

Volume XI No.1

**Macomb Mathematics Science Technology Center** 

2009-2010

# MMSTC Launches the **GREEN** Club

MMSTC has initiated a renewable energy and ecology club known as the **GREEN** Club (**G**lobal **R**esearch of **E**nergy and **E**nvironmental **N**eeds). The founders of the club include 11<sup>th</sup> graders,



Patricia Pasque, Juzzlyn Perry, Kaitlin Soper, and technology teacher, Mr. Supal. The focus of the club will be to research. invent and implement energy efficient procedures at the school that meet the needs of the students. staff. environment. The GREEN club hopes to enhance the electrical power generation from the wind turbine and solar panels currently installed at the school, promote development of the environmental pond, and expand the school recycling program. Approximately twenty five students from MMSTC have asked to be part of the GREEN Club. All are welcome to join and all "green" ideas

you might have are encouraged. Pictured are initiators of the **GREEN** Club tackling their first project; replacement of the worn out pond liner at the school— everyone got their hands dirty!

# **Class of 2011 Visits University of Michigan**

On Friday, October 30<sup>th</sup>, the junior class went to Ann Arbor on a cool, rainy morning to visit the University of Michigan campus. This annual field trip has become a tradition here at MMSTC. As news spreads out among the campus that the Butcher kids are coming, the alumni network goes into full swing. With over 70 alumni currently on campus there is no shortage of students to run into. Once on campus we were led to the physics department where we were treated to a wonderful lecture-- both informative and entertaining-- by Professor Tarle. After a campus tour, we were taken to the undergraduate science building for lunch, a presentation, and a student panel for questions and answers. We were greeted by over 30 of our former MMSTC students who all appeared quite happy and enthused to see us. They shared their experience and wisdom as current college students. Their advice ran from apply early and take as many AP exams as you can to pay attention to your MMSTC teachers (they will prepare you well) and where to go for free food! The juniors also heard from several representatives of the UM Learning Communities. The students then headed off toward the Natural History Museum on campus. Groups of students embarked on a scavenger hunt throughout the museum and competed for a special prize for earning the most points. As always, the College of Literature, Science and the Arts at the University of Michigan gets high marks from all of us here at MMSTC for making this such a quality program.

# Freshman Homecoming 2009

The Class of 2013 hosted the Tenth Annual Freshman Homecoming at Butcher Field. This year's bonfire was built to a record height and the parade down Mound Road was viewed by thousands of bystanders and included several floats and marching bands.



The morning "el queso diablo" team soundly defeated the tenth grade tied-dyes by a score of 3 to 3. Jason Lux was selected as the Most Valuable Player. The plays which gained the most yards for the freshmen were the pass interceptions by Blake Sitko and Jason Lux. Running backs Patty Rempala and Keara Miley each went over 100 yards.

Marching Band members were Emily Caretti, Emily Upton, and Matt Forsgren.

Color guard members Hannah Mico and Robin Smith showed precision when they tossed, twirled, and caught in total unison.

The crowd for the afternoon battle caused traffic to back up on Cosgrove. The Turquoise Taco Takers edged out the Flaming Flash Drives 4 to 2. Because of the phenomenal

blocking by Gretchen Grade, Claire Wells, and Kate Dunkle, the Tacos were victory bound. RJ Marchionda and Josh Hallock ran for touchdowns. Austin Serraicco, and Brendan Fitzpatrick caught touchdown passes thrown by Marchionda. victorious coach, Lawrence Jhons, was seen on the sidelines scouring his play book for the "perfect" play. The Flaming Flash Drives were driven down the field by Max Livernois. He completed touchdown Hicks and Kevin Lucas passes to



Dewandler, who played through a broken toe. Daniel Shing was the "very angry" coach.

They almost tied the game, but time ran out.



The afternoon band members consisted of Shane Schulte, Jamon Ford, Michael Richards, Krystal Krygowski, Jonathan Lee, Brent Zablocki, David Stroshein, Sydney Kieler, and Cailey Stileler. They impressed the crowd with their rendition of Thriller (which was actually recognizable), with the solo sung by RJ.

> Chef Estapa demonstrated several interesting ways to grill and eat a hotdog. And many, many thanks to everyone who sent in puddings, cupcakes, brownies. cookies. chips, and all that other wonderful junk food.

