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2nd Annual JetToy Olympics - Sponsored by Johnson Controls

On Wednesday, April 16th during SAE World Congress in Detroit, Michigan, Johnson Controls through a generous contribution is sponsoring an event that will include 300+ students from area schools. Students will design and build balloon powered JetToy cars from SAE International's *A World In Motion@* Program. Students will compete against their peers in categories including speed, accuracy, distance, time and weight carrying ability. Top student design teams will be awarded gold, silver and bronze medals.

The JetToy Olympics will take place at Cobo Center in Michigan Hall between 9:00 a.m. and 2:00 p.m. with the competitions scheduled for 11:45 a.m. to 1:30 p.m. Spectators and volunteers willing to work as track judges are welcome.

Teachers Learn Lesson in Engineering

Fourteen math and science teachers recently received training with the A World In Motion@ program and will be working with the Detroit Area Pre-College Engineering Program (DAPCEP).

Too many students find out too late that they don't have the preparation to study engineering once they get to universities. DAPCEP's mission is to increase the number of minorities who are motivated to pursue careers in science, mathematics, engineering and technology related fields. DAPCEP is part of a nationwide initiative by the National Science Foundation to identify and refine best practices in math and science education.

Those interested in volunteering to assist teachers, please contact Traci Ballard-Dowell at: tballdow@umd.umich.edu

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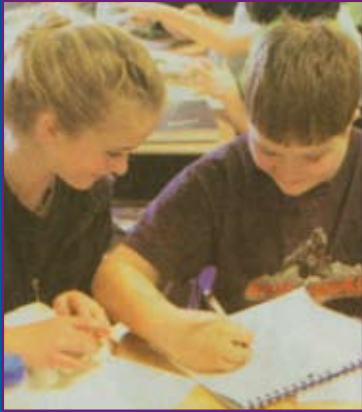
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Two fifth-graders log data information for their project

Students Become Engineers

Recently fifth graders at Brandon Fletcher Intermediate School learned math and science can be exciting. Students propelled their balloon-powered JetToy cars across the floor.

Each group soon discovered, depending on the diameter of the tubing, their cars would either go fast for a short distance or slower for a longer distance. Adding weight and friction slowed their cars down. Each Wednesday for six weeks Kim Colley's class had been working with engineers from General Motors as part of the *A World In Motion®* program.



It's an initiative by Rick Wagoner, Chairman and Chief Executive Officer, to build a bridge between industry and schools to promote an interest in engineering and science at younger ages.

Students and GM engineer, Craig Mantey, test their JetToy car

The following are A World In Motion workshops/conferences/events for March and April

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

March 10, 2008

EDS/GM Training
Ren Center
Conf. Rm. 21-170
Detroit, MI
Volunteers
Skimmer/JetToy
1:00 pm – 4pm

March 11, 2008

EDS/GM Training
EDS Credit Union
Conf. Rm. 2E-21
Pontiac, MI
Skimmer/JetToy
9:00 am – 12:00 pm

March 11, 2008

PMI
Conf. Rm. 132
Auburn Hills, MI
Skimmer/JetToy
2:00 pm – 5:00 pm

March 21, 2008

NSBE 34TH Annual Nat'l Conf.
(Nat'l Society Black Engineers)
Orlando, FL
Student JetToy Competition
alaw@nsbe.org

March 27-30, 2008

NSTA 56th National Conference
(National Science Teachers Association)
Boston Convention & Exhibit Center
Boston, MA
Exhibit Booth #1256
Skimmer/JetToy/Glider

All workshops offered to teachers at no cost

www.nsta.org

April 3, 2008

Bosch Training
Charleston, SC
Kimberly.Lindsey-Feagin@us.bosch.com

April 16, 2008

2nd Student JetToy Olympics
Michigan Hall in Cobo Center
Detroit, MI
9:00 am – 2:00 pm
11:45am – 1:30 pm Competition
cciuca@sae.org

April 24, 25, 25, 2008

Montana Indian Education Association
Conference (MIEA)
Skimmer/JetToy
Motorized Toy Car/Glider
edithcranorbuck@gmail.com

SAE Honors Outstanding AWIM Volunteer

Joseph G. Langhauser of the General Motors Corporation is the recipient of SAE International's Bill Agnew Award for Outstanding A World In Motion® Volunteers.

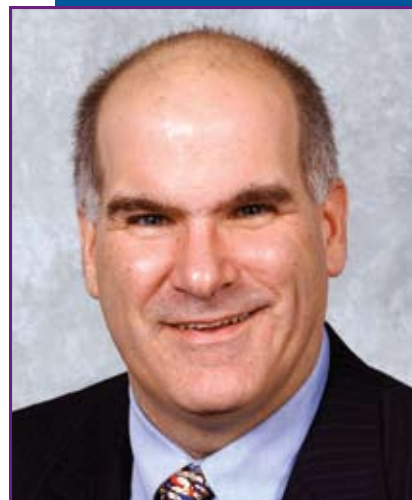
The award, established in 2003, recognized volunteers active in the A World In Motion (AWIM) program.

Langhauser is the Mobility Product Manager for Fleet and Commercial Operations. Responsible for the improvement and implementation of the corporation's mobility program, he works closely with mobility upfitters and engineers to ensure vehicles are designed with aftermarket mobility modifications in mind.

Langhauser received his bachelor's degree in mechanical engineering from the University of Detroit, and two master's degrees in business administration and applied statistics from Oakland University. He is pursuing a master's degree in strategic management from Indiana University. He resides in Waterford, Michigan.

Langhauser has been an active volunteer for AWIM since 1992 and has served on the K-12 education committee for the last four years.

The deadline is July 31st for nominations for the 2008 award. To nominate a volunteer with A World In Motion go to www.sae.org/news/awards/list/agnew



Landon IP, Inc. Gives Back to the Community

Landon IP has recently expanded to the Southfield area. Their main headquarters are in Alexandria, Virginia but their expansion to Michigan brings the promise of creating 300 jobs for engineers within the next five years. This will definitely help in keeping the Michigan economy moving forward.

Starting in February, Landon IP employees are volunteering an hour out of their workday for six weeks to help fifth graders at Laurus Academy and National Heritage Academy in Southfield, Michigan participate in the A World In Motion® program. The AWIM program helps students and teachers to use math, science and technology to explore the engineering design process. It allows students to experience engineering design much like an engineer in the real world.



Landon IP employees testing their JetToy at a training class



A design team of students with their JetToy car

Students Design Toys That Work

Derby Middle School students in Mrs. Schneider's Math6 class and Mrs. Cole's Science6 class joined forces to engage in the Motorized Toy Car activity. The students were involved in writing proposals, drawing sketches and working with models to develop a plan to meet a specific set of design requirements. Students learn how to work in teams, solve problems and think both creatively and strategically. Force, friction, simple machines, levers, gears, torque and design are the core scientific concepts covered in the Motorized Toy Challenge.

At the conclusion of four weeks of hard work, teams of "toy companies" presented their concept toys to a team of engineers who ranked them according to strict criteria. A special thanks to Mr. Simpson, Mrs. Hitchcock, Mr. Hentgen, Mr. Langhauser and Dr. Kemennu who were instrumental in volunteering their time assisting the students.



Retired GM engineer Mike Hentgen.

Smiling students who earned top award from judges.



Traveling all the way up the ramp even surprised these kids.

AWIM Program Staff

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K-12 Education Programs

Leslie Rizzi
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Program Developer
K-12 Education Programs

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Darlene Geweth
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Assistant

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>