



TEAM BUILDING SOPHOMORES

Friday October 20th the sophomore class participated in an all day team building camp. Teaming – learning to listen to the ideas of others, compromising, working together to accomplish an agreed upon goal, students discovering their strengths and weaknesses, and morning and afternoon students just getting to know each other a little better is what this twelve hour camp was all about.

The day started with brief interviews and introductions of each other then proceeded to a game of towel volleyball where if they didn't work together they found out the towel would just rip. Then off for a walk to the bowling alley where the students enjoyed 3 games of bowling. After lunch, students signed up for certain events in the mystery Olympics which had them doing such things as walking down the catwalk in front of their peers in student fashioned paper diapers to competing in a burping contest. Next students were assigned to groups to follow a rotation of team building/educational activities such as paper airplane contests, making fractals, and discovering their unique learning style. As the day wound down, they sang math songs and made rain. I believe fun was had by all, as many students thanked us before they left for the evening - and that made everything worthwhile.



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FRESHMAN HOMECOMING

The Class of 2010 held the Seventh Annual Freshmen Homecoming! Parades and float building events were highly attended.

The 9A "Peanut Butter Jelly Time" ran all over the invited 10A "Santa's Helpers." The game was stopped as a mercy. **Ryan DuTour** was selected by the winning team as the "Most Valuable Player" after he pulled in seven touchdown passes thrown by **Cristian Ciobotaru**.

The 9C "Pink Bunnies" lost a heartbreaker to the 9B "Cookie Crumblers" by a sudden-death field goal made by "Most Valuable Player" Jake Gleason. It was hard to detect that it was actually Jeff Carothers who was dressed as the "Crumbler" mascot.

The halftime performances (from both the morning and afternoon marching bands) were obviously "much-practiced" precision marching demonstrations for the "standing-room only" crowd's delight. The gymnastics executed by the "Bunnies" while attempting a human pyramid was of questionable quality, however, DC displayed both grace and agility as he performed a dance routine with the grill in the parking lot.

Chef Estapa expertly grilled hot dogs over the roaring bonfire, and huge prizes were awarded for skills displayed in all three sections.



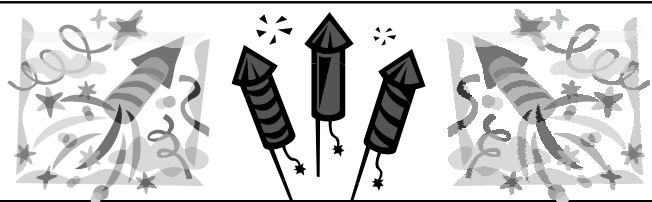
OCTOBER SKY

Students at MMSTC have been using a computer aided design package known as Solid Works since their sophomore year. They have created CAD models of various real products ranging from chemistry glass wear, to Pi bling, and now, in their junior year Technology Class, they are creating model rockets.

Each part of the model rocket is being designed and tested. This includes the more important pieces such as the nose cone, fins and body tube. After completion of their designs, students worked in the technology lab where they used various machines to fashion the rocket parts out of balsa wood, foam, and cardboard.

This year, MMSTC has a new machine known as a VersaLaser to rapidly cut 2 dimensional parts. It's a very simple and quick operation to send a design to the VersaLaser which rapidly scrolls through soft materials such as plastic and balsa wood under computer control. Shown below are students holding fins taken right out of the VersaLaser machine.

Also this year, students combined mathematics and physics equations together into a Java program to predict the performance of their rockets. The rockets were launched and their measured altitudes were compared against the results from the Java simulation. Shown below are several students with their rockets.



CAPTURE THE FLAG!

This year the newly appointed Senior Class Committee of 2007 decided we all needed an event to lighten the stress of our ongoing research projects. Not only that, but the 2006/2007 school year is the first that the morning and afternoon seniors of MMSTC have been together in the classroom. The goal was to get both sides of Butcher 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 and left it up to them to decide their team name, color, and shirts. The two teams became the black-clad "**Big Joe and the Jackson 28**" and the red "**Sup's Kitchen.**" Thanks to our very supportive Committee, we were able to purchase T-shirts and puff-paint that the students used to show their team spirit. If you read between the lines, you're sure to catch an inside joke or two (or maybe ten).

