



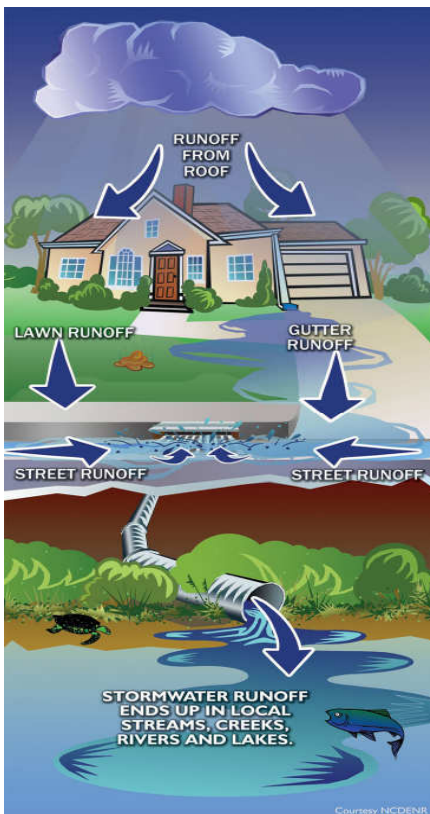
# TURNING THE TIDE

Volume 2 Number 11 January 2010

View past issues at [www.ircgov.com/stormwater](http://www.ircgov.com/stormwater)

IRC citizens are “Turning the Tide” of polluted water runoff leaving their properties and reaching the Indian River Lagoon by learning and practicing proper property maintenance and disposal methods.

## An Invisible Problem: Stormwater Runoff Pollution



It's a massive problem and poorly understood. While we're used to associating water pollution with heavy industry, the EPA [Environmental Protection Agency] now calls runoff -- also called nonpoint source or stormwater pollution -- "the leading remaining cause of water-quality problems" in the United States. And unlike those industrial discharges, *runoff is produced by every one of us.*

When rain falls or snow starts to melt, the water moves over the ground, picking up the chemicals we leave behind: oil from our cars; fertilizers, herbicides and insecticides from our lawns, gardens and farmland; pet and livestock wastes laden with bacteria and nutrients; contamination from faulty septic systems; and countless [other byproducts](#) of human activity.

Bit by bit, running water carries those chemicals into a storm drain or a canal, eventually joining our Indian River Lagoon and Ocean, where the drops start to add up. Article continues under the “BMPS” column

Join your IRC neighbors in treating water as a resource, not as a waste product,

Diane Wilson, IRC Stormwater Education Coordinator

Pulitzer Prize winning reporter Hedrick Smith, producer of the 2009 PBS presentation, **POISONED WATERS** documentary featuring the causes and consequences of polluted water is coming to town Feb 8th. You can watch his 2-hour documentary online at <http://www.pbs.org/wgbh/pages/frontline/poisonedwaters/view/> See details under “Events” column within newsletter.

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## Did you know.....

97% of the earth's water is salty or polluted,  
2% is too far underground to reach.  
That leaves only 1% for clean drinking water  
.....and 50 -70 % of residential water is  
consumed outside in landscaping.

With so little water available  
we each need to  
use it conservatively  
and keep it clean.

Source:  
[http://www.gotwater.net/protect\\_water.htm](http://www.gotwater.net/protect_water.htm)



**DO YOU KNOW WHAT A WATERSHED IS? Find the answer on page 10**

## Are You Looking for a Speaker?

...for your HOA, community/civic organization, or school. I have a fun and educational Power Point, "The Indian River Lagoon is Impaired: what you can do to help." It highlights the cause of non-point pollution, the effects of our actions, and solutions residents can implement. Email all the details of your meeting to me at least 2 weeks in advance, Diane Wilson, [dwilson@ircgov.com](mailto:dwilson@ircgov.com)

# NEWS

## Everyone:

### **MANDATORY Landscape Irrigation Restrictions in IRC – Only 1 Day/week**

as required by St. John's River Water Management District. For details visit

<http://www.sjrwmd.com/wateringrestrictions/index.html>

or call their **24-hour "Irrigation Line" at 1-800-232-0904**

- **Do you understand "Cap & Trade?"** *The Story of Cap & Trade* video is a fast-paced, fact-filled look at the leading climate solution being discussed at Copenhagen and on Capitol Hill. To see this informative 10 minute video visit <http://storyofstuff.com/capandtrade/>

