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North Texas Section of SAE International

The Conference for the Advancement of Science Teaching (CAST) was held recently in Austin, Texas. The North Texas Section of SAE International had an exhibit booth to promote A World In Motion®. Members from the section staffed the booth during the conference. Approximately 6,500 math, science and physics teachers attended.

Dr. Charles Lovas from Southern Methodist University and Lorton Trent conducted workshops on the Skimmer and Motorized Toy Car Challenges giving educators a learning opportunity they could transfer to their own teaching situations.

CAST is the largest statewide science education conference in the United States, second only in size to NSTA regional and national conferences.

Students' build math and science skills through technology camp

Fifty-eight elementary students from Orchard Knob and East Lake schools participated in a three-week after school interactive technology camp at the Urban League of Greater Chattanooga's M.L. King Boulevard complex. The organization put together the camp to assist schools in spurring interest in engineering, science and technical education.

One of the teams, named the Black Team, had come to the conclusion that the sail design on their Skimmer was not a good idea; the air kept pushing it over. After working with the best ideas from their individual prototypes, The Black Team reconstructed a new Skimmer. Their latest Skimmer was entered in the contest and took first place in time and distance.

If they desire, students can return on their spring break for a one-week camp to partake in another A World In Motion® Challenge. Mr. McKissic, vice president of programs for the Urban League, said "I want students to understand at the conclusion of the session that there are many occupations available through engineering and design. There is a whole other world of careers out there".

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Kitty Yost

Teachers receive awards for teaching excellence



Katie Dodge

Katie Dodge and **Kitty Yost**, will share the 2007 Lloyd Reuss Award for Teaching Excellence. They were chosen as the award recipients for their exemplary and creative use of the elementary curriculum. Both are teachers in the Livonia Public Schools in Livonia, Michigan.

Dodge attends the University of Toledo, pursuing a doctorate in higher education. She holds a bachelor's in English and speech and a master's in learning disabilities from Madonna University. During her five-year teaching career, she has taught second, third, fourth and sixth grades.

Yost has taught for 16 years and holds a bachelor's in education from Central Michigan University and a master's in education from the University of Michigan.



Angela Kirschner

Angela Kirschner, a seventh grade science teacher in the Dysart Unified School District in Surprise, Arizona has been selected to receive the 2007 Gary Dickinson Award for Teaching Excellence in Education. This annual award recognizes a middle school teacher for the best use of the A World In Motion® middle school curriculum to further develop students' interest in math and science.

"This is my second year teaching seventh grade science and already the students are asking when they will have an opportunity to start the AWIM® project," said Kirschner. "They heard rave reviews from the students last year."

Kirschner holds a bachelor's with a major in business marketing and a minor in chemistry from Hillsdale College in Hillsdale, Michigan and a master's in education from the University of Phoenix.

The recipient of each award receives \$2,000.00 divided equally between the school where the Challenge was implemented and the teacher. Elementary and middle school teachers are encouraged to apply for the awards at <http://www.awim.org>

Both awards are funded through the SAE Foundation. In addition to supporting the awards, recognition and scholarship programs, the SAE Foundation develops and funds programs and incentives that foster student interest in engineering, scientific and technical education.

Educators attend science conference

For more than 50 years NSTA (National Science Teachers Association) has been providing rich venues for science educators. The theme of the Western Regional Conference held in Denver was "Peak Experiences in Sciences". Participants at the conference were enthused when learning about A World In Motion® and interaction through participation in the Skimmer and JetToy workshops provided educators an opportunity to implement AWIM® into their classrooms. Representation from the western United States numbered 3,060 attendees.

GM continues to inspire students

General Motors has stepped up efforts to recruit and train classroom volunteers. A training session was recently held at Vineland Elementary School in Venice, Florida. Approximately 25 retirees, industry volunteers and teachers participated in the two-hour training session, which included a hands-on introduction to the AWIM® Skimmer activity. The collaboration between SAE and General Motors will produce 40 AWIM workshops at various locations throughout the U.S. GM sent more than 1,000 volunteers into the classroom during the 2006-2007 school year. Employee involvement falls under the GM Volunteerism policy which allows employees time off from their work day to participate in *A World In Motion*®.



COM-VEC attendee couldn't resist playing with the Motorized Toy Car built by a Streamwood High School student.



COM-VEC attendee talks with students from Caroline Bentley School. Caroline Bentley students explain their JetToy Challenge. Teacher, Sharon Stevenson, is pictured on the right.

Chicago students exhibit AWIM

Thirteen students along with their teachers from Chicago schools were invited to present their completed AWIM® Challenges at a reception hosted during SAE's COM-VEC (Commercial Vehicle Engineering & Exhibition). Fifth grade students from Caroline Bentley School displayed their JetToy activity. The Motorized Toy Car Challenge was showcased by Streamwood High School students.

AWIM, now in its 18th academic year of distribution, has introduced more than 3.75 million elementary and middle school students to science, technology and the basics of engineering.