On the chilly morning of October 5th, classes were dismissed halfway into the day. After group photos and snacks, both teams were given their colored flags to hide around Butcher Park. With Sup's Kitchen on the playground and the Jackson 28 hidden around the trees--it was show time!

The game was a success! Everyone participated and the thought of pressing homework disappeared...at least for a little while. The Jackson 28 found a way to escape from jail quicker through teamwork. Sup's Kitchen hid their flag a little *too well*...that is, at least in a place no one was willing to retrieve. Everyone had fun and there was laughter all around. We all wanted the game to last longer, and in a way it always will.

Final score? "It was a tie -- both teams cheated!" ~ Patricia Giacona-Wilson



SENIOR SUMMER LEARNING

MMSTC students took the summer of 2006 to explore, learn, grow, and experience a wealth of opportunities. The following list of seniors participated in activities both locally and nationally:

- **Madeline Barick** took an Economics class at Macomb Community College.
- **Ramsay Brasza** - Summer Engineering Exploration Program at the University of Michigan through the Society of Women Engineers.
- **Christopher Franco** took classes at Macomb Community College in Biology and Humanities.
- **James Geyman** took an Economics class at Macomb Community College.
- **Bethany Morrell** Was on the Youth Steering Committee for the New Detroit Race Summit.
- **Caitlin O'Gara** attended the Seidenberg Scholars Summer Experience at Pace University in New York City (Computer Science Camp).
- **Rhett Rayos** took an Economics class at Macomb Community College. He also went to the Junior Statesmen of America Congressional Workshop. This was a Summer School Program at Georgetown University.
- **Amy Saelen** took part in LITE Program (Lives Improved Through Engineering) at Kettering University.
- **Adam Stone** spent a week at the University of Michigan Swim Camp.
- **Monica Tadros** took classes at Macomb Community College in Biology and Humanities.
- **Lauren Weiss** took Spanish I at Macomb Community College.
- **Ryan Wrubel** took a class in Spanish at Macomb Community College.
- **Amelia Zessin** has spent the last four summers volunteering at the Crow Indian Reservation in Crow Agency, Montana.

MOLE DAY

On October 23rd 2006 from 6:02 am to 6:02 pm chemistry classes across the nation celebrate the Mole Day and **Amedeo Avogadro's** number (6.02×10^{23}). This is not the pesky creature that plagues our lawns, rather for a given molecule, one mole is a mass (in grams) whose number is equal to the atomic mass of the molecule. For example, one water molecule has an atomic mass of 18 grams, therefore one mole of water weighs 18 grams.

To help grasp this abstract concept, students calculated one mole of some common household objects to illustrate the sheer volume of a mole. For example, if you had Avogadro's number of un-popped popcorn kernels, and spread them across the United States of America, the country would be covered in popcorn to a depth of over 9 miles. If we were able to count atoms at the rate of 10 million per second, it would take about 2 billion years to count the atoms in one mole.

After calculating moles in FST, sophomores created a PowerPoint presentation with all of their new mole facts in IDS, as well as plush mole mascots in chemistry. Some of the crowd favorites are featured below. It isn't everyday that you get a sewing lesson in chemistry, but the nimble fingers of our MMSTC sophomores crafted some amazing moles and lasting memories.



SENIOR RESEARCH

The IDS, math and science departments are happy to report that senior research is in full swing. Most of the teams are currently completing their data collection phase and are eager to pull everything together in their conclusions.

This year the biology topics range from perfecting the isolation of DNA from chive plants to testing the expansion and contraction of isolated striated muscle. Physics students are exploring the world of transistor use and the use of different materials during insulation studies as well as a variety of other topics. Chemistry students are pressing the limits of their knowledge with uncovering the hidden world of the molecule and how it interacts with its surroundings.

The projects are scheduled to end before the holiday break and presentations commence immediately after their return from the New Year break. The entire program is looking forward to an excellent set of research projects and presentations.