## Construction

- **January 13 & 14, 2010 – Stormwater and Erosion Inspection Class will be held in Palm Bay**  
Contact Kaylene Wheeler, NPDES Coordinator City of Palm Bay Public Works Department Stormwater Program e-mail: [wheelk@palmbayflorida.org](mailto:wheelk@palmbayflorida.org) 321-953-8996
- **EPA is inviting home builders to join the WaterSense program** and commit to building water-efficient new homes. More information on WaterSense labeled new homes: [http://www.epa.gov/watersense/spaces/new\\_homes.html](http://www.epa.gov/watersense/spaces/new_homes.html). To see a video message about the WaterSense new homes specification: <http://www.epa.gov/multimedia/playercontents/video/watersense/index.html>
- **Contractors, Electricians, Construction** - See training list below about January 27<sup>th</sup> Tainted Drywall Conference

## Students & Teachers

- **EPA's new Facebook Page, "Water Is Worth It,"** is intended to serve as a public forum to share information, encourage discussion, and raise awareness about the value of our water and water-related resources. Facebook users can have it delivered to their virtual door by becoming a "fan" of the page. You can reach the page via this link <http://www.facebook.com/pages/Washington-DC/EPA-Water-Is-Worth-It/175423483336?ref=mf>
- **January 15** – Deadline for application for the Richard C. Bartlett Environmental Education Award - \$5,000 award given annually to an outstanding educator who has successfully integrated environmental education into his or her daily education programs. <http://www.neefusa.org/bartlettaward.htm>

## Marine

- **January 15 – 17** The Marine Industry Association presents the Stuart Boat Show [More Here](#)

## Business

- **Online Business Network** - E4S is a diverse network of over 7000 leaders who are putting the principles of sustainability to work for their businesses. E4S Network started in 2000 with the classic entrepreneurs and has attracted the entrepreneurial thinkers, the change agents from business, government, academia and non-profit sectors. E4S also provides implementation services to individual company projects and has begun to design and facilitate industry focused economic development projects (DO). Visit <http://www.e4s.org>

## **CONFERENCES & EVENTS**

- **January 2, 2010 (Sat.) - 7:30 a.m. Guided Birding Trip to Treasure Hammock Ranch** encompassing protected conservation land and a working cattle ranch here in Indian River County. The one mile walk in grass and uneven ground with exposed tree roots and primitive conditions will be lead by Jens & Melissa Tripson and ranch manager Sean Sexton. Group size is limited. Call 772-567-3520 for reservations and directions. Source: [http://www.pelicanislandaudubon.org/Peligram\\_December\\_09.pdf](http://www.pelicanislandaudubon.org/Peligram_December_09.pdf)
- **January 3, 2010 (Sun.) 7:00 p.m. Free local film presentation, "Food, Inc."** in the Sanctuary of the Unitarian Universalist Fellowship church (as part of their Social Justice program), 1590 27<sup>th</sup> Avenue, Vero Beach <http://uufvb.org/> This documentary, based on the book "An Omnivore's Dilemma," takes a critical look at food production in the United States.
- **January 8, 2010 (Friday) 11 a.m. "Using Unmanned Aerial Vehicles (UAV's) for Ecology and Agriculture Applications" presentation** – to be conducted via polycom interactive teleconferencing at the UF / IFAS Indian River Research and Education Center, 2199 S. Rock Road, Fort Pierce. Instructor is Dr. Peter Ifju Professor - Department of Mechanical & Aerospace Engineering at UF. If you are interested in participating, please send an email reservation to [ktgioeli@ufl.edu](mailto:ktgioeli@ufl.edu).
- **FREE Harbor Branch Ocean Science Lectures** are held in the auditorium of the Johnson Education Center on the Harbor Branch campus, 5600 U.S. 1 North, Fort Pierce, at 4 and 7 p.m. (772) 465-2400  
**Jan 13 – Amy Wright – Florida Biotech: HBOI's Role in the New "Life Sciences Cluster"**  
**Jan 20 – Shirley Pomponi – Drugs from the Seas: Sponges as Chemical Factories**
- **January 26-27, 2010 (Tues/Wed) Florida Federation of Garden Clubs District X 54<sup>th</sup> Annual Tropical Short Course** offering sustainable gardening information at Mounts Botanical Garden, West

