



Coastal Roots



August 6, 2010

<http://coastalroots.lsu.edu>

LSU Coastal Roots Summer Institute Visits Cameron Parish

Dr. Pam Blanchard, CR Director, LSU Dept. of Educational Theory, Policy & Practice;
Dr. Ed Bush, CR Co-Director, LSU School of Plant, Environmental and Soil Sciences

Twenty-six teachers and one principal from 15 CR schools attended the two-day Summer Institute held in Cameron Parish June 25-26, 2010. **Bobby Kimball, Principal of Johnson Bayou High School**, graciously made the school available for this year's Institute. With the hot Louisiana sun beating down on us, **Dr. Ed Bush** lead participants in several hands-on experiences, like filling yellow cells using the tray template, calculating irrigation output and distribution, and troubleshooting a variety of potential nursery problems. Of course we were also able to see a beautifully maintained plant nursery to boot! This beautiful nursery is a credit to **Debbie Hoffpauir, librarian at JBHS**, and her hard-working JBHS students.

Besides the hands-on experiences at the JBHS nursery, we had several speakers who came to share their knowledge with us. **Kevin Savoie, LSU AgCenter/LA Sea Grant College Program**, spoke about chenier plain geology and history, and answered questions about the Deepwater Horizon gusher. **Ryan Bourriaque, Cameron Parish Police Jury**, discussed restoration projects underway in the parish. **Dr. Allen Owings, LSU AgCenter**, demonstrated propagation techniques for Louisiana iris, a potential candidate for inclusion in several CR can yards. **CC Richmond, nursery manager for the NRCS Native Plant Initiative at McNeese**, taught us about the coastal prairie ecosystem. We helped her "shell" some prairie grass seeds that she had collected prior to our workshop. We were shocked to learn that this particular prairie grass seed is worth \$30/pound. Wow! **Murt Conover, LA Universities Marine Consortium and director of the Bayouside Classroom Water Quality Monitoring Program**, instructed us how to use a pH probe and a turbidity tube. Each school got to take one of each of these instruments to use with their students. **Dr. Gary Bachman, MS Coastal Research and Extension Center**, showed us an Earth Box and brought us up to date on plans to expand the CR Program in Mississippi.

Pam is confident that everyone in attendance now has a good idea of how to program their irrigation timers. A huge "Thank you!" goes to **Mike Goree, Polydrip Irrigation Systems (Baton Rouge)** for loaning us multiple timers to practice on! What a huge help! **Janina Fuller, CR Graduate Assistant at LSU**, provided a review of the nursery rubric and what CR staff look for when visiting school nurseries, and **Becky Jones, also a CR Grad Assistant**, debued her new videos (starring both Becky and Janina) on various aspects of successfully managing the program at schools. You will soon be able to stream these videos from the CR website!

It was a great Institute and we thank both our CR teachers and the speakers for making time in their busy summer schedules to come together. We are all beneficiaries of the **NOAA Bay Watershed Education Grant** that CR received. We are looking forward to a great restoration season!

Schools represented at the 2010 CR Summer Institute

- Belle Chasse Academy
- Belle Chasse Middle
- Bishop Noland Episcopal Day School
- Christ Episcopal
- Holy Cross School
- J.B. Martin Middle
- Larose-Cutoff Middle
- Northside High
- Pierre Part Elementary
- Reeves High
- St. Martin Episcopal School
- Schools of the Sacred Heart
- S. Cameron High
- Patrick F. Taylor Science & Technology Academy
- L. Leo Judioce Montessori Elementary



Photos, from top right down:
• Amanda and Boo plant bitter panicum on Bea's beach.
• Reviewing CR plant nursery basics.
• Shelling prairie grass seed pods.
• CR cheerleaders: Gary, Ed, & Allen.

