



**SPECIAL INTEREST
ARTICLES:**

- * SIZZLIN' SUMMER SCIENCE
- * 2010 — 11 PARENT ASSOCIATION OFFICERS
- * KAMSC CLASS OF 2010
- * CLASS OF 2014

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KALAMAZOO AREA MATHEMATICS AND SCIENCE CENTER
Keeping KAMSC Families Informed

From the Director's Desk

We have recently ended another amazing year at KAMSC. It is now time to relax and rejuvenate as we pursue our summer dreams. It is also time to reflect on the past as we plan to embrace the challenges of a new school year.

It is evident that science, mathematics and technology remain at the top of the list for many young students. The hallways of KAMSC quickly filled with younger minds, excited by the opportunity to become engaged in the learning of science and mathematics through the *Sizzlin Summer Math and Science Program*. Many KAMSC students are working with them as they pursue their dreams.

The 2010 class of 68 students received over \$3.2M from the institutions of their choice as they matriculate to colleges around the nation. KAMSC students were the recipients of many awards and recognitions. The research team continues to compete with the best, with four students participating in the Intel International Science and Engineering Fair in San Jose, California in May. One student placed first in the astronomy and physics division. The KAMSC team placed fourth in the engineering materials and bioengineering division. Students placed 1st and 2nd in the *All Star International Invitational* competitions this spring. KAMSC students are competitive with other young students around the world. *Congratulations!*

In preparation for the 2010-2011 school year, the class of 2014 has been selected. We welcome them to the KAMSC family and look forward to endless challenges and memorable learning experiences. We remain cognizant of the transition between middle school and high school for ninth graders and we will work to make the transition into KAMSC as seamless as possible. We are committed to providing a nurturing and supportive network of students, teachers, parents and staff. We hope to create within each student a sense of connection and belonging as they navigate through a *challenging* learning environment.

We look forward to many eager and excited learners in the fall, both new and former students. We are excited about serving you and anticipate the many opportunities for growth and learning by staff and students.

Parents, thank you for your support throughout the year. Please remember to become an active participant in the *Parent Organization*. We can all make a difference in the lives of young people.

Have a safe and fun filled summer.

Sincerely,

Brenda Prater Earhart, Ed.D
KAMSC Director

Thank You Parents!

To the Parent Organization committee members, Senior Activities committee members, Ambassadors, drivers, and all the parents who helped in any way to make the 2009-2010 year a productive year, Thank You. Parents are important at KAMSC and the KAMSC staff says, THANK YOU TO ALL PARENTS for the time you volunteer at KAMSC. A special "Thank You" for the wonderful luncheon provided at the end of the school year.

9th Grade Student Orientation

We look forward to members of the class of 2014 spending time together in the relaxed environment of the Kalamazoo Nature Center getting to know each other. This is where it all begins – through several team building activities and games, facilitated by KAMSC's students and alumni, they begin to embrace the fact that they, too, are members of the KAMSC family. The orientation will be held on Tuesday, August 31st, at the Kalamazoo Nature Center from 2:00 to 5:00 p.m. The afternoon of fun will end with an ice cream social. There will be a Parent Meet and Greet from 4:30 to 5:30 p.m.

2010 KAMSC Open House

On Wednesday, September 15, KAMSC will host an Open House. The schedule for 9th and 10th grade classes begins at 6:25 p.m. and 11th & 12th grade classes begin at 7:20 p.m. All parents are invited to attend.

Parent Association 2010-2011

Chairperson	Zaf Khaja
Treasurer	Robin Perrault
Secretary	Doris Beck
Parent Ambassador Coordinators	Shirley Freeman
Volunteer Coordinators	Norma Weir
Phone Caller	Vacant
Funding Committee Chair	Zaf Khaja
Senior Activities Chair	Karen Krinock

Please watch for important parent organization volunteer information in the upcoming – 'back to school' newsletter. We are currently looking for ambassadors for the 2010-2011 school year. This is not a difficult job, but is important. If you are interested please contact Shirley Freeman at 381-8208.

