

# School of Math, Science, and Engineering



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## BP Awards \$10,000 Solar Project Grant

**Shining Energy Choices for Success!** Michele Powell received a \$10,000 grant from BP for the 2008-09 school year. She attended a conference in Houston, Texas in July sponsored by BP and received the check at an awards ceremony July 7th.

Students in Ms. Powell's classes will research alternative energy choices focusing on solar. Labs included research with photo-voltaic cells and building a solar car.

On the Wando High School campus, a solar fountain will be installed in the pond near the band field. Two decorative solar fountains will be installed, one of them at the memorial site for fallen Wando graduates.

In addition, a marquee light and several solar night lights will be installed. Mr. Greg Hall will help with the project by including his IT students in level II.

Power point presentations and solar brochures will be shared with WHS and parents. Fleetwood Feming, Sims Parker and Kelly Dudinyah shown right PV lab.



Above, Ms. Powell, Josh Moultrie, Elle Berge, Sam Parvin, Vincent Cavalea, John Pulley, Irmantus Draguras, Ed Colon, Marie Haglund, Neil Simon, Steven Connors, Sam Burke, Greg Shulle, Ben Williams, Time Gardner, Anthony Herrman, Breanna Weathers



## Course Highlights: Environmental Science

Environmental Science classes recently toured the Montenay Incinerator in N. Charleston to learn where 90% of Charleston County's garbage is burned. Students toured the facility including the control room pictured at the right.

Following this tour, students visited the Charleston County Recycling Center and learned where and how Charleston County recycles materials including paper, glass, #1 + #2 plastics. Yard wastes are sent to Charleston County compost.



### UPCOMING EVENTS:

- **Math, Science and Engineering Business Alliance Board Meeting**, December 2 @ 6:30 pm —E 107
- **Engineering Club Meeting**, November 13 @ 7:50 am —E106  
Sponsors: Deb Kennedy & David Roemer
- **Wando Wildlife, Water Warriors W<sup>4</sup>**  
Sponsors: Diane Girardeau, Michele Powell,
- **Mu Alpha Theta Math Honor Society Faculty Follies**, November 6 @ 7 pm—  
PAC Admission \$5 at door  
Sponsors: Ted Guerard, Larry Crosswell, & Erin Crosswell
- **Mu Alpha Theta Math Honor Society Competition**, December @ US1
- **Marine Science Club Meeting**, November 13 @ 7:45 am—F204  
Sponsor: Connie Leverette
- **Quiz Bowl Practice continues**  
Sponsors: Betty Sharpe, Erin Crosswell, & Larry Crosswell



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#### Architecture Cluster

- ◆ Architecture Design

#### Agriculture, Food and Natural Resources Cluster

- ◆ Environment and Natural Resources

#### Science, Technology, Engineering and Mathematics Cluster

- ◆ Engineering
- ◆ Mathematics
- ◆ Science

#### Transportation, Distribution and Logistics Cluster

- ◆ Logistics Planning and Management



#### Danielle Bellack

- ◆ Wando Graduate 1996
- ◆ College of Charleston English
- ◆ Masters The Citadel
- ◆ 2nd year Wando teacher
- ◆ Married to Jason in June, LAS VEGAS honeymoon
- ◆ Loves Jazz music, Star Trek, Dallas Mavericks BB +new dog Sisko
- ◆ '08 GOALS: Speak French and learn to cook !!

## Highlights of the Quarter: Environmental Science Grant Proposals



All Ms. Powell's Environmental Science classes have been busy writing grants for their Low County Earth Force Community Projects. First block wrote a GREENS Fund grant (Grants Reinvesting Environmental Ethics in neighborhood Sustainability) sponsored by the Sustainability Institute and Low Country Earth Force. The class received a \$7,000 grant to build a greenhouse on campus. Their goal is to improve air quality in their community by raising tree seedlings to give away to other Mount Pleasant schools, scout troops and garden clubs in addition to planting on the Wando

campus. Pictured above is the first block Environmental Science class which received the grant.

Pictured to the right are the class officers: Priscilla Ngoyi, Vice-President and Jason Diaz, Class President.

The 2nd block Environmental class has been working on an Energy Conservation project at the school. Teachers observed reducing the amount of lights used in their classroom will be entered in a drawing at the end of each month for prizes. Prizes include gift certificates for Towne Centre, movie passes and more! This class has also applied for a grant to increase the number of containers for collecting trash on our local beaches. They will not know if they received the grant until the end of November. If so, they will invite local elementary students to help paint the containers.



Priscilla Ngoyi (VP) and Jason Diaz (Class president)

## Focus on Faculty: Connie Leverett

**Connie Leverett**, teaches Marine Science at Wando. She has taught for 24 years and is a NOAA Teacher at Sea. She traveled 1,900 feet below the sea in a submersible!

In her class, students analyze oceanic features. They have used luciferase to produce oxyluciferin and glowing light just like Ctenophores or comb jellies produce light to protect themselves from predators. Students have made slides of spicules from sponge, and produced power points of coral reef invertebrates.

K. C. Hodgkiss brought in clam worms from Shem Creek. Michael Davis, Turner Goodwin and Parker Gaston do-



nated fish for the class aquarium. Andrew Harrison brought a tarpon and toadfish for the tank.

Pictured above is a trip to Capers Island by the Marine Science club which meets the third Tuesday of the month at 7:45 am in Ms. Leverett's

room F 204. Field Trips this year will include Capers Island and the South Carolina Aquarium. The next meeting is Nov 11th. Bring jars of peanut butter and jelly to donate to ECCO (East Cooper Community Outreach) food bank.