-of-town or multi-day workshops, this series covers a mix of basic and advanced topics in two-hour blocks. These webcasts allow participants to listen to lectures and see presentations through their computers. Webcasts will be scheduled periodically from now until September.

Second Webcast: Construction 101. May 10, 2006, 1-3 EST. Barry Toning, Tetra Tech, Instructor. Nikos Singelis, USEPA Stormwater Program and Erik Nelson of Douglas County, Colorado will be guest speakers. This webcast will provide an overview of the basic elements that make up a good municipal program for addressing construction site runoff. It will include a brief review of Phase II requirements, discussion of the key features of a successful program, and will explore options for developing inspection programs.

Future Topics and Tentative Dates: **Stormwater Utilities 201 - July 12**

Getting in Step - Public Education & Involvement - August 9

Illicit Discharge Detection & Elimination 101

Program Development - September 13

Go to: www.epa.gov/npdes/training

Florida Society of Environmental Analysts

You are invited to attend the Florida Society of Environmental Analysts 2006 Spring Meeting and Technical Session. The meeting is scheduled for May 24-26, 2006 at the Sirata Beach Resort located in St. Pete Beach. This meeting promises to be both informative and beneficial to all analysts and managers in the environmental field. Join them for an opportunity to exchange ideas and information. Go to: www.fsea.net

Keep Pinellas Beautiful Kayaking Events

Do you have a canoe or kayak?
Do you enjoy spending time in your kayak or canoe?
Do you like clean waterways?
If so, join Keep Pinellas Beautiful on May 13th, at Clam Bayou, and May 22nd at Riviera Bay
For more information go to www.keppinellasbeautiful.org

Would you like to know what the average salary is for an Environmental Professional in the Tampa Bay Region?

Check out our website at www.tbaep.org under Announcements

Tampa Bay Regional Planning Council

The Departments of Community Affairs and Transportation and the Florida Regional Planning Councils are hosting five workshops to explain how you can move forward with implementing the new SB 360 requirements related to transportation proportionate fair share, concurrency and financial feasibility requirements into your planning program.

The workshops are free and open to the public. They run from 9:30 AM until 4:30 PM, with lunch on your own. TBRPC offices are hosting a meeting on June 2nd. For more information go to:

<http://www.dca.state.fl.us/fdcp/dcp/propshare/index.cfm>



Brooker Creek

May Featured Events

- 5th Teacher Training Workshop
- 10th Green Design Consultant Debra Lynn Dadd
- 11th Book Time: *The Lady and the Spider*
- 14th Family Creek Adventure
- 17th Spring Butterfly Identification Seminar
- 20th Spring Butterfly Count
- 24th The Big Blow: Ecological Impacts of Hurricanes
- 25th Book Time: *A Raindrop's Journey*
- 25th Lawn & Garden Help & Diagnostic Services
- 28th Meet the Artist: Bill Scott

Call Brooker Creek: 727-453-6800 for detailed info.
Check out their Sat. & Sun. guided hikes and their
Wed. night walks, it's great family fun!

New Document Aimed at Improving Wetlands Monitoring Programs

A new document, released recently by the USEPA, will help states and tribes develop consistent programs to improve wetland monitoring. The document outlines critical elements that programs should include. *Application of Elements of a State Water Monitoring and Assessment Program for Wetlands*, is a follow-up publication of EPA's 2003 publication, *Elements of a State Water Monitoring and Assessment Program*. The new document describes the 10 recommended elements of a wetland monitoring and assessment program including a program strategy, monitoring objectives and design, and data management. It further describes wetland-specific assessment approaches available to states and tribes.

The purpose of the document is to increase the understanding of wetland quality by advancing the practice of wetlands monitoring and assessment. It provides information and illustrations of assessment approaches unique to wetlands while reiterating the basic structure of a monitoring program that includes wetlands.

