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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.
Clarkson, UW Madison Win Clean Snowmobile Challenge

Reported by: Marcia Goodrich, MTU

MARCH 15, 2008—A three-person team—two of them freshmen—from Clarkson University won the internal combustion division of the SAE Clean Snowmobile Challenge.

“We used a very simplistic design based on a Polaris FST chassis,” said team leader Pete Giovenco. “We just wanted to make it to the competition, but it’s been the experience of a lifetime.”

Hosted by Michigan Technological University, engineering students from participating schools take a stock snowmobile and reengineer it to reduce emissions and noise while maintaining or improving performance for the Clean Snowmobile Challenge.

Event co-organizer Jay Meldrum, Director of the Keweenaw Research Center, said that in Clarkson’s case, simplicity paid off. “They just boosted the pressure on their fuel pump and added a catalytic converter,” he said, adding, “They deserved to win.”

Clarkson also received the Lotus Engineering and Horiba Instruments Award for Lowest Emissions and the EMITEC Award for Best Value, which balances cost, fuel economy and performance.

All entries in the challenge’s internal combustion division were required to run on biofuel, and most, including Clarkson, chose E85 ethanol. Four schools competed in the zero emissions division, which was won by the University of Wisconsin at Madison.

UW Madison team leader Nick Rakovec credited excellent advising and teamwork for the battery-powered sled’s success. It uses a Delphi electric motor (once used by General Motors in its EV1 electric car) powered by 84 28-volt lithium-ion batteries and is capable of running up to 20 miles on a single charge. “We can charge these batteries in half an hour,” Rakovec said. “If the NSF takes it to Greenland, they’ll be able to recharge it quickly.”

The team has earned a chance to send members and possibly its winning sled to the National Science Foundation’s Summit Station in Greenland. Arctic researchers use electric vehicles when traveling across the ice, since any emissions can contaminate samples taken from ice and the air. “It’s an incredible machine,” said Tracy Dahl of Polar Field Services, representing NSF. “The thing rips.”

UW Madison’s zero emissions sled also nabbed the SAE International’s Award for Best Design in its class, first place for the Kreider and Associates Award for Best Paper, the DENSO Award for Best Ride, the Veco Polar Resource Range Event Award, and the Caterpillar Corporation Innovation Award.

Taking the Yellowstone National Park Award for Second Place in internal combustion was the University of Idaho, which also won the PCB Group Award for the Quietest Snowmobile (an unusual feat for a two-stroke engine) and the International Engineering and Manufacturing (Woody’s) Award for Best Acceleration. In addition, Idaho took second place in the Kreider and Associates Best Paper event.

The University of Wisconsin–Platteville received the American Council of Snowmobile Associations Award for Third Place in the internal combustion division, as well as the Polaris Industries Award for Best Handling and the Aristo Award for most improved snowmobile team.

Michigan Technological University earned the ThermoAnalytics Award for Fourth Place in the internal combustion division, plus the Land and Sea Award for Best Performance.

UW Madison’s internal combustion sled took the SAE Milwaukee Chapter Award for Fifth Place, plus the BlueRibbon Coalition Award for Most Practical Solution balancing cost, noise and emissions; the SAE International’s Award for Best Design in the internal combustion class, and third place in the best paper competition.

Kettering University received the Gage Products Award for Best Fuel Economy. The South Dakota School of Mines and Technology zero emissions sled earned the Keweenaw Research Center Draw Bar Pull Award. The University of Maine was given the Founders’ Award for Most Sportsmanlike Conduct.

SAE International’s President Thomas Ryan described the Clean Snowmobile Challenge as a great opportunity for young engineers to learn the skills necessary to succeed in their careers. And he also praised their present efforts. “I rode a couple of your sleds, and I was impressed. You are leading us down the road that will get us back into Yellowstone.”

The challenge began following a ban on snowmobiling in Yellowstone due to the machines’ noise and emissions. “What you have done is prove solutions are possible,” said Jim Evanoff, an environmental protection specialist at Yellowstone National Park. “We support fully what you are doing.”

The Clean Snowmobile Challenge is sponsored at Michigan Tech by the Keweenaw Research Center and the Department of Mechanical Engineering-Engineering Mechanics.

Photos credited to KRC/MTU
2008 SAE Clean Snowmobile Challenge Award Winners

**INTERNAL COMBUSTION CLASS**
1st Place: Clarkson University
2nd Place: University of Idaho
3rd Place: University of Wisconsin - Platteville
4th Place: Michigan Tech University
5th Place: University of Wisconsin - Madison

**BEST PERFORMANCE**
Michigan Tech University

**BEST RIDE**
University of Wisconsin - Madison
Zero Emissions Sled

**BEST EMISSIONS**
Clarkson University

**BEST DESIGN**
University of Wisconsin - Madison

**BEST FUEL ECONOMY**
Kettering University

**QUIETEST SNOWMOBILE**
University of Idaho

**MOST PRACTICAL**
University of Wisconsin - Madison

**BEST VALUE**
Clarkson University

**BEST ACCELERATION**
University of Idaho

**BEST HANDLING**
University of Wisconsin - Platteville

**MOST SPORTSMANLIKE**
University of Maine

**MOST IMPROVED**
University of Wisconsin – Platteville

**BEST PAPER**
1st Place: University of Wisconsin - Madison - Zero Emissions
2nd Place: University of Idaho
3rd Place: University of Wisconsin - Madison IC

**INNOVATION**
University of Wisconsin - Madison
Zero Emissions

**HAWKE SAFETY AWARD**
University of Wisconsin - Platteville

**COLD START AWARDS**
#1 University of Idaho
#3 University of Maine
#9 University of Wisconsin - Platteville
#11 Ecole De Technologie Superieure
#13 Clarkson University

**ZERO EMISSIONS CLASS OVERALL**
University of Wisconsin - Madison

**COLD START (ZERO EMISSIONS ONLY)**
McGill University

**BEST RANGE (ZERO EMISSIONS ONLY)**
University of Wisconsin - Madison

**DRAW BAR PULL (ZERO EMISSIONS ONLY)** South Dakota School of Mines & Technology

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- Washington State Snowmobile Association
- Yamaha
- Yellowstone National Park
Aero Design West Returns to Fort Worth, Texas in 2008

The first of two SAE Aero Design events was held April 4-6, 2008 in Fort Worth, Texas. This year’s Aero Design West competition was organized by first-time contest director Christopher Dowell of Lockheed Martin. The event was kicked off at the Lockheed Martin Recreational Association where registration, technical inspection and oral presentations took place. With 43 teams in attendance, several countries from around the world were represented including a team from Venezuela, four teams from Mexico, two from Poland and ten from Canada.

On Friday evening, Lockheed Martin arranged for the students to tour the Lockheed Martin Fort Worth Aeronautics Visitor Center. Before touring the facility, the participants listened to a short presentation by Lockheed Martin’s Jon Beesley who gave an overview about his career as the chief test pilot.

Saturday morning the event moved to the Fort Worth Thunderbird Field, part of Dutch Branch Park located on the western shore of Benbrook Lake. Under cloudless and sunny skies, 5 flight rounds were completed on the first day of the flying portion of the competition. An additional 4 rounds were achieved on Sunday morning for a total of 9 flight rounds fulfilled for 2008 Aero Design West. This is a great accomplishment for the teams considering the brand new requirements for the Open and Micro Classes. This year the Open Class teams were required to simulate a heavy-lift aircraft taking off from an undeveloped airstrip with limited power. In addition, their aircraft could not exceed 55 pounds. For a first time requirement, teams managed to take off and land successfully in the grassy landing strip that ran parallel to the Regular and Micro Class cement runway. One team actually completed all 9 flight rounds successfully on this unimproved surface; team #216 - Colorado State University.

The Micro Class teams’ challenge this year was derived from the use of UAV’s (Unmanned Aerial Vehicle) in Aerospace today. Teams were required to design and build a portable (modular based) UAV with packaging requirements and also had to demonstrate its ease of assembly.

