



**The following are  
A World In Motion  
workshops/conferences scheduled  
for March/April:**

**March 2**

General Motors  
Warren, MI  
Volunteer Training

**March 7**

General Motors  
Springhill, TN  
Volunteer & Teacher Training

**March 9**

General Motors  
Wilmington, DE  
Volunteer & Teacher Training

**March 25**

SCONYC  
Science Council of New York City  
Stuyvesant High School  
Teacher Training

**March 30**

W. Illinois University  
Mc Comb, IL  
Teacher Training

**April 3, 4, 5, 6**

Cobo Hall  
SAE World Congress  
AWIM Exhibit Booth

**April 6, 7, 8**

NSTA Conference  
National Science Teachers Association  
Anaheim, CA  
Teacher Workshops

**April 27, 28, 29**

NCTM Conference  
National Council Teachers of Mathematics  
St. Louis, MO

## Washington Education Briefing

Raymond A. Morris, Executive Vice President and Chief Operating Officer of SAE International, was invited to speak at a briefing of the House Science, Technology, Engineering, and Mathematics (STEM) Education Caucus on February 1, 2006, in Washington, D.C.

The meeting, attended by nearly 100 representatives from government, industry, and academia, was intended to receive input from the companies, trade associations, and nongovernmental organizations that support STEM education programs across the U.S. through curriculum development, classroom technology resources, teacher training seminars, and science competitions.

Morris, one of four speakers at the meeting, was the invited guest of House STEM Caucus Members Rep. Vernon Ehlers (R-MI), Rep. Mark Udall (D-CO), and Rep. Brian Baird (D-WA). The caucus was formed to raise awareness of issues affecting STEM education, provide information on these issues, and to serve as an information source and catalyst for improving science and math education. The 1999 SAE President, Don Ableson, represents SAE International on the STEM Education Caucus, Steering Committee.

Morris spoke on SAE International's A World In Motion (AWIM) program, a curriculum formed in 1990 as a way to increase student interest in math and science education. Since then, more than two million students and 15,000 volunteers have participated.

"When we began this program more than 15 years ago, we knew that our most important contribution would be the placement of science, technology, engineering, and math experts into the classroom," said Morris. "Take the volunteers away and we are simply another developer and funder of programs."

In the 2004-05 school year, more than 700 volunteers from industry visited schools in Detroit Metro area alone.





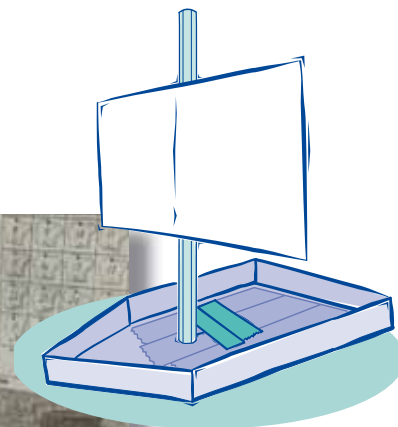
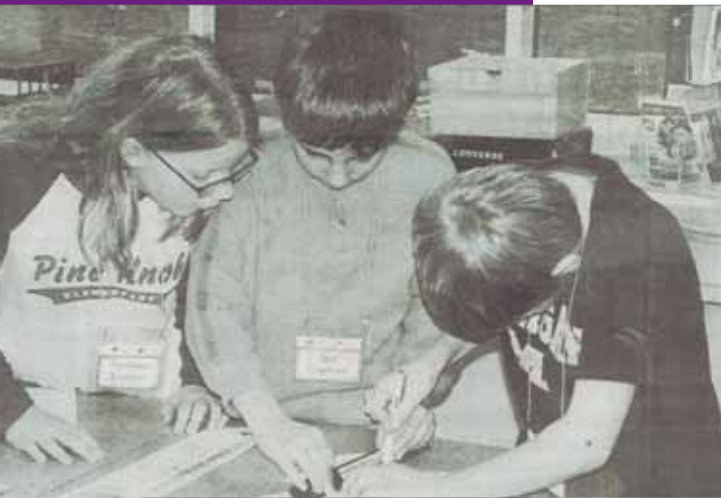
## A World In Motion at Pine Knob

Volunteer engineers from General Motors have been visiting 4<sup>th</sup> grade classrooms at Pine Knob Elementary in Michigan as part of the six-week project, A World In Motion.

