



A WORLD IN MOTION®

Newsletter

February 2008

Contents:

Ryan Newman	1
Montana	2
North Brunswick, New Jersey	3
Workshops/Conferences	4

Ryan Newman "Rocket Man"

Ryan Newman, spokesman for *A World In Motion*® and driver of the No. 12 Penske Racing Alltel Dodge team, won the 50th running of the Daytona 500, the premier event in NASCAR's 2008 Sprint Cup Series, on February 17th. SAE International and the SAE Foundation congratulate Newman and the entire Penske Racing Team on a fabulous victory.

Last year, Newman made a public service announcement promoting SAE International's *A World In Motion* program which can be viewed on the AWIM website at www.awim.org. Newman's message is America needs young engineers and *A World In Motion* is designed to fulfill that need. Newman earned a Bachelor of Science degree in Vehicle Structure Engineering from Purdue University in 2001.

Newman ran a fast lap of 189.75 mph in the final qualifying session to start the race in seventh position. He flirted with victory a few times in 2007 and finished 13th in the series standings. His previous best finish at Daytona was third in 2006.

Newman began working for legendary racing icon Roger Penske in 2000. Around this time he met racing legend Buddy Baker, who would eventually become his mentor on super speedways. In 2002, he was the Raybestos Rookie of the Year and in 2003 was named Driver of the Year.



Brought to you by:

SAE International™

Funded by:

SAE
FOUNDATION
for Science and Technology Education

• Teach • Volunteer • Donate

www.awim.org

Montana

Montana Learning Center, at Canyon Ferry Lake, Helena, Montana was again the hub of a 4-day hiatus for teachers as they explored the AWIM Skimmer and Jet Toy Challenges, the Motorized Toy Challenge and the Glider Challenge. Participants excitedly built, modified, tested, competed, and then rebuilt their AWIM projects as they experienced first-hand how students learn through hands-on design.

Teachers worked throughout the days and into the evenings with the *A World In Motion*® instructors, who are also teachers using the materials in their own classrooms. After each challenge was built by the participating teachers, the next step was learning how to effectively use the AWIM kits in the classroom. Teachers listened, learned and talked about how to take full advantage of the information in the manuals and how to best set up classrooms for a Challenge. Teacher participants wrote lesson plans, brainstormed ideas for more and better cooperation between teachers of different subjects, selecting classroom volunteers in their communities and best of all, networked. The four days flew by; teachers went home, full of ideas and new materials to use in their classrooms.

The concluding highlight was a visit by the First Lady of Montana, Nancy Schweitzer to the Montana Learning Center. Mrs. Schweitzer conversed with the participants, asked questions and watched a competition to learn more about *A World in Motion*®. Mrs. Schweitzer and the governor, Brian Schweitzer are deeply committed to math and science education and the ensuing careers which are the natural by-products of a good education and an interest in math and science. This interest by the Schweitzers has resulted in their creation of the Montana Science and Math Initiative. They also are very supportive of *A World in Motion*® in Montana.

A similar AWIM institute will be offered again at Montana Learning Center Helena, Montana June 9-11, 2008 and at Miles City, Montana June 12-13, 2008.

Left: Edith Cranor-Buck, instructor at the institute
Right: Nancy Schweitzer, First Lady of Montana



Teachers at the professional development workshop learning to understand the process of engineering design



North Brunswick, New Jersey

Several classes of eight-grade students at Linwood Middle School completed the Motorized Toy Car Challenge by designing Rovers and other classes built planetary surfaces over which the cars had to travel.

Science teachers Danita Guarino and Lori Levitt intertwined their classes to participate in the *A World In Motion*® project. Guarino's class was responsible for building the Rovers. The cars had to travel across both a flat and inclined surface made of different materials. Levitt's students were responsible for creating planetary surfaces based on actual terrain but made out of materials such as gravel, clay, licorice and marshmallows. Each team building a rover selected a planet they felt their vehicle could go over.

One team of girls said finding materials to cover a rover to look like an actual vehicle was difficult. They tried to find a cover that didn't weigh too much or slow it down. The group used moldable clay so that their vehicle wouldn't fall over while trying to climb an incline of 15 or 30 degrees.

Another education component was the students quickly learned they had to communicate indirectly, as each teacher's classes did not meet together on a regular basis. Instead the students were taught how to write proper letters and organize thoughts clearly so the other class could understand what changes had to be made to their vehicles or to the planetary surfaces.

The students really didn't understand that engineers are people who come up with ideas and put a design with their ideas," Guarino said. She also noted the importance of having students learn by means other than textbooks, since some students benefit more from hands-on activities.

Mrs. Guarino had participated in an *A World In Motion*® professional development workshop through collaboration between SAE International and the Stevens Institute of Technology Engineering Our Future New Jersey (EOFNJ).