Special thanks go out the superior math department at the Center for their work with the students in selecting the proper statistical analysis to support their research results.

~ Mark Estapa



MMSTC HAS A NEW DIRECTOR!

Mrs. Lauran Hoven comes to MMSTC with a wealth of experience and exciting new ideas to enhance what she feels is already an excellent place to learn and grow. She is proud to be associated with a school that has a reputation as one of the leading college-preparatory schools in Macomb County. Her enthusiasm and excitement are evident daily. Mrs. Hoven can be seen whipping around the hallways early in the morning, popping in and out of classrooms and greeting the students and staff with her “energizer bunny” smile, attitude, and genuine concern for all.

Mrs. Hoven comes to us after serving as Assistant Principal at Warren Mott High School. Prior to settling down in Michigan with her husband and two college age children she was Director of Special Programs in Dayton, Ohio. Mrs. Hoven is a graduate of Auburn University in Alabama and received her master's degree at Xavier University in Cincinnati, Ohio. She is happy to once again be a part of a building that services several special programs for young adults. In addition to working with MMSTC she is also the director of Community High School housed here at Butcher.

What little spare time she has, Mrs. Hoven enjoys traveling with her husband and spending time with her son and daughter who are both attending Western Michigan University. Mrs. Hoven has the highest regard for the faculty and students here at MMSTC. She recognizes the kind of hard work, dedication, commitment, and spirit it takes to be a part of such a school. She is looking forward to working with everyone to develop and promote personal and academic growth. She envisions that one day MMSTC will be a model for high schools across the state promoting intellectual, creative, ethical, social and technologically advanced students who will help lead and shape our future.



New Director, Mrs. Lauran Hoven.

WALK FOR CANCER

Last summer, **Chelsea Diem**, class of 2005, organized a team of walkers for the 3-Day 60 mile cancer walk. **Julie Reno**, class of 2005, and **Mrs. Copeland** walked with her team. Their team raised over \$25,000 for breast cancer research. Currently Mrs. Copeland is collecting returnable cans so that the money can be donated to next year's walk.



Fall 2006/Winter 2007 High School Planner

Freshman/Sophomore

- Meet with your guidance counselor to discuss classes and available activities.
- Plan which classes to take during high school
- Join clubs and activities. Take the lead when possible
- Keep in contact with teachers, counselors and activity advisors who you connect with. They can write recommendations and serve as mentors later.
- Talk about saving for college with your parents/family.
- Search for scholarships and colleges on www.fastweb.com
- Volunteer—It's great experience!
- Sophomores: Take the PSAT. If you can, take a peek at the SAT/ACT to get familiar with it.
- Begin to think about a future college choice. Remember that you have time to explore what you want in a college before you commit.
- Ask your high school counselor about contacting former students about picking a school.
- Research summer programs. Ask your counselor or teachers about any academic, internship or work opportunities in your community

Junior

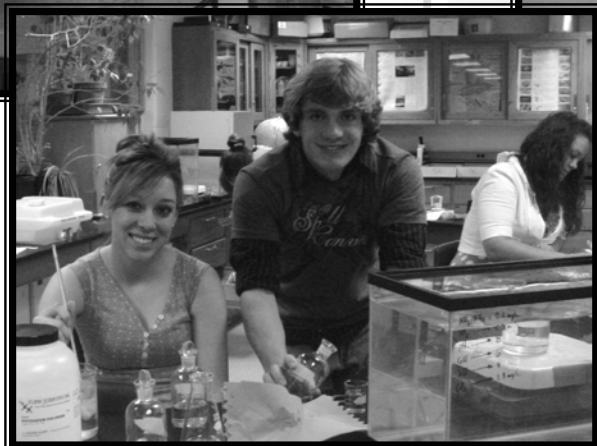
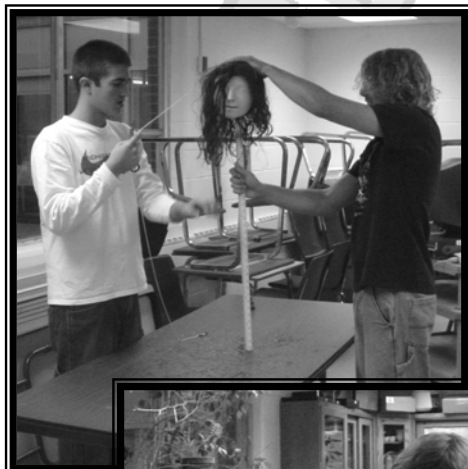
- Explore financial aid options and college planning with your parents/family.
- Take the most challenging courses you can. Admissions offices look for challenging coursework.
- Research prospective colleges using FastWeb's College Search. Find and contact a matching college at www.fastweb.com
- Use your FastWeb results to visit prospective colleges' Web sites
- Attend college fairs and speak to campus representatives
- Sign up for college entrance exams. – the SAT and/or ACT. Find test prep information through CollegeBoard, ACT and www.fastweb.com
- Go to www.fastweb.com to search for scholarships and part-time jobs.
- Take leadership roles in clubs, activities and other volunteer and service organizations.
- From which teachers, advisors or counselors might you want a recommendation? Provide a list of activities and accomplishments as a reminder of your work