Palm Beach [Brochure & Registration Form](#) For additional information contact: Sandra Arlund, Chairman [taotaotoo@aol.com](mailto:taotaotoo@aol.com) 561-582-0051

- **Jan 27 – Feb 1, 2010 – 13<sup>th</sup> Annual Space Coast Birding & Wildlife Festival** This celebration of birds and wildlife *will be* co-hosting *the* North American Gull Conference too!) –held at Brevard Community College, 1311 North U.S. Highway 1, Titusville. [Visit www.nbbd.com/fly](http://www.nbbd.com/fly)
- **January 29, 2010** 8am-5pm **Tainted Drywall Conference** Indian River State College Kight Center for Emerging Technologies - Room V110, 3209 Virginia Ave. - Ft. Pierce, FL Training and license credits are currently being sought for participants. Please inquire if we have your expertise covered or if you can assist the organizers in obtaining them on your behalf. Additional fees might be required for some certifications. Training and licensing hours approved by: Approved by IHMM for 4 CMPs; "InterNACHI approved; "Individuals certified under section 381.0101 F.S. are awarded 6 contact hours for this training". Homeowners: This is a meeting for professionals featuring an open discussion of effects and impacts. If you choose to come, please understand that while we are sympathetic to your concerns, this is a professional forum and we will not be addressing individual issues. Cost: \$149 per person Advanced Registration Required By: January 26, 2010 For More Information contact [Karen@asset-a-m.com](mailto:Karen@asset-a-m.com) or go to the CCTI website @ [www.irsc.edu/ccti](http://www.irsc.edu/ccti) or Call 1.888.283.1177.
- **Feb. 8, 2010** Featured guest speaker, **Pulitzer Prize winning reporter Hedrick Smith, producer of the April 2009 PBS presentation, POISONED WATERS documentary.** More than three decades after the Clean Water Act, iconic American waterways are in perilous condition and facing new sources of contamination. With polluted [runoff](#) still flowing in from industry, agriculture and massive suburban development, scientists note that many new pollutants and toxins from modern everyday life are already being found in the drinking water of millions of people across the country and pose a threat to fish, wildlife and, potentially, human health.” Educated at Oxford, Smith won the Pulitzer Prize for his work as a reporter and editor for The New York Times, (the prize singled out his role in the publication of the Pentagon Papers) and an Emmy Award during his twenty-plus years with PBS on Frontline, and Washington Week in Review. To obtain tickets and confirm details visit The Emerson Center website at <http://theemersoncenter.com/> or call the facility (9 am – 4 pm, M-F) Office at 772.778.5249
- **February 24 – 26, 2010 2<sup>nd</sup> UF Water Institute Symposium (Gainesville, FL)** will focus on complex challenges and integrated solutions for sustainable watershed management. This symposium will bring together scientists, engineers, academics, policy makers, water managers, industry and utility representatives, lawyers, students and the public to address complex water issues from multiple perspectives. Visit <http://waterinstitute.ufl.edu/symposium2010index.asp>
- **March 7 (7 – 9 pm) Free film presentation, “POISONED WATERS”** in the Sanctuary of the Unitarian Universalist Fellowship (as part of their Social Justice program), 1590 27<sup>th</sup> Avenue, Vero Beach <http://uufvb.org/>

