

Volume X No.2

Macomb Mathematics Science Technology Center

2008-2009

MMSTC CELEBRATES 17TH ANNUAL SENIOR DINNER



On Monday, April 27th over 200 people attended this year's senior reception held at the Sterling Inn. The class of 2009 represents 13 high schools in Macomb County. Students, parents, staff, and honored guests enjoyed an evening of food, fun, fond memories, and exceptional awards. This year's Masters of Ceremony were **Lindsey Loridon** and **Tamim Shaker**. Inspirational words were shared by director **Lauren Hoven** and Superintendent of Warren Consolidated

Schools, **Dr. Robert Livernois. Mrs. Marie Copeland** also presented the student body with a special message of gratitude and encouragement. The slide show, produced by **Valerie Zeer,** was a huge hit! Viewing the student's photos over the past 4 years and their personal quotes was enjoyed by all.

A highlight of the evening was the announcement of awards, grants, and scholarships. This year's class received over 4.5 million dollars in award money. Students plan on using this toward their college education to pursue such fields of study as engineering, chemistry, journalism, pre-law, pre-med, psychology, economics, accounting, and biology -- just to name a few. As students crossed the stage to receive their medal of completion and congratulations from the faculty, a collective sense of pride and bittersweet farewell was felt by all. This is L'Anse Creuse High School and L'Anse Creuse High School North's final MMSTC graduating class. Senior Dan Arment recognized this in a heartfelt speech and, at the senior breakfast, a plaque commemorating the L'Anse Creuse District's participation was presented to the staff. Closing remarks by **David Walsh**, special programs consultant, echoed the students accomplishments while reminding them that true success will only be measured by the character of person they become.

See the back cover for candid pictures from the dinner.

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MMSTC at CEDAR POINTE



Tuesday May 19, the **juniors** and **seniors** of MMSTC attended a fieldtrip to Cedar Point Amusement Park in Sandusky, Ohio. The students learned the importance of sunscreen as the skies were clear and sunny all day and the crowds were small on this wonderful day. While at the park, Physics students were required to collect data, make observations and calculations. They calculated the acceleration of the Millennium Forces first drop, the amounts

G-Forces on Top Thrill Dragster, the power of the Power Tower and the length of the Rip Cord. What was not calculated was the ratio of calories burned while walking around the park to calorie intake via Funnel Cakes and Dippin' Dots. The projects, which counted as a **Physics** test, were turned in around 2:00 p.m. so the students had the rest of the day to enjoy the park.



FRESHMEN ZOO VISIT

In keeping with tradition, the freshmen class closed out the school year with an exciting trip to the Detroit Zoo. Students and parents were exposed to a variety of new exhibits at the renovated Detroit Zoo. Mr. Acre, a first time Detroit Zoo visitor, was excited to see all the wonderful animals in their new homes. Kristine Gallis (Cousino HS) found the trip to most exciting when socializing with her new friend from the morning MMSTC session. Ms. Gallis also expressed that the less than perfect weather was not a factor that could have spoiled her experience. The cool temperatures and lack of sun made it ideal for the animals to be out and about during our visit so viewing was at a premium. Catherine Buchanan

(Warren Mott HS) found that she enjoyed the new additions to the Amphibiville exhibits and was in wonder as she looked at the large variety of frogs that the zoo had on exhibit. **Sanjana Shahreen** (SHHS) enjoyed growling at the bears with her new friend from the A.M. session **Margret Elias**. All in all, despite the rain and cool temperatures the freshmen at MMSTC had a fun, informative visit.



MATCHMAKER: A big thank you to Sasha Rudow and Amber Hauer for their efforts on behalf of Breast Cancer Research! By taking the time to organize, sell, and count, over \$150 was raised for Breast Cancer Research. Also, for all who donated, it was not only fun but helped others!

Thank you, Mrs. Copeland

HENRY FORD ROUGE FACTORY TOUR



All Americans are feeling the crunch of the current economic climate. For MMSTC staff, parents, and students this is especially true since Macomb County is filled with a variety of businesses that are influenced by the troubled car industry. We see the effects that these times have on all of our lives in one way or another. That is why this year's sophomore field trip to the Henry Ford Rouge Factory was all the more meaningful. Students viewed a movie presentation about

the legacy of the Ford Company, Henry Ford, the UAW, and the impact the auto industry has had on our community for decades. Next students participated in a multisensory theater experience including a 360-degree look at how automobiles are made! Students were then taken to the roof of the factory to observe the 454,000 sq. ft. living roof (the largest in the world). Students were also educated on other "Green" concepts such as solar panels, alternative paving techniques that reduce storm run off, and wet lands conservation. Lastly students took a walking tour of the assembly plant where they could see first hand how the Ford F-150 was manufactured. It was a proud moment for all of our students. One sophomore said, "I have lived in the Motor City all my life, so many of my family members work for the auto industry, but for the first time I really get what that means and how important it is."

