



UNC CHARLOTTE

*The* WILLIAM STATES LEE COLLEGE of ENGINEERING

## Senior Design Newsletter

Vol. 4, No. 5, March 2011



December 2010 Expo

### **Spring Projects!**

This January we kicked off 15 projects, 6 of them sponsored. See the list of Conceptual Design reviews below.

### **New Project deadline for Fall 2011- 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. There is a project request form on the PROJECTS page on our website that asks for all the information we need.

### **Active Project Design Reviews**

Current projects will be having their design reviews as follows:

Conceptual Design Reviews (1<sup>st</sup> Semester projects) 3/18 and 3/25

Project Design Reviews (2<sup>nd</sup> Semester Projects) 3/3, and 3/4

See detailed schedule below. You are welcome to come to any and all of our reviews but don't be surprised if we hand you a scoring sheet! Let us know so we have a parking token waiting for you.



UNC CHARLOTTE

The WILLIAM STATES LEE COLLEGE of ENGINEERING

### Future Senior Design Dates:

May 6, 2011 Spring Senior Design EXPO

July 1, 2011 – Deadline for Fall Project Submissions

### 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)). Please REPLY with “REMOVE” if you would not like to receive future issues.

### Project Design Review Schedule (2<sup>nd</sup> Semester Projects):

2010 Fall Projects Query			
Project Name	Spring Review Date	Spring Review Time	Spring Review Room
CNC Router	3/3	1945	Duke 345
Thermal Interface Instrument	3/3	1830	Duke 345
The ULTIMATE Dog House Team 2	3/3	1945	Smith 347
FSAE – Suspension – Wheels/Tires	3/3	1920	Duke 324
FSAE – Suspension – Uprights and Arms	3/3	1855	Duke 324
FSAE - Engine - Turbo System	3/3	1830	Duke 324
Turbine	3/3	1830	Smith 347
Antenna Shock Mount	3/3	1855	Smith 347
FSAE – Suspension – Brake System	3/3	1945	Duke 324
Acid Test of Boiler Pipes	3/3	1855	Duke 345
The ULTIMATE Dog House Team 1	3/3	1920	Smith 347
Retro-Fit of a Solar Diffusion Furnace	3/3	1920	Duke 345
Ocular Flow Modeling	3/4	0940	Duke 276
Fiber Sensors	3/4	0850	Woodward 106
Rooftop Solar Modules	3/4	0915	Woodward 106
3D Scanner	3/4	1005	Woodward 106
Remote Controlled Key Lock Box	3/4	0940	Smith 347
FEA of Pipe Movement During Welding	3/4	0800	Duke 276
Ankle Tone Measurement System	3/4	1030	Duke 276
MGM Air Brake Monitor	3/4	0915	Duke 276
ELVIS Implementation	3/4	1030	Woodward 106
FSAE - Suspension – Steering System	3/4	0800	Duke 259
FSAE - Engine	3/4	0940	Duke 259
FSAE - Engine - Slipper Clutch	3/4	0915	Duke 259
FSAE - Hybrid Engine	3/4	0850	Duke 259
IEEE Competition Team B	3/4	0825	Woodward 106



UNC CHARLOTTE

The WILLIAM STATES LEE COLLEGE of ENGINEERING

2010 Fall Projects Query			
Project Name	Spring Review Date	Spring Review Time	Spring Review Room
Ability One	3/4	0825	Smith 347
Hand Crank Generator	3/4	0800	Smith 347
Nuclear Lifting Mechanism	3/4	1030	Smith 347
Lunabotics Competition	3/4	0915	Smith 347
Carbon-Fiber Bike	3/4	0850	Duke 276
Windfarm	3/4	0825	Duke 276
CEM Microwave Drier	3/4	0825	Duke 259
Bio- Aerosol Test System	3/4	1005	Smith 347
FDMHead	3/4	1005	Duke 276
IEEE Competition Team A	3/4	0800	Woodward 106
Repeater Controller	3/4	0940	Woodward 106

### Conceptual Design Review Schedule (1<sup>st</sup> Semester)

2011 SP Projects CDR Query			
Project name	Spring CDR Date	Spring CDR Time	Spring CDR ROOM
Personal Hovercraft	3/18	1515	Duke 324
Vault Water Powered Generator	3/18	1450	Duke 259
CO Exhaust Test Tool	3/18	1450	Duke 324
Handheld Starter Tester	3/18	1400	Duke 259
Image Analysis For Fault Detection	3/18	1400	Woodward 140
Music Synthesizer	3/18	1425	Woodward 140
Virtual Presence	3/18	1450	Woodward 140
VSM Head Development	3/18	1515	Woodward 140
Ice Cream Cabinet Development	3/18	1400	Duke 324
Measurement of Zeta Potential of Bioactive Ceramics	3/18	1540	Duke 276
Coating Bioactive Ceramics	3/18	1515	Duke 276
Cascade Water Powered Generator	3/18	1515	Duke 259
Virtual Reality Buck	3/18	1400	Duke 259
FSAE Engine Supercharger	3/18	1540	Duke 324
Urban VAWT	3/18	1605	Duke 276
Chemical Wear of Diamond Tools	3/18	1425	Duke 276
Liburdi Test Fixture	3/18	1450	Duke 276
Allograft Storage System	3/18	1540	Duke 259
Robotic Fish Sniffer	3/18	1630	Duke 276
Renewable and Modular Micro-Source for Smart Grid Applications	3/18	1540	Woodward 140
Vapor Driven Turbine II	3/18	1605	Duke 324
FSAE Hybrid Chassis	3/18	1425	Duke 324



UNC CHARLOTTE

*The WILLIAM STATES LEE COLLEGE of ENGINEERING*

**2011 SP Projects CDR Query**

<b>Project name</b>	<b>Spring CDR Date</b>	<b>Spring CDR Time</b>	<b>Spring CDR ROOM</b>
Dyno Improvement	3/18	1655	Duke 324
Titanium Uprights	3/18	1630	Duke 324
Analysis and Design of Convection Oven	3/18	1400	Duke 276