- **April 10, 2010 (Saturday) 10 am – 4 pm** The Indian River County Sustainability Inc.'s **SUSTAINABILITY CONFERENCE** at The Vero Beach Heritage Center, 14<sup>th</sup> Lane, Vero Beach. **Know of any vendors who would like to educate homeowners on ways to be more sustainable? Email Judy Orcutt at [jjorcutt@bellsouth.net](mailto:jjorcutt@bellsouth.net)**
- **April 17, 2010** (Saturday) 9:00a.m.–3:00pm **Earth Day Celebration** at Riverview Park, U.S. Hwy 1, Sebastian, FL
- **May 2 (Sunday) 7 pm – Free film and presentation by Diane Wilson: The National and Local Picture of Polluted Runoff.** in the Sanctuary of the Unitarian Universalist Fellowship (as part of their Social Justice program), 1590 27<sup>th</sup> Avenue, Vero Beach <http://uufvb.org/> M-F 772/778-5880

## TRAININGS

- **Master Gardener training program starts **Tuesday, Jan. 5.**** Gardeners will have the opportunity to improve their horticultural knowledge and skills and then share their experience with the public through organized volunteer activities. As a Master Gardener, you can help to educate and advise home gardeners in the care of house plants, landscapes and vegetables including insect and disease control. The training is conducted by the University of Florida Cooperative Extension Office in St. Lucie County. Classes meet all day every Tuesday from 9 – 4:30 pm for 12 consecutive weeks. The cost is \$150. Interviews will be held in December, as space is limited. **Five spots are available for IRC residents.** To apply, contact Kate O'Neill, program specialist for St. Lucie County Extension, at (772) 462-1660 or [kasmi@ufl.edu](mailto:kasmi@ufl.edu).
- **Agricultural BMPs:** UF Online course, Agriculture and Environmental Quality. Zhenli He, PhD, an associate professor of Soil Fertility and Environmental Chemistry at the UF/IFAS Indian River Research and Education Center in Fort Pierce is offering this new Internet course starting Thursday, **January 7**, and will continue each Thursday through mid-April. To enroll call Jackie White at (772) 468-3922, Ext. 148, or by e-mail at: [jkwhite@ufl.edu](mailto:jkwhite@ufl.edu). For specific information about the course please contact Dr. Zhenli He at (772) 468-3922, Ext. 109, or by e-mail at: [zhe@ufl.edu](mailto:zhe@ufl.edu).
- **Landscape Maintenance/Caution Label Pesticide BMPs:** Commercial Landscape Maintenance (CLM) Operators, by law, must have a Limited Commercial Landscape Maintenance license to apply caution label pesticides to plant beds in the landscape. Training class and exam will be held **Jan. 8**, 8 a.m. – 5 p.m. For information call the SLC Extension office at (772) 462-1660.
- **Horticulture BMPs:** FNGLA announces a horticulture training course at Indian River State College – Vero Campus starting **Jan 11** (Monday evenings) 5:30 p.m. - 8:00 p.m. They have integrated the Florida Department of Environmental Protection's Green Industry BMPs into their certification. This course prepares students for the FNGLA Certified Horticulture Professional (FCHP) exam. Sign up for course ORH2601 REF#139843

instructor Dr. Ann McMullian. Call Ann at 772-336-6211 or e-mail her at [amcmulli@irsc.edu](mailto:amcmulli@irsc.edu) for more information.