AP Calculus Oral Presentations

Essays in a Calculus class?! Why not?

Seniors in the AP Calculus classes wrote four essays on calculus topics throughout the year. This required students to reflect on the concepts, express them in written form, and then solve problems using the concepts. As a culminating activity, students had to "defend" their work to a panel of outside calculus experts. Judges included former MMSTC teachers Mr. Ervin and Mrs. Beltz, WCS educators Mr. Setlak, Ms. Dodero and Mr. Schulte, and other professionals from the engineering ("real") world.

Although students were very nervous, it was a valuable learning experience for them! As part of the MMSTC philosophy, it is necessary for students to think about mathematics in a variety of ways. Solving problems, writing explanations, and verbally communicating their ideas to unknown adults each require a different set of skills. As students prepared for the AP exam in May, it was helpful to review each topic and ensure that they truly understood it.

Students throughout the country may have an opportunity to experience this as well, as Mrs. Copeland and Ms. Malone shared this idea with other math teachers at a conference in Washington, D.C. in January.

MMSTC Celebrates Earth Day!

April 22, 2009





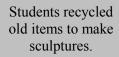




Seedlings were given out to the community & students decorated reusable shopping bags.



A neighborhood trash pick up was done after hearing a speaker from the Sierra Club.



Solar cookers helped prepare hot dogs.







SOPHOMORES TOUR MSU

The Class of 2011 visited the East Lansing campus of Michigan State University on March 27, 2009. This year's campus exploration began at the popular National Superconducting Cyclotron Laboratory (NSCL), a center for world-class rare isotope research and education where nuclei are accelerated, smashed, filtered and studied. What's a trip to a college campus without experiencing dorm food? At Holmes Hall, sophomores experienced the plethora of food choices for lunch – all you can eat! It is amazing what some

sophomores, boys especially, can consume in one hour!

After lunch, we watched a presentation about MSU and the Lyman Briggs College. MMSTC alumni were on hand to answer questions from students regarding college, college life, programs of study and how the preparation received at MMSTC translates to the college experiences. Alumni Michael Mazur (06), Frank Kwaitkowski (06), Patrick Niebrzydowski (05), Aylysh Gallagher (05), Bridget



Howard (06), Jessica Schoenherr (05) and Taylor Herbart (07) are pictured. Tours of Holmes Hall, the Briggs facilities and the MSU campus followed. All groups met up at the MSU Dairy Store where we sampled a variety of creative flavors freshly made on campus! A perfect ending to a busy day!

The Tower Project: The Tradition Lives On!

The freshman class recently finished up a right of passage here at the MMSTC... the tower project. The project started many moons ago in a land far, far away when GAT had an actual

textbook! Every year the project gets more intricate as students offer ideas to Mrs. Copeland that make the assignment more involved. Over time the project has morphed into over 100 calculations -- as well as a three dimensional model made to scale! For some students it is their first "all-nighter", as they frantically cut and re-cut pieces of paper to form the appropriate ceiling or wall. The project covers 16 different HSCE's (State Math High School Content Expectations) and has become an effective, challenging review project for volume and surface area of different polygons in geometry. Pictured at right is **Frank Pino** with his



award winning tower. If you look closely, you can see a fish in his pond, as well as a hammock in between two trees.

MMSTC Grand Champion Science and Engineering Fair Winners Compete at the International Science and Engineering Fair



In May, seniors **Lyndsey Reich** and **Tamim Shaker**, the Grand Champions of the Detroit Science and Engineering Fair held this past March at Cobo Hall, set out for Reno, Nevada with Mrs. Cybulski for the ISEF for a week. They reconstructed their science board in Reno and presented their research findings in another grueling round of judging. They met over 1500 other high school science fair finalists from all around the world -- 52 countries in all -- and of course students from many other states in the U.S. At the first night's pin exchange, attendees traded pins representing Michigan for ones that embodied the cultures from places like India, China, and Brazil.

Tamim was out to get a pin from every country while Lyndsey wanted to make sure she talked to each person she traded with.

