Collegiate Design Series
2010 Year in Review
Aero Design®
Baja SAE®
Clean Snowmobile Challenge™
Formula SAE®
Supermileage®
Hybrid
Your efforts to hire graduating college students can take many forms. Internships, on-campus recruiting events, advertising and other traditional avenues will put you in touch with a large marketplace. To target and recruit the brightest, most promising engineering students, meet the most motivated among them: the competing student teams of the SAE Collegiate Design Series (CDS). Below is a brief description of what each Collegiate Design Series Event has to offer:

The **SAE Aero Design®** competition challenges engineering students to conceive, design, fabricate, and test a radio-controlled aircraft that can take off and land while carrying the maximum cargo. This gives students the opportunity to apply the knowledge learned in the classroom on a practical problem.

**Baja SAE®** consists of three regional competitions that simulate real-world engineering design projects and their related challenges. Engineering students are tasked to design and build an off-road vehicle that will survive the severe punishment of rough terrain and even water. The objective of the competition is to provide SAE student members with a challenging project that involves the planning and manufacturing tasks found when introducing a new product to the consumer industrial market. Teams compete against one another to have their design accepted for manufacture by a fictitious firm. Students must function as a team to not only design, build, test, promote, and race a vehicle within the limits of the rules, but also to generate financial support for their project and manage their educational priorities.

The **SAE Clean Snowmobile Challenge™** is an engineering design competition for college and university student members that challenge engineering students to reengineer an existing snowmobile to reduce emissions and noise while maintaining or improving the performance characteristics of the original snowmobile. The modified snowmobiles will compete in a variety of events including emissions, noise, fuel economy/endurance, acceleration, handling, static display, cold start and design. The modified snowmobiles are also expected to be cost-effective. Currently the event explores both Internal Combustion Class and Zero Emissions Class.

The **Formula SAE®** competition is for SAE student members to conceive, design, fabricate, and compete with small formula-style racing cars. The restrictions on the car frame and engine are limited so that the knowledge, creativity, and imagination of the students are challenged. Formula SAE promotes careers and excellence in engineering as it encompasses all aspects of the automotive industry including research, design, manufacturing, testing, developing, marketing, management and finances. Formula SAE takes students out of the classroom and allows them to apply textbook theories to real work experiences. Today, the competition has expanded to three locations in the United States and includes a number of spin off events in Europe, Asia and Australia.

The **SAE Supermileage®** competition provides engineering and technology students with a challenging design project that involves the development and construction of a single-person, fuel-efficient vehicle. Vehicles are powered by a small four-cycle engine. Students have the opportunity to set a world fuel economy record and increase public awareness of fuel economy.

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Many Thanks to All Our Collegiate Design Series National Sponsors for a Successful 2010 Season

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Also Thanks to the many Local Sponsors who contributed to a specific event; SAE staff appreciates your help and support of our local organizers.
SAE Aero Design West update

It Never Rains In Southern California…

The first SAE Collegiate Design competition on the season was held in Southern California, March 5-7, 2010 with the SAE Aero Design West event. SAE International returned to Apollo XI Field, along with Lockheed Martin as host and sponsor, the San Fernando Valley Radio Control Flyers, Byron’s Fuel, Boeing and NASA, and produced an outstanding competition! 44 teams from around the world registered for the 2010 event. Teams from the United States, Canada, India, Poland, Mexico, Venezuela and Germany all gathered for three days of fun and excitement.

The event was organized by Lockheed Martin, Gene Holloway, his organizing committee and hundreds of volunteers from the area. The event focused on developing young engineers challenging them to design, build and test a radio controlled plane and adhere to the rules and regulations put forth. The competition has been designed to provide exposure to the kinds of situations that engineers face in the real work environment.

The first day’s activities included a technical and safety check of all planes to determine whether the teams adhered to the specific rules and regulations. There was also an oral presentation by all teams that challenges their interpersonal communication skills. The oral presentations give students the opportunity to convince a government customer to purchase their aircraft design instead of any competitor’s design. Teams gave detailed explanations of how they arrived at the conclusion that their design was the best and why. Friday’s activities ended with a detailed outline of how the final two days of the competition will be organized.

Saturday and Sunday were the flying days where the teams had the opportunity to test their theories. Rain hampered Saturday with teams and planes dodging the raindrops. Even with the rain and chilly weather teams were able to complete 5 rounds of competitions. Sunday gave the team’s sunny, but chilly weather with 3 rounds of flights.

Apollo Field was the perfect venue to handle this competition and the teams. Sam Gengo and his team from the San Fernando Valley Radio Control Flyers provided teams pilots and had the field prepared for a great weekend. The total of 8 rounds of flights provided the teams with enough flying chances to test their designs fully. The yells and screams from excited students can still be heard through the hills! This hands-on experience and project management exercise provides students with the skills necessary to enter the real-world environment.

SAE would like to thank all of those who helped make this event a success. A big thank-you goes to Lockheed Martin, especially to Gene Holloway and his organizing committee. As with all SAE CDS competitions, these events would not have been possible without our volunteers. Those who volunteered and selflessly gave up their weekend to devote their time to this event are very much appreciated.

The results of the competition can be found at http://forums.sae.org/access/dispatch.cgi/aerodesign_pf

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INDIVIDUAL AWARDS

BEST CRASH
017 - Kettering Univ

NASA SYSTEMS ENGINEERING
024 - Univ of Toronto

WRITTEN DESIGN REPORT AWARD

ADVANCED CLASS
3rd  213 - Boise State Univ.
2nd  214 - Univ of Victoria.
1st  215 - Saint Louis Univ.

MICRO CLASS
3rd  317 - SriBhagawan Mahaveer Jain College of Eng.
2nd  313 - Cedarville Univ.
1st  315 - Univ of Toronto.

REGULAR CLASS
3rd  011 - Univ of Michigan - Ann Arbor.
2nd  003 - Univ of British Columbia.
1st  016 - South Dakota Sch of Mines.

TEAM TECHNICAL PRESENTATION AWARD

ADVANCED CLASS
3rd  212 - Polytechnic Univ - Brooklyn.
2nd  213 - Boise State Univ.
1st  215 - Saint Louis Univ.