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Nurturing Your Seedlings to Success

Dr. Ed Bush, LSU School of Plant, Environmental, and Soil Sciences

Our seedlings are continuing to grow. Make sure your **irrigation system** is set properly set for these hot hot days. Your plants should be receiving at least ½" of precipitation per day - so use your rain gauges to confirm - and adjust your timer accordingly. If your plants are getting more than this due to rainfall, and the area surrounding your yard is not soggy, it's best to not reset your timer. Remember, you must check the yard at least 3 times per week to make sure the irrigation timer is working and your trees and grasses are growing properly. **Fertilize** your seedlings with 10 prills of Osmocote per cell. If you want to use liquid feed to get the trees going, fertilize about once a month following the fertilizer instructions. You can use liquid feed up through late September or October. If you have a **shade cloth**, make sure it is secure and not sagging. Do you have a **hurricane plan** for your nursery? While our families come first, you might consider taking down your shade cloth and removing any loose trays or cells in your nursery and securing the yard as best you can.

If you need to replace your timer batteries be sure to **ONLY** use a **9v Duracell brand battery**. Be careful when replacing the rubber gasket and tightening the screws on the battery compartment. Even a few grains of sand will provide an avenue for water to get into the battery compartment, which will corrode your battery contacts and cause your timer to stop working. Replacement timers cost about \$70.

Call immediately if you have a water failure! This stewardship project only works if we are good stewards during the hot summer and fall months. Having a successful crop is so important! I hope you have had a great summer and I am excited about meeting your Coastal Roots students of 2010-2011!

Isidore Newman 3rd Graders Design CR Experiments



Third grade students working on their bald cypress experiments. Photo credit: Jennifer Williams, Isidore Newman School, New Orleans.



Third grade students at **Isidore Newman (New Orleans)** have become very interested in bald cypress trees since receiving their seeds last February. **Jennifer Williams, their teacher**, took them on a nature walk around their campus and students discovered six mature cypress trees growing on school property. They even found cypress seeds at the base of the trees. After examining the seeds and comparing them to the seeds they received from Dr. Blanchard, students wanted to devise their own experiment. They posed the following questions:

1. Would Newman cypress seeds sprout slower than LSU cypress seeds?
2. Which cypress seeds – Newman or LSU – would grow taller in six weeks?
3. Would Newman cypress seeds grow well in a wetland environment, since they grow in a non-wetland now?

Congratulations to Jennifer Williams and her students for using their CR nursery to ask, and answer, important scientific questions! We are awaiting their results and conclusions!

CR Wins 2010 LWF Conservation Organization of the Year

Your Coastal Roots Program is the proud recipient of the **2010 LWF Conservation Organization of the Year** award, part of the 46th annual Conservation Achievement Awards Program sponsored by the Louisiana Wildlife Federation. Now in its 4th decade, the awards program uses recognition to promote volunteer and professional excellence and leadership in conservation. Awards are presented each year in the categories of professional, volunteer, and youth conservationist(s), conservation corporation or business, conservation educator, elected official conservationist,

communicator conservationist, water or air conservationist, and conservation communication. **Lafayette Middle Environmental Science Academy**, a CR school in Lafayette Parish, won the 2010 Youth Conservationist of the Year award. Presentations were made at the LA Wildlife Federation's 71st Annual



Left: CR staff and teachers accept the 2010 LWF Conservation Organization of the Year award. Pictured left to right: Dr. Ed Bush, Connie Conner (Reeves High), Tina Savoie (S. Cameron High), Dr. Pam Blanchard, Jake, Aleah, Lynne and Beth Bourgeois, Becky Jones and Janina Fuller. Photo credit: LWF.

Right: Students from Lafayette Middle accept their award for Conservationists of the Year. Photo credit: P. Blanchard.



Meeting. David Bourgeois, co-director of the CR Program until his death last December, would have been very proud of this accomplishment. His family graciously accompanied CR staff and teacher to the award ceremony.