## **WELCOME NEW STAFF!**

MMSTC has a new face around the halls. **Mr. Scot Acre** joined the MMSTC team last January, teaching GAT and AP Calculus. When asked what drew him to the center Mr. Acre replied, "I am looking forward to working with and teaching unique students in very unique ways." Scot did his undergraduate work at Wayne State University and is currently nearing completion of his Masters degree from Michigan State University. At WSU Mr. Acre was a Varsity Tennis member and president of his residential hall. Some of Mr. Acre's other interests include reading, cooking, solving implicit differentiations and Euclidean constructions. When asked about his move to MMSTC, Mr. Acre's reply was "moving to MMSTC was one of the best decisions I've ever made." The MMSTC Teachers, staff and students are very lucky to have such a fine teacher join our ranks.







## **HALLOWEEN HIJINKS**

Success? Failure? In the process of planning the Annual MMSTC Halloween Party, it was hard to tell. The coordinators (seniors **Jordan Kroll**, **Chelsea** 

**Thomas** & I) were all in a tizzy trying to buy food, plan games, and publicize the event. Ultimately, the fretting was for naught; though the crowd was smaller than usual, they were incredibly enthusiastic! And what was astounding was the fact that... there was actual dancing.

For the first time in four years, eyewitnesses saw ghouls and fairies and celebrities *dancing* at the Annual MMSTC Halloween Party. After the impromptu dancing, there was mummy-wrapping, which involved bodily carting the successful mummy away. By the end of the night, an unheard of situation occurred: Guitar Hero was abandoned in the name of "limbo." Pizza was deserted for musical chairs. It was a phenomenal night filled with decorations and candy, and the time flew by! Eternal gratitude to **Mrs. Kincaid Dewey** for devoting her time to this endeavor, **Mr. Acre & Mrs. Brown** for chaperoning and **Mr. Supal** for setting up our sound system.

And, so, this is **Tammy Hsia** bidding the Annual MMSTC Halloween Party a final adieu.

# **History Made at Annual Senior Capture the Flag Event!**

This event came about five years ago as a way to lighten the stress of the ongoing senior research projects. Not only that, but the 2009/2010 school year is the first time that the morning and afternoon seniors of MMSTC have been together in the classroom. The goal was to get



both sessions interacting together to make new friends and get to know their classmates.

Under the guidance of the math teachers, the representatives of the Committee divided the senior class into two teams (RED and BLUE) using the

random integer feature on **Mr. Acre**'s graphing calculator. From there **Rebecca Pittman** and **Anna Salvaggio** created a fantastic logo, took t-shirt sizes, and collected money for the shirts.

On the chilly morning of October 16<sup>th</sup>, classes were dismissed halfway into After group photos, both the day. teams were given their colored flags to hide around Butcher Park. After some "creative" hiding, Mr. Acre made each team move their flags so that people could actually find it! The game was a success! Ms. Malone was a fantastic cheerleader and Mrs. Kincaid Dewey captured the memories on film. Everyone participated and the thought of pressing homework disappeared...at least for a little while. Frank Woo's tackle of Christian Ciobotaru made



ESPN Sport center's top ten plays of the day. The blue team found a way to get out of jail quicker through teamwork, which resulted in their capturing of the first (and only) flag. This marked the first time ever that a flag was successfully captured! The red team tried their own version of teamwork as time was winding down...unfortunately they barely made it past the line of scrimmage. In the after party, students brought in a plethora of snacks and goodies. The hit was the pumpkin cookies! Fun and laughter permeated the air in the Commons. Everyone wanted the game to last longer, and in a way, it always will.

# **Related Rates Projects**

Of course you solve story problems in math class. But what about story problems made up by students, with a working model of the problem?! That's exactly what the Seniors have been working on in their calculus class. From a tornado to an avalanche, from an exploding ego to a love triangle, from a lighthouse (that actually lights up and spins around!) to a house decorated with Christmas lights (that really turn on!), the seniors wrote creative problems and then the rest of the class solved them.

We're all about real-life applications at MMSTC!

# SOPHOMORE CAMP

On Tuesday, October 6<sup>th</sup>, the class of 2012 participated in an all day activities and team building camp. Learning to listen to the ideas of others, working together to accomplish an agreed upon goal, practicing the art of compromise, discovering personal academic strengths/weaknesses, as well as AM and PM students just getting to know each other a little better is what this sophomore camp was all about.