MICRO CLASS
3rd  315 - Univ of Toronto.
2nd  312 - Cedarville Univ.
1st  317 - SriBhagawan Mahaveer Jain College of Eng.

REGULAR CLASS
3rd  001 - Kansas State Univ.
2nd  028 - Michigan Tech Univ.
1st  011 - Univ of Michigan - Ann Arbor.

HIGHEST PAYLOAD FRACTION AWARD

MICRO CLASS
3rd  317 - SriBhagawan Mahaveer Jain College of Eng.
2nd  313 - Cedarville Univ.
1st  315 - Univ of Toronto.

ADVANCED PERFORMANCE AWARD

ADVANCED CLASS
3rd  212 - Polytechnic Univ - Brooklyn.
2nd  217 - Arizona State Univ - Tempe.
1st  215 - Saint Louis Univ.

MOST PAYLOAD AWARD

ADVANCED CLASS
3rd  217 - Arizona State Univ - Tempe.
2nd  215 - Saint Louis Univ.
1st  212 - Polytechnic Univ - Brooklyn.

REGULAR CLASS
3rd  001 - Kansas State Univ.
2nd  028 - Michigan Tech Univ.
1st  005 - Ecole Polytechnique De Montreal.

SAE INTERNATIONAL OVERALL AWARD

ADVANCED CLASS
3rd  217 - Arizona State Univ - Tempe.
2nd  212 - Polytechnic Univ - Brooklyn.
1st  215 - Saint Louis Univ.

MICRO CLASS
3rd  317 - SriBhagawan Mahaveer Jain College of Eng.
2nd  313 - Cedarville Univ.
1st  315 - Univ of Toronto.

ELLIOTT & DOROTHY GREEN AWARD OF EXCELLENCE
3rd  001 - Kansas State Univ.
2nd  028 - Michigan Tech Univ.
1st  005 - Ecole Polytechnique De Montreal.
Madison Sweeps Clean Snowmobile Challenge, Tech Nabs a Silver

Houghton, MI, April 6 00:00:00.0, 2010
By: Marcia Goodrich, Michigan Technological University March 21, 2010 - For the second year running, the University of Wisconsin–Madison rode to the top of both divisions of the SAE Clean Snowmobile Challenge, held March 15-20 at Michigan Technological University.

“It came down to having a running sled the whole time,” said team captain Jacob Mauermann. “The warm weather made it difficult for everyone, so at the end of the day, it was about reliability as much as design.”

The team focused on improving emissions in its internal combustion entry and on reducing noise in the battery-powered zero emissions snowmobile. “We built a brand-new zero emissions sled and switched to a direct drive belt,” said Mauermann, adding that the team tested the sled exhaustively before the competition.

Held at the University’s Keweenaw Research Center, the Clean Snowmobile Challenge is a collegiate design competition of the Society of Automotive Engineers. Engineering students from participating schools take a stock snowmobile and reengineer it. Their aim: to reduce emissions and noise while maintaining or boosting performance. The Challenge also has a division for battery-powered sleds. The zero emissions category is sponsored by the National Science Foundation, which uses electric snowmobiles while conducting research in pristine arctic locations.

The University of Wisconsin-Madison’s internal combustion sled received the Gage Products Award for Best Fuel Economy, the AVL Award for Best Emissions, the Sensors Inc. Award for Lowest In-Service Emissions and the BlueRibbon Coalition Award for Most Practical Solution. Its battery-powered entry received the SAE Award for Best Design in the zero emissions category.

Michigan Tech’s snowmobile took second place in the internal combustion category, equaling last year’s finish. It also received the SAE Award for Best Design in the internal combustion category, the Land and Sea Award for Best Performance and the Altair Engineering Award for Design Simulation.

“We did lots of design and analysis, and it paid off,” said team captain Josh Ball. “Everything we designed held up pretty well for us.”

Clarkson University’s zero emissions entry took second place in that category and also took the CH2M HILL Polar Service Range Event Award and the Keweenaw Research Center Draw Bar Pull Award.

The University of Idaho finished third in the internal combustion category, earning the International Engineering and Manufacturing (Woody’s) Award for Best Acceleration, the...
The State University of New York at Buffalo finished fourth in the internal combustion category. The only diesel-powered sled in the Challenge, it took the PCB Group Award for Quietest Snowmobile, the Caterpillar Corporation Award for Innovation and the Aristo Catalysts Inc. Award for Most Improved Snowmobile.

Kettering University took fifth place in the internal combustion category. McGill University finished third among the zero emissions sleds.

The University of Minnesota-Duluth received the Hawk Technology Safety Award.

The A&E Inc. Tools and Ken Cook Publications Award for Serviceability was given to the South Dakota School of Mines and Technology.

Newcomer North Dakota State University received the Rookie of the Challenge Award.

And the University of Wisconsin-Platteville team members were honored with the Bill Paddleford Founder’s Award for Most Sportsmanlike Conduct for the help they provided to North Dakota State’s team during its first year at the Challenge.

None of the Clean Snowmobile Challenge events had to be cancelled, despite an early spring thaw and temperatures that occasionally soared into the 60s. Saturday’s handling and acceleration events were held on a raised track that was assembled for the occasion. “We had guys picking up snow with a front-end loader and literally making a snow road,” said Jay Meldrum, co-director of the Challenge. “It’s amazing what they were able to do.”

William Predebon, chair of the mechanical engineering-engineering mechanics department and the Challenge’s other co-director, praised the efforts of the KRC staff in bringing the Challenge to a successful close. “No one else had any more snow than we did this year,” he said. “Without the efforts of these guys and without this facility, we couldn’t have pulled it off. They did a great job.”
Brazilian teams win two of three classes

SAE Aero Design East...Brazilian teams win two of three classes!!

The second Aero Design competition of the season took place April 29-May 2nd at the Fort Worth Thunderbird field in Fort Worth, Texas. SAE International along with sponsors Lockheed Martin, NASA, Gulfstream, Byron’s Fuel and working with the Thunderbirds combined to organize a highly successful competition.

The event was organized by Lockheed Martin and lead by Oliver Alvarado, along with his organizing committee and hundreds of volunteers from the area. The event focused on developing young engineers by challenging them to design, build and test a radio controlled plane and adhere to the rules and regulations put forth. The competition has been designed to provide exposure to the kinds of situations that engineers face in the real work environment.

