



UNC CHARLOTTE

The WILLIAM STATES LEE COLLEGE of ENGINEERING

## Senior Design Newsletter

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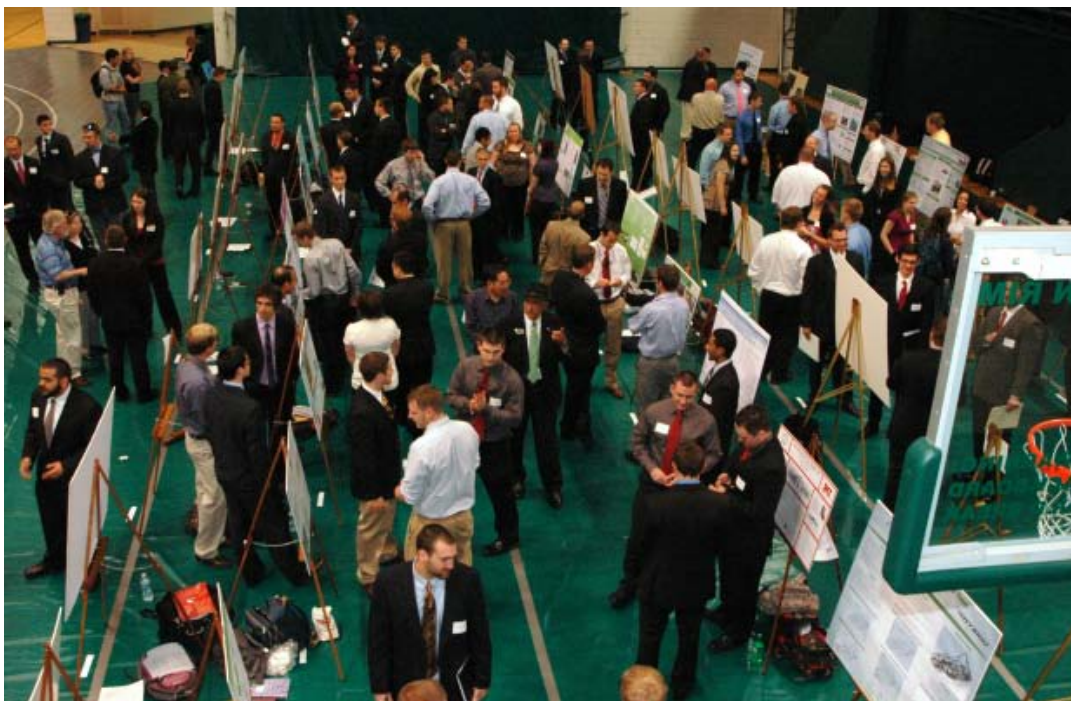


December 2010 Expo

### 2011 Spring Expo

This year's Expo was held in Halton Arena thanks to the financial support of CRI. Their grant to cover the arena rental permitted each completed project to have 100 square feet of space and all the power they wanted.

We showcased 86 completed projects on the main floor and 50 posters of completed designs on the mezzanine.





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10 projects were selected as “Finalists” by the instructors prior to the EXPO. During the event, several independent judges visited the 10 and scored their presentations. 3 were chosen as winners. The 10 Finalists were:

The Airbus Stand for the Carolinas Aviation Museum

Air Conditioned Cab for Zero Turn Mower

Lunabotics Robot for NASA Competition

Clutch Design for the Formula SAE Race Car

Fused Deposition Modeling Head for Rapid Prototype Machine

Life Estimation for Switched Mode Power Supplies for NASA

IEEE Autonomous Robot Competition Team A

Carbon Footprint Analysis of Pedestrian Bridge Structural System

SR-2804 Bridge Replacement and Intersection Realignment

Labview Robot

You can find the posters of each of the 10 finalists [HERE](#).

Photos of just about every project and the winners of Expo can be found [HERE](#).

**NEXT EXPO is December 9<sup>th</sup>!**

Our Fall EXPO will be Friday December 9<sup>th</sup> at the Student Activity Center. Mark your calendars so you will not miss another great technology display.

The winning projects for this Semester are:

**1<sup>st</sup> Place- NASA Lunabotics**



This team goes to Cape Kennedy to compete later this month.

**2<sup>nd</sup> Place IEEE Team A Autonomous Robot**



This team WON the IEEE Regional Event earlier this year in Tennessee.



### 3<sup>rd</sup> Place- FDM Rapid Prototype Machine



This was a unique single member team who did some great engineering in solving issues with the head technology.

### **Time for Project Proposals for Fall - Deadline July 1!!**

It's never too late to submit a project. It just may wait until the next sequence to get started. We had to move up the deadline for Fall 2011 start to July 1<sup>st</sup> for ample time to get a faculty mentor and students keyed to the project. It's never been easier to propose a project. Here is the link for the Sponsor Requirements Document on our website:

[http://srdesign.uncc.edu/images/stories/docs/SD\\_Sponsor\\_RequirementsSep2011v4.doc](http://srdesign.uncc.edu/images/stories/docs/SD_Sponsor_RequirementsSep2011v4.doc)

### **Need More Information or Have Questions?**

Check out our website <http://www.srdesign.uncc.edu> or contact Bill Heybruck at 704-687-2934 ([wfheybru@uncc.edu](mailto:wfheybru@uncc.edu)). This newsletter is published six times per year. Please REPLY with "REMOVE" if you would not like to receive future issues.