Zachary Elementary's Coins for the Coast

Shortly after hearing about the Deepwater Horizon gusher last April, Zachary Elementary's administrators, staff and students decided that they needed to contribute something positive toward helping with the terrible situation. **Kristy Gilpin, teacher at Zachary Elementary**, emailed Dr. Blanchard saying,

We have been watching the news coverage in class and [our students'] response was, "What can we DO? We've learned about this all year and worked so hard! We don't want to watch the news, we want to DO something!" I love their attitudes and their stewards' hearts! - Kristy Gilpin, Teacher at Zachary Elementary.

This desire to extend their active stewardship of our coast beyond their CR plant nursery turned into a fundraiser called **Coins for the Coast**. During the last few weeks of school these 2nd and 3rd graders raised a total of \$1,140.11. By the time the money was counted, students were already enjoying their summer vacation, so **Zachary Elementary Principal Jennifer Marangos** (pictured in photo on the right) handed off their *Coins for the Coast* check to **Amy Tyrrell, Program Manager for Coalition to Restore Coastal Louisiana**. To read about these action-oriented elementary students, visit the Baton Rouge Advocate's story about their project at <http://www.2theadvocate.com/news/93373614.html>. Photo credit: Zachary Elementary staff



CR Welcomes New Schools!

The LSU CR Program has welcomed NINE new schools into our stewardship program since the start of 2010! **Schools of the Sacred Heart** (Grand Coteau), celebrated the installation of their LSU Coastal Roots plant nursery on March 24, 2010. Their stewardship project is named the Esper Marionneaux Coastal Restoration Program in honor of Headmistress Sister Lynne Lieux's grandfather, and was made possible by generous funding from Mr. Marionneaux's two living children, Mary Alice Marionneaux Lieux (Sr. Lieux's mother, seated on left; Sr. Lieux is standing at far left) and James Marionneaux (seated on right). Other schools entering the program included **Iberville Science and Arts Academy West** (Plaquemine), **Point aux Chenes Elementary** (Montegut), **J.B. Martin Middle** (Paradis), **Zachary Elementary** (Zachary), **Covington High** (Covington), and **Belle Chasse Academy** (Belle Chasse Naval Air Station). Schools that will be installed in the 2010-11 academic year include: **Northside High** (Lafayette), **Patrick F. Taylor Science and Technology Academy** (Jefferson), **L. Leo Judice Montessori Elementary** (Scott), **St. Rita Catholic School** (Harahan), and **Lutcher High** (Lutcher).