The first day’s activities included a technical and safety check of all planes to determine whether the teams adhered to the specific rules and regulations. There was also an oral presentation by all teams that challenges their interpersonal communication skills. The oral presentations give students the opportunity to convince a government customer to purchase their aircraft design instead of a competitor’s design. Teams gave detailed explanations of how they arrived at the conclusion that their design was the best and why. Friday’s activities ended with a detailed outline of how the final two days of the competition will be organized.

The last two days, Saturday and Sunday, were the flying days where the teams had the opportunity to test their theories. Thunderbird field was the perfect venue to handle this competition and the teams. The volunteers from the Fort Worth Thunderbirds provided teams pilots and had the field prepared for a great weekend. The total of 6 rounds of flights provided the teams with enough flying chances to test their designs fully. The yells and screams from excited students can still be heard through the hills! This hands-on experience and project management exercise provides students with the skills necessary to enter the real-world environment.

The team from Brazil, CEFET-MG came away with the overall top honors in regular class with total points of 237.3802 and a margin over second place University of Cincinnati of just 1.2426!

In the new Advanced Class the winning team, Warsaw University of Technology stayed in the top three through all 6 rounds claiming the top spot near the end.

And finally in Micro Class another team from Brazil, Escola de Engenharia de Sao Carlos kept the lead all weekend and held off a tough determined University of Puerto Rico team.

SAE would like to thank all of those who helped make this event a success. A big thank-you goes to Lockheed Martin, especially to Oliver Alvarado and his organizing committee. As with all SAE CDS competitions, these events would not have been possible without our volunteers. Those who volunteered and selflessly gave up their weekend to devote their time to this event are very much appreciated.

The results of the competition can be found at; http://students.sae.org/competitions/aerodesign/results/
Aero-Design Awards: Aero-East 2010

INDIVIDUAL AWARDS

BEST CRASH
006 - Warsaw University of Technology

NASA SYSTEMS ENGINEERING AWARD
213 - Ecole De Technologie Superieure

SAE DESIGN INNOVATION AWARD
028 - Univ of Hawaii – Manoa

WRITTEN DESIGN REPORT AWARD

ADVANCED CLASS
3rd 216 - Iowa State Univ. 43.9333
2nd 212 - Missouri University of Science and Tech. 43.9733
1st 219 - Warsaw University of Technology. 47.7667

MICRO CLASS
3rd 315 - Ryerson Univ. 46.5667
2nd 311 - Escola de Engenharia de Sao Carlos. 47.7667
1st 320 - Univ of Akron. 48.4000

REGULAR CLASS
3rd 024 - Wright State Univ. 47.4000
2nd 003 - Univ of Cincinnati. 47.6333
1st 005 - Kansas State Univ. 48.8333

TEAM TECHNICAL PRESENTATION AWARD

ADVANCED CLASS
3rd 211 - Escola de Engenharia de Sao Carlos. 43.6833
2nd 220 - Embry-Riddle Aero Univ - Daytona Beach. 47.2833
1st 216 - Iowa State Univ. 48.8333

MICRO CLASS
3rd 321 - Politechnika Poznanska. 44.6250
2nd 315 - Ryerson Univ. 45.2500
1st 311 - Escola de Engenharia de Sao Carlos. 46.6250

REGULAR CLASS
Place Team Number - School Score
3rd 029 - Lafayette College. 47.8667
2nd 037 - UNEFA. 48.6333
1st 018 - Oklahoma Christian Univ. 48.6667

HIGHEST PAYLOAD FRACTION AWARD

MICRO CLASS
3rd 314 - Missouri University of Science and Tech. 0.6911
2nd 316 - Univ of Puerto Rico. 0.6982
1st 311 - Escola de Engenharia de Sao Carlos. 0.7449

ADVANCED PERFORMANCE AWARD

ADVANCED CLASS
3rd 216 - Iowa State Univ. -210.9570
2nd 213 - Ecole De Technologie Superieure. -101.2739
1st 219 - Warsaw University of Technology. 35.5667

MOST PAYLOAD AWARD

ADVANCED CLASS
3rd 219 - Warsaw University of Technology. 25.8500
2nd 213 - Ecole De Technologie Superieure. 27.9100
1st 211 - Escola de Engenharia de Sao Carlos. 39.3900

SAE INTERNATIONAL OVERALL AWARD

ADVANCED CLASS
3rd 216 - Iowa State Univ. 140.6867
2nd 211 - Escola de Engenharia de Sao Carlos. 161.5967
1st 219 - Warsaw University of Technology. 175.8500

MICRO CLASS
3rd 314 - Missouri University of Science and Tech. 163.2293
2nd 316 - Univ of Puerto Rico. 166.1781
1st 311 - Escola de Engenharia de Sao Carlos. 182.8001

ELLIOTT & DOROTHY GREEN AWARD OF EXCELLENCE
3rd 012 - Escola de Engenharia de Sao Carlos. 231.3987
2nd 003 - Univ of Cincinnati. 236.1376
1st 011 - CEFET-MG. 237.3802
Universite Laval Captures Win at First Baja SAE Competition of the Season!

Teams from Canada took the top two overall spots in the first Baja SAE competition of the season. The opening 2010 Baja SAE event of the year took place in Greenville, South Carolina April 8-11 at the Clemson University–International Center for Automotive Research (CU-ICAR). The weather was almost perfect as 89 teams took to the custom designed and built track at CU-ICAR. The local organizing committee did an outstanding job and provided all participants with a great event to begin the competition season with.

The entire 4 day competition was held at CU-ICAR. The event kicked off on Thursday and Friday with registration and technical and safety inspections. The dynamic events featured Land Maneuverability and Suspension/Traction courses, a Pulling challenge, Brake Testing and an Acceleration event. Winning both the Land Maneuverability and Acceleration events was team #012, Universidade de Sao Paulo. Suspension/Traction was won by team #031, Universite Laval, and in the Pulling event was team #023, University of Tennessee – Knoxville.

The last day was the Endurance event, a four-hour demonstration of vehicle and team management. The 1.3 mile course took teams through woods and a host of obstacles. The overall winner of the competition capturing the Briggs and Stratton Overall award went to team #031, Universite Laval who also took first place in the Endurance Event, followed by #011, Centro Universitario Da FEI and rounding out third, team #010, Ecole de Technologie Superieure. The second place winner of the Endurance Event was team #081 – Cornell University and team #76 – Virginia Tech took third place.