Project Day

Project Day was held on Thursday, May 20, 2010 at KAMSC. Students displayed their projects throughout the KAMSC area. They were available to answer questions about their projects. The program was open to KAMSC parents and the general public.

Senior Activities Committee

The recognition of 68 students from KAMSC on June 1 wrapped up the year for the Senior Activities Committee. The committee put together the Senior Tea in December, held at the Epic Center in downtown Kalamazoo; the KAMSC Senior/Staff Luncheon, held in April at the Kalamazoo Country Club, and then helped organize the May Recognition Ceremony.

The committee wants to extend a special thanks to Dr. John Goudie for putting together the senior slideshow and for his help throughout the year and thanks to all the senior parents for their generous support in so many ways. The committee also extends thanks to junior class parents who organized the reception following the Recognition Ceremony.

Sizzlin' Summer Science – 2010

Maybe you're one of those KAMSC parents who remember bringing your child to the center's doors for summer classes where your child explored driving interests that added appeal to math, science & technology. Some of the current staff ARE former students, in a summer enrichment-science and math program that is now nineteen years old and offers eight weeks of widely varied classes every year.

Staffed by session leaders and assistants from all over the region, many of which are KAMSC students and graduates, the Sizzlin' Summer Program at KAMSC continues to put a gleam in the eyes of several hundred future science/math/technology experts each year, from first grade into high school. Classes usually run two hours a day for either one or two weeks and students take anywhere from 1 to 14 classes. The average per student is two classes.

The tuition-based program is as affordable as possible, but about 20% of students every year have some form of financial assistance. About half of them receive assistance from an internal program fund and the rest from a variety of schools, companies and organizations that choose to put some of their community service money into helping students stretch into science and math. If you know of an organization or individual that would like to help with summer financial assistance, please contact Ms. Fisher at 337-0004.

A Note from the Parent Organization

At the close of the school year we reflected on the privileges of spending part of our lives with the KAMSC community, a privilege that bears with it obligations and responsibilities. The KAMSC Parent Organization accomplished many projects this year thanks to all the devoted parent volunteers for a combination of teamwork and drive to share a common goal of helping our children in their quest for educational success.

We experienced the enthusiasm first hand of KAMSC's extended family whether in helping by donating food, working on mass mailings, chaperoning social events or as Parent Ambassadors, advisors and mentors. Many parents donated their time and talents on committees, proctored the Entrance Exam for prospective incoming students, drove students to competitions all over the Country, organized senior class activities, and helped in countless unsung ways. Without your help this would not have been possible.

With your help, the Parent Organization was able to provide honorariums for speakers, offer science fair awards to students, help with student travel to compete at national, state and local Science, Computer, Math, Envirothon and other competitions, purchase items for classrooms, and run our Community Pi Day!

Finally, a special thank you to the KAMSC staff. Our children experienced the opportunity to learn from bright, energetic, diverse faculty who have chosen to teach at KAMSC because of the strong connections and relationships they create with students not only in the classroom, but also as great advisors, role models and companions to our students, contributing to the success of our children's ambitious goals.

The year in retrospect has heightened our sense of community while creating a joint ownership of KAMSC as we embrace tomorrow's opportunities and challenges. We thank you and look forward to your continued involvement with KAMSC.

Zaf Khaja, President

Student Senate

Student Senate President	Alex Liou
Student Senate -Vice President	Tracy Broomell
Student Senate -Treasurer	Lauren Raycraft
Student Senate - Secretary	Ben Wang
Senior Student Senate Representative	Colleen Unsworth
Junior Student Senate Representative	Elaine Chu
Sophomore Student Senate Representative	Phoebe Huang
Freshman Student Senate Representative	To be determined
Student Senate Parent Advisor	William Liou

**An Awards program was held on May 20 for KAMSC students and parents.
Many of the awards are listed on the following pages.**



Kevin P. Chao Memorial Scholarship Director's Award

This scholarship, established by family and friends in memory of Kevin P. Chao, provides financial assistance to students who exhibit characteristics similar to those for which Kevin is so fondly remembered. These characteristics include the achievement of personal and academic goals, competitive spirit, leadership, high respect from everyone he encountered, and a special caring for his fellow man. This year's recipient is Sidney Helmer.