The day started with brief interviews and introductions of each other then proceeded to a rotation of different activities such as tie-dying class shirts, discovering their own unique personality and learning style and group initiative activities. After lunch, students signed up for events in the Mystery Olympics which had them creating original fashion designs, walking down a catwalk, and competing in an eating contest. Then we were off for a walk to the bowling alley where the students enjoyed a couple

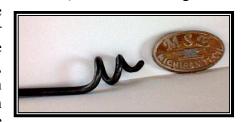
games of bowling, some playing for the very first time. As the day wound down, students reflected upon the day and then 'made' rain. Fun was had by all as many students thanked **Mrs. Cybulski**, **Mrs. Hilliard** and **Mrs. Kincaid Dewey** before they left for the day. To see a short slideshow of the day, go to the link "Sophomore Camp Pics" on Mrs. Cybulski's website (http://www.wcskids.net/mmstc/staff websites/cybulski.htm).

## **2009 SUMMER SPOTLIGHT**

Summer vacation is time to relax, spend time with family & friends and rejuvenate! MMSTC students also participated in a variety of summer activities as well. In addition to sports, music and marching band camps, our students also served as camp counselors [Horea Calimente (SHHS, class of 2010) and Nathan Sanchez (SHHS, class of 2011)] and traveled to far off destinations. Below are just some of the other programs that students told us about:

Jovan Popovich (Cousino, class of 2010) participated in the 2009 Ford Motor Company High School Summer Internship Program (unpaid) after going through a competitive application process which involved writing a 2500+ word paper on a subject relating to one of the Saturday session topics from the previous school year. Out of all who applied, only 10 interns were selected. Jovan wrote his paper on Materials Science and Processes in the Automotive Industry, and was accepted by the Power Electronics Division where he learned a great deal about electrical current and the functions of different electronic components, worked on battery impedance testing of the Escape Hybrid and presented his findings, and designed an operational amplifier circuit; Jovan's internship was extended to eight weeks due to the additional time needed to carry out tests.

Aurora Seidenwand (Center Line High School, class of 2011) went to Michigan Tech's Summer Youth Program: Women in Engineering. She attended classes in ten different fields of study under engineering, which were both hands-on and lectures. She learned about engineering from graduate students, professors, and engineers. Aurora's two projects, from the field of Materials Science are pictured. The object on the left was made in Blacksmithing and the one on the right is from 3D Metal Casting.



Christa Gibara (Cousino, class of 2010) participated in Kettering University's LITE- Lives Improve Through Engineering - Summer Program. She got a feel for campus life during her two week stay. Christa had the opportunity to experience courses/lab work for biomechanics, vehicle collision, organic chemistry and "green" engineering. Only 50 females are chosen for this competitive admission program. Christa received a \$20,000 for college studies at Kettering.

Karen Stabile (Cousino, class of 2010) attended the Oakland University Summer Mathematics Institute (OUSMI) this past summer. She took two college math classes -- Intro to Graph Theory and Design and Analysis of Algorithms -- with forty other high school students. The program



lasted six weeks, 7 hours a day, 5 days a week, but it was completely worth the time. The selection process included essay about her past experiences in math and future college and career

online goals and completing ten problems, which are still www.math.oakland.edu/ousmi09/prob.html. The professors were looking mostly for effort and thinking process in these problems. Karen said, "Above all, I enjoyed meeting the extremely diverse group of students in the program. I was one of 5 girls (out of 40). At lunch, I played basketball with some of the guys in the Rec Center. The first day I went to play with them, I asked the guys how we would split the teams. They told me that they usually play "Asians versus Indians," so I acted as an Indian for the game." Way to go Karen!



Madison Wallender (South Lake, class of 2012) attended the week long ASM Material Engineering Camp in Cleveland, Ohio. She worked with a team on a Failure Analysis group project involving a water heating tank using state of the art research labs at ASM (Materials Information Society) Headquarters and then her team presented their results. Madison said, "There were three students from France that attended as well as four French teachers/engineers! I made friends for life!"

Emma Chandler (SHHS, class of 2011) attended the National Youth Leadership Forum on Law and Crime Scene Investigation in Washington D.C. She visited different jails, courthouses and law schools as well as national memorials. She took part in a mock trial for the Supreme Court and heard from guest speakers including those from the Innocence Project. There was also a forensic expert that we talked to about a case via Skype. http://www.nylf.org/law/index.cfm

D.C. Wheaton (Lakeview, class of 2010): Attended the Nation Order of the Arrow Conference with approximately 7500 others AND earned Eagle Scout rank!

