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## Chairman's Welcome

Welcome to the first Centroid of 2009-2010. I hope that you find this quarterly newsletter informative about section news and events.

As we begin the 2009-2010 year, here are this year's section goals:

- Engage local collegiate SAE Section(s)
- Sustain Program/Communication process for timely announcements (paper, electronic)
  - Continue quarterly Centroid
  - Increase/Invigorate membership
- Increase AWIM involvement in local school districts and increase the section's donation in Central Illinois
- Revamp the CIS-SAE website so it's used as the hub of future section communication
- Maintain Gold level section status at the national level
- Run budget at a break-even status

We have another strong board this year with a lot of new faces. Each is bringing new ideas to each of the committees and has put together strong plans to execute our goals. I'm excited for you (the membership) to meet them. We will be highlighting each of our leaders in the coming Centroids.

There are still opportunities within the section's committees in two key areas. We are looking for someone with strong web design skills to help the section establish and maintain a more dynamic webpage. AWIM is also seeking members to help recruit new teachers and classrooms around the Peoria area. If you are interested in either of these two areas or you have an interest in another area, please contact me at [Leustek\\_Jennifer@cat.com](mailto:Leustek_Jennifer@cat.com).

I hope you find that the Centroid benefits our section by improving communication to our membership as well as for increasing the Governing Board's accountability and transparency to the broader section. This year the board meeting agendas and minutes will be published on the section website: <http://saesections.org/cis/>.

Please take 5 minutes to look through this quarter's newsletter and get ready for the next program of this calendar year. I look forward to seeing you at a program this fall!

Sincerely,  
Jennifer J. Leustek

## Autocross with the Sports Car Club of America



Nothing is more exciting than fast cars and stiff competition. Nothing drives more ingenuity and creativity than that competition. And nothing encompasses the spirit of SAE better than motorsports. If there is any doubt, then just look at the popularity of the SAE Collegiate Design Series, or the technology that has been created through motorsports, or the millions of people who regularly follow and participate in competitive motoring events.

It was this spirit that drove CIS SAE to pair up with the Sports Car Club of America to host both the June Autocross (sponsored by eServ) and August Autocross. The events were very successful with over 80 drivers registered in less than four days, approximately 150 attendees throughout the day, and 100% of the attendees being safe. We would not have been able to have the autocross without those groups already listed, and we would like to especially thank Caterpillar for allowing us to use their facilities. We would furthermore like to thank everyone who came and showed their support for SAE and motorsports in Central Illinois. This support and continued success make it possible for CIS SAE to keep offering these types of programs.



By Jennifer Grote and Andy Berberich

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## 2009 SAE/AEM Outstanding Young Engineer Award



Girish Parvate-Patil an engineer with Caterpillar's Global Engine Development – North America was recently awarded the **2009 SAE/AEM Outstanding Young Engineer Award**.

Girish has been an Engine Performance Analyst for 15 liter to 32 liter diesel engines since he started working at Caterpillar in November of 2006. Prior to Caterpillar, Girish researched bio-diesel and internal combustion on large bore engines for Engine Systems Development Center Inc. located in Montreal, Canada. Girish has been involved with the Central Illinois section of SAE holding positions on the governing board and as a communications team member.

Girish is the third Caterpillar employee to receive this award in the last five years and will be formally presented with the award on October 7 during the 2009 SAE Commercial Vehicle Engineering Congress & Exhibition (COMVEC) in Rosemont, Illinois.

The SAE/AEM Outstanding Young Engineer Award recognizes a young engineer in the off-highway or powerplant industry who demonstrates outstanding leadership skills, teamwork, integrity, innovation, community involvement and participation in SAE activities.

By Alan Schweizer



## Be a Volunteer!



**Would you like to give back to your community?  
Help encourage and inspire children?**

**What is AWIM?** Volunteering in a local classroom to help

- Promote science literacy
- Provide opportunities for concrete science experiences
- Support the roles of girls and minorities
- Expose students to engineering role models

**You don't have to teach the material, just be there to support and encourage the students!**

**When:** Anywhere between January and April teachers will schedule this SAE program to fit into their normal curriculum.

**How:** Contact Jess Crompton for more information. She will match you with a local teacher, and together you will decide how much time you can spend in the classroom.