- **Landscape and Irrigation Maintenance BMPs** – will be presented through bi-lingual interactive outdoor demonstrations at the **Jan. 20<sup>th</sup>** (7:30 a.m. – 4:00 p.m.) **Treasure Coast Landscape Field Day & Equipment Rodeo-A Full Day of Landscape Education and Fun** at St. Lucie County Fairgrounds, 15601 W. Midway Rd., Fort Pierce. All this fun for just \$5.00. Test your zero-turn radius driving skills by navigating a zero turn radius lawn machine through a challenging obstacle course. Lots of free give-aways. Register by Jan 15 by calling (772) 462-1660 as space is limited.
- **Natural Areas Weed Control Pesticide Licensing Exam Prep Feb 5**, 1:30 – 3 p.m. Ask for the course workbook at the time of registration and bring completed workbooks to class. Pesticide licensing exam available after training. Register by calling (772) 462-1660
- **Construction & Earth Moving BMPs**: The FDEP Stormwater Inspector Classes address proper installation, inspection and maintenance of Best Management Practices (BMPs) for use during and after construction to minimize erosion and sedimentation and to properly manage runoff for both stormwater quantity and quality. The exam is now closed book. To see available classes visit <http://www.dep.state.fl.us/water/nonpoint/erosion.htm> . Class manual can be downloaded at **The Florida Stormwater, Erosion, and Sedimentation Control Inspector's Manual (New Revised Version - 3.9 MB)**
- **Florida Native Landscaping BMPs** - Offered to degree and non-degree seeking students at the UF Fort Pierce campus, many industry professionals, nursery owners and state employees have completed the course. Students will be introduced to a wide array of native plant species used in Florida landscapes Registration is taking place now for spring semester 2010 and will continue until Monday, January 4. The course will begin Wednesday, **Jan. 6**, 3:30 until 6:30 p.m., and will continue each Wednesday through mid-April. Jackie White, at (772) 468-3922, extension 148 [jkwhite@ufl.edu](mailto:jkwhite@ufl.edu) or at: [www.irrec.ifas.ufl.edu](http://www.irrec.ifas.ufl.edu) . For specific questions about the course or materials contact Dr. Sandra Wilson at: [sbwilson@ufl.edu](mailto:sbwilson@ufl.edu)
- **Landscape Architectural BMPs** segments on water-conserving gardens, including very important “right plant, right place” concepts; stormwater gardens, including specifics on rain garden design and wildlife enhancement gardens. Participants walk away with specific, technical design concepts for doing new projects, retrofit existing landscapes, and add to their marketing niche on how to earn points in green certification. Course title: Florida Yards and Neighborhoods – Florida Water Systems, Concepts and Practices, Protecting Water Systems through Ecologically Sound Maintenance/Irrigation for Landscapes and Turfgrass, Creating Wildlife Habitat in Home Landscapes. (BOLA 0007551) 4 CEH's. For details visit [http://buildgreen.ufl.edu/continuing\\_education.htm](http://buildgreen.ufl.edu/continuing_education.htm)
- **Landscape BMPs for Property Management Associations** – The focus and goals of the course are to provide information and guidance on turfgrass and landscape management practices to conserve and protect Florida's water resources. The participant will learn to: identify the impacts of storm water run-off on water bodies; apply Best Manage Practices including Pesticide, Landscape, Fertilizer and

Irrigation Management to increase property beauty and value; develop a landscape management plan utilizing the Best Management Practices for the protection of storm water resources.

Materials used in the development of the program come from a variety of agencies, including University of Florida/IFAS/Extension and the Florida Department of Environmental Protection.(CAM 9625316) 5 CEH's. For details visit [http://buildgreen.ufl.edu/continuing\\_education.htm](http://buildgreen.ufl.edu/continuing_education.htm)

- **All Levels of Various Stormwater Training** are available through the Florida Stormwater Association Call for more information at 888-221-3124 or visit the FSA Training Center Online or email [stormwater@ksanet.net](mailto:stormwater@ksanet.net) or visit the [FSA Training Center Online](#).

## **BMPs and Things Worth Knowing**

**BMPs = Best Management Practices: methods to prevent pollutant discharges to storm drain systems. BMPs are listed by category at [www.ircgov.com/stormwater](http://www.ircgov.com/stormwater)**

### ***Continuing... "An Invisible Problem: Stormwater Polluted Runoff" (from cover page)***

**Why it is hard to regulate:** The EPA's term for runoff, "nonpoint source pollution," itself points toward the problem. Point sources were the original targets of the Clean Water Act -- they are both "stationary" and "discrete," such as a drainpipe coming from a factory. In a point source situation, the regulator can clearly link a polluting discharge to its origin, which allows the EPA to apply a [permit](#) to control emissions from that source.

Nonpoint source pollution, by definition, has an uncertain or unknown origin, making it difficult to regulate under the Clean Water Act. In 1987, the EPA added an [amendment](#) to the act to fund runoff management, which has had [some success](#).