Overall winners of the three classes are as follows:
- 1st Place Regular Class - #007 – Ecole Polytechnique de Montreal
- 1st Place Open Class - #211 – Ecole Polytechnique de Montreal
- 1st Place Micro Class - #312 - University of Minnesota - Twin Cities

(These results are on the following page)

SAE would like to thank all of those individuals who helped make this event a success. First and foremost, a big thank-you goes to Lockheed Martin, especially to Christopher Dowell, Oliver Alvarado and Lonnie Dong. As our contest director, rules chairperson and scoring captain respectively, this event would not have been possible without them. Another group that deserves an immense amount of recognition and gratitude are the volunteers who helped with presentation judging, technical inspection and also out at the flying field. The men and women of the Fort Worth Thunderbirds Radio Control Club as well as the employees of Lockheed Martin who volunteered and selflessly gave up their weekend to devote their time to this event are very much appreciated. A very special thank-you also goes to Raymond Cervantes who provided the live webcast (www.teamrcpilot.com) during the event so those who were unable to attend the event could tune in virtually.

Congratulations to all teams who traveled near and far to participate in this event! The 2009 SAE Aero Design West event is scheduled to take place in Van Nuys, California on March 6-8, 2009 (Dates are tentative).
2008 Aero Design West Award Winners

**REGULAR CLASS OVERALL / ELLIOTT GREEN AWARD:**
1st Place: #007 – Ecole Polytechnique De Montreal
2nd Place: #001 – Kansas State University
3rd Place: #006 – South Dakota School of Mines & Technology

**OPEN CLASS OVERALL:**
1st Place: #211 – Ecole Polytechnique De Montreal
2nd Place: #216 – Colorado State University
3rd Place: #212 – Iowa State University

**MICRO CLASS OVERALL:**
1st Place: #312 – University of Minnesota – Twin Cities
2nd Place: #311 – Concordia University
3rd Place: #320 – Warsaw University of Technology

**SAE DESIGN INNOVATION AWARD:**
#216 – Colorado State University
Innovation – Powered Drive

**REGULAR CLASS – MOST PAYLOAD LIFTED AWARD:**
1st Place: #006 – South Dakota School of Mines & Technology (32.63 lbs)
2nd Place: #001 – Kansas State University (27.31 lbs)

**OPEN CLASS – MOST PAYLOAD LIFTED AWARD:**
1st Place: #211 – Ecole Polytechnique De Montreal (37.35 lbs)
2nd Place: #216 – Colorado State University (27.99 lbs)

**MICRO CLASS – HIGHEST PAYLOAD FRACTION AWARD:**
1st Place: #311 – Concordia University (.6807)
2nd Place: #315 – Parks College of Saint Louis University (.6538)

**REGULAR CLASS DESIGN REPORT AWARD:**
1st Place: #006 – South Dakota School of Mines & Technology
2nd Place: #007 – Ecole Polytechnique De Montreal

**OPEN CLASS DESIGN REPORT AWARD:**
1st Place: #212 – Iowa State University
2nd Place: #213 – Missouri S&T

**MICRO CLASS DESIGN REPORT AWARD:**
1st Place: #311 – Concordia University
2nd Place: #312 – University of Minnesota – Twin Cities

**REGULAR CLASS ORAL PRESENTATION AWARD:**
1st Place: #004 – University of British Columbia; #003 – Michigan Tech University (Tie)
2nd Place: #007 – Ecole Polytechnique De Montreal

**OPEN CLASS ORAL PRESENTATION AWARD:**
1st Place: #216 – Colorado State University
2nd Place: #213 – Missouri S&T

**MICRO CLASS ORAL PRESENTATION AWARD:**
1st Place: #316 – California State University – Long Beach
2nd Place: #322 – Iowa State University, #313 – Arizona State University – Tempe (Tie)

**MOST INTERESTING FLIGHT PATH AWARD:**
#215 – Parks College of Saint Louis University

**BEST CRASH AWARD:**
#032 – IPN – ESIME UP Ticoman

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Thank You to the 2008 Aero Design West Sponsors

**CORPORATE SPONSORS**
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2008 Aero Design East moves back to Georgia

The SAE Aero Design East event was held April 18-20, 2008 in Kennesaw, Georgia. The event was organized by Lonnie Dong of Lockheed Martin with the help of many other volunteers. Several Lockheed Martin employees, as well as members of the Cobb County Radio Control Modeler’s Club, helped judge the oral presentations, worked as technical inspectors and performed other helpful tasks at the flying field over the weekend. Other key volunteers who helped contribute to this event’s success were Christopher Dowell of Lockheed Martin who acted as the official event announcer as well as an onsite rules committee member, and Brian Czapor of GE who was responsible for scoring.

On Friday, the static events were held at the Kennesaw State University Continuing Education Center. 47 teams registered onsite hailing from all parts of the world including Brazil, Venezuela, Poland, Canada, and for the first time, a team from India. During the team meeting Friday evening, Lonnie Dong gave an overview of a new scoring system he created entitled Score Tracking and Recording System (STARS) that allowed teams to have real-time access to their flight scores as well as weather information. This same scoring system was used in the West competition and seemed to be utilized by a number of the teams.

A total of 9 flight rounds were completed during the flight portion of the event on Saturday and Sunday at Cobb County RC Modeler’s Club in Acworth, Georgia; 6 rounds were achieved on Saturday and the remaining 3 were finished Sunday morning. The 2008 SAE Aero Design Series holds the record of the most flight rounds completed overall…18 total rounds were completed this year with 9 accomplished in both the East and West events.

Overall winners of the three classes are as follows:

- 1st Place Regular Class - #015 – LeTourneau University
- 1st Place Open Class - #216 – Universidad Federal do Rio Grande do Norte
- 1st Place Micro Class - #320 – University of Akron

Raymond Cervantes was also in attendance again to provide the live webcast on www.teamrcpilot.com. Friends and family from around the world were able to join the event virtually through the webcast.

The SAE Collegiate Design Series Staff would like to thank everyone who helped make this event a success. Thank you to the volunteers, sponsors and especially the students! Without any of your efforts and contributions these events would not be possible. We hope to see you all back next year!

Please join us for the 2009 SAE Aero Design East event taking place once again at the Cobb County R/C Club for the second year in a row. Scheduled dates are April 3-5, 2009.

Photos credited to LeTourneau University and University of Akron
2008 Aero Design East Award Winners

REGULAR CLASS OVERALL / ELLIOTT GREEN AWARD:
1st Place: #015 – LeTourneau University
2nd Place: #016 – University of Cincinnati
3rd Place: #037 – Centro Federal de Educação Tecnológica

OPEN CLASS OVERALL:
1st Place: #216 – Univ Federal do Rio Grande do Norte
2nd Place: #211 – Embry-Riddle Aeronautical University - Daytona Beach
3rd Place: #214 – University of Cincinnati

MICRO CLASS OVERALL:
1st Place: #320 – University of Akron
2nd Place: #314 – California State University - Long Beach
3rd Place: #319 – University of Puerto Rico

SAE DESIGN INNOVATION AWARD:
#026 – North Carolina A&T State University

REGULAR CLASS – MOST PAYLOAD LIFTED AWARD:
1st Place: #037 – Centro Federal de Educação Tecnológica (25,550 lbs)
2nd Place: #004 – Warsaw University of Technology (22,540 lbs)
3rd Place: #015 – LeTourneau University (22,070 lbs)

OPEN CLASS – MOST PAYLOAD LIFTED AWARD:
1st Place: #216 – Univ Federal do Rio Grande do Norte (38,640 lbs)
2nd Place: #211 – Embry-Riddle Aeronautical University - Daytona Beach (31,010 lbs)

MICRO CLASS – HIGHEST PAYLOAD FRACTION AWARD:
1st Place: #320 – University of Akron (0.6760)
2nd Place: #319 – University of Puerto Rico (0.6282)
3rd Place: #312 – College of New Jersey (0.5943)

REGULAR CLASS DESIGN AWARD (REPORT & PRESENTATION):
1st Place: #020 – Escola de Engenharia de Sao Carlos
2nd Place: #037 – Centro Federal de Educação Tecnológica
3rd Place: #015 – LeTourneau University

OPEN CLASS DESIGN AWARD (REPORT & PRESENTATION):
1st Place: #214 – University of Cincinnati
2nd Place: #216 – Univ Federal do Rio Grande do Norte
3rd Place: #215 – Parks College of Saint Louis University

MICRO CLASS DESIGN AWARD (REPORT & PRESENTATION):
1st Place: #311 – Wright State University
2nd Place: #313 – Parks College of Saint Louis University
3rd Place: #314 – California State University – Long Beach

MOST INTERESTING FLIGHT PATH AWARD:
#006 – Kansas State University

BEST CRASH AWARD:
#212 – Milwaukee School of Engineering

NASA SYSTEMS ENGINEERING AWARD:
#015 – LeTourneau University
#027 – Ecole de Technologie Superieure

TRANSMITTER RECIPIENT:
University of Puerto Rico

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University of Wisconsin-Madison
Races to 1st Place Victory!