High Honors

Kaitan Kothari Memorial Scholarship

This scholarship, established by family and friends in memory of Kaitan Kothari, provides financial assistance to students who exhibit characteristics similar to those for which Kaitan is remembered. These characteristics include academic achievement, leadership, and competitive athletic ability. This year's recipient is Jacob Leung.

Medallion Awards

Senior medallion criteria:

improvement and growth, active participation, consistent performance, contribution to classroom and school environment and awareness of the feelings of others.

Recipients:

- | | | | |
|----------------|----------------------|-------------------------|-------------------------|
| Sarah Bertman | Alisha Kumbhoj | Patma Mirza | Jacob Texel |
| Chad Blythe | family Kojima | Luak Othare | Benji Vasisth |
| Reid Blanchett | Desik Kainoch | Elizabeth Peris | William Vorbrich |
| Caitlin Brude | Adhish Langley | Madeleine Price | Benjamin Wang |
| MaShorle This | Jacob Leung | Gregam Rajagopal | Matthew Weaver |
| Dustin DeMink | Adena Leibbrand | Janna Raphelson | Laura Wheeler |
| Mary Farner | Jacob Leung | Dustin Rowland | Stuart Wheaton |
| Jenna Fiore | Jiangrui Lu | William Sawyer III | Beatriz Wink |
| Lisa Freeman | Riley Lundquist | Grady Sertic | Kelsey Wiers |
| Larlyn Green | Paige Maguire | Rebecca Sigourney | Isabella Wu |
| Lucas Hamelink | Sarah Manski | Patrick Smith | Cole Wunderlich |
| Sara Helmer | Chelsea Angel | Sauray Lohani | |
| Tibin John | Evan Fletcher | Carvin Studebaker | |
| | Virginia Greenberger | Travis Mazer | |
| | Sidney Helmer | Kyle Sunden | |
| | Lucas Kushner | Julia Miller | |
| | | Anthony Spalvieri-Kruse | |
| | | Agne Sriubaite | |
| | | Ravi Kothari | Naureen Rashid |
| | | Rylee Robb | Melinda Rietkerk |
| | | Joseph Ruddy | Arren Kaply |
| | | Nathan Kujaczinski | Alex Robinson |
| | | Dustin Rowland | Derrick Rohs |
| | | Calvin Studebaker | Rachel Rudlaff |
| | | Hanna Labelle-Fahn | Kristina Rushlau |
| | | Ben Vander Sloot | Robert Schultz |
| | | Ben Wang | Cameron Schwartz |
| | | Jeremy Lantis | Christopher Schwartz |
| | | Kelsey Wiers | Radhika Sharma |
| | | Keenan Lee | Sanjay Sharma |
| | | Elizabeth Lenning | Devin Sharp |
| | | Alexis Lockett | Jake Siebers |
| | | Sauray Lohani | Anthony Spalvieri-Kruse |
| | | Grady Sertic | Agne Sriubaite |
| | | Scott Manski | Thomas Stankewicz |
| | | Kyle Sunden | Casey Sunde |
| | | Travis Mazer | Christina Tarn |
| | | Matthew Weaver | William Thayer |
| | | Benjamin Mehne | Andrew Uggeri |
| | | Laura Wheeler | Colleen Unsworth |
| | | Kevin Michael | Megan Walsh |
| | | Allyson Williams | Hannah Ward |
| | | Julia Miller | Allyson Williams |
| | | Robert Heidberg | Jack Winnard |
| | | Colore Mentoe | James Wright |
| | | Zarth Stalmeidt | Jing Xiao |
| | | Melachira Vargisapal | |
| | | Rashdy Wadwaise | |
| | | Phillip Wilder | |
| | | Daniel Wyler | |
| | | Zoe Nokomis | |
| | | Lincoln | |
| | | Andrew Pennault | |
| | | Alexandra Pines | |
| | | Austin Podoll | |

Junior medallion criteria:

most outstanding students during the junior year at KAMSC based upon a strong record of academic accomplishment, active participation in the classroom, highly self-disciplined and motivated to excel, and clear evidence of learning "beyond" the classroom.