Jonesboro, Arkansas teacher helps pupils understand science

During a three-week period students at Fox Meadow Intermediate School were divided into teams; a marketing team and an engineering team. They had to design a toy car from consumer information gathered. Their fictitious toy company had to be promoted by producing a commercial, logo and a slogan. Not all ideas ran smoothly in the planning process. Through trial and error the groups had to put their vehicles together and meet performance standards relating to torque and speed. Those who kept the most extensive notes were able to quickly find mathematical errors, and with a few simple adjustments, managed to get their prototypes back on track. Teacher, Kelli Cochran, found the Challenge to be outstanding. "It was a great way to learn about simple and compound machines, which is a framework in sixth grade science," she said.

Arizona Section activities

With assistance from the Arizona Section of SAE Rich Schaum, 2007 SAE President, and Brian Taylor, Manager of SAE Sections and Chapter Programs, were given the opportunity to visit a 7th grade class at Sierra Vista School, south of Phoenix that had experienced *A World In Motion*®. Also attending were the SAE Arizona Section AWIM® volunteers, Ralph Uthe and Dennis Powers.



**The following are A World In Motion®
Workshops/Conferences for December and January**

For any of the GM Training Workshops listed below
contact Jaclyn McQuaid at jaclyn.mcquaid@gm.com

December 5-6, 2007
GM Training
Western Peaks &
Sierra Vista Schools
Phoenix retirees
Phoenix, Arizona
Motorized Toy Car/Glider

December 10, 2007
GM Training,
GM Technical Ctr.
Warren, MI
Volunteers/Teachers
Refresher Training
12:00 pm-2:00 pm

December 11, 2007
GM Training,
GM Technical Ctr.
Warren, MI
Volunteers/Teachers
Skimmer/JetToy
8:00 am-12:00 pm
Motorized Toy Car
1:00 pm -4:00 pm

December 12, 2007
GM Training
GM Technical Ctr.
Warren, MI
Volunteers/Teachers
Glider
8:00 am – 11:00 am

December 14, 2007
GM Training
Peridia Golf &
Country Club
Sarasota, FL
Volunteers/Teachers
Skimmer/JetToy
8:00 am – 11:00 am

January 8, 2008
GM Training
Spring Hill Assembly
Spring Hill, TN
Volunteers/Teachers
Skimmer/JetToy
8:00 am – 12:00 pm

January 9, 2008
GM Training
Doraville Assembly
Doraville, GA
Volunteers/Teachers
Skimmer/JetToy

January 23, 2008
GM Training
Janesville Assembly
Janesville, WI
Volunteers/Teachers
Skimmer/JetToy

January 25, 2008
GM Training
GM Tech Ctr.
Warren, MI
Volunteers/Teachers
Refresher Training
12:00 pm – 2:00 pm

January 28, 2008
GM Training
Lansing Grand River
Assembly
Lansing, MI
Volunteers/Teachers
Skimmer/JetToy
10:00 am – 2:00 pm

January 28, 2008
GM Training
Orion Assembly
Lake Orion, MI
Volunteers/Teachers
Glider
2:00 pm – 5:00 pm

January 29, 2008
GM Training
GM Tech Ctr.
Warren, MI
Volunteers/Teachers
Skimmer/JetToy
8:00 am – 12:00 pm

January 29, 2008
GM Training
Detroit Public Schools
Focus Hope
Detroit, MI
Teachers
Skimmer
4:30 pm – 6:30 pm

January 30, 2008
GM Training
GM Tech Ctr.
Warren, MI
Volunteers/Teachers
Motorized Toy Car
8:00 am – 11:00 am

January 30, 2008
GM Training
GM Tech Ctr.
Warren, MI
Volunteers/Teachers
Glider
12:00 pm – 3:00 pm

January 30, 2008
GM Training
Pontiac Centerpoint
Campus
Pontiac, MI
Volunteers/Teachers
Skimmer/JetToy
8:00 am – 12:00 pm

January 30, 2008
GM Training
Univ. of Michigan
Ann Arbor, MI
Volunteers
Skimmer/JetToy
5:30 pm – 8:30 pm

January 31, 2008
GM Training
GM Tech Ctr.
Warren, MI
Volunteers/Teachers
Glider
8:00 am – 11:00 am

January 31, 2008
GM Training
GM Tech Ctr.
Warren, MI
Volunteers/Teachers
Motorized Toy Car
12:00 pm – 3:00 pm

January 31, 2008
GM Training
Flint Mfg.
Flint, MI
Volunteers
Skimmer/JetToy
8:00 am – 12:00 pm

January 31, 2008
GM Training
Detroit Public Schools
Location TBD
Teachers
JetToy
4:30 pm – 6:30 pm

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For consideration in a future
issue please tell us what you
are doing with AWIM in your
classroom. Articles/photos
should be sent to:

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To make a contribution to the
SAE Foundation, visit their website
at <http://www.saefoundation.org>