The awards ceremony held on Sunday right after the endurance race gave everyone the opportunity to congratulate all the winners. As a special demonstration of their support for the Collegiate Design Series program, Briggs and Stratton staff raffled off a generator and power washer. A huge thank you to Briggs & Stratton.

SAE would like to thank the SAE Carolina Section, Jeff Poland and all of his hard working organizing team members. Jeff and his crew did an outstanding job planning and organizing this Baja SAE competition. Another huge thank you to our corporate sponsors for their time and contributions to make these events a success! And most importantly to the students who participate and provide feedback on how we can improve these events for future competitions. SAE International thanks everyone who helped make this event a great success!

To view all final score results from Baja SAE Carolina, please visit http://students.sae.org/competitions/bajasae/results/.
### BAJA SAE CAROLINA

#### ACCELERATION AWARD
1st Place Universidade de Sao Paulo  
2nd Place Universite Laval  
3rd Place Centro Universitario Da FEI

#### PULLING EVENT AWARD
1st Place Univ of Tennessee - Knoxville  
2nd Place Univ of Alabama - Tuscaloosa  
3rd Place Lawrence Technological Univ

#### SUSPENSION AWARD
1st Place Universite Laval  
2nd Place Univ of Maryland - College Park  
3rd Place Univ of South Florida

#### MANEUVERABILITY AWARD
1st Place Universidade de Sao Paulo  
2nd Place Rochester Institute of Technology  
3rd Place Cornell Univ

#### POLARIS OVERALL DESIGN AWARD (SAE PROVIDES PLAQUES)
1st Place Centro Universitario Da FEI  
2nd Place Rochester Institute of Technology  
3rd Place Ecole De Technologie Superieure

#### HONDA MANUFACTURING OF ALABAMA OVERALL COST AWARD
1st Place Univ of Maryland - Baltimore County  
2nd Place Universidad La Salle  
3rd Place Universidad De La Salle Bajio

#### HONDA R&D AMERICAS ENDURANCE AWARD
1st Place ($1000 & Plaque) Universite Laval  
2nd Place ($725 & Plaque) Cornell Univ  
3rd Place ($525 & Plaque) Virginia Tech

#### BRIGGS & STRATTON OVERALL PERFORMANCE AWARD
1st Place Universite Laval  
2nd Place Centro Universitario Da FEI  
3rd Place Ecole De Technologie Superieure

#### 4-10 BRIGGS AND STRATTON OVERALL AWARD
4. Univ of Maryland - College Park  
5. Cornell Univ  
6. Univ of Maryland - Baltimore County  
7. Instituto Maua de Tecnologia  
8. Universite de Sherbrooke  
9. Universidade de Sao Paulo  
10. Virginia Tech
Global Formula Racing combined of students from Oregon State University and Duale Hochschule Baden-Wuerttemberg-Ravensburg, Germany are the first FSAE team to compete with the goal of competing as a single international entity. These students have proved that with hard work, determination and a global focus it is possible to win it all at Formula SAE Michigan. Besides finishing in 1st place; the team captured 11 awards.

These students have previously collaborated on designing certain aspects of one another’s vehicles and after three years this year’s collaboration moved to a whole new level with the two universities working together as one to design and build an entire car to enter in both the U.S. and E.U. competitions under the new name Global Formula Racing.

Formula SAE having made a home at Michigan International Speedway returned for its third year as this venue offers a great experience to all who participate. Located in Brooklyn, Michigan the venue offers team paddocks on asphalt with built-in electric hook-ups, NASCAR garages and suites for all static judging. All dynamic events where the vehicles operate are on the back side of the oval.

Over 100 teams registered to compete on the first day representing colleges and universities from Austria, Brazil, Canada, Estonia, India, Japan, Singapore, South Korea, Turkey, United States and Venezuela.

SAE International registered onsite 102 out of the 120 teams registered online.

On Thursday, May 13th seventy-nine (79) teams had passed technical inspection; leaving 23 teams to still visit the technical inspection volunteers on Friday, May 14th.

After a full day of design judging; the judges invited fourteen (14) teams to the Design Semi-Finals. Those teams were (in no particular order):
- Car #38 - Queen's University
- Car #1 - TU Graz
- Car #13 - University of Maryland
- Car #3 - ETS
- Car #84 - University of Florida
- Car #11 - Oregon State University
- Car #115 - Virginia Tech
- Car #55 - Pennsylvania State University
- Car #36 - Universite Laval
- Car #6 - Missouri University of Science and Technology
- Car #12 - University of Kansas
- Car #87 - Cornell University
- Car #119 - TU Munchen
- Car #9 - University of Michigan – Dearborn

Pushing forward in Design Finals was:
- Car #1 – TU Graz
- Car #3 – ETS
- Car #11 – Oregon State University (Global Formula Racing)

Taking first place in cost receiving the Yazaki award was Car # 55 Pennsylvania State University and in first place in presentation receiving the Yazaki award was Car #11 Oregon State University.

For those cars that passed technical inspection, teams took to the track in the morning completing their Acceleration and Skid Pad runs. Taking first place in Acceleration was Car #7 University of Michigan-Ann Arbor with a time of 3.766 seconds. With their large wings, Car # 13 University of Maryland finished Skid Pad in first place with a time of 4.961 seconds.