Recipients:

- | | | | |
|-------------------|---------------------|--|--|
| Abigail Ahlert | Ryan D'Mello | | |
| Melinda Alberty | Madeline Davis | | |
| Long Anderson | Devin D'Amico | | |
| Glencarlo Anemone | Samir Deshpande | | |
| Chelsea Angel | Abigail Ahlert | | |
| Abram Banschbach | Tracy Broomell | | |
| Nigel Beaton | Hannah Duke | | |
| Jacob Beck | Mallory Busso | | |
| Matthew Beck | David Eckrich | | |
| | Darci Curwen-Garber | | |
| | Andrew Elfruru | | |
| | Fatima Mirza | | |
| | Mariel Fink | | |
| | Evan Fletcher | | |
| | Kendall Gordon | | |
| | Julia Hamilton | | |
| | Reid Blanchett | | |
| | Ben Harmsen | | |
| | Kaitlyn Harrison | | |
| | Jager Hartman | | |
| | Sarah Manski | | |
| | Andrew Hassevoort | | |
| | Will Sawyer | | |
| | Dylan Hawthorne | | |
| | Robert Heidberg | | |
| | Clair Hooing | | |
| | Daniel Houtrouw | | |
| | Rube Huberty | | |
| | Suyaj D'Syad Husain | | |
| | Amin Cooper | | |
| | Sheldon John | | |
| | Jasmine Johnson | | |
| | Asshina | | |
| | Mariana Kaps | | |
| | Daniel Karr | | |
| | Grace Kiel | | |

Freshman medallion criteria:

participation, enthusiasm and leadership selected by KAMSC as instructors and students.

Recipients:

- | | | | |
|---------------------|-----------------|--|--|
| Haine Chu | Thomas | | |
| Riley Claffin | Cassie | | |
| Taylor Clements | Suyaj D'Syad | | |
| Stephen Coles | Joshua | | |
| Hailey Cook | Joy Ruth | | |
| Olivia Cordes | Jasmine Johnson | | |
| Mitchell Couley | Asshina | | |
| Jenna Courtney | Mariana Kaps | | |
| Elizabeth Crandell | Daniel Karr | | |
| Darci Curwen-Garber | Grace Kiel | | |

Awards of Academic Achievement

Each year academic achievement awards are given to students at the Awards program. The Director's Award, given for four years of straight A's is limited to seniors. High honors is awarded for all A's and one B. Honors is earned for all A's and B's and one C.



Calculus League Competition

The Calculus League Competition is open to all students who are either enrolled in or have completed a Calculus course. It consists of a series of 4 timed tests that take place during the year, and parallels the development of concepts and skills in differentiation and integration. This year, KAMSC's top competitors were: Tied for 3rd place with 31 points each: Matthew Weaver, Christopher Hoorn and Dustin Rowland. In 2nd place, with 32 points: Saurav Lohani. In 1st place with 33 points: Tibin John.

53rd Annual Michigan Mathematics Prize Competition

In October, KAMSC had 210 participants for Part 1 of the 53rd Annual Michigan Mathematics Prize Competition, sponsored by the Michigan section of the Mathematical Association of America. The top 10% of Part 1 scores statewide are invited to take Part 2 in December. The following students qualified for Part 2:

Melinda Alberty	Alan Alvarez	Chad Bilicke
Devin Dereski	Evan Fletcher	Sidney Helmer
Phoebe Huberty	Tibin John	Derek Krinock
Abhiram Krishnan	Cooper Kudary	Katie Lee
Alex Lim	Jiangrui Lu	Fatima Mirza
Dustin Rowland	Grady Sertic	Anthony Spalvieri-Kruse
Steven Vorbrich	Lucas Waling	Matthew Weaver
Isabella Wu	Jing Xiao	

Tibin John earned the highest KAMSC score for Part 1.