Photo credit: Schools of the Sacred Heart staff

2010-11 LSU Coastal Roots Schools

- | | |
|--|---|
| 1 Pierre Part Elementary (Pierre Part, Assumption Parish) 2001 | 24 Westdale Heights Academic Elem Magnet (Baton Rouge, EBR Parish) 2008 |
| 2 Abbeville High (Abbeville; Vermilion Parish) 2001 | 25 Archbishop Chapelle High (Metairie, Jefferson Parish) 2008 |
| 3 St. Joseph's Academy (Baton Rouge, East Baton Rouge Parish) 2001 | 26 LSU Laboratory School (Baton Rouge, E. Baton Rouge) 2008 |
| 4 St. Louis, King of France (Baton Rouge, East Baton Rouge Parish) 2002 | 27 Reeves High (Reeves, Allen Parish) 2008 |
| 5 Harry Hurst Middle (Destrehan; St. Charles Parish) 2003 | 28 Holy Cross School (New Orleans, Orleans Parish) 2009 |
| 6 Our Lady of Mercy (Baton Rouge, East Baton Rouge Parish) 2003 | 29 Franklin High (Franklin, St. Mary Parish) 2009 |
| 7 St. James Science & Math Magnet (Vacherie, St. James Parish) 2004 | 30 Iberville Science and Arts Academy East (St. Gabriel, Iberville Parish) 2009 |
| 8 Lafayette Middle (Lafayette; Lafayette Parish) 2005 | 31 Bishop Noland Episcopal Day School (Lake Charles, Calcasieu Parish) 2009 |
| 9 Albert Cammon Middle (St. Rose; St. Charles Parish) 2006 | 32 Schools of the Sacred Heart (Grand Coteau, St. Landry Parish) 2010 |
| 10 St. Charles Parish Satellite School (Luling; St. Charles Parish) 2006 | 33 Iberville Science and Arts Academy West (Plaquemine, Iberville Parish) 2010 |
| 11 R.K. Smith Middle (Luling, St. Charles Parish) 2006 | 34 Point aux Chenes Elementary (Montegut, Terrebonne Parish) 2010 |
| 12 St. Martin Episcopal (Metairie, Jefferson Parish) 2007 | 35 J.B. Martin Middle (Paradis, St. Charles Parish) 2010 |
| 13 Christ Episcopal (Covington; St. Tammany Parish) 2007 | 36 Zachary Elementary (Zachary, East Baton Rouge Parish) 2010 |
| 14 Metairie Academy for Advanced Studies (Metairie; Jefferson Parish) 2007 | 37 Covington High (Covington, St. Tammany Parish) 2010 |
| 15 Lusher Charter – Willow Campus (N. Orleans; Orleans Parish) 2008 | 38 Belle Chasse Academy (Belle Chasse, Plaquemines Parish) 2010 |
| 16 Isidore Newman School (New Orleans; Orleans Parish) 2008 | |
| 17 Belle Chasse Middle (Belle Chasse; Plaquemines Parish) 2008 | Installations Scheduled for Fall 2010 |
| 18 Central High (Central Community Schools, E. Baton Rouge Parish) 2008 | 39 Northside High (Lafayette, Lafayette Parish) |
| 19 South Cameron High (Grand Chenier, Cameron Parish) 2008 | 40 Patrick Taylor Science & Technology Academy (Jefferson, Jefferson Parish) |
| 20 Grand Lake High (Lake Charles, Cameron Parish) 2008 | 41 L. Leo Judice Montessori Elementary (Lafayette, Lafayette Parish) |
| 21 Johnson Bayou High (Cameron, Cameron Parish) 2008 | 42 St. Rita Catholic School (Harahan, Jefferson Parish) |
| 22 St. Paul's Episcopal (New Orleans, Orleans Parish) 2008 | 43 Lutcher High (Lutcher, St. James Parish) |
| 23 Larose-Cutoff Middle (Cutoff, Lafourche Parish) 2008 | |

DEMONSTRATION NURSERIES

- UNO Coastal Education & Research Facility (New Orleans, Orleans Parish) 2010
- MS Coastal Research and Extension Center (Biloxi, MS) 2009

2009-10 Mississippi Coastal Roots Schools

- 1 Wool Market Elementary (Biloxi, Harrison County) 2009

Putting Down Roots - LSU Coastal Roots Plantings from December 2009 through May 2010



LSU Lab School
December 3, 2009
Fontainebleau State Park



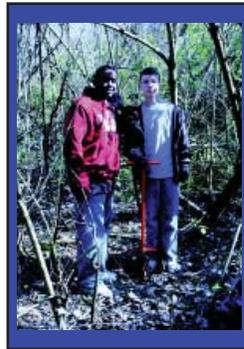
Westdale Heights Elementary
December 3, 2009
Fontainebleau State Park



Our Lady of Mercy School
December 4, 2009
Fontainebleau State Park



Christ Episcopal
December 10, 2009
Fontainebleau State Park



R.K. Smith Middle
January 5, 2010
LA State Park - Bayou Segnette



St. Martin's Episcopal School
January 13, 2010
LDWF Pointe aux Chenes Wildlife Management Area



Bishop Noland Episcopal Day School
January 14, 2010
Calcaseiu Parish - Holbrook Park



Isidore Newman (3rd - 4th grade)
January 15, 2010
Jean Lafitte National Historic Park & Preserve



Pierre Part Elementary
January 19, 2010
Maple Bayou Hunt Club, Patterson



Isidore Newman (5th, 7th, AP Env Sci)
January 22, 2010
Jean Lafitte National Historic Park & Preserve

Photo credits: Dr. Pam Blanchard LSU Coastal Roots

Putting Down Roots (con't)