Continuing their success from 2007, UW-Madison takes first place overall at the inaugural Formula SAE event held at Virginia International Raceway. The newest event to the Formula SAE series, leading to three competitions in the United States. This venue, located in Alton, Virginia provided teams with a different experience from the other events.

With the early timing of this event, compared to Formula SAE at MIS in May, many teams were forced to withdraw or forfeit from the competition. However, the 28 teams onsite provided friendly competition and a great first year for the event.

Teams did not have the luxury of paddocking on asphalt and had to provide their own power (something provided at the other US competitions) but this was a small trade-off in return for the exposure to professional race car drivers, an hour design judging review session and a full-road course. Being exposed to professional teams, as the venue hosted the Bosch Engineering 250 Grand Am and the Jetta TDI Series the same weekend, students were able to watch the races and check out the paddocks while the professionals, also curious, did the same onsite Formula SAE. The design process was a bit intimidating to teams as they were exposed to a full hour of review by the judges instead of the normal half-hour sessions received at other events. In many cases, the students found this event challenging as the judges found many things to ask about and pushed the teams as far as they could with the questions about their vehicles. The grading was done on a letter scale with “A” being the highest. The level “A” cars proceed to the design finals where all the judges rotate around to find the best design. Only four cars were classified in the “A” category: University of Wisconsin-Madison, Virginia Tech, Missouri University of Science & Technology, and University of Cincinnati. The road course measured 1.1 miles. The teams encountered all the gates and slaloms as expected but also dealt with some serious elevation changes and a few off-camber sections. The track provided a new challenge to teams who are used to running in a flat parking lot.

All the static and dynamic events took place starting Thursday with Cost, Design and Presentation judging. For those cars that passed Technical Inspection the fun of driving began Friday with Acceleration and Skid Pad events in the morning and Autocross in the afternoon. With the Acceleration event set up slightly shorter than normal, teams ran about half the distance and still managed to get some good times. The fastest time was set by University of Maryland – College Park at 2.927 seconds. The Skid Pad event was run on the VIR skid pad area located a slight car push away from the rest of the Formula SAE event site but provided a flat asphalt area for teams to run. Capturing the best time with 5.276 seconds was Virginia Tech. With a late start to the Autocross event due to some timing light technicalities, crossing the starting line were 22 cars. Though most teams completed both drivers’ runs, some teams struggled to finish but were able to still receive a score. With a course longer than the usual half mile, University of Wisconsin-Madison had the fastest time of 91.685 seconds.

On the “Big Race Day” a.k.a Endurance Day, the drivers couldn’t have asked for a better day: Bright and Sunny! Twenty-four cars were given the green flag to start the event, however, only 11 finished the event; a finishing percentage of 46%. Only seven teams received a score for the event because four teams were, unfortunately, over the maximum time allowed for completion.

The award ceremony took place onsite a few hours after the completion of the Endurance event. Taking home 1st Place Overall was University of Wisconsin-Madison. This was a sweet victory as just last year the team won for the first time in the history of the university’s program 1st Place Overall in Michigan. Respectively, finishing in second and third place was Missouri University of Science & Technology and University of Illinois-Urbana Champaign.

The SAE Collegiate Design Series Staff would like to thank everyone who helped make this event a great success. To all the volunteers, sponsors and VIR staff, thank you for all your contributions! To all the students, thank you for your undying interest in this student competition. We hope you enjoyed the first of many events to come. And remember, graduating students are encouraged to come back next year and volunteer! For more information on this please contact SAE International at CollegiateCompetitions@sae.org.

Photo credited to Collin Galganski.
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Love What You Do.
2008 Formula SAE Virginia Award Winners

SPIRIT OF EXCELLENCE AWARD
1st Place: University of Wisconsin – Madison
2nd Place: Missouri University of Science and Technology
3rd Place: University of Illinois-UC
4th Place: University of Cincinnati
5th Place: Drexel University
6th Place: University of Maryland
7th Place: Virginia Tech
8th Place: University of Alabama-Tuscaloosa
9th Place: SUNY Buffalo
10th Place: Oklahoma State University

SAE COST AWARD
This award recognizes the team who receives the best score in Cost - $500
Winner - University of Wisconsin – Madison

HONDA ENGINEERING DESIGN AWARD
1st Place: University of Wisconsin-Madison
2nd Place: Virginia Tech
3rd Place: Missouri University of Science and Technology

SAE PRESENTATION AWARD
Winner - Virginia Tech

AUTODESK INVENTOR DESIGN COMMUNICATION AWARD
1st Place: Missouri University of Science and Technology
2nd Place: University of Wisconsin-Madison
3rd Place: Northern Illinois University

BUEHLER "INNOVATION IN MECHATRONICS” AWARD
1st Place: University of Illinois-UC
2nd Place: University of Wisconsin-Madison
3rd Place: Drexel University

SAE ACCELERATION AWARD
Winner - University of Maryland

SAE SKID PAD AWARD
Winner - Virginia Tech

HOOSIER TIRE AUTOCROSS AWARD
1st Place: University of Wisconsin-Madison
2nd Place: Missouri University of Science and Technology
3rd Place: University of Illinois-UC

GOOD YEAR BEST PERFORMANCE AWARD
1st Place: University of Wisconsin-Madison
2nd Place: Missouri University of Science and Technology
3rd Place: University of Illinois-UC

GENERAL MOTORS FUEL ECONOMY
1st Place: University of Cincinnati
2nd Place: University of Maryland
3rd Place: Missouri University of Science and Technology

HONDA DYNAMIC EVENT AWARD
1st Place: University of Wisconsin-Madison
2nd Place: Missouri University of Science and Technology
3rd Place: University of Illinois-UC

WILLIAM C. MITCHELL ROOKIE AWARD
Winner - Central Piedmont Community College

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The first of three Baja SAE Series events, hosted by Tennessee Tech University, was held May 1-3, 2008 in Cookeville, Tennessee on various locations of the TTU Campus. The event was organized by Dale Wilson along with his organizing committee and numerous volunteers who generously donated their time and energy to ensure a successful competition.

On Thursday, the static events were held at the Hyder-Burks Agricultural Pavilion where the 66 registered teams were able to complete governor check, technical inspection, design judging, cost audits (if applicable), and brake check. They were also provided with the opportunity to network with potential future employers during the Career Fair on Thursday afternoon. Teams traveled to Cookeville from India, France, South Korea, Mexico, Canada, and many locations around the United States.

Friday morning the event moved to Tennessee Tech’s campus just behind the baseball fields. Teams spent all day getting through the different dynamic events: Acceleration, Sled Pull, Water Maneuverability, Land Maneuverability and Suspension & Traction. Other than a one-hour rain delay during the afternoon, things kept moving on Dynamic Day.

Fortunately for Endurance Day on Saturday, the skies cleared up and the race went on for the allotted four hours with no stops along the way. The top three finishers of the race were car #038 – Rochester Institute of Technology who came in first place, car #022 – Virginia Tech who finished in second place and car #007 – Queen’s University who came in third place.