Go to: www.epa.gov/owow/wetlands/monitor/

From USEPA News Briefs

Employment Opportunities

Position	Employer	Exp.	Contact	Info.
Public Services Supervisor	Fort Myers		Nichole 239-765-0202	Supervises Parks & Beach Maintenance crews
Environmental Sciences Coordinator	Fort Myers		Nichole 239-765-0202	Parks and Env. Programs
Engineer	Hillsborough Co.	0-5	www.hillsboroughcounty.org	Air Compliance
Professional Engineer I & II	Hillsborough Co.	3	www.hillsboroughcounty.org	Air Compliance
Environmental Specialist III	Sarasota County		http://pats.sarasotacounty.org	Varied tasks Field work
Geologist or Engineer	TBE Group	0-4 years	www.tbegroup.com	Spreadsheets ACAD

Check out www.eco.org for other Environmental Internship opportunities!

Honda and ZAP Introduce New Subcompact Cars to the United States

Two subcompact cars are newly available in the US, and though they are both fuel sipping small cars, the stories of the two cars are dramatically different. The Honda Fit took the simple route to the US: Honda first introduced the car in Japan in 2001, and the car has been popular in Japan and Europe for years, so Honda decided to introduce it to North America. The US version was first unveiled at the North American International Auto Show in January, and last month, Honda announced that the vehicle will go on sale on April 20th with a suggested retail price of \$13,850. The four-door hatchback features a four-cylinder engine and achieves a fuel economy of 33 mpg in the city and 38 mpg on the highway.

In contrast to the Fit, the *Smart Car Americanized by ZAP* took a much different route to the US. Sold in Europe as the *smart fortwo*, the 98-inch long, two-door car is part of the smart brand owned by DaimlerChrysler. The company has been struggling to keep the smart brand profitable, and recently announced the cancellation of a larger model, the *smart forfour*. Considering the tough economic situation, DaimlerChrysler has not yet introduced the car in the US. California-based ZAP, which bills itself as an "advanced automotive pioneer," sees a large US market for the diminutive vehicle and has been working for years to introduce it here. Smart-Automobile LLC imports the smart car from Europe, pays a company to "Americanize" it to meet US federal and state safety and emissions standards, and has named ZAP as the exclusive distributor. After many delays, ZAP is only now selling the 2005 Smart Car Americanized for ZAP, which complies with regulatory requirements in all but five states. In February, ZAP delivered 85 vehicles to US dealerships, and is now selling the car in six states. The company claims the car has earned a combined city and highway economy rating of 40 mpg.

TBAEP BOARD

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TAMPA BAY ASSOCIATION OF ENVIRONMENTAL PROFESSIONALS

New Member? Yes No Renewal? Yes No Date _____

\$45 Chapter Membership *and* FAEP Membership \$10 Student Chapter Membership

National Association of Environmental Professionals Membership (optional)

\$150 NAEP only Dues (NAEP Member # _____)

First Name: _____ Last Name: _____

Title/Position: _____

Affiliation: _____

Address: _____

City: _____ State: _____

ZIP: _____ Phone (w): _____

Email: _____ Fax: _____

CEP? Yes No

May newsletter

Employment: Academic Government Private

Type of Work: (1) Environmental Management (2) Environmental Planning (3) Environmental Compliance

(4) Biology-Botany, Ecology, Wildlife Management (5) Engineering

(6) Law (7) Environmental Consulting (8) Other

Area of Expertise: (10) Impact Assessment (20) Design (30) Permitting

(40) Monitoring/Analysis (50) Teaching (60) Research

(110) Waste Management (120) Other

Degree(s)/Year _____ University _____

AFFIRMATION: I hereby affirm and agree that I will abide by the Code of Ethics of the Association. I further understand that falsification of the contents of this application will be grounds for rejection and/or termination of my Association membership and revocation of all benefits resulting there from.

Signature _____ Date _____

Questions?
Contact Teri Hasbrouck
(Membership Services)
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