Lusher Charter School
February 2, 2010
Jean Lafitte National Historic Park & Preserve



Central High
February 23, 2010
BREC Blackwater Conservation Area



Lafayette Middle
February 25, 2010
Avery Island



St. Louis King of France
March, 16, 2010
Fontainebleau State Park



Archbishop Chapelle High
April 13, 2010
Fontainebleau State Park



Metairie Academy
May, 4, 2010
Jean Lafitte National Historic Park and Preserve



Abbeville High
May 14, 2010
Chenier au Tigre, Vermillion Parish

St. Joseph Academy
December 19, 2009
Fontainebleau State Park

photo releases were not available for
Priestly Charter School
January 26, 2010
LA State Park - Bayou Segnette

Lafayette Middle
May 7, 2010
Fifi Island, Grand Isle

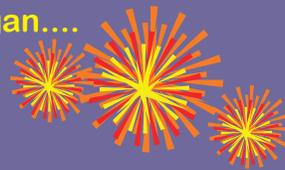
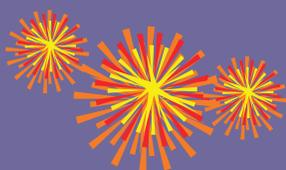


Since 2000, when the LSU Coastal Roots Program began....

4,945 students have transplanted

44,503 tree seedlings & grass plugs on

121 restoration trips in LA.

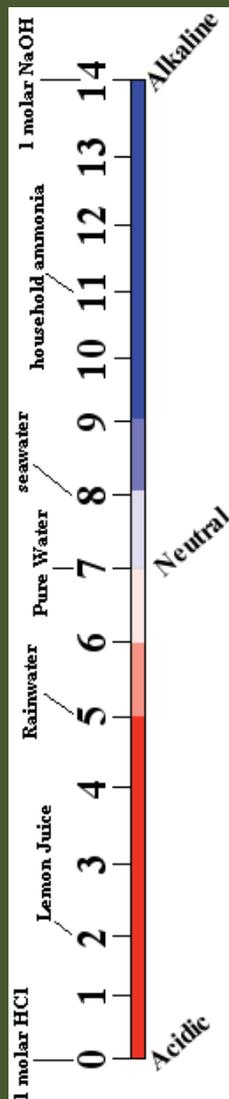


Bayouside Classroom Water Quality Parameter: pH

Murt Conover, Louisiana University Marine Consortium



pH Scale



Greetings everyone. It is time for me to once again introduce a new water quality parameter. I write this article during a time of uncertainty for coastal Louisiana. Along with everyone, I hope that the impact is far less than what is predicted. The oil spill that threatens our coast brings to light how important water quality is to our state. LUMCON remains committed to water quality education, through programs like Bayouside Classroom, for all Louisiana students so they can understand the impacts of events like an oil spill.

The parameter that we will focus on this spring is pH. We often define pH as the measure of acidity or alkalinity of a solution. While this definition is correct it often limits the understanding of the nature of pH. If we were going to be completely accurate we would say that pH is the measure of hydrogen ion [H⁺] activity in a solution which is equal to the negative logarithm of the concentration of hydrogen ion, or:

$$\text{pH} = -\log_{10} [\text{H}^+]$$

I really hope that I haven't just made you want to stop reading. Let me explain: all the equation above means is that a change of one pH unit represents a tenfold change in the concentration of hydrogen ion concentration. Example, a solution with a pH of 6 has ten times more hydrogen ions present as a solution with a pH of 7, and a solution with a pH of 5 has a hundred times more hydrogen ions present than the solution with a pH of 7.

Scientists developed the pH scale to make reporting and interpreting pH data easier because hydrogen ion concentrations in solutions are very small. The pH scale ranges from 0 to 14. A pH measurement less than 7 indicates high concentrations of hydrogen ions that make the solution acidic. A pH of 7 indicates a neutral solution, this means that it is neither an acid nor a base (alkaline). If the pH measurement is greater than 7 the concentration of hydrogen ions is low, meaning the solution is basic.