The closing dinner banquet was held at the University Center and the awards ceremony immediately followed in the Hooper Eblen Center where TTU basketball games are generally held. Many teams attended the awards ceremony considering there was a 5-hour time difference from when the endurance race ended. Overall winners of the event were car #007 – Queen’s University in 1st place, car #038 – Rochester Institute of Technology who took 2nd place and car #022 – Virginia Tech who came in 3rd place.

The SAE Collegiate Design Series would like to thank all the volunteers for selflessly giving up their free time to help out at the event, our Corporate Sponsors for their time and contributions to make these events a success, and most importantly to the students. Without any of your efforts and contributions these events would not be possible.

We hope to see everyone at the 2009 Baja SAE water event which will be hosted by Auburn University located in Auburn, Alabama, USA on **April 16-19, 2009.**

**Dates are subject to change**
2008 Baja SAE Tennessee Award Winners

**BRIGGS & STRATTON OVERALL PERFORMANCE AWARD**
1st Place: 007, Queen’s University
2nd Place: 038, Rochester Institute of Technology
3rd Place: 022, Virginia Tech

**HONDA R&D AMERICAS ENDURANCE AWARD**
1st Place: 038, Rochester Institute of Technology
2nd Place: 022, Virginia Tech
3rd Place: 007, Queen’s University

**HONDA DYNAMIC EVENTS AWARD**
1st Place: 038, Rochester Institute of Technology
2nd Place: 022, Virginia Tech
3rd Place: 007, Queen’s University

**AUTOESK INVENTOR DESIGN COMMUNICATION AWARD**
1st Place: 033, Michigan State University
2nd Place: 031, Georgia Institute of Technology
3rd Place: 002, Tennessee Tech University

**POLARIS DESIGN AWARD**
1st Place: 007, Queen’s University
2nd Place: 001, Universite de Sherbrooke
3rd Place: 002, Tennessee Tech University

**HONDA MANUFACTURING OF ALABAMA COST AWARD**
1st Place: 006, University of South Florida
2nd Place: 016, University of Michigan – Ann Arbor
3rd Place: 018, Auburn University

**SUSPENSION & TRACTION AWARD**
1st Place: 006, University of South Florida
2nd Place: 001, Universite de Sherbrooke
3rd Place: 037, Rochester Institute of Technology

**WATER MANEUVERABILITY AWARD**
1st Place: 002, Tennessee Tech University
2nd Place: 032, Tennessee Tech University
3rd Place: 061, College of New Jersey

**LAND MANEUVERABILITY AWARD**
1st Place: 018, Auburn University
2nd Place: 006, University of South Florida
3rd Place: 007, Queen’s University

**ACCELERATION AWARD**
1st Place: 038, Rochester Institute of Technology
2nd Place: 020, Michigan Tech University
3rd Place: 018, Auburn University

**SLED PULL AWARD WINNERS**
#011 – Corning Community College
#064 – Institut Superieur de l’Automobile et des Transports
#025 – Lipscomb University
#049 – Louisiana State University
#020 – Michigan Tech University
#065 – Southern Illinois University – Edwardsville
#032 – Tennessee Tech University
#016 – University of Michigan – Ann Arbor
#075 – University of Rhode Island
#081 – Virginia Tech
#009 – West Virginia University

**TTU HARD LUCK AWARD**
#091 – University of Ontario Institute of Technology - recipient of a Craftsman Tool Set

**TTU UNDER CONSTRUCTION AWARD**
#035 – Embry Riddle Aeronautical University – recipient of a Dewalt Saw

**TTU FAN FAVORITE AWARD**
#049 – Louisiana State University – recipient of a 265-piece Craftsman Set

**BRIGGS & STRATTON GENERATOR RECIPIENT**
#016 – University of Michigan – Ann Arbor

**BRIGGS & STRATTON PRESSURE WASHER RECIPIENT**
#023 – US Military Academy

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University of Western Australia finally finishes 1st in the US!

From down-under, the University of Western Australia rises to finish in 1st place overall at the 2008 Formula SAE Michigan event. Always finishing in second place at Formula SAE in Michigan, this year’s team felt the hard work had finally paid off.

After bouncing around Michigan for the last four years, the premier event has found a home at Michigan International Speedway. This venue, located in Brooklyn, Michigan provided teams with a different experience from previous years. Teams had the luxury of paddocking on asphalt with water and electric hookups right in their paddocks. All static judging took place in the NASCAR garages and suites. Dynamic events were staged and ran on the back side of the speedway oval...as an extra challenge to the teams accustomed to running on flat surfaces, the endurance course was designed to run up on parts of the banked pavement of the oval.

Our event was the first of its kind at Michigan International Speedway and welcomed over 100 teams from around the world; teams competing represented Australia, Austria, Brazil, Canada, Finland, Germany, India, Mexico, the Netherlands, Singapore, South Korea, United Kingdom, United States and Venezuela. Kicking off the start of the event was early Technical Inspection for teams on Wednesday, May 14th. With a new system where teams took a number in order to be helped being implemented, (kind of like being at a deli counter) the site of long lines was not to be seen and many cars were not stuck waiting outside in the rain. By Friday afternoon 103 teams had passed Scrutineering, 101 teams had passed Tilt and only 89 had passed Brake.

Thursday’s events resulted in some surprising outcomes as Car #11 Faculdade de Engenharia de Sorocaba from Brazil lead the overall scoring in Cost. Impressing the judges in Sales Presentation was Car #64 University of Singapore in the lead from Singapore. Announced for the Design Semi-Finals were fourteen universities; Car #3 Graz University of Technology from Austria; Car #18 Delft University of Technology from The Netherlands; Car #78 Ecole de Technologie Superieure from Canada; Car #100 Helsinki Polytechnic from Sweden; Car #2 University of Western Australia from Australia; Car #5 University of Toronto from Canada; Car #16 Purdue University from United States; Car #40 University of Applied Sciences Graz from Austria; Car #84 Technical University of Munich from Germany; Car #6 University of Florida from United States; Car #9 Rensselaer Polytechnic Institute from United States; Car #13 Auburn University from United States; Car #64 National University of Singapore from Singapore; and Car #85 Pennsylvania State University from United States. Graduating to Design Finals were Car #3 Graz University of Technology; Car #78 Ecole de Technologie Superieure; Car #100 Helsinki Polytechnic.

For those cars that passed Technical Inspection the fun of driving began Friday with Acceleration and Skid Pad events in the morning and Autocross in the afternoon. Out on the track, the pavement was heating up with some fast runs. Surprising the crowd with the fastest time in Acceleration was Car #121 Saginaw Valley State University with a time of 4.022 seconds; followed then by Car #7 Rochester Institute of Technology with a time of 4.081 seconds and Car #9 Rensselaer Polytechnic Institute with a time of 4.082 seconds. Setting the fastest time in Skid Pad was Car #103 University of Texas Arlington with a time of 5.066 seconds; followed quickly by Car #40 University of Applied Sciences-Graz with a time of 5.089 seconds and Car #7 Rochester Institute of Technology with a time of 5.122 seconds. Crossing the starting line for Autocross in the afternoon were 86 cars. Though most teams completed both drivers’ runs, some teams struggled to finish but managed to squeeze out a score. Finishing first with the time of 46.984 seconds was Car #92 Missouri University of Science and Technology; followed quickly by Car #1 University of Wisconsin-Madison with a time of 47.028 and Car #7 Rochester Institute of Technology with a time of 47.387 seconds.
On Endurance Day, the drivers were thankful the threatening rainy weather held off as they started their runs. Eighty-nine cars were given the green flag to start the event; however only 42 teams completed the event; a finishing percentage of 47%. Of those 42 complete runs, only 33 teams received scores for staying under the maximum run time of 1805 seconds. Taking first place in endurance with the fastest time was Car #14 University of Stuttgart with a time of 1350.016 seconds; followed by Car #1 University of Wisconsin-Madison with a time of 1353.242 seconds and Car #2 University of Western Australia with a time of 1374.223 seconds.

