Inaugural Senior Design Symposium

What is Senior Design?
Final-year engineering students work in teams to apply the knowledge they gained in their curriculum to a project of practical engineering relevance. This capstone design project is a multifaceted assignment that serves as a culminating academic experience for students and requires both an oral presentation as well as a written technical report.

Senior Symposium Promotes
- Team Building
- Hands-on Learning
- Critical Thinking
- Real-world Challenges and Problem Solving

On April 29, 2016, the first Senior Design Symposium was held on Lamar University Campus. Thirty-one teams from the College of Engineering displayed their senior design projects to a group of industry judges and competed for departmental as well as college-level recognition.

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Projects

Chemical:
- Travis Enterprises
- Ethylene Production Facility
- Design of Olefins Unit in Aspen v8.8
- Ethylene Plant Design Project
- Ethylene Production Facility
- MAGNT Q Ethylene

Civil/Environmental:
- Sustainability Plan for Lamar University
- Beautification Project: Evaluation and Enhancement of Pond Quality, Sustainability & Aesthetics at John Gray Center
- Neches Waterway Dredge Spoil Stabilization Study of Placement Area SC

Electrical:
- Army Ants
- Perpetual Motion Squad
- Re-Invision Reality
- Safety Autonomous Module
- Sun Tracking Solar Panel
- Universal Motion Mechanical Support Arm
- Team Energizers
- AutoSpecto Body Cam System
- Ohm My Gauss (Bluetooth Car Ignition)

Industrial:
- Design of a Voice System to Enter and Retrieve Medical Information
- Face and Fur Inventory Tracker
- Classic Southeast Texas Facility Optimization
- Engineering New Processing System - Boute's Boudin
- DMAIC Method Applied to a Chemical Production Plant
- Automation of pH Testing and Level Controls in Waste Water Tank Farm 2

Mechanical:
- Mechanical Brick Press
- Human Powered Vehicle, Group 2
- Shell Eco Marathon Car
- Modified Human Powered Vehicle
- SAE Baja
- TSCG Sample Handling System
- MEEN Mud Motor

Department Winners
Chemical: Travis Enterprises-World Class Ethylene Plant
Team members: Jay Sharma, Colby Sundgren, Mark Stewart, Will Wilson, Karla Obregon and Joshlyn Spencer.

Civil and Environmental: Beautification Project: Evaluation and Enhancement of Pond Quality, Sustainability & Aesthetics at John Gray Center
Team members: Cory Bobbitt, Adriana Salazar, Alan Gruenstein and Billy Wilson.

Electrical: Ohm My Gauss (Bluetooth Car Ignition)
Team Members: Joel Lozano, James Ellis and LaShaina White

Industrial: Automation of pH Testing and Level Controls in Waste Water Tank Farm 2
Team Member: David Durr

Mechanical: TSCG Sample Handling System
Team Members: Matthew Perdue, Clay Robinson, Megan Campbell, Alan Giberson, and Caleb Washburn.

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SAE Mini Baja, a.k.a. Cardinal Racing, is a group comprised of 16 Mechanical Engineering students, who designed, built, and competed in an all-terrain vehicle race with other top colleges from around the country in the SAE Baja Design Series West in Gorman, California.

Team members: Thomas Michel, Dave Adams, Davis Tsan, Jonny Pierce, Garrett Raines, Conor Culpepper, Brandon Midkiff, Joey Nguyen, Ethan Baker, Reed Ricketson, Riley McMillon, Tommy Yawn, Jordan Blanchard, Lindsey Paige, Brandon Wilterson and Edgar Roque.

Grand Champion

SAE Mini Baja Car, 2016 Grand Champion Project
WANT TO CONTRIBUTE?

Erin Lovelady
Director, Outreach and Student Services
erin.lovelady@lamar.edu

211 Redbird Lane (UPS/FedEX)
P.O. Box 10057 (USPS)
Beaumont, TX 77710

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