**Urban settings exacerbate the problem** because of the large amount of impervious surface, such as asphalt or concrete. When rain lands on a forested area, it filters down through the forest canopy, through the soil and moves slowly through the groundwater to emerge clean in streams and rivers. If that forested area is developed, the rainwater lands instead on pavement, rooftop or other impervious surface. It moves across that surface more quickly and at a higher volume, which can result in flooding, damage to habitat in waterways and property damage for people downstream. [According to the EPA](#), "urbanization also increases the variety and amount of pollutants transported to receiving waters."

**What can we do?** Begin by taking a close look at practices around your house that might be contributing to polluted runoff. The EPA offers a list of [household dos and don'ts](#) to reduce your personal contribution, as well as [fact sheets](#) about different sources of runoff pollution, and a collection of sites and readings on [related issues](#) such as low-impact development.

Source: <http://www.pbs.org/wgbh/pages/frontline/poisonedwaters/themes/runoff.html>

**Want to learn more?**

**Become informed; watch this very informative 2009 PBS documentary film, POISONED WATERS** (1hr 53 min) online at <http://www.pbs.org/wgbh/pages/frontline/poisonedwaters/view/>

**Feb. 8** Attend a discussion on this topic presented by the POISONED WATERS documentary Pulitzer Prize winning producer, **Hedrick Smith**. Hedrick Smith's recent focus on the environment is only the latest path he has explored in nearly a half-century of reporting-from beats including Washington, Moscow, Memphis, Nashville, Greenville and Atlanta. Born in Scotland and educated at Oxford, Smith won the Pulitzer Prize for his work as a reporter and editor for The New York Times, (the prize singled out his role in the publication of the Pentagon Papers) and an Emmy Award during his twenty-plus years with PBS on Frontline, and Washington Week in Review. To obtain tickets and confirm details visit The Emerson Center website at <http://theemersoncenter.com/> or call the facility (9 am – 4 pm, M-F) Office at 772.778.5249

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**[New Blog with Stormwater related news – visit http://www.greenbmp.blogspot.com/](http://www.greenbmp.blogspot.com/)**



**[Single-use plastic bags](#)** pose a serious threat to the health of our environment. Plastic bags take up to 10-20 years just to break into smaller pieces, but like all plastic items, plastic bags will never fully breakdown. There is nothing naturally occurring in our environment that can break plastic polymers down. That means every plastic bag you've ever used will be on this Earth forever! Visit <http://www.saveourshores.org/?page=1>

## **It's Raining, it's Pouring, Toxic Rainbows are Forming**

The next time it rains, look down at your driveway or the nearest parking lot. See any colorful “oil rainbows” slicked across the pavement? It's a sign that someone's car is leaking fluids. The rainbows might look pretty, but these fluid leaks are composed of highly toxic materials, such as antifreeze, motor oil,



brake fluid and transmission fluid. When the toxics enter the storm drain system or leach into the soil, surface and groundwater supplies are contaminated. And that means your drinking water supplies are put at risk. You rely on your car for safe, convenient transportation.

Why not treat it right and protect water quality at the same time?

- Repair auto fluid leaks right away. Use a drip pan to catch leaks if repairs are delayed.
- Collect and dispose of fluids from routine maintenance properly.

As you approach the vehicle, look underneath and around it for any leaking fluids. Color indicates the type of fluid leaking out. Check your owner's manual to be sure of the color and appearance of the fluids in your vehicle. Common fluid colors and their indications include:

- Red: Transmission fluid (check transmission seals)
- Purple: Power steering fluid (check system)
- Black: Motor oil (check the engine, and replace the oil)
- Green: Coolant (check the water pump)
- Clear: Water (usually normal condensation or water from the air conditioner)



**What are the key elements of proper tire maintenance?**

Measuring tire pressure monthly, monthly visual checks for tire wear and damage, regular tire rotation, balancing and alignment.