The award ceremony took place on Sunday, May 18th at the Michigan International Speedway event site. Taking home 1st Place Overall was Car #2 University of Western Australia with total points of 865.6; followed in 2nd Place by Car #14 University of Stuttgart with 849.2 points and in 3rd Car #84 Technical University of Munchen with 840 points. These top three finishers were also recognized as winners of the FISITA World Cup which was being hosted this year at Formula SAE. FISITA, the “International Federation of Automotive Engineering Societies” hosted their World Cup Competitions at four of the Formula SAE Series events. Every year the competition takes places at one of the four events. Currently participating in this program is: Formula SAE in Michigan, Formula Student in the UK, Formula SAE-Australasia in Australia and Formula SAE Japan. Though there are three finishers, the first place team is automatically qualified for a place in the FISITA World Cup Competition at the next Formula SAE event in 2009 to be held in Japan.

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! To all the students thank you for your undying interest in the Formula SAE Series. For more information on this article or Event results please contact SAE International at CollegiateCompetitions@sae.org.

Photos credited to Bob Phelan, Missouri University of Science and Technology
2008 Formula SAE Michigan Award Winners

SPIRIT OF EXCELLENCE AWARD
1st Place: University of Western Australia
2nd Place: University of Stuttgart
3rd Place: Technical University of Munchen
4th Place: University of Wisconsin - Madison
5th Place: RMIT University
6th Place: Graz University of Technology
7th Place: Cornell University
8th Place: Missouri University of Science and Technology
9th Place: University of Florida
10th Place: University of Cincinnati

YAZAKI NORTH AMERICA - PRESENTATION AWARD
1st Place: National University of Singapore
2nd Place: Delft University of Technology
3rd Place: Technical University of Munchen

YAZAKI NORTH AMERICA - COST AWARD
1st Place: Faculdade de Engenharia de Sorocaba
2nd Place: Rochester Institute of Technology
3rd Place: University of Wisconsin - Madison

HONDA ENGINEERING DESIGN AWARD
1st Place: Graz University of Technology
2nd Place: Ecole De Technologie Superieure
3rd Place: Helsinki Polytechnic

AUTODESK INVENTOR DESIGN COMMUNICATION AWARD
1st Place: University of Applied Sciences - Graz
2nd Place: Missouri University of Science and Technology
3rd Place: Sophia University

ARVINMERITOR SUSPENSION SYSTEM AWARD
1st Place: University of Western Australia
2nd Place: Graz University of Technology
3rd Place: University of Wisconsin - Madison

THE 2008 INAUGURAL FSAE PUSH BAR COMPETITION EVENT
Winner - Worcester Polytechnic Institute

BRUEL AND KJAER QUIET CAR CUP
Winner - Oxford Brookes University

IAV ACCELERATION AWARD
1st Place: Saginaw Valley State University
2nd Place: Rochester Institute of Technology
3rd Place: Rensselaer Polytechnic Institute

SAE SKID PAD AWARD
Winner - University of Texas - Arlington

HOOSIER TIRE AUTOCROSS AWARD
1st Place: Missouri University of Science and Technology
2nd Place: University of Wisconsin - Madison
3rd Place: Rochester Institute of Technology

GOOD YEAR BEST PERFORMANCE AWARD
1st Place: University of Stuttgart
2nd Place: University of Wisconsin - Madison
3rd Place: University of Western Australia

GENERAL MOTORS FUEL ECONOMY
1st Place: Graz University of Technology
2nd Place: SUNY - Buffalo
3rd Place: Wichita State University

TIMKEN FRICTION MANAGEMENT ENGINEERING AWARD
1st Place: University of Stuttgart
2nd Place: University of Wisconsin - Madison
3rd Place: University of Western Australia

HONDA DYNAMIC EVENT AWARD
1st Place: University of Western Australia
2nd Place: University of Stuttgart
3rd Place: RMIT University

THE FEV POWERTRAIN DEVELOPMENT AWARD
1st Place: RMIT University
2nd Place: University of Western Australia
3rd Place: SUNY - Buffalo

SOCIETY OF PLASTICS ENGINEERS' COMPOSITES AWARD
1st Place: Graz University of Technology
2nd Place: Delft University of Technology
3rd Place: University of Applied Sciences - Graz
4th Place: Ecole De Technologie Superieure
5th Place: Ecole Polytechnique De Montreal

ASBE BODY DESIGN AWARD
Winner - University of Western Australia

CFDESIGN COMPUTATIONAL FLUID DYNAMICS AWARD
Winner - Georgia Institute of Technology

ALTAIR ENGINEERING'S WILLIAM R. ADAM ENGINEERING AWARD
Winner - Graz University of Technology
Honorable Mentions - University of Florida, University of Applied Sciences - Graz

SAE PERSEVERANCE AWARD
1st Place: Central Piedmont Community College
2nd Place: Northwestern University
3rd Place: Indian Institute of Technology - Bombay

WILLIAM C. MITCHELL ROOKIE AWARD
Recognized Winner - Central Piedmont Community College
2nd Place: Northwestern University

LINCOLN ELECTRIC
Winner – Cedarville University

CARROLL SMITH MENTOR CUP
Winner – Gary Cloud, Michigan State University

HONDA RAFFLE
Winners - Cooper Union and Penn State University

FORMULA SAE CERTIFICATE OF ACCOMPLISHMENT
University of Toronto
University of Toledo
Rensselaer Polytechnic Inst
Universite Laval
Brown University
University of Oklahoma
Ecole Polytechnique De Montreal
Florida Atlantic University
University of Pittsburgh - Pittsburgh
National University of Singapore
Cedarville University
Clemson University
Wichita State University
Ecole De Technologie Superieure
Penn State University - University Park
University of Illinois - Urbana Champaign
University of Evansville
University of Waterloo
Kanagawa Institute of Technology
SUNY - Buffalo
Saginaw Valley State University

Collegiate Design Series 2008 YEAR IN REVIEW
The second Baja SAE event of 2008 was held on May 29-31 at Caterpillar’s Edwards Demonstration Center in Peoria, Illinois. This event would not have been possible without the efforts of the Chief Organizers, especially Andrea Brazzale-Anderson, Ivan Leaders and Sheela Halbur, in addition to the other members of the organizing committee.

After numerous months of planning and various teleconferences, this committee managed to create a challenging 1.4-mile course complete with stumps, gullies and railroad ties, just to name a few of the obstacles. 94 teams traveled from around the globe to participate in the 3-day event; these 698 student participants hailed from parts of Canada, Mexico, South Korea and the United States.

After early registration on Wednesday evening, the event officially started on Thursday morning. With a warm and sunny start to the day, governor check, technical inspection and cost auditing opened first, followed by design judging and sales presentations. Brake testing opened later in the afternoon, and design finals were held after 5:00 PM. The teams who qualified for design finals were car #002 – Oregon State University, #066 – Michigan Tech University, #007 – South Dakota School of Mines & Technology, #078 – Tennessee Tech University, #009 – University of Michigan – Ann Arbor, and the winner of design finals, car #003 – Stony Brook University.

Friday was reserved for the dynamic events; teams who passed technical inspection were able to make two attempts in acceleration, hill climb, rock crawl and maneuverability. The dynamic events were off to a good start under the cloudy skies above, however it wasn’t until after the two rain delays (one lasting for more than 45 minutes) that a damper was put on the competition. It made the events extremely muddy and posed several challenges for both teams and course workers. Nonetheless, the dynamic events ran until the scheduled end time.

The gridding for the endurance race started immediately following the endurance track walk. Fortunately the weather cooperated and the teams had a gorgeous day for the four-hour race on Saturday. After the quarantine of the top 10 finishers, it was determined that car #117 – South Dakota School of Mines & Technology took 1st place, car #025 – Cal Poly – Pomona claimed 2nd place, and car #116 – Ecole Polytechnique de Montreal won 3rd place in the endurance event.

The awards ceremony was held immediately after the endurance race impound in the grandstands of the Demonstration Center. Cameron Ferguson of Caterpillar was the Master of Ceremonies during the awards program. He along with the respective corporate sponsors presented the various awards.