Isabella Wu's combined score on Parts 1 and 2 placed her in the Top 200 statewide.

2010 American Mathematics Competition 10/12

In February, 102 KAMSC students took part in the AMC-10/12 competition, sponsored by the Mathematical Association of America. Of those, Anthony Spalvieri-Kruse earned the highest score for the AMC-12 and Kevin Li earned the highest score for the AMC-10. Both received a special certificate of achievement.

Michigan Math League

The Michigan Math League Contest consists of six contests that are given throughout the school year. Each competition consists of six problems. Tibin John, Calvin Studebaker and Isabella Wu earned the highest cumulative score at KAMSC.

Congratulations to all of these individuals for their mathematical efforts.

Advanced Physics Book Award

Criteria: Given to a student who has demonstrated sustained enthusiasm and curiosity for the subject, gone above and beyond what is required in his/her pursuit of understanding physics.

Recipient: Lucas Kushner

American Chemical Society Exam Finalists

Luke Anderson	Giancarlo Anemone	Nigel Beaton	Jacob Beck
Matt Beck	Raj Brueggemann	Stephen Coles	Mitchell Coulter
Madeline Davis	Dustin DeMink	Devin Dereski	Hannah Duke
Mary Farner	Lucas Hamelink	Ben Harmsen	Jager Hartman
Andrew Hassevoort	Tibin John	Daniel Karn	Andrew King
Cooper Kudary	Keenan Lee	Adena Leibbrand	Richard Lu
Paige Maguire	Sarah Manski	Travis Mazer	Elizabeth Penix
Grady Sertic	Calvin Studebaker	Kyle Sunden	William Thayer
Megan Walsh	Matthew Weaver	Stuart Wheaton	

American Chemical Society Top 20 – Final Scholarship Exam

Jager Hartman
Devin Dereski
Keenan Lee
Stuart Wheaton
William Thayer
Nigel Beaton
Tibin John
Andrew Hassevoort
Matthew Weaver

American Chemical Society Award For Outstanding 2010 KAMSC Senior in Chemistry

Congratulations to William Thayer

Chemistry Book Award

(10th Grade)

Criteria: This student has a curiosity and a passion for scientific investigation. Through research, he has discovered both the art and science of experimentation.
Grady Sertic



KAMSC Products . . .

For item descriptions and to view color options and order, go to KAMSCOnline.com then MALL. All proceeds from the sale of these garments go to support KAMSC.

Physics Book Award

Criteria: Given to the most outstanding student in the third year KAMSC Physics course; the student must have shown solid academic success, a strong work ethic, and a passion and curiosity for learning.

Recipient: Sidney Helmer

Biomedical Science Book Award

Criteria: A strong desire to investigate the marvels of biology, high quality of work and a desire to go beyond the required.

Recipient: Lisa Freeman

Biology Book Award

Criteria: A demonstrated interest in the life sciences that goes beyond the classroom. Somebody for whom biology really “pops their twitzel”.

Recipients: Alex Lim

AP Biology Book Award

Criteria: A strong desire to investigate the marvels of biology, high quality of work and a desire to go beyond the required.

Recipient: Fatima Mirza

Asheesh Bedi Award of Research Excellence

Criteria: Demonstrated evidence of quality research.

Recipients: Abigail Ahlert, Evan Fletcher, Taryn Green, Virginia Greenberger, Julia Miller, Rachel Rudlaff

Phil Carra

“White Coat Award of Laboratory Excellence”

Criteria: Outstanding achievement for laboratory techniques.

Recipient: Julia Miller

Don Parfet Distinguished Service Award

Criteria: Kalamazoo Mathematics and Science Center staff recognizes and Honors the student for service contributions to the KAMSC community.

Recipient: Christina Tarn



Junior Engineering Technical Society

Varsity A

Matthew Beck Gina Calco
Megan Davis Evan Fletcher
Andrew Hassevoort Alisha Kamboj (Capt)
Ben Mehne Isabella Wu

3rd Place, Michigan Division 2
83rd in