The Formula Society of Automotive Engineers team devoted numerous hours above and beyond the regular class and study time, to design and build the SAE Formula car named FX-11. The team that consists of Freshman to Graduate students, did all of their own fundraising for the project too. They received no academic credit for their efforts only the satisfaction of the end result and the desire to compete in one of the most prestigious annual collegiate automotive design events held.

Several parents, faculty and staff, alumni, and students attended the unveiling and there were many comments on how great the car looked and the crowd was impressed by the fact that in testing, it showed that it is the fastest and best performing SAE formula car yet. The FX-11 has pneumatic shifting that is a first this year, which takes time off shifting and makes for a smoother shifting function. WMU’s SAE chapter is taking their newly completed Formula car to the 2011 Formula SAE Series competition that is held at MIS, May 11-14. The event is expected to attract more than 140 collegiate engineering teams and some 2,000 students.

Above back, L-R: Nick Loederman, Enesto Matos, David Hopwood, Matt Paiva, & Zach Tylts. Front L-R: Devin Talbot, Jeremiah Maclintock, Alan Heinecke, Mike Nienhuis, & Kevin Thompson.

Sunseeker c’t’d: Another 101 laps were completed before the team stopped to take advantage of the remaining sunshine to recharge the batteries. With some technical problems encountered on Friday, toward the end of the day they had corrected the issues and the Sunseeker was back on the track and ran 15 more laps. Saturday started out with light rain but fortunately for the participants, the sun came out and dried the track and stayed out for most of the day. The Sunseeker had a few pit stops for repairs and tire changes, but was able to get another 91 laps tallied on the last day of racing. The 3 day total for the car was 207 laps, tying with Michigan State for 6th place.

L to R: Alexander Buist and Cody Kammeraad.

Weather Holds Out for Sunseeker Gran Prix

Sunseeker Ties for 6th

The Sunseeker team arrived at the Indianapolis Motor Speedway on May 2, 2011 for the week long Formula Sun Grand Prix. The first two days focused on for Body and Sizing inspection. On Wednesday afternoon the team was ready for dynamic testing which included high speed slalom, figure eight, radius turn and braking which they passed with no problems. Thursday the weather cooperated with a mostly sunny day for the start of the track racing.

Sunseeker team getting ready for dynamic events. For more information on the Sunseeker Solar Car Team, visit: www.wmich.edu/sunseeker
Civil and Construction Engineering
ITE Students
Place 2nd at Traffic Bowl

L-R: Corey Vincent, Chelsea Griffith, and John Sendor. Omar Kanaan not pictured.

Western Michigan University’s Student Institute of Transportation Engineers (ITE) Chapter, earned a 2nd place finish in the second annual ITE Great Lakes District Collegiate Traffic Bowl. The competition was a Jeopardy style tournament held on April 14th during the Great Lakes District Regional ITE conference in Columbus, OH. The Western Michigan team was comprised of Civil and Construction Engineering students Chelsea Griffith, Corey Vincent, John Sendor and Omar Kanaan. The faculty advisor was by Dr. Jun-Seok Oh. The competition was held in front of an audience comprised of ITE professional members, most notably Mr. Robert Wunderlich ITE International President, and Michigan, Indiana, and Ohio DOT directors. The ITE chapter team was well received and impressed the audience. Furthermore, their participation at the conference provided invaluable networking opportunities for the students, undergraduate and graduate alike. They were very proud to represent the preparedness and professionalism of WMU’s engineering student body.

FSAE Students Provide Support to the Marathon Runners

Even though the FSAE team was getting ready for their big competition at MIS, they volunteered their time and energy to cheer on over 1300 runners in the first ever Kalamazoo marathon. It was a chilly Sunday morning and the group was ready when the first runner came by. The marathon course ran through the CEAS Parkview campus which was mile 9 and 10. The runners were very thankful for the students support as they were the only excitement zone volunteers on site once runners entered the BTR Park.

The marathoners expressed their thanks and many jokingly asked if they could borrow the SAE car that was on display for the rest of the run, and an alumni yelled as he passed that he had helped build an SAE car while he attended CEAS. One runner even stopped and asked if he could get his picture taken in the car, which Mike was happy to take for him.

Team members that volunteered were: Mike Nienhuis, SAE president and mechanical engineering. Zach Tuyls, Formula SAE project manager and mechanical engineering. Alan Meinecke, Suspension Team Leader and aeronautical engineering. David Hopwood, aeronautical engineering. Nick Loedeman, mechanical engineering.

UPCOMING EVENTS:
- Video Game Design Summer Camp, Build Your Own Video Game Week 1: August 1 - 5, Week 2: August 8 - 12

Challenging Tour
Kalamazoo Christian 7th & 8th Graders Tour and Design Challenges

Earthquake and egg drop challenges were on the schedule for the students that toured the College of Engineering and Applied Sciences. Right, riding the hydraulic bikes in the CEAS hallways were a big hit as well.

Above, students were challenged to imagine being an engineer that had to build a structure to safely hold a generator on the top floor of a building that was geographically located where earthquakes occurred frequently. Prior to their visit, they were given a 12”x12” piece of cardboard, 10 rubber bands, and 20 paperclips to build their structure in class. Then the structures were boxed up and brought to the lab. The CEAS Challenge Coin represented the generator. They were tested on the top of the lab-building to survive a simulated earthquake. The students had fun and many structure designs withstood the earthquake. Left, the students had to build a container to protect an egg from a 1, 2, and 3 meter drop. They were given a box of toothpicks, 6 straws, and 3 pieces of 8”x8” paper to construct their design. The record for the highest drop of the day was 2 meters. The challenge showed some impressive ideas and designs, given the students only had 15 minutes to create them.