California Polytechnic State University – Pomona (car #025) took home the overall win with a 48.27 point lead. Traveling to Peoria from the west coast, Cal Poly – Pomona also achieved the 2nd place Honda R&D Americas Endurance award and the 2nd place Honda Dynamic Events award. Taking second place overall was car #002 – Oregon State University; this team also took the 2nd place Autodesk Inventor Design Communication award, the 1st place Polaris Design award, 2nd place award for Maneuverability, 1st place for Sales Presentation (tied with SDSM&T for 1st place), and was also the recipient of a Briggs & Stratton pressure washer. Coming in 3rd place overall was car #015 – LeTourneau University, also the winner of the 2nd place Acceleration award.

SAE International would like to take this opportunity to thank everyone who helped make this event a great success: everyone from the organizers to volunteers to corporate sponsors to students and faculty…we couldn’t have run these events without you and hope to see you all next year. Graduating students are encouraged to volunteer for future events. For more information on this, please contact SAE at CollegiateCompetitions@sae.org.

We hope to see everyone at the 2009 Baja SAE Oregon event which will be hosted by the SAE Oregon Section located in Portland, Oregon, USA on **May 7-10, 2009.**

**Dates are subject to change**

Photos credited to Cal Poly - Pomona and SAE International
2008 Baja SAE Illinois Award Winners

BRIGGS & STRATTON OVERALL PERFORMANCE AWARD
1st Place: #025, California State Poly University - Pomona
2nd Place: #002, Oregon State University
3rd Place: #015, LeTourneau University

HONDA R&D AMERICAS ENDURANCE AWARD
1st Place: #117, South Dakota School of Mines & Technology
2nd Place: #025, California State Poly University - Pomona
3rd Place: #116, Ecole Polytechnique de Montreal

HONDA DYNAMIC EVENTS AWARD
1st Place: #009, University of Michigan – Ann Arbor
2nd Place: #025, California State Poly University - Pomona
3rd Place: #039, Western Washington University

AUTODESK INVENTOR DESIGN COMMUNICATION AWARD
1st Place: #003, Stony Brook University
2nd Place: #002, Oregon State University
3rd Place: #072, New Mexico Institute of Mining & Technology

POLARIS DESIGN AWARD
1st Place: #002, Oregon State University
2nd Place: #003, Stony Brook University
3rd Place: #066, Michigan Tech University

HONDA MANUFACTURING OF ALABAMA COST AWARD
1st Place: #004, University of South Florida
2nd Place: #029, University of Michigan – Dearborn
3rd Place: #009, University of Michigan – Ann Arbor

MANEUVERABILITY AWARD
1st Place: #004, University of South Florida
2nd Place: #002, Oregon State University
3rd Place: #039, Western Washington University

ROCK CRAWL AWARD
1st Place: #101, University of Manitoba
2nd Place: #009, University of Michigan – Ann Arbor
3rd Place: #004, University of South Florida

HILL CLIMB AWARD
1st Place: #009, University of Michigan – Ann Arbor
2nd Place: #007, South Dakota School of Mines & Technology
3rd Place: #054, Michigan State University

ACCELERATION AWARD
1st Place: #009, University of Michigan – Ann Arbor
2nd Place: #015, LeTourneau University
3rd Place: #067, Michigan Tech University

SALES PRESENTATION AWARD
1st Place: #002, Oregon State University; #117, South Dakota School of Mines & Technology (Tie)
3rd Place: #072, New Mexico Institute of Mining & Technology

NAVISTAR CREATIVITY & INNOVATION AWARD
#048 – Michigan State University

FIRST ROBOTICS ERGONOMICS AWARD
#003 – Stony Brook University

BRIGGS & STRATTON GENERATOR RECIPIENT
Michigan State University

BRIGGS & STRATTON PRESSURE WASHER RECIPIENT
Oregon State University

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SAE International Wins Prestigious National Science Foundation Award

WASHINGTON, D.C., May 8, 2008 - SAE International and Bayer Corporation were honored by the National Science Foundation with the prestigious 2008 Public Service Award at the U.S. Department of State in Washington, D.C.

Both organizations were recognized for their work to increase the public’s understanding of science and engineering. In particular, SAE was honored for its A World In Motion® (AWIM) [www.awim.org] curriculum and Collegiate Design Series [http://students.sae.org/competitions/]. AWIM joins together teachers, students, (elementary through high school) and industry volunteers in an exploration of physical science while addressing essential mathematic and scientific concepts and skills. SAE’s Collegiate Design Series is a series of competitions that provides college students with real-world, hands-on engineering experience by designing, building and testing the performance of real vehicles.

The award presentation took place during a black-tie dinner at the U.S. Department of State on May 6. Both organizations were recognized for their work to increase the public’s understanding of science and engineering. In particular, SAE was honored for its A World In Motion® (AWIM) [www.awim.org] curriculum and Collegiate Design Series [http://students.sae.org/competitions/]. AWIM joins together teachers, students, (elementary through high school) and industry volunteers in an exploration of physical science while addressing essential mathematic and scientific concepts and skills. SAE’s Collegiate Design Series is a series of competitions that provides college students with real-world, hands-on engineering experience by designing, building and testing the performance of real vehicles.

The dinner was attended by SAE 2008 President Dr. Thomas W. Ryan III, PhD, and SAE International Executive Vice President and Chief Operating Officer Dr. David L. Schutt, PhD.

Additionally, Dr. Ryan addressed the National Science Foundation Board of Directors during its meeting on May 7.

For Dr. Ryan’s remarks from the dinner at the U.S. Department of State on May 6, please visit http://www.sae.org/exempt/news/nsb-acceptance-tom-ryan-usnewswire.htm

For Dr. Ryan’s remarks to the National Science Foundation’s Board of Directors on May 7, please visit http://www.sae.org/exempt/news/nsb-board-speech-tom-ryan-usnewswire.htm

For a photo from the awards dinner, please visit http://prn.newscom.com/cgi-bin/pub/s?fn=PRN/prnpub&p1=20080508/DC21801&tagn=PRN-prnphotos-71614&redir=detail&tr=1&row=1
These words could be used to describe Formula One race cars. But they also describe some of the reasons why SolidWorks® is the standard in 3D mechanical design software. With time-saving innovations, integrated add-on solutions, curriculum, and certification, SolidWorks software gives students a complete solution for translating ideas into designs, designs into models, and models into products. SolidWorks has a fast, short learning curve so you can spend time creating parts instead of wrestling with the software. And the SolidWorks Education Edition includes COSMOSWorks™, COSMOSMotion™, COSMOSFloWorks™, and COSMOSWorks Advanced Professional™.

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Image provided courtesy of the University of British Columbia and the student members of its Formula SAE Team.
Universite Laval Named 1st Place Overall in 2008 SAE Supermileage Competition!

The 29th Annual SAE Supermileage competition was held June 5-6, 2008, at Eaton Corporation’s Marshall Proving Grounds in Marshall, Michigan. Chief Organizer Jim Gluyts along with Anne Wadsworth and many other volunteers from Eaton worked together to once again ensure this event was a success.

Students from 20 colleges and universities from the United States, Canada and India were in attendance to participate in the competition which provides engineering and technology students with a design project that involves the development and construction of a single-person, fuel-efficient vehicle. Vehicles are powered by a small four-cycle engine; they 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. Students have the opportunity to set a world fuel economy record and increase public awareness of fuel economy.

On Thursday morning, the participants first took their vehicles through technical inspection. In addition to complying with all the technical and safety aspects during inspection, teams are also tested in a maneuverability course complete with a slalom section, and also driver “exitability”. The driver must be able to exit the vehicle both assisted and unassisted in a given amount of seconds in order to pass. Thursday morning was also the start of verbal design proposals. Each team is instructed to appoint three student team members along with the vehicle for a verbal examination conducted by a panel of volunteers. After lunch, the track opened for practice for those vehicles that had already passed technical inspection. Once the team meeting ended later that afternoon, teams were able to vote for the vehicle they found to be the most visually appealing. The team vehicle who received the most votes was automatically crowned the winner of the Most Visually Appealing Vehicle award presented on Friday evening.