Chris Pleasant (SHHS, class of 2011) spent four days at Western Michigan University attending a summer Flight Academy. He stayed on campus, went up in a Cirrus SR-20, visiting L3 communications and learned about avionics. Also, Chris learned about aircraft engines and how to make flight plans!



**Patricia Pasque** (Cousino, class of 2011) attended a Lead America Camp for Aviation. Her participation involved ground school as well as piloting two planes. Patricia is now working toward her pilot's license.

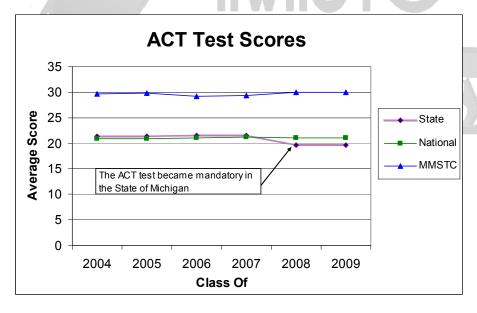
**Anna Swando** (Lakeview, class of 2010): Attended the Graphic Design Boot Camp at the Fashion Institute of Design and Merchandising in Los Angeles, CA. She worked with professionals in the entertainment industry to learn to edit video/audio and do graphic design. She edited a real movie trailer and made a movie poster.

**Matt Hoffman** (Cousino, class of 2010): Attended the College for Creative Studies Pre-College Experience for the entire month of July. He learned how to animate and use 3D modeling programs while living on campus and taking field trips to nearby art museums/events.

**Audrey Hutton** (Center Line, class of 2010) and **Matt Verkinderden** (Cousino, 2011) was involved in a People to People Delegation to China for 17 days. Traveling to Beijing, Shanghai, Xi'An, Suzhen and Hong King, they not only learned about China's history but about its present.

**Frank Woo** (Lakeview, class of 2010) went to China for the month of July with MSU's Chinese Bridge Summer Camp. He was immersed in the cities of Jilin and Beijing. Five hundred students from the United Stated attended, with 30 from Michigan. Each day he spent time learning the Chinese language & Chinese culture as well as touring places of interest.

**Jacob Theut** (SHHS, class of 2012) attended Media & Communication Arts Career Academy at Macomb College. He created animations and learned how to use Photoshop.



# COUNSELOR'S CORNER

Seniors: See
FAFSA (The Free
Application for
Federal Student Aid)
insert for timely
information on this
important piece of
the college
preparation process.

# HAPPY 140TH ANNIVERSARY PERIODIC TABLE!

In honor of the National Chemistry week 10/18-10/24 and the 140<sup>th</sup> anniversary of the periodic table, **Mrs. Hilliard**'s Advanced Placement and Chemistry students created an artistic tribute to the periodic table. Students researched their assigned element to gain the inspiration to produce an artistic interpretation of that element. For example, students might represent their element by the person who discovered it, the building where it was discovered, or any other connection they may have researched. Students could select any medium to convey their interpretation -- photo montage, comic book, oil painting, paper mache, or even simply using crayons. This project was inspired by The Periodic Printmakers Project which can be viewed at: http://www.azuregrackle.com/periodictable/table/



Not only did students find academic value in the project, but they also saw that science is not only rooted in mathematics and technology, but in art as well.







Dr. Robert D. Livernois, Ph.D. Brian Walmsley, Chief Academic Officer

Macomb Math Science Tech Center Lauran Hoven, Director of Special Programs MMSTC Newsletter Committee: MMSTC staff Printing and Distribution: Secretarial Staff

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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.

In compliance with Title VI of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, Section 504 of the Rehabilitation Act of 1973, the Age Discrimination Act of 1975, the Americans with Disability Act of 1990, and the Elliott-Larsen Civil Rights Act of 1977, it is the policy of the Warren Consolidated Schools that no person shall, on the basis of race, color, religion, national origin or ancestry, gender, age, disability, age, height, weight, or marital status be excluded from participation in, be denied the benefits of, or be subjected to, discrimination during any program, activity, service or in employment. Inquiries should be addressed to the Chief Human Resource Officer, 31300 Anita, Warren, Michigan 48093, (586) 825-2400, ext 63110.

#### **Student Achievement**

A focus on measurable student achievement in our Professional Learning Communities.

## **Clear Expectations**

Clear expectations for every stakeholder, including students, staff and parents.

#### **Strong Relationships**

Strong relationships among all stakeholders, including: teacher/student, parent/teacher, principal/teacher, and superintendent/board member.