**We need volunteers!**

Hope to hear from you soon,  
Jess Crompton  
Crompton\_Jessica@Cat.com  
309.578.5087

[www.saesections.org/cis/](http://www.saesections.org/cis/) or [www.AWIM.org](http://www.AWIM.org)



## Events planned for 2009/2010

The events listed below are currently being planned by the Program Committee of CIS-SAE. The event details are subject to change, for further information regarding future events please visit the website at [www.saesections.org/cis/](http://www.saesections.org/cis/). Also, if you would like to offer your assistance to help organize future events please contact Jennifer Grote at [Grote\\_Jennifer\\_E@cat.com](mailto:Grote_Jennifer_E@cat.com).

### October: Why So Many Lubricants in Your Garage?

Our garages house cars, trucks, and a variety of gasoline powered paraphernalia such as lawn mowers, motor cycles, string trimmers, chain saws, outboard motors, snow mobiles, etc. The owners' manual for each item specifies one or more specific lubricants suitable to meet needs. The number of lubricants required to meet the diverse needs in your garage can easily exceed TEN. Is this really necessary?

Bill Chamberlin will draw on his 30+ years of lubricant formulating experience to help you understand how these different lubricants function and what you should consider when choosing among the confusing array of products.

#### *Bonus Tour!!!*

Cat S.O.S Services Fluid Analysis Laboratory; provides information to help you make maintenance decisions, reduce owning and operating costs, and maximize component life.

**Date:** October 13, 2009  
**Location:** Caterpillar Building LC, 501 SW Jefferson Ave., Peoria  
**Schedule:** 5:15 – 6:00 Sign In / Dinner  
 6:00 – 7:15 Presentations  
 7:15 – 8:00 Lab Tour

Special thanks to our sponsor Cady Oil Company; your Central Illinois Oil Supplier for 60 Years.

### November: ICC Design Competition

SAE is sponsoring ICC's Annual Engineering Design Competition. Students are challenged to design a trebuchet (gravity-powered catapult). SAE will provide a speaker to explain to what engineering is like to participating students and judges for the competition. First, second and third farthest throws as well as best design will be rewarded with cash prizes.

### December: Holiday Get Together for AWIM

The December social is a good opportunity to get together and enjoy each others' company as well as free appetizers and door prizes. Not only will it be a social night, but also an AWIM benefit event. AWIM (A World In Motion) is an SAE program aimed at promoting classroom learning of science and engineering principles, especially for girls and minorities. Attendees will get the chance to compete for a full paid SAE membership by putting together an AWIM project of their very own. SAE will also raise money for AWIM through a silent auction. Contact Jessica Crompton for more details about AWIM volunteer opportunities.



[www.cadyoil.com](http://www.cadyoil.com)



Trebuchet



## Continued...Events planned for 2009/2010

### January: Goodyear Racing Tires and Baja/Formula Car Showcase

A speaker from Goodyear will explain the difference between racing tires and how to optimize tires for racing competitions and daily driving. The event is intended to take place at Bradley University campus. Bradley students will showcase their Baja car along with other colleges' Baja/Formula cars (possibly ICC, University of Illinois, etc.)

### February: Air Traffic Control Tour

SAE is looking to have another aviation event at the Peoria International Airport. The intention is to take a tour of the air traffic control tower and learn what an air traffic control job is like.

### March: Green Cars – Tesla S

The March event will focus on green cars with the intention of featuring the Tesla S. The event will likely take place at a dealership in Peoria and include a presentation from a Tesla engineer about the design, performance and challenges associated with green cars and a Tesla S on display.