Friday morning was the start of the vehicle runs on the track. This lasted until about 5:30 that evening…just in the nick of time, too! With tornado warnings throughout the area and torrential downpours just around the corner, everyone managed to finish up their runs and gather in the main garage for the banquet and awards ceremony. After dinner was served, numerous door prizes were raffled off to the participants, and then all the awards were presented. Coming in 1st place overall in the collegiate division was Universite Laval with 3169 miles per gallon; in second was Rose-Hulman Institute of Technology with 1631 miles per gallon, and in 3rd place overall was Ecole de Technologie Superieure with 1329 miles per gallon.

SAE International would like to thank the numerous Eaton volunteers for selflessly giving up their free time to help ensure the event was yet again another success! We hope to see everyone at SAE Supermileage’s 30th Annual competition held once again at Eaton Corporation’s Marshall Proving Grounds on June 4-5, 2009. Come out and help us celebrate 30 years!
2008 SAE Supermileage Award Winners

COLLEGIATE DIVISION HIGHEST POINTS:
1st Place: Universite Laval
2nd Place: Rose-Hulman Institute of Technology
3rd Place: Ecole de Technologie Superieure

COLLEGIATE DIVISION BEST DESIGN REPORT, WRITTEN & VERBAL:
University of Tulsa

HIGH SCHOOL DIVISION HIGHEST POINTS:
Mater Dei High School

HIGH SCHOOL DIVISION BEST DESIGN REPORT, WRITTEN:
Mishawaka High School

MOST VISUALLY APPEALING VEHICLE:
California State University - Los Angeles

CLOSEST PREDICTED TO ACTUAL FUEL ECONOMY:
University of Akron

BEST DEMONSTRATED OVERALL TEAM ATTITUDE:
Rose-Hulman Institute of Technology

Photos credited to SAE international
The final Baja SAE event of 2008 took place on June 11-14 in Orford, Québec, Canada. Hosted by École de Technologie Supérieure, Dominic Tessier, Chief Organizer, along with numerous Co-Organizers, worked together to execute a challenging four-day event. All static and dynamic activities were held at the Ranch J. Brouillard site just outside of Magog.

The event was officially kicked off on Wednesday, June 11 with registration, governor check, design judging, cost audits, and finally technical inspection held in the afternoon. With 106 teams in attendance, the 887 student participants spanned the globe from 6 different countries; there was representation from Brazil, Canada, India, Mexico, United States and Venezuela.

Thursday was a continuation of Wednesday’s static events but was also the first day of dynamic events. Those teams who had successfully passed technical inspection were able to compete in acceleration, the pulling event and land maneuverability. They were also able to test their vehicle by taking a run through the practice track. Once design finals were finished later that evening, the students were able to partake in a “Cocktail Hour” where light refreshments were served and a disc-jockey was onsite to provide some entertainment.

Friday morning was the final opportunity for teams to complete any runs through acceleration, land maneuverability and the pulling event. Also, teams could make one run through the Suspension & Traction course to qualify for the afternoon finals. When lunch was finished, everyone gathered around the Suspension & Traction course to watch the vehicles compete in the final round. Complete with a disc-jockey and an announcer, this event made for an exciting afternoon.

On the final day of the event, Saturday, teams started gridding for the endurance race just before 10:00 AM. Although there were some overcast skies, the weather cooperated for the duration of the 4-hour long race. Winners of the endurance were #007 – University of South Florida in first place, #001 – Centro Universitario Da FEI in second place, and #083 – University of Louisiana – Lafayette in third place. There were 96 vehicles who participated in the endurance race.

The closing banquet was held at the Hotel Chéribourg where a sit-down dinner was served after a handful of presenters said a few words. The awards were presented towards the end of the ceremony.

Traveling all the way from Brazil for the second year in a row, car #001 - Centro Universitario Da FEI claimed the overall win for the final Baja SAE event of the year. Declaring this victory by a 32.9 point difference, the FEI Baja team attended the Baja SAE Montreal event due to their performance in the Baja SAE BRASIL competition in March 2008. Clenching the second place title was car #019 – Stony Brook University who also won the 2nd place Autodesk Inventor Design Communication Award during the Montreal event, as well as 3 awards from Baja SAE Illinois. Car #005 – University of Florida took 3rd place overall and also achieved the 2nd place Acceleration Award.

These competitions would not be possible if weren’t for the support from a large number of people. SAE Collegiate Design Series would like to thank the numerous volunteers for selflessly giving up their free time to help out at the event, 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.

We hope to see everyone at the 2009 Baja SAE Wisconsin event which will be hosted by the SAE Milwaukee Section located in Milwaukee, Wisconsin, USA on **June 11-14, 2009.**

**Dates are subject to change**
2008 Baja SAE Montreal Award Winners

BRIGGS & STRATTON OVERALL PERFORMANCE AWARD
1st Place: #001, Centro Universitario Da FEl
2nd Place: #019, Stony Brook University
3rd Place: #005, University of Florida

HONDA R&D AMERICAS ENDURANCE AWARD
1st Place: #007, University of South Florida
2nd Place: #001, Centro Universitario Da FEl
3rd Place: #083, University of Louisiana - Lafayette

HONDA DYNAMIC EVENTS AWARD
1st Place: #006, University of Michigan - Ann Arbor
2nd Place: #086, Rochester Institute of Technology
3rd Place: #013, Cornell University

AUTODESK INVENTOR DESIGN COMMUNICATION AWARD
1st Place: #013, Cornell University
2nd Place: #019, Stony Brook University
3rd Place: #056, Michigan Tech University

POLARIS DESIGN AWARD
1st Place: #001, Centro Universitario Da FEl
2nd Place: #002, Universite de Sherbrooke
3rd Place: #010, Ecole de Technologie Superieure

HONDA MANUFACTURING OF ALABAMA COST AWARD
1st Place: #093, University of Maryland – Baltimore County
2nd Place: #094, University of Maryland – Baltimore County
3rd Place: #061, Universidad La Salle

MANEUVERABILITY AWARD
1st Place: #007, University of South Florida
2nd Place: #045, Auburn University
3rd Place: #008, Queen’s University

SUSPENSION & TRACTION AWARD
1st Place: #001, Centro Universitario Da FEl
2nd Place: #008, Queen’s University
3rd Place: #041, University of Windsor

HILL PULL AWARD
1st Place: #046, Central Michigan University
2nd Place: #006, University of Michigan – Ann Arbor
3rd Place: #079, Universite Du Quebec a Rimouski

ACCELERATION AWARD
1st Place: #006, University of Michigan – Ann Arbor
2nd Place: #005, University of Florida
3rd Place: #012, USP Poli (Escola Politecnia Univ Sao Paulo)

BRIGGS & STRATTON PRESSURE WASHER RECIPIENT
University of Windsor

BRIGGS & STRATTON GENERATOR RECIPIENT
Ecole Polytechnique De Montreal

MIKE SCHMIDT MEMORIAL IRONTEAM AWARD
1st Place: Queen’s University
2nd Place: University of South Florida
3rd Place: Auburn University

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Timken is proud to be a gold sponsor of the SAE International Collegiate Design Series. We wish everyone involved the best of luck throughout this year's competition.

For more information, make a pit stop at www.timken.com
East Coast University takes 1st Place at Formula SAE West!

University of Maryland races to finish in 1st Place Overall at the 2008 Formula SAE West event located in Fontana, California. With the absence of the 2007 top finisher and a 14.3 point lead, University of Maryland was honored with the title of 1st Place Winner (only the second team in the 3 years operation of the event).

The event returned to the Auto Club Speedway (formerly named California Speedway) and welcomed over 60 teams from around the world; teams competing represented Brazil, Canada, China, Japan, Mexico, Sweden, United States and Venezuela. Teams had the luxury of paddocking on asphalt with water and electric hookups available in their paddocks. All static judging took place in the NASCAR garages and suites. Dynamic events were staged and ran on the infield road course areas.

Kicking off the event was Early Technical Inspection for 55 teams who registered on Wednesday, June 23rd. With the new “Take a number” system (comparison would be taking a number at the deli counter) being implemented across all the Formula SAE events the sight of long lines and waiting in California’s hot sun and Santa Ana winds was now by choice.