Senior

- Fill out the Free Application for Federal Student Aid as soon as you can after January 1, 2007. Find the FAFSA online at: www.fafsa.ed.gov. You'll need a PIN (www.pin.ed.gov) to sign the FAFSA online.
- Request applications and brochures from your target colleges. Use FastWeb's College Search at www.fastweb.com to help narrow your college choice.
- Take the SAT and/or ACT in the fall, if you haven't already
- Take honors or advanced classes. Challenging courses show that you are prepared for college coursework.
- Schedule interview with prospective colleges. Practice your interview skills before heading in for the actual interview.
- If possible, visit your prospective colleges before you make your final decision. If you cannot travel, see if any schools offer a virtual tour online.
- Set up a budget for college and application costs.
- Get your applications in order by creating files for target schools. Make a list a application requirements (essays, transcripts, recommendations, etc.) and deadlines for each.
- Create your own personal timeline or use the calendar on www.fastweb.com for the process
- Request letters of recommendation from teachers and employers at least three weeks before you need them. Provide a list of accomplishments for their reference.
- Work on college application essays
- Look for part-time jobs and internships on www.fastweb.com. Find the volunteer work in your community or through your school.



MORE MMSTC PHOTOS



MMSTC HALLOWEEN PARTY

Do we know how to throw a party, or what? Fabulous decorations, creative costumes, great music, a special appearance by a LIVE band, games, limbo, DDR and more made MMSTC's 2nd annual Halloween Party a "spook-tacular" event! Students from all grade levels enjoyed the efforts of this year's organizing committee (**Grace Hsia, Rebecca Piazza, Rashmi Patil, Valerie Zeer, Dona Chan** and more). Once again this year, "Santa" **Tony Grittini** took grand prize in the costume contest, with Superwoman **Melissa Arthur, Lisa "Dorothy" Kwaitkowski,** and Mario "sisters" **Lauren Weiss** and **Patricia Giacona-Wilson** rounding out the top four winners, decided, of course, by our decibel meter. The band, **Port Orange**, with MMSTC's own **Jeff Hill** on guitar, **Eric Thompson** on drums and guest **Andrew Templeton** on guitar rocked the house. Thanks to all those who helped, loaned equipment, donated goodies and organized this event, as well as to **Mrs. Kincaid Dewey, Mrs. Hilliard, Mr. Supal, Mrs. Brown, Mrs. Hoven** and **Mrs. Arthur** for chaperoning. Food, fun and friends made this a party to remember!



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David Walsh, Associate Superintendent,
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MMSTC Newsletter Committee: A collaboration of
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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.

Warren Consolidated Schools is committed to the concept of equal employment opportunity as a necessary element in its personnel program. It is the policy of the district to prohibit discrimination on the basis of race, color, sex, age, religion, national origin, height, weight, marital status, handicap, or other characteristic in concordance with the law. Compliance inquiries should be addressed to the Assistant Superintendent for Human Resources, 31300 Anita, Warren, MI 48093. (586) 825-2480

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