### April: On the River – Coast Guard / Corps of Engineers

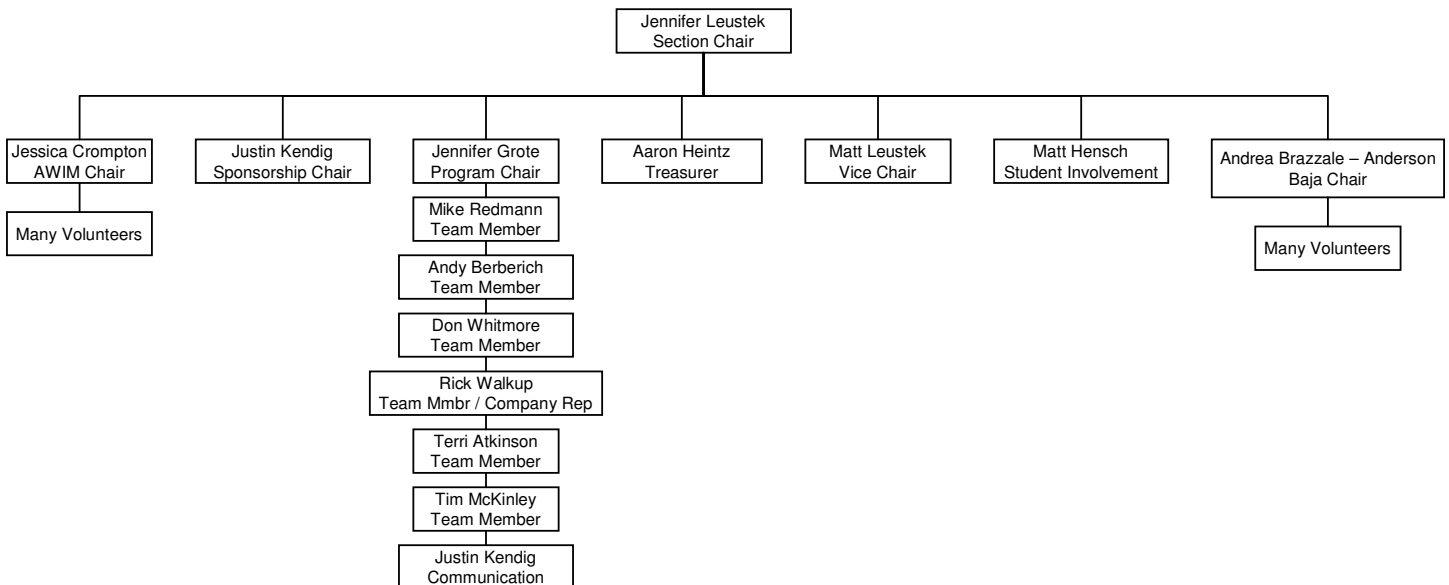
The April event will feature the Corp of Engineers to talk about the dredging project of the Illinois River. The project is re-building an island with silt coming from the river bottom. The island will help speed up water flow in the river bend to keep silt from depositing on the river bottom in high traffic areas. In addition, the Coast Guard will explain how flooding and transportation of goods on the river is managed.

### May/June: Autocross with the Sports Car Club of America

By Sylvain Charbonnel and Jennifer Grote

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## 2009/2010 Governing Board



For membership information or if you are interested in joining the CIS Governing Board, please contact Jennifer Leustek at [Leustek\\_Jennifer@cat.com](mailto:Leustek_Jennifer@cat.com).

## 2008-2009 YES (Year End Summary) Report Review

### *Gold Section Award of Excellence*



The first order of business is to congratulate the previous years CIS Section board, lead by David Patterson, on receipt of the Gold Section Award of Excellence. The Section Award of Excellence is given to sections that “have done an outstanding job in extending the Society’s services to the local members in their territory,” per SAE International. More information about the Section Award of Excellence and other SAE International awards can be found at <http://www.sae.org/news/awards/list/>. CIS has won this award 10 consecutive years.

### *YES Report Summary:*

The YES (Year End Summary) is a report that the CIS governing board puts together every section year for SAE International that summarizes the activities of the section and its financial health. Some highlights from this years YES report include:

- Section Event Attendance: The average attendance at section events this year was 92. The high attendance figures were due to the extremely popular autocross program, TTT D6E program, and the Caterpillar aviation program.
- AWIM: Our section continued its participation and support of the AWIM program.
- Financial Health: In spite of the recession which created major challenges finding sponsors, our section maintained its strong financial position through dramatically limiting expenses and modifying the communication strategy leading to positive cash flow for the section year. Additionally, our financial reserves continue to be greater than twice our annual operational budget.

The YES report also serves as a way for the section to benchmark itself against the SAE International’s expectations. This year’s YES report highlighted three areas of improvement for this upcoming section year:

- Section/Student Interaction: Although there were several student events this year, collegiate attendance at section events is still low and there are no student representatives from ICC, Bradley or Illinois involved with the section governing board
- Section Governing Board Meetings: Governing board meeting times and minutes are not generally available. In the future, meeting minutes will be communicated on the website.
- Award Nominations: There are a variety of engineering awards available to section members. Our section only nominated a few individuals for awards this past section year. Expect to see that improved substantially this year. If you are interested in SAE International engineering awards, see <http://www.sae.org/news/awards/list/>.

By Matthew Leustek