The pH of a solution can be measured using a variety of electronic meters and chemical test kits. It is important to remember that temperature should always be measured with pH because temperature exerts a significant effect on pH. In the Bayouside Classroom program we use a portable meter that automatically compensates for temperature changes.

pH is an important water quality parameter because most living organisms can only tolerate a narrow range of fluctuations in pH. Many fishes and aquatic organisms are adapted to water with a specific pH range. Any change in the pH of the water could be harmful. For example, in estuarine and open ocean conditions an effective pH buffering system limits seawater pH values to the range of 7.5 to 8.4. Change in pH can be indicative of pollution or changes in the natural chemistry of the water.

Factors that can contribute to changes in pH include acid rain, a by-product of burning fossil fuels. The release of industrial or commercial effluent into bayous can also cause a change in pH. Some areas are naturally buffered, resists changes in pH, by calcium carbonate (limestone). The ocean is one such area; seashells and the external covering of many plankton species are made on calcium carbonate.

So, what can be done to prevent man-made changes in pH of a system? Good question. We can do a lot just by preventing waste from entering a system by not pouring waste into bayous and storm drains. New parking lots can be made with permeable or porous materials so that water can be absorbed and filtered instead of running off directly into bayous and storm drains. Basins can be built around existing parking lots to catch rainwater and treat it to remove oil and other contaminants.

Acid rain can also impact the pH of systems. We can limit acid rain by reducing the use of fossil fuels. We can also develop better technologies to catch pollutants before they are released from the factories and power plants.

Well, that is pH in a nutshell. I know pH is sometime difficult to fully understand and can be very difficult to teach, but it does have a significant impact on the water quality and the ability of organisms to survive in our aquatic habitats. If you want to learn more about this and other parameters you can visit the Bayouside Classroom website (www.lumcon.edu/bayousideclassroom).

For more information about the Bayouside Classroom Program, contact Murt Conover at (985) 851-2860 or email her at mconover@lumcon.edu.

References:

International Project WET. 2002. Healthy Water Healthy People Test Kit Manual. The Watercourse.
Louisiana Universities Marine Consortium. 2001 Bayouside Classroom Program Manual. Retrieved on October 19, 2009, from <http://www.lumcon.edu/bayousideclassroom>

Can Yard Wisdom: Nursery Highlights

Becky Jones and Janina Fuller, LSU Graduate Assistants for CR

Getting students involved in the week-to-week maintenance of the nursery not only fosters their connection to the Coastal Roots Program, but also lightens the teacher's workload. In our travels to check on can yards across south Louisiana, we have seen in action some really great ideas for can yard maintenance. Some teachers have utilized the Can Yard Rubric as guide for students working to maintain their nurseries. We've found a laminated copy of the Can Yard Rubric attached to several school nursery fences. This way, students performing nursery care duties have a handy reminder of all the items requiring their attention!

The Schools of the Sacred Heart in Lafayette, Zachary Elementary School in Zachary and Iberville Science & Arts Academy West in Plaquemines have all used square red paving stones to mark the boundaries of their can yards. Paving stones can be placed outside the fence or underneath the bottom edge of the fence; either way, they serve as an added weed deterrent, as well as making the can yard stand out as a feature of the landscape.

Teachers Kristy Gilpin and Breigh Rainey at Zachary Elementary have done a wonderful job of helping their students to make the can yard uniquely their own. Students have surrounded the can yard with colorful planting pots that they have painted. They have also painted signs on wood pieces that say "Coastal Roots." Both the painted pots and the wooden signs sit atop the red paving stones, providing a decorative and lively addition to the nursery.

We look forward to watching all your plants continue to thrive over the summer and into the fall!