On Thursday all the static events were completed; Cost, Design and Presentation. Resulting in some surprising outcomes Car #45 Northern Illinois University and Car #79 Clemson University tied for 1st Place in Cost.

Announced for Design Semi-Finals were nine universities:
- Car #06 South Dakota School of Mines & Technology
- Car #10 Michigan State University
- Car #11 Centro Universitario Da FEI
- Car #12 University of Washington
- Car #28 University of Manitoba
- Car #35 Western Washington University
- Car #37 Brigham Young University
- Car #45 Northern Illinois University
- Car #79 University of Oklahoma

Design Finals took place on Saturday, June 28th following the Endurance event. Out of the nine universities honored for Semi-Finals, only three were invited for the Finals during a Public Review; Car #10 Michigan State University, Car #12 University of Washington and Car #33 Western Washington University. Announced in 1st Place as having the best designed car by Event Captain, Mike O’Neil was Michigan State University, Car #10.

Astounding the judges with their Sales Presentation and taking 1st Place was the international team from Sweden, Car #49 Chalmers University of Technology.

The real test of the cars abilities and students engineering education began Friday for those teams who passed Technical Inspection. In the morning Acceleration and Skid Pad were run followed by Autocross in the afternoon. Out on the track, the pavement was heating up and not from the hot California sun! Astonishing the crowd with the fastest time in Acceleration was Car #19 University of Maryland with a time of 3.917 seconds, followed by Car #77 Rensselaer Polytechnic Institute with 4.061 seconds then Car #80 Clemson University with 4.084 seconds.

Completing Skid Pad with the fastest time was Car #13 California State Poly University – Pomona with 5.001 seconds, followed by Car #79 University of Oklahoma with 5.047 seconds then Car #19 University of Maryland with 5.091 seconds.

The staging line for Autocross consisted of 47 cars. Though all teams crossed the starting line, some teams struggled with completing both drivers’ runs. Finishing in first with no cone penalty and a time of 47.869 seconds was Car #82 Missouri University of Science and Technology (only a .885 seconds slower than their 1st Place finish in Michigan), followed quickly by Car #83 University of Cincinnati with a 47.955 seconds then Car #6 South Dakota School of Mines and Technology with 48.569 seconds.

On Endurance Day the California sun did not offer any relief as temperatures crept into the 90s. Fifty-one cars were given the green flag to start the event; however only 25 teams completed the event; a finishing percentage of 49%. Of those 25 universities only 19 teams received points for staying under the maximum run time of 1865 seconds. Finishing in 1st was Car #13 California State Poly University – Pomona with the fastest time of 1398.671 seconds, followed by Car #82 Missouri University of Science and Technology with 1439.307 seconds then Car #79 University of Oklahoma with a time of 1445.245 seconds.

The award ceremony took place on Saturday, June 26th following the finish of Endurance and Design Finals. Taking home 1st Place Overall was Car #19 University of Maryland with a total of 813.40 points; in 2nd Place Overall Car #82 Missouri University of Science and Technology with 799.1 points and in 3rd Place Overall Car #79 University of Oklahoma.

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! To all the students, thank you for your undying 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.
2008 Formula SAE West Award Winners

SPIRIT OF EXCELLENCE AWARD
1st Place: University of Maryland - College Park
2nd Place: Missouri University of Science and Technology
3rd Place: University of Oklahoma
4th Place: Michigan State University
5th Place: California State Poly University - Pomona
6th Place: Western Washington University
7th Place: University of Toledo
8th Place: University of Cincinnati
9th Place: Rensselaer Polytechnic Institute
10th Place: Kansas State University

SAE PRESENTATION AWARD
Chalmers University of Tech

TOYOTA COST AWARD
1st Place: Northern Illinois University
2nd Place: Clemson University
3rd Place: University of Arizona

HONDA ENGINEERING DESIGN AWARD
1st Place: Michigan State University
2nd Place: University of Washington
3rd Place: Western Washington University

AUTOESK INVENTOR DESIGN COMMUNICATION AWARD
1st Place: Missouri University of Science and Technology
2nd Place: University of Oklahoma
3rd Place: University of Maryland - College Park

BRUEL AND KJAE QUIET CAR CUP
Winner: Hunan University
Honorable Mention: Kansas State University

SAE ACCELERATION AWARD
University of Maryland - College Park

SAE SKID PAD AWARD
California State Poly University – Pomona

HOOSIER TIRE AUTOCROSS AWARD
1st Place: Missouri University of Science and Technology
2nd Place: University of Cincinnati
3rd Place: South Dakota School of Mines & Technology

GOOD YEAR BEST PERFORMANCE AWARD
1st Place: California State Poly University - Pomona
2nd Place: Missouri University of Science and Technology
3rd Place: University of Oklahoma

GENERAL MOTORS FUEL ECONOMY AWARD
1st Place: Honda Technical College Kansai
2nd Place: University of Alberta
3rd Place: University of Toledo

HONDA DYNAMIC EVENT AWARD
1st Place: University of Maryland - College Park
2nd Place: Missouri University of Science and Technology
3rd Place: University of Oklahoma

ALTaira ENGINEERING’S WILLIAM R. ADAM ENGINEERING AWARD
Winner: University of Oklahoma
Honorable Mentions:
Bingham Young University
Michigan State University

LINCOLN ELECTRIC
Winner: University of Ontario Institute of Tech

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WILLIAM C. MITCHELL ROOKIE AWARD
Polytechnic University - Brooklyn

FORMULA SAE CERTIFICATE OF ACCOMPLISHMENT
California State University - Northridge
University of Idaho
University of Alberta
University of Texas - Austin
Chalmers University of Technology
Honda Technical College Kansai
Ecole Polytechnique De Montreal
Clemson University

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2008 Collegiate Design Series

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2008 CDS STATS

- **Aero Design West**
  54 Teams and 272 Participants

- **Aero Design East**
  58 Teams and 376 Participants

- **Baja SAE Tennessee**
  93 Teams and 656 Participants

- **Baja SAE Illinois**
  115 Teams and 698 Participants

- **Baja SAE Montreal**
  120 Teams and 945 Participants

- **Clean Snowmobile Challenge**
  17 Teams and 156 Participants

- **Formula SAE Virginia**
  43 Teams and 391 Participants

- **Formula SAE Michigan**
  121 Teams and 1748 Participants

- **Formula SAE California**
  82 Teams and 833 Participants

- **Formula Hybrid**
  16 Teams and 130 Participants

- **Supermileage**
  35 Teams and 140 Participants

2009 COLLEGIATE DESIGN SERIES

COMPETITION SCHEDULE

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

- **SAE Aero Design West**
  March 6 - 8, 2009
  Location TBD
  Van Nuys, California

- **Clean Snowmobile Challenge**
  March 16 - 21, 2009
  Keweenaw Research Center
  Houghton, Michigan

- **SAE Aero Design East**
  April 3 - 5, 2009
  Cobb County Radio Control Modeler’s Club
  Acworth, Georgia

- **SAE Supermileage**
  June 4 - 5, 2009
  Eaton Proving Grounds
  Marshall, Michigan

- **Baja SAE Wisconsin**
  June 11 - 14, 2009
  MGA Research Facilities
  Burlington, Wisconsin

- **Formula SAE California**
  June 17 - 20, 2009
  Auto Club Speedway
  Fontana, California

- **Formula Hybrid**
  May 4 - 6, 2009
  New Hampshire International Speedway
  Loudon, New Hampshire

- **Baja SAE Oregon**
  May 7 - 10, 2009
  Washougal MX Park
  Washougal, Washington

- **Formula SAE Michigan**
  May 13 - 16, 2009
  Michigan International Speedway
  Brooklyn, Michigan

- **Baja SAE Alabama**
  April 16 - 19, 2009
  National Center for Asphalt Technology
  Auburn, Alabama

- **Formula SAE Virginia**
  April 22 – 25, 2009
  Virginia International Raceway
  Alton, Virginia

- **SAE Supermileage**
  June 4 - 5, 2009
  Eaton Proving Grounds
  Marshall, Michigan