In the afternoon teams completed their runs for the Autocross; crossing the starting line was 73 cars. Finishing in first place with the clean run and fastest time was Car #14 University of Stuttgart with a time of 63.5 seconds. Teams who completed the event and placed were granted a position in the Endurance run order.
FORMULA SAE VIRGINIA 2010 AWARD WINNERS

YA ZAKI PRESENTATION AWARD
The team that receives the best score in Presentation $500
1st Place – Oregon State University

YA ZAKI COST AWARD
The team that receives the best score in Cost $500
1st Place – Pennsylvania State University

ASBE FOUNDATION BODY DESIGN COMPETITION
Outstanding design in the area of Aero, Structure, Panel Breakup & Manufacturability $500
Winner – Oregon State University (Global Formula Racing)

THE THIRD ANNUAL FORMULA SAE PUSHBAR COMPETITION EVENT
Winner – Northern Illinois University

GM ACCELERATION AWARD
The team who receives the best score in Acceleration $750
1st Place – University of Michigan - Ann Arbor

GM SKID PAD AWARD
The team who receives the best score in Skid Pad $750
1st Place – University of Maryland - College Park

ALT AIR ENGINEERING’S WILLIAM R. ADAM ENGINEERING AWARD
Development of new and innovative design concepts for FSAE racing competition $1000, $500
1st Place – Oregon State University (Global Formula Racing)
2nd Place – Duke University

DOOR PRIZE WINNERS
Winner of the donated Harbor Freight tool box was Car #65 Kanagawa Institute of Technology.
Car #10 University of Akron won the utility cart and jack stands donated by SAE International.

FISITA AWARD FOR ENGINEERING EXCELLENCE IN STATIC EVENTS
The team with the highest overall score in the static events (Cost, Presentation and Design) $675
Winner – Oregon State University

THE JOE GIBBS SPIRIT OF INNOVATION AWARD
The 2010 Joe Gibbs Spirit of Innovation Award will recognize the team with the most innovative use of simulation in the development of their FSAE car - $3000, $2000, $1000
1st Place – University of Michigan - Ann Arbor
2nd Place – Northern Illinois University
3rd Place – Oregon State University

HONDA R&D AMERICAS ENGINEERING DESIGN AWARD
Top 3 Finishers in the Design Event - $1000, $725, $525
1st Place – Oregon State University
2nd Place – Ecole De Technologie Superieure
3rd Place – Graz University of Technology

HOOSIER TIRE AUTOCROSS AWARD
First three finishers in the Autocross event - 8 free tires, 6 free tires, 4 free tires
1st Place – University of Stuttgart
2nd Place – Oregon State University
3rd Place – University of Maryland - College Park

GM ENDURANCE AWARD
Top three finishers in the Endurance event - $1500, $1000, $500
1st Place – Oregon State University
2nd Place – University of Michigan - Ann Arbor
3rd Place – University of Maryland - College Park

FORD FUEL ECONOMY AWARD
Top three finishers in the Fuel Economy event - $1500, $1000, $500
1st Place – Villanova University
2nd Place – Brown University
3rd Place – Kettering University

GOODYEAR “GET THERE” AWARD
Highest combined overall score from Autocross and Endurance events - 1 Day K&C Testing on Goodyear’s SPMM located in Akron, OH
1st Place – Oregon State University

HONDA DYNAMIC EVENT AWARD
Best Combined Scores in Dynamic Events - $1000, $725, $525
1st Place – Oregon State University
2nd Place – University of Michigan - Ann Arbor
3rd Place – Graz University of Technology

THE FEV POWERTRAIN DEVELOPMENT AWARD
Overall excellence in powertrain development - $1500, $750, $300
1st Place – University of Michigan - Ann Arbor
2nd Place – Oregon State University
3rd Place – University of Texas – Arlington

FORMULA SAE RECOGNITION OF ACCOMPLISHMENT TEAMS THAT SUCCESSFULLY SCORE IN ALL EVENTS AND DO NOT FINISH IN THE TOP 10
Georgia Institute of Technology
Clarkson University
Kettering University
North Carolina State University- Raleigh
Clemson University
Universite Laval
Queen's University- Ontario Canada
Georgia Southern University
University of Toledo
University of Wisconsin - Madison
University of North Dakota
University of Illinois - Urbana Champaign
Chungbuk National University
Lafayette College
Western Washington University
University of Western Ontario
On Saturday, May 15th the Formula SAE event concluded with the Endurance event. Eighty teams crossed the starting line to a course where each driver drove 14 laps with the hope of completing both runs. Finishing the Endurance event was 43 cars increasing the finishing rate above half the playing field; however only 40 teams received scores due to staying below the maximum run time of 1805 seconds. Taking first place in Endurance was Car #1 Oregon State University (Global Formula Racing) with a total time of 1242.818 seconds. Unfortunately the run was not completely clean as the drivers manage to hit a total of 3 cones which added 6 seconds to their time.

The award ceremony also took place on Saturday night after the completion of the endurance event. All award winners were announced. Taking home first place overall and the traveling foundation cup was Car #1 Oregon State University (Global Formula Racing) with a total of 907.8 points over a 50 point lead from the runner up; finishing in second place was Car #7 University of Michigan-Ann Arbor with a total of 854.3 points. Finishing in third place was Car #1 TU Graz with a total score of 843.4 points.

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To view all final scores results from the Formula SAE Michigan event, please visit http://students.sae.org/competitions/formulaseries/results/. You can also view the results attached to this article; just select download additional information link located at the bottom of the text.
### Baja SAE Rochester List of Awards