**To idle or to restart the vehicle – that is the question** Idling longer than 10 seconds uses more fuel and produces more CO<sub>2</sub> compared to restarting the engine. But will turning off the vehicle to avoid idling result in higher maintenance costs and extra wear and tear for the starter and battery? Actually, the break-even point to offset any incremental maintenance costs is under 60 seconds. You'll save money on fuel that should more than offset any potential increase in maintenance costs. And your vehicle won't produce unnecessary emissions of CO<sub>2</sub>, the principle greenhouse gas that contributes to climate change. <http://oee.nrcan.gc.ca/transportation/idling/wastes.cfm?attr=8>

**For more information on tire maintenance** visit <http://www.betiresmart.ca/inflation/index.html>

**ANSWER TO “DO YOU KNOW?”** A watershed is a geographic area in which all sources of water, including lakes, rivers, estuaries, wetlands, and streams, as well as ground water, drain to a common surface water body. Because all watersheds are defined by natural hydrology and ultimately drain to coastal waters, they are good focal points for managing coastal resources. Indian River Residents live in the Indian River Lagoon Watershed. <http://www.epa.gov/owow/oceans/factsheets/fact1.html>

# VOLUNTEER OPPORTUNITIES

**JAN. 8 & 9, 9 a.m. – noon, VOLUNTEERS NEEDED FOR OYSTER BAGGING** at Harbour Pointe Park, 350 Avenue M Extension E, Fort Pierce. Volunteers bag oyster shells in mesh bags and place them into the Indian River Lagoon to help restore oyster beds. Oyster beds help improve water quality and provide habitat for marine life. Volunteers should wear comfortable clothing and bring sunscreen, water and gloves. For more information call Jim Oppenborn at (772) 462-1713.

**RECYCLING & BEAUTIFICATION PROJECTS** - KIRB is the acronym for Keep Indian River Beautiful. It promotes livable neighborhoods by empowering individuals to take greater responsibility for enhancing their community through beautification projects, neighborhood cleanups and school cleanup clubs. Visit [www.kirb.org](http://www.kirb.org) and learn how you can enhance your environmental stewardship knowledge and/or contribute your time and talents. Call KIRB's executive director, Kristy Sturdivant 772-388-5472 or email [keepirbeautiful@gmail.com](mailto:keepirbeautiful@gmail.com)

**Community Rain Barrel Campaign** - The Cultural Council of Indian River County, Keep Indian River Beautiful, and the Stormwater Division of IRC are in the planning stages of an awareness campaign to teach people of the importance of reducing contaminated runoff through the use of rain barrels, recycling rainwater (and containers) as a conservation tool and the role art can play in social marketing and enhancing the quality of our environment. The vision is to kickoff the program involving all 6 governmental entities in IRC in April 2011. A "moving display" will be completed by July 2011 in time for a community water festival and will be used at local schools and organizations to raise awareness through the following July 2012. If you or your organization would like to become involved contact Mary Jayne Kelly, Executive Director, Cultural Council of Indian River County (772) 770-4857 e-mail: [info@cultural-council.org](mailto:info@cultural-council.org) or Kristy Sturdivant, Executive Director, Keep Indian River Beautiful 772-388-5472 email: [keepirbeautiful@gmail.com](mailto:keepirbeautiful@gmail.com)

## JOB NETWORK....

### What is a green job?

Phil Angelides, one-time candidate for governor of California, may have defined "green job" best when he said, "a green job has to pay decent wages and benefits that can support a family, be part of a real career path with upward mobility, reduces waste and pollution, and benefits the environment. Source:

<http://planetgreen.discovery.com/games-quizzes/green-jobs-quiz/>

Another definition, provided by author Van Jones, of a green-collar job is one which is a "family-supporting, career-track job that directly contributes to preserving or enhancing environmental quality," but is also part of

what he calls the “one solution [to] fix our two biggest problems” – namely, poverty and our environmental crisis. Source: <http://www.treehugger.com/files/2008/10/van-jones-green-collar-economy-book-review.php>

### **What does LCA stand for?**

Life cycle assessment

Life cycle assessment is the way in which computer programs are employed to track different variables that arise in a product’s life cycle. Knowing these things can be very helpful when trying to eliminate waste and conserve resources. A life cycle assessor is just one of the jobs that is on the verge of becoming sought after in a world full of green washing. <http://planetgreen.discovery.com/games-quizzes/green-jobs-quiz/>.

