



UNC CHARLOTTE

The WILLIAM STATES LEE COLLEGE of ENGINEERING

Senior Design Newsletter

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2011 December EXPO

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This year's Fall EXPO was held on December 9th. There were 29 completed projects on display and 56 posters of projects that will be completed in May. The weather and attendance were both excellent. Pictures of the EXPO can be found at:

<http://srdesign.uncc.edu/expos/63-2011-fall-expo-pictures.html>

There were five finalists selected, based upon a complex criteria, from both semesters. The finalist projects were:

Cascade Water Powered Generator – a power generator customized for the cascade aeration method for wastewater treatment plants, sponsored by Char-Meck Utilities and Caldwell Brown.

Renewable and Modular Micro-Source Power Generation – combination of solar and hydrogen fuel cell power generator for extreme efficiency, sponsored by the ECE Department.

Vault Water Powered Generator – a power generator customized for the vault aeration method for wastewater treatment plants, sponsored by Char-Meck Utilities and Caldwell Brown.



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Virtual Presence – an autonomous robot with two way video permitting a remote user to communicate with individuals anywhere in a building, sponsored by NASA.

Whites Creek Pump Station Improvements – a civil engineering problem to alleviate the Whites Creek Pump Station of excess flow, an Engineering Technology Department project.

2011 December EXPO winners

And the winning teams are:

FIRST PLACE- Renewable and Modular Micro-Source Power Generation



SECOND PLACE - Virtual Presence



THIRD PLACE - Vault Water Powered Generator



CALL for Fall 2012 Projects

Missed the deadline for a spring 2012 start? No worries, we are currently accepting project descriptions until July 1 for the Fall 2012 semester. Forms and instructions are available on our website at: www.srdesign.uncc.edu/company-information.html

2012 Schedule of Events

Below is the schedule of events for the 2012 calendar year. Please be sure to put the EXPO dates on your calendar, as they promise to be the biggest yet!

- January 27, Spring Kickoff Breakfast for invited sponsors, mentors and students
- February 23-24, Project Design Review dates for Fall 2011 projects
- March 16, 23, Conceptual Design Review dates for Spring 2012 projects
- May 3, Spring EXPO, Student Activity Center-Arena, 11am-2pm **OPEN TO PUBLIC**
- July 1, Deadline for Fall Project Submissions
- September 7, Fall Kickoff Breakfast for invited sponsors, mentors and students
- November 1, Deadline for Spring 2013 Project Submissions
- December 7, Fall EXPO Student Activity Center, 11am-2pm **OPEN TO PUBLIC**

For more information or questions

Visit: www.srdesign.uncc.edu or contact Bill Heybruck at 704-687-2934 or wfheybru@uncc.edu.

Please REPLY with "REMOVE" if you do not want to receive future issues.