After learning some of the basic ideas of engineering, they were given the assignment of designing a skimmer. Experimentation is part of the building phase. With a skimmer hull pattern, paper for the sail, drinking straws and paper clips the students construct a skimmer. Testing the effect of different sail shapes and the surface areas are part of the challenge the students encounter.

Students were broken up into teams of 3, with each student being made the project, facility or test engineer. Once a week the GM engineers visit several classrooms at Pike Knob Elementary to help oversee the project.

Besides being fun, the AWIM project is geared towards helping students build an interest in the math and science that go into engineering projects.





## Michigan

The first AWIM Master Teacher workshop was held at Focus Hope in Detroit for participants nominated by industry volunteers. The Master Teachers will present AWIM workshops in the southeastern part of Michigan.

Bosch hosted a volunteer workshop in January at their headquarters in Farmington Hills. Approximately 25 volunteers and ten teachers were in attendance with the focus on the Challenge 1 JetToy and Skimmer.

During the month of January a collaboration between SAE and General Motors produced three workshops for A World In Motion volunteers in Warren, Flint and Pontiac. Approximately 150 industry representatives from the various GM locations participated in the training which included a hands-on introduction to the Challenge 1 Skimmer and JetToy. Some workshops also included Challenge 2 and 3 curricula. GM continues to be very supportive of all the AWIM programs.

On February 7<sup>th</sup> at Warren more than 50 additional volunteers from GM, Quantum Signal LLC and 3M Automotive Innovation Center participated in AWIM training. Employees from these companies will be looking forward to working with the local schools.

## Greenville, South Carolina

SAE provided Challenge 1 JetToy materials to educators who attended the teacher-in-service training. Twenty-five 5<sup>th</sup> grade teachers were introduced to AWIM through the workshop.

## Wentzville, Missouri

Last year after a one day workshop for teachers and volunteers, it was decided that March 17, 2005 should be declared "AWIM Day in Wentzville". This year on January 27<sup>th</sup> Mark Holly from the SAE St. Louis Section helped conduct workshops on Challenge 1, 2 and 3 to approximately twenty volunteers at the GM facility in Wentzville.

## Hampton, Virginia

SAE presented A World In Motion to more than twenty pre-service teachers and faculty during the annual NASA Conference held during the month of February. The conference works with underserved populations from across the country. Those attending had the opportunity to enhance their knowledge and skill in teaching mathematics and science using technology at the elementary and middle school levels during a presentation of the JetToy.



## Warren, Michigan

A student carefully threaded a straw through punched holes in an index card sail as he helped ready his team's paper "skimmer" for its first trial.

"She's a beaut," a 9 year-old McKinley Elementary School student exulted.

The paper skimmers were built under the careful watch of General Motors and Army engineers.

The program, A World In Motion, brings the engineers into the classroom to drive home the practical uses of math, science and technology.

Linda Wytka's fourth-grade class is one of two classes that participates in a six-week program at McKinley.

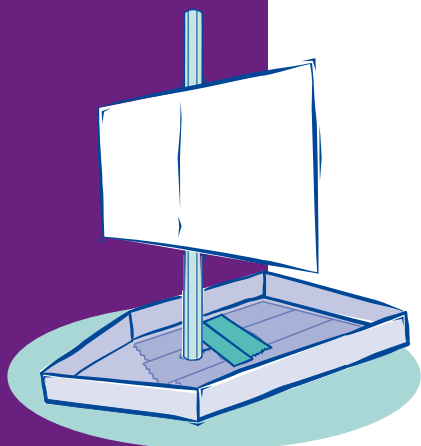
When the engineers visit the classroom, they help kids test and refine their skimmers and learn to problem solve, said Paul Bartold, a GM senior project engineer.

"They will learn engineering design, basically," he said. "We're trying to renew excitement in math and science."



Many students have lost interest in math and science by seventh grade. The program hopes to keep students engaged in learning those skills through fifth and sixth grades.

Linda Wytka said she jumped at the chance to have engineers come to her classroom.



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