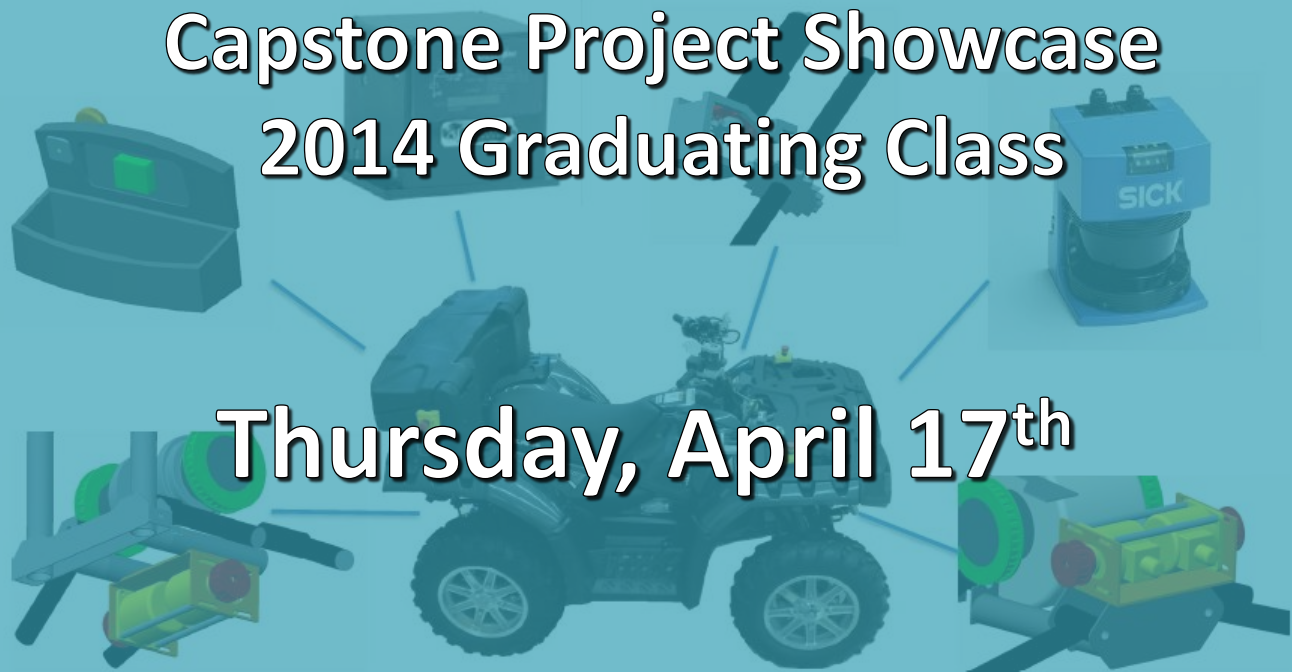


Mechanical Engineering Senior Design Capstone Project Showcase 2014 Graduating Class



Thursday, April 17th

**Presentations
8:40AM – 4:25PM
AME & HPMI**

**Poster Session
4:30PM – 6:30PM
AME**

Contact: kamin@fsu.edu or cshih@fsu.edu



**Mechanical Engineering Senior Capstone Design Project
Open House
April 17, 2014**

8:00 AM – 8:30 AM: Breakfast / panel judge instructions- AME 211

8:40 AM – 4:25 PM: Project presentations, see schedule on following page

(AME 106 & MRB 115)

4:30 PM – 6:30 PM: Prototype / poster display

(AME)

6:30 PM – 7:00 PM: Meeting of judges and faculty

(AME conference room)- AME 211

7:00 PM – 7:30 PM: Project awards and feedback from judges

(AME 106)

Time	AME 106	min	Time	MRB 115	min
8:40 AM	Brief introduction by session chairman	10	8:40 AM	Brief introduction by session chairman	10
8:50 AM	1- Elgin/AFRL: Indoor Quad-rotor Control	30	8:50 AM	15- AME Power Science Lab: Shape Conformable Battery	30
9:20 AM	2- Cummins: Biaxial Tensile Test Fixture	25	9:20 AM	16- The National Park Service: Friction Cone Penetrometer	25
9:45 AM	3- Cummins: Mechanical Dump Valve	25	9:45 AM	17- Verdicorp, Inc.: Shuttle Valve	25
10:10 AM	4- Cummins: Turbocharger Compressor Casing	25	10:10 AM	18- Capital City Pedicabs: Pedibus development	25
10:35 AM	Coffee Break	15	10:35 AM	Coffee Break	15
10:50 AM	5- Turbocor: DTC Magnet Insertion Process	25	10:50 AM	19- Beyond Innovation LLC.: Self Stabilizing Pool Table	20
11:15 AM	6- FIPSE-AUVSI: Autonomous Aerial Vehicle	30	11:10 AM	20- Marshall Space Flight Center: Direct Solar-Powered Arc jet Thruster	30
11:45 AM	7- FIPSE-UFPR: Microalgae Photo bioreactor	25	11:40 AM	21- GFDI: Automated Radar Oil Spill Detection	30
12:10 PM	Lunch	45	12:10 PM	Lunch	45
12:55 PM	8- Harris: Orthogonal Interconnect Concepts	30	12:55 PM	22- Koyo Bearing: Automated Bearing Bore Gauge	30
1:25 PM	9- Unison Industries: Phase Change Material Heat Sink	25	1:25 PM	23- ESC: Hybrid Thermal/electrical storage system for OGZEB	30
1:50 PM	10- CISCOR: Autonomous ATV	30	1:55 PM	24- Shell Eco challenge	30
2:20 PM	11 RoboOps: RASC-AL Exploration Competition	30	2:25 PM	26 Industrial Engr.: Helmet Design to Reduce Impact	30
2:50 PM	Coffee break	10	2:55 PM	Coffee break	10
3:00 PM	12- CE/ME: Offshore Wind Turbine	30	3:05 PM	25- Industrial Engr.: Palm Pruning Robot	30
3:30 PM	13 NFCC: Automated Telescope Mirror Cover	25	3:35 PM	27 NASA Kennedy Space Center: Mars Lander Robot Recharger	30
3:55 PM	14 King Arthur's Tools: Grinder/Battery	30			

**Mechanical Engineering Senior Capstone Design Project
Open House Panel Judge List
April 17, 2014**

AME 106 Session

Chair: Dr. Gregory Kostryzewsky, Cummins, Inc.

Judges:

William Bilbow, Danfoss Turbocor

Kevin Walker, Unison Industries

Dr. Rasheemah Berrell-Belvin, National Science Foundation

MRB 115 Session

Chair: Dr. Kamal Amin, Design Project Course Instructor

Judges:

Robert Parson, Verdicorp, Inc.

Melissa Van Dyke, NASA Marshall Space Center

Dr. Damion Dunlap, Naval Surface Warfare Center, Panama City

Stacey Payne-King, Consumers Energy