Opening ceremonies were done Nevada-style and began with a floor show to entertain everyone. The next day a panel of Nobel Prize winning scientists fielded questions from the audience of our young student scientists. One night was set aside for a dance so students could socialize. Two other evenings were devoted to award ceremonies. Many students were awarded monetary grants, internships, scholarships, and trips to enter their research into other countries' science fairs. Best of Category winners were each given an all expense paid trip to visit with CERN scientists in Geneva, Switzerland. Our Lyndsey Reich received the Borman Award which is an all expense paid trip to Israel to study at the Weizman Institute of Science for a month in July. What a fabulous opportunity!



"To Infinity and Beyond!"

The MMSTC rocket team known as "Trinity To Infinity and Beyond" competed in the National Association Rocketry Finals Competition held on May 16th in Manassas, Virginia. Earlier in the year they competed against 653 schools from across the U.S. to gain the spot. The team designed a high powered rocket to safely carry a raw egg to exactly 750 feet and return it in exactly 45 seconds. At the national competition, the MMSTC rocket came up short with an altitude of 705 feet, but it did hit the 45 second

mark exactly. The team also had a chance to present their project to a team of professionals in rocketry. All in all, the team had a great experience and they hope to return next year and bring home the \$60,000 in prize money. The goal of the contest is to bolster student interest in Science, Technology, Engineering and Mathematics -- STEM -- education in an effort to attract young people to aerospace careers. The MMSTC team consisted of 10th graders, Juzzlyn Perry, David Rulestead, and Nathan Sanchez, and 11th graders, Ryan DuTour, Anna Myers, Jeff Carothers, Bradley Barry, and Nicholas Catoni. Shown are the 10th graders, who competed at the national finals in Virginia.



Celebrating π Day

MMSTC celebrated pi-day (3/14) with a variety of activities. In Mrs. Dewey's FST classes, students created posters about this fascinating, irrational number that we all know and love. Research was done on the history, applications and trivia of π and then compiled on a poster. Projects were displayed at Parent/Teacher Conferences and the winners from each section were: (10A) **Karoline Papiez** & **Alex Kluz**, (10B) **Virginia Lozano** & **Jackie Close**, and (10C) **Trevor Torres** & **Monica Hawkey**.

MMSTC 2009-2010 CALENDER

NO SCHOOL – Labor Day	September 7
First day of school for MMSTC (all students grades 9-12)	September 9
NO SCHOOL – Teacher In-service	November 3
1/2 Day - NO PM CLASSES – Records Day (end of 1st quarter)	November 6
½ Day – NO PM CLASSES Report cards distributed at conferences Parent Teacher Conferences 1:00 - 3:30 pm & 5:00 - 7:30 pm	November 18
½ Day - NO PM CLASSES	November 25
Thanksgiving Recess – NO SCHOOL	November 26 & 27
Classes resume	November 30
Last day of class before Winter Recess (Winter Recess 12/22-1/2)	December 18
Classes resume	January 4
Mid-Term Exams	January 15 & 19
NO SCHOOL – Martin Luther King Jr. Holiday	January 18
NO MMSTC CLASSES due to mid term exams at home schools	January 20, 21, 22
Last day of class before Winter Break (Winter Break 2/15 – 2/19)	February 12
Classes resume	February 22
High School ACT/MME Testing (11 TH grade)	March 9, 10, 11
½ Day - NO PM CLASSES – Records Day (end of 3 rd quarter)	March 31
½ Day - NO PM CLASSES	April 1
NO SCHOOL—SPRING RECESS	April 2-9
Classes Resume	April 12
½ Day – NO PM CLASSES Report cards distributed at conferences Parent Teacher Conferences 1:00 - 3:30 pm & 5:00 - 7:30 pm	April 21
Senior Reception Dinner	April 26
NO SCHOOL - Memorial Day Weekend	May 28-31
MMSTC Senior Exams	June 2 & 3
Last Day for MMSTC Seniors	June 3
MMSTC Underclassmen Exams	June 11 & 14
Last teacher day (teachers available thru June 17 for exam make-ups)	June 18

Warren Consolidated Schools

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MMSTC MISSION STATEMENT

The mission of the Macomb Mathematics Science Technology Center, in partnership with families and community, is to create the best innovative environment which fosters excellence and vision in teaching, learning, and discovering the relationships of mathematics, science, technology, and society.

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Macomb Mathematics Science Technology Center

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CAMERAS FLASH AT THE MMSTC SENIOR DINNER