<table>
<thead>
<tr>
<th>Award Type</th>
<th>1st Place</th>
<th>2nd Place</th>
<th>3rd Place</th>
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</thead>
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<tr>
<td><strong>ACCELERATION AWARD</strong></td>
<td>Univ of Wisconsin - Madison</td>
<td>Univ of Michigan - Ann Arbor</td>
<td>Ferris State University</td>
</tr>
<tr>
<td><strong>HILL CLIMB EVENT</strong></td>
<td>Univ of Michigan - Ann Arbor</td>
<td>Univ of Wisconsin - Madison</td>
<td>Ferris State University</td>
</tr>
<tr>
<td><strong>LAND MANEUVERABILITY EVENT</strong></td>
<td>Universite Laval</td>
<td>Ecole De Technologie Superieure</td>
<td>Cornell Univ</td>
</tr>
<tr>
<td><strong>WATER MANEUVERABILITY EVENT</strong></td>
<td>Memorial Univ of Newfoundland</td>
<td>Lipscomb Univ</td>
<td>Cornell Univ</td>
</tr>
<tr>
<td><strong>SUSPENSION AND TRACTION EVENT</strong></td>
<td>Universite Laval</td>
<td>Universite de Sherbrooke</td>
<td>Cornell Univ</td>
</tr>
<tr>
<td><strong>POLARIS OVERALL DESIGN AWARD</strong></td>
<td>Michigan Tech Univ</td>
<td>Rochester Institute of Technology</td>
<td>Universite de Sherbrooke</td>
</tr>
<tr>
<td><strong>HONDA MANUFACTURING OF ALABAMA</strong></td>
<td>Univ of Maryland - Baltimore County</td>
<td>Univ of Central Florida</td>
<td>Univ of Michigan - Ann Arbor</td>
</tr>
<tr>
<td><strong>OVERALL COST AWARD</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>HONDA R&amp;D AMERICAS ENDURANCE AWARD</strong></td>
<td>Rochester Institute of Technology Tiger 2</td>
<td>Univ of Windsor</td>
<td>Rochester Institute of Technology Tiger 1</td>
</tr>
<tr>
<td><strong>HILL CLIMB AWARD</strong></td>
<td>Univ of Michigan - Ann Arbor</td>
<td>Univ of Wisconsin - Madison</td>
<td>Ferris State University</td>
</tr>
<tr>
<td><strong>BRiggs &amp; Stratton OVERALL PERFORMANCE AWARD</strong></td>
<td>Cornell Univ</td>
<td>Univ of Windsor</td>
<td>Rochester Institute of Technology</td>
</tr>
<tr>
<td><strong>4-10 BRiggs AND Stratton OVERALL AWARD</strong></td>
<td>Ecole De Technologie Superieure</td>
<td>Univ of Maryland - Baltimore County</td>
<td>Northeastern Univ</td>
</tr>
</tbody>
</table>
| **SAE would like to thank Marty Gordon and all of his hard working organizing team members. Marty and his crew did an outstanding job planning and organizing this Baja SAE competition. Another huge thank you to our corporate sponsors for their time and contributions to make these events a success! And most importantly to the students who participate and provide feedback on how we can improve these events for future competitions. SAE International thanks everyone who helped make this event a great success!**

To view all final score results from Baja SAE Rochester, please visit [http://students.sae.org/competitions/bajasae/results/](http://students.sae.org/competitions/bajasae/results/).
Rochester Institute of Technology repeats Win at Formula SAE California

With a 60.5 point lead over second place, Rochester Institute of Technology (RIT) seized the 1st Place Overall title for their second year in a row.

RIT took 2nd place in Presentation and Design; 3rd place in Cost and Acceleration. And they managed to hold onto their 1st place finish in Endurance while dealing with an issue on their fuel delivery. “We had a fuel leak internal to our fuel cell which caused a fuel starvation issue in the second half of our endurance run. Our second driver (Taylor Hattori) used excellent judgment, having already known that the Oregon State car had dropped from endurance, he decided to take it easy in case the car was actually running out of fuel,” said John Scanlon RIT FSAE Racing Engine Group Leader.

The competition was held at the Auto Club Speedway in Fontana, California for the 5th consecutive year and welcomed 58 teams from around the world. Competing teams represented Canada, India, Mexico, Japan, United Kingdom, United States and Venezuela. Fifty-six of those teams brought cars to compete. Teams made use of the asphalt paddocks complete with water and electric hook ups. All static judging took place in the NASCAR garages and suites. Dynamic events were staged and ran on the infield course areas.

The event kicked off on Wednesday, June 17th with Team registration and early Technical Inspection. An estimated 21 cars were seen at least once before the 7pm shut down. On Thursday, all the static events were completed; Cost, Design and Presentation.

Taking 1st in Cost was Car #40 University of Alberta with an adjusted cost of $9,449.

Announced for Design Semi-Finals were six universities:
- Car #1 Rochester Institute of Technology
- Car #72 University of Illinois – Urbana Champaign
- Car #3 University of Kansas – Lawrence
- Car #71 Missouri University of Science and Technology
- Car #2 Oregon State University (Global Formula Racing)
- Car #5 University of Oklahoma

Design Finals took place on Saturday, June 19th. Out of the six semifinalists three were invited to Design Finals and public review; Car #1 Rochester Institute of Technology, Car #2 Oregon State University (GFR) and Car #5 University of Oklahoma. After a full review of the cars and a lengthy discussion by the judges, Design Event Captain Mike O’Neil announced Oregon State University as the winner.

Finishing in 1st place in Presentation was also Oregon State University (GFR).

Technical Inspection finished up the day with having passed 43 cars in scrutineering and tilt and approximately 28 through brake and noise.

Friday started the real test for the car’s abilities. In the morning, Acceleration and Skid Pad were completed followed by Autocross in the afternoon. With temperatures already in the high 80s, cars were keeping the pavement hot with their fast times. Running fastest in Acceleration was Car #2 Oregon State with a time of 4.033 seconds. Holding onto their 1st place in Skid Pad from the 2009 event was Missouri University of Science and Technology, Car #71 with a time of 4.954 seconds; shaving .069 seconds of their last year’s top time.

Crossing the starting line for Autocross were 38 teams; though all cars finished only 31 teams managed to receive scores while the other 7 who finished over the cutoff time limit did not. Finishing with the fastest lap time was Car #71 Missouri University of Science and Technology with a clean run and time of 66.179 seconds. In 2nd place with a clean run time of 66.395 was Car #13 South Dakota School of Mines and Technology. Finishing in 3rd place with a clean run and time of 67.404 was Car #2 Oregon State University.

The competition concluded on Saturday, June 19th with Endurance and Fuel Economy events followed by the award ceremony. Forty-six cars took the green flag in Endurance and 19 received the checker giving the event a finishing rate of 41%. Finishing.
Formula SAE California 2010 Award Winners

**SAE PRESENTATION AWARD**
The team that receives the best score in Presentation
1st Place - Oregon State University

**SAE COST AWARD**
The team that receives the best score in Cost
1st Place - University of Alberta

**HONDA R&D AMERICAS ENGINEERING DESIGN AWARD**
Top 3 Finishers in the Design Event - $1000, $725, $525
1st Place - Oregon State University
2nd Place - Rochester Institute of Technology
3rd Place - University of Oklahoma

**SAE ACCELERATION AWARD**
The team who receives the best score in Acceleration
1st Place - Oregon State University

**SAE SKID PAD AWARD**
The team who receives the best score in Skid Pad
1st Place - Missouri University of Science and Technology

**HOOSIER TIRE AUTOCROSS AWARD**
First three finishers in the Autocross event - 8 free tires, 6 free tires, 4 free tires
1st Place - Missouri University of Science and Technology
2nd Place - South Dakota School of Mines & Technology
3rd Place - Oregon State University

**SAE ENDURANCE AWARD**
Top three finishers in the Endurance event
1st Place - Rochester Institute of Technology
2nd Place - University of Oklahoma
3rd Place - University of Akron

**SAE ECONOMY AWARD**
Top finisher in the Fuel Economy event
1st Place - University of California – Irvine

**GOODYEAR “GET THERE” AWARD**
Highest combined overall score from Autocross and Endurance events
- 1 Day K&C Testing on Goodyear’s SPMM located in Akron, OH
1st Place - Rochester Institute of Technology

1st was Car #1 RIT with an adjusted time of 1642.229 after receiving the applied penalties for hitting 4 cones. In 2nd place was Car #5 University of Oklahoma with an adjusted time 1645.757 after hitting 3 cones. And in 3rd place with an adjusted time of 1685.022 due to hitting 3 cones was Car #84 University of Akron.

For the first time, the Formula SAE rules have been modified to allow for Fuel Economy to be scored as a separate event. Winning this event was Car #80 University of California-Irvine who showed up with a single-wheel drive car having built it primarily for a fuel mileage competition elsewhere. However, with their Briggs & Stratton engine they did complete the endurance event and win the FSAE fuel economy event.

The award ceremony took place following the finish of Endurance. Taking home 1st Place Overall was Car #1 Rochester Institute of Technology with 875.3 points. Finishing was 2nd Place Overall with 814.8 points is Car # 4 University of Oklahoma and in 3rd Place Overall was Car # 47 University of Washington with 794 points.

The SAE Collegiate Design Series Staff would like to thank everyone who helped make this event a great success. To all the volunteers and sponsors, thank you for all your contributions and support. To all the students, thank you for your interest in the Formula SAE Series and your education! For more information on this article or event results please contact SAE International at collegiatecompetitions@sae.org.

To view all final score results from Formula SAE California, please visit http://students.sae.org/competitions/formulaseries/results/ . The results can also be found at the end of this article with the “Download Additional Information” link below the Award Winners list.
Universite Laval Makes a 3 Year Sweep!

For the third consecutive year, Universite Laval team Alerion has won the SAE Supermileage competition held in Marshall, Michigan but not without some challenges. With a short passing thunderstorm delaying runs, bad wheel alignment problems and a sticking clutch; Universite Laval did not give up their first position easily as they continued through the day to resolve the issues.

The SAE event hosted every year by Eaton’s volunteers at their corporate proving grounds provides engineering students with a challenging design project that involves the development and construction of a single-seat, fuel efficient vehicle. The vehicles run a specified course with the vehicle obtaining the highest combined kilometers per liter (miles per gallon) rating plus design segment points winning the event.

This year’s event was held on June 10 – 11, 2010. Out of the 33 registered teams online; 24 teams checked in onsite to compete; however only 22 teams brought vehicles. Kicking off the event is the technical inspections process where team’s vehicles are scrutinized against the competition rules before advancing onto the maneuverability and brake test which complete technical inspection. This year 21 of the 22 vehicles onsite completed technical inspection for a 95% passing rate.

Also part of the competition is a requirement for an oral design presentation onsite. Teams present to a panel of judges to demonstrate their understanding and application of the engineering principles that support their design. Each team is then scored between 0 and 100 points.

On the second day teams make a series of fuel economy runs around Eaton’s 1.6 mile test track. Each run consists of six laps around the track after which fuel consumption is measured. Out of the 21 vehicles onsite 14 of then made a successful fuel economy run.
Universite' Laval won 1st Place Overall with a design score of 280 points and fuel economy of 2340 mpg for in a total score of 2620; nearly 930 points over the second place finisher with a total score of 1691 University of Ottawa. And in third place overall was Northern Illinois University with a total of 1590 points. Taking home Best Design Report (combined written and verbal) was University of California – Los Angeles.

For a complete listing of final results please visit the SAE website at: http://students.sae.org/competitions/Supermileage/results/

The SAE Collegiate Design Series Staff would like to thank everyone who helped make this event a great success. To all the volunteers and sponsors, thank you for all your contributions and support. To all the students, thank you for your interest in Supermileage and your education! For more information on this article or event results please contact SAE International at collegiatecompetitions@sae.org.
Baja SAE Washington “A Hit Out West”

First time organizer Western Washington University scored a hit when it organized the second Baja SAE competition of the season. Steven Fleishman and leader of his organizing committee did an outstanding job. Everything fell into place for the 4 day event.

Early registration got the event started for this Wednesday through Saturday competition. Tuesday evening early registration netted approximately 35 teams getting off to a good start.

99 teams registered for the second Baja SAE competition this year. Some inclement weather greeted the competitors as the event kicked off on Wednesday and Thursday with registration, technical and safety inspections and design and sales presentations. The first two days were held at the Northwest Washington Fair & Event Center.

The two dynamic days were held at Hannegan Speedway; a motor cross track modified and adjusted for Baja vehicles. Lead organizer, Steven Fleishman, and his committee challenged the teams with 4 dynamic events – Acceleration, Suspension & Traction, Maneuverability and Hill climb. Friday mornings’ rain and mist added more challenges to the competition although by the afternoon, clouds vanished and some sun appeared.

The endurance event on the last day of competition challenged teams with a host of obstacles and choices that made teams decide which routes to take. Winning the endurance portion of the competition was Universite Laval. Second in the endurance was California State Poly-University of Pomona and third was Rochester Institute of Technology.

The Rochester Institute of Technology- Tiger 1 team took top honors and won the overall Briggs and Stratton first place award. South Dakota School of Mines & Technology and Universite Laval rounded out the top three.

SAE would like to thank all of those who helped make this event a success. SAE would like to especially thank Western Washington University, Steven Fleishman and all of his hard working organizing team members. Steven and his diligent crew did an outstanding job planning and organizing this latest Baja SAE competition. A big thank-you also goes out to our volunteers, sponsors and most importantly the students. Without any of you these events could not take place! As with all SAE CDS competitions, these events would not have been possible without our volunteers. Those who volunteered and selflessly gave up their time and talents to devote to this event are very much appreciated.