CR Outreach in Action:

St. Martin's students represent CR at Voice of the Wetlands Soiree

reported by Alex Monier and Rivers Bruce – St. Martin's Episcopal School – 7th Graders

On Wednesday, April 28, we attended the Voice of the Wetlands Soiree held at Southern Yacht Club in New Orleans. Voice of the Wetlands, founded by musician and wetlands activist Tab Benoit, helps to educate people about wetland loss. We were at the Soiree to explain how the Coastal Roots program helps stop coastal erosion by teaching students how to grow their own wetland plants. We demonstrated what we do at St. Martin's by showing them the planting phase, in which we plant the seeds in the planting containers (yellow cells). We then explained that our plants would grow to be about 50 cm tall before planting our Swamp Red Maple and Bald Cypress trees in Montegut. While we were there we got to meet Mr. Benoit and hear him speak about why the wetlands are so important to him. We had a great experience while we were there and enjoyed teaching others about the wetlands. Pictured at right (left to right) are Rivers Bruce, Clare Brierre, Tab Benoit, Alex Monier, and Kate Marchal.

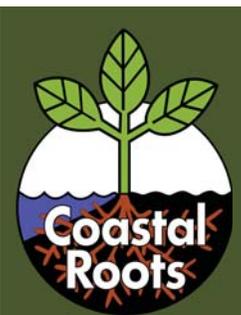


Helpful Hands at Albert Cammon Middle

This past year has been a challenging year for the CR Program at Albert Cammon Middle. The lead teacher, **Christie Williams**, was away from school on an

extended leave of absence. When the nursery needed tending, fellow staff at AC Middle pitched in in a BIG way to help out. **Joyce Humphrey**, Science Lab Monitor, and **Mary Lamartiniere**, School Office Specialist, organized and got the yard weeded and cleaned up. **Mr. James** (pictured at right) helped make sure that the irrigation system was operating and the yard stayed in good shape.

We are so grateful for these three outstanding individuals for all the sweat equity and helpful hands they provided to keep the plants growing! Many thanks, Ms. Humphrey, Ms. Lamartiniere, and Mr. James!



LSU Coastal Roots Calendar

2010-11

- 2010-09-14 Brown Foundation Learn & Serve Celebration, Kenner
- 2010-10-16 US Fish & Wildlife Service National Wildlife Refuge's *Wild Things Festival*, Lacombe
- 2010-11-09 LA Sea Grant's Ocean Commotion, Baton Rouge
- 2010-11-13 LSU Day, Baton Rouge
- 2011-04-17 Louisiana Earth Day, Baton Rouge (tentative date)



CONGRATULATIONS TO...

- Baton Rouge News 33 NBC aired a three-minute story about the **Wetland Watchers at Harry Hurst Middle School (St. Charles Parish)**:
<http://www.nbc33tv.com/news/hurst-middle-school-students-wetland-watchers>
- **Bishop Noland EDS (Calcasieu Parish)** will receive the Youth Leadership Award from Keep Louisiana Beautiful in August 2010 for their green initiatives.



*"Unless someone like you cares a whole awful lot, nothing is going to get better. It's not."
- Dr. Seuss, The Lorax*

At left, students planting cypress seeds at Bishop Noland EDS on Earth Day, 2010.



Information contact:
Dr. Pam Blanchard
LSU College of Education
Dept. of ETPP
223-E Peabody Bldg.
Baton Rouge, LA
70803

Tel: 225/578-2297 ETPP
Fax: 225/578-9135
Email: PamB@LSU.EDU

LSU Coastal Roots Restoration Partners

We thank our restoration partners for their willingness to work with and educate our LSU Coastal Roots students about the restoration needs of their site as well as other important coastal issues.



Grand Isle Port
Commission

City Park,
New Orleans



Maple Bayou
Hunt Club

NRCS Coastal
Prairie Restoration



Cheniere au
Tigre

Bea's Beach,
Cameron Parish



Jean Lafitte



National Historical Park
and Preserve
Wetland Watcher Park
Woodland Plantation
BREC Blackwater
Conservation Area
Calcasieu Parish
Police Jury

LSU Coastal Roots Seedling Nursery Program



LSU Coastal Roots: Helping the LA coast one seedling at a time!

<http://coastalroots.lsu.edu>