The following are *A World In Motion* workshops/conferences/events for February and March: For any of the GM Training Workshops listed below contact Jaclyn McQuaid as Jaclyn.mcquaid@gm.com

February 1, 2008

GM Training
GM Tech Ctr
Warren, MI
Volunteers
Skimmer/JetToy
8:00am – 12:00 pm

February 5, 2008

Regional Occupancy Ctr.
Palmdale, CA
Teachers/Volunteers
Skimmer/JetToy
Motorized Toy Car/Glider
rscott@starband.net

February 6, 2008

Romoland School District
Bolder Ridge Middle School
Romoland, CA
Teachers
Glider
rejjoan@earthlink.net

February 7, 2008

CA City High School
California City, CA
Teachers/Volunteers
Skimmer/JetToy
Motorized Toy Car/Glider

February 8, 2008

GM Training
PCC Central
Pontiac, MI
Volunteers/Teachers
Refresher Training
12:00 pm – 2:00 pm

February 9, 2008

DAPCEP Training
Dearborn, MI
Teachers
tballadow@umd.umich.edu

February 12, 2008

GM/Delphi Training
Lordstown Plant
Girard, OH
Volunteers
Skimmer/JetToy
10:00 am – 2:00 pm

February 13, 2008

GM Training
GM Tech Ctr
Warren, MI
Volunteers/Teachers
Refresher Training
2:00 pm – 4:00 pm

February 13, 2008

Bosch Training
Magneto Cafe
Farmington Hills, MI
Skimmer/JetToy
1:00 pm - 4:00 pm

February 14, 2008

Tonawanda, NY
Volunteers/Teachers
Skimmer/Motorized Toy Car

February 14, 15, 2008

IDEAS Conference
Kingston, Ontario
worthyta@gmail.com

February 19, 20, 2008

GM Training
Doraville, GA
Volunteers/Teachers
Skimmer

February 19, 2008

Bosch Training
Magneto Cafe
Farmington Hills, MI
Volunteers
Glider
8:00 am - 11:00 am

February 19, 2008

Bosch Training
Innovation Cafe
Plymouth, MI
Volunteers/Teachers
Skimmer/JetToy
4:00 pm – 7:00 pm

February 20, 2008

Bosch Training
Magneto Cafe
Farmington Hills, MI
Volunteers
Motorized Toy Car
8:00 pm – 11:00 pm

February 21, 2008

Introduce a Girl to
Engineering Day
Argonne Labs
Chicago, IL
benda@aps.anl.gov

February 21, 2008

GM Training
Spring Hill, TN
Volunteers
JetToy/Motorized Toy Car

February 25, 2008

Bosch Training
Training Room
Plymouth, MI
Volunteers
Skimmer/JetToy
8:00 am - 11:00 am

February 25, 2008

Bosch Training
Training Room
Plymouth, MI
Volunteers
Motorized Toy Car
1:00 pm - 4:00 pm

February 26, 2008

Bosch
Pres. Room B
Farmington Hills, MI
Volunteers
Glider
8:00 am - 11:00 am

February 26, 2008

Bosch Training
Innovation Cafe
Plymouth, MI
Volunteers/Teachers
Skimmer/JetToy
4:00 pm – 7:00 pm

February 27, 2008

GM Training
Wilmington Assembly
Wilmington, DE
Volunteers
JetToy
4:00 pm – 6:00 pm

February 27, 2008

GATE Coordinators Meeting
Solano County Office of
Education
Fairfield, CA
Teachers
JetToy 5:00 pm – 6:00 pm
madscientists@netscape.net
707-498-0026

February 28, 2008

GM Training
Grand Rapids Metal Fab
Grand Rapids, MI
Skimmer/JetToy
10:00 am – 2:00 pm

February 29, 2008

CA League of Middle
Schools Conf.(CLMS)
Sacramento Convention
Center
Sacramento, CA
Teachers
JetToy 10:30 am – 11:30 am
madscientists@netscape.net
707-498-0026

March 1, 2008

CMSESME
Council Math/Science
Educators San Mateo County
Canada College
Redwood City, CA
Teachers
JetToy 11:15 am – 12:30 pm
Glider 1:45 pm – 3:00 pm
madscientists@netscape.net
707-498-0026

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

Lake Washington
Technical College
Seattle, WA

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

AWIM Program Staff

Matthew Miller
Manager
K-12 Education Programs

Leslie Rizzi
AWIM Business Manager

Kenneth Francis
Program Developer
K-12 Education Programs

Chris Ciuca
Program Developer
K-12 Education Programs

Julie Nalducci
Associate Program Developer
K-12 Education Programs

Linda Cavanaugh
K-12 Administrative Assistant

Darlene Geweth
K-12 Education Program
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:

SAE International
Attn: Darlene Geweth
400 Commonwealth Drive
Warrendale, PA 15096

Phone: 724-772-8513
E-Mail: dgeweth@sae.org

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