The entire results can be found at: http://students.sae.org/competitions/bajasae/results/
Baja SAE Western Washington List of Awards

**ACCELERATION AWARD**
1st Place Universite Laval
2nd Place Univ of Maryland - College Park
3rd Place Ecole De Technologie Superieure

**HILL CLIMB EVENT**
1st Place Universite Laval
2nd Place Wichita State Univ
3rd Place Univ of South Florida

**LAND MANEUVERABILITY EVENT**
1st Place Oregon State Univ-- Beaver Racing Orange
2nd Place Rochester Institute of Technology
3rd Place Oklahoma State Univ

**SALES PRESENTATION**
1st Place Univ of Maryland - College Park
2nd Place Universite Laval
3rd Place Auburn Univ

**POLARIS OVERALL DESIGN AWARD**
1st Place Ecole De Technologie Superieure
2nd Place Univ of Maryland - Baltimore County
3rd Place Univ of Arizona

**HONDA MANUFACTURING OF ALABAMA OVERALL COST AWARD**
1st Place Univ of Maryland - Baltimore County
2nd Place Universidad Simon Bolivar
3rd Place South Dakota Sch of Mines & Tech

**HONDA R&D AMERICAS ENDURANCE AWARD**
1st Place Universite Laval
2nd Place California State Poly Univ - Pomona
3rd Place Rochester Institute of Technology Tiger 2

**ROCK CRAWL EVENT**
1st Place Rochester Institute of Technology Tiger 1
2nd Place Purdue Univ - W Lafayette
3rd Place South Dakota Sch of Mines & Tech Hardrocker Racing Gold

**BRIGGS & STRATTON OVERALL PERFORMANCE AWARD**
1st Place Rochester Institute of Technology Tiger 1
2nd Place South Dakota Sch of Mines & Tech
3rd Place Universite Laval

**4-10 BRIGGS AND STRATTON OVERALL AWARD**
4th Place Oregon State Univ
5th Place Ecole De Technologie Superieure
6th Place California State Poly Univ - Pomona
7th Place Rochester Institute of Technology
8th Place Univ of Maryland - Baltimore County
9th Place South Dakota Sch of Mines & Tech
10th Place North Carolina State Univ - Raleigh
On May 3-6, at the New Hampshire Motor Speedway, 26 college and university teams gathered to compete in the 4th annual Formula Hybrid International Competition. Founded and run by Thayer School of Engineering at Dartmouth, the competition features high-performance hybrid race cars built by teams of undergraduate and graduate engineering students.

Politecnico De Torino, Italy claims 1st place in the endurance event.

Through rain and shine, students rose again to the challenges of Formula Hybrid. Day one of the competition consisted of the mechanical and electrical technical inspections. Day two featured the design and marketing presentations. On the schedule for day three were the acceleration runs, the autocross competition, and the design finals. And day four held the endurance event followed by the awards ceremony.

Here are the quick stats of the event.

**2010 Teams in Attendance**
- Brigham Young University
- California Polytechnic State University
- Colorado State University
- Dartmouth College
- Drexel University
- Florida A&M University/Florida State University
- Illinois Institute of Technology
- Lawrence Technological University
- MADI State Technical University - Russia
- McGill University
- McGill - Canada
- Milwaukee School of Engineering
- National Chiao Tung University - Taiwan
- New Hampshire Tech Institute
- North Carolina State University
- Politecnico De Torino - Italy
- Rensselaer Polytechnic Institute
- San Jose State University
- St Cloud State University
- Texas A & M University
- Tufts University
- University of California - Davis
- University of Illinois - Urbana Champaign
- University of Manitoba - Canada
- University of Wisconsin - Madison
- University of Vermont
- Yale University
2010 WINNERS
1st place Overall Hybrid: Politecnico De Torino - Italy
2nd place Overall Hybrid: Texas A & M University
3rd place Overall Hybrid: University of California, Davis

INDIVIDUAL EVENTS AND AWARDS
1st place Design: Politecnico De Torino - Italy
1st place Presentation: Texas A&M University
1st place Endurance: Politecnico De Torino - Italy
1st place Autocross: Politecnico De Torino - Italy
1st place Unrestricted Acceleration: Texas A&M University
1st place Electric Only Acceleration: University of Vermont
IEEE Future of Engineering Award: Politecnico De Torino - Italy

GENERAL MOTORS AWARD FOR BEST HYBRID SYSTEM ENGINEERING:
1st place $2,500 award: Illinois Institute Of Technology
2nd place $1,500 award: Yale University
3rd place $500 award: Lawrence Technological University
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**2011 COLLEGIATE DESIGN SERIES**

**COMPETITION SCHEDULE**

*Please note all dates are tentative and may be subject to change.*

- **SAE Clean Snowmobile Challenge**  
  March 7 – 12, 2011  
  Jay Meldrum  
  Michigan Tech  
  Keweenaw Research Center

- **Aero Design West**  
  March 18 – 20, 2011  
  Oliver Alvarado  
  Lockheed Martin  
  Fort Worth Thunderbirds  
  Radio Control Club  

- **Baja SAE Birmingham (WATER)**  
  April 14 – 17, 2011  
  Host: SAE Alabama Section/ UAB  
  Adam Hussemann / Organizer  
  Lonesome OHV Park  
  Cullman County Alabama

- **Aero Design East**  
  April 29 – May 1, 2011  
  Lonnie R. Dong  
  Lockheed Martin Aeronautical

- **Formula Hybrid**  
  May 1 – 4, 2011  
  Wynne C. Washburn  
  Thayer School of Engineering  
  Dartmouth College  
  New Hampshire International Speedway

- **Formula SAE Michigan**  
  May 11 – 14, 2011  
  SAE International  
  Michigan International Speedway

- **Baja SAE Kansas**  
  May 26 – 29, 2011  
  Trent Lindbloom  
  Pittsburg State University  
  Pittsburg, Kansas

- **Baja SAE Illinois (PRESENTATION)**  
  June 8 – 11, 2011  
  Host: SAE Central Illinois Section  
  Caterpillar Inc  
  Proving grounds, Peoria, IL.

- **SAE Supermileage**  
  June 9 – 10, 2011  
  James Gluys  
  Eaton Corporation

- **Formula SAE California**  
  June 15 – 18, 2011  
  SAE International  
  Auto Club Speedway