### **Entrepreneurs for Sustainability’s “Green Job” site:**

<http://e4s.org/forums/topics.asp?id=2018309543>

**Treasure Coast Workforce Solution’s Green Collar Jobs Apprenticeship Programs** focus on labor opportunities for green building projects, including energy efficiency, the reduction of pollution, retrofitting, protection of natural resources, and utilization of renewable power sources. Training opportunities are open to all Treasure Coast residents. For more information regarding this program call the Workforce Solutions office at 1-866-4-U-2-HIRE

## **IRC Environmental Event Calendars**

### **INDIAN RIVER COMMUNITY EVENT CALENDAR**

Community, non-profits and governmental agencies are welcome to list all their environmental events and activities on the Indian River County Cultural Arts Calendar in the “Community & Special Events Category” at [www.cultural-council.org](http://www.cultural-council.org). To have your event listed email the information to Sharon at [info@cultural-council.org](mailto:info@cultural-council.org).

UF/IRC Extension Service Calendar - [http://indian.ifas.ufl.edu/Calendar/2009/aug\\_09.htm](http://indian.ifas.ufl.edu/Calendar/2009/aug_09.htm)

## **GRANT DEADLINES**

**National Geographic Conservation Trust Offers Funding to Preserve Earth's Resources For more information, visit the Trust's website @ <http://www.nationalgeographic.com/field/grants-programs/conservation-trust-application.html> Questions? Email [conservationtrust@ngs.org](mailto:conservationtrust@ngs.org).**

**February Deadline....Funding for Wetland, Riparian & Coastal Habitat Restoration**

The Five Star Restoration Program seeks to develop community capacity to sustain local natural resources for future generations by providing modest financial assistance to diverse local partnerships for wetland, riparian, and coastal habitat restoration. Applicants are strongly encouraged to participate, and should follow the registration instructions at [www.nfwf.org/FiveStar](http://www.nfwf.org/FiveStar) . Application isn't due until February.

**Foundation-Non-Profit Funding:**

**Open: Civil society (international).** □ Letters of inquiry to apply for grants from the Charles Stewart Mott Foundation. Contact: CSMF Mott Foundation Building, 503 South Saginaw Street, Suite 1200, Flint, Mich. 48502; (810) 238-5651; fax (810) 766-1753 [info@mott.org](mailto:info@mott.org); <http://www.mott.org/grantseeker.aspx>

**Open: Environment (national).** □ Applications for grants from the Energy Foundation. Grants will support projects in four areas: buildings, climate, power, and transportation. Contact: Energy Foundation 1012 Torney Avenue, Suite 1, San Francisco, Calif. 94129; (415) 561-6700; (415) 561-6709 [energyfund@ef.org](mailto:energyfund@ef.org); [http://www.ef.org/app\\_guidelines.cfm](http://www.ef.org/app_guidelines.cfm)

**Open: Environment (U.S., Canada).** □ Applications for conservation grants from the FishAmerica Foundation. Contact: FAF 225 Reinekers Lane, Suite 420, Alexandria, Va. 22314; (703) 519-9691; fax (703) 519-1872 [fishamerica@asafishing.org](mailto:fishamerica@asafishing.org); <http://www.fishamerica.org/images/grants/guidelines.pdf>

**Open: Environment (international).** □ Applications for Conservation Trust grants from the National Geographic Society for conservation and research programs that promote the sustainable use and preservation of the earth's biological, cultural, and historical resources. Contact: NGS 1145 17th Street, N.W., Washington, D.C. 20036; (800) 647-5463 [conservationtrust@ngs.org](mailto:conservationtrust@ngs.org); <http://www.nationalgeographic.com/research/grant/rq2.html>

**An important funding mechanism for BMAP related projects**

Please be advised the FDEP has about \$1.5 million for stormwater retrofit projects and it is looking for a few good projects to be submitted. Preferably these should be projects listed in a BMAP (adopted or in progress). Grant application and information is available at: [http://www.dep.state.fl.us/water/watersheds/tmdl\\_grant.htm](http://www.dep.state.fl.us/water/watersheds/tmdl_grant.htm). Any questions: [Eric.Livingston@dep.state.fl.us](mailto:Eric.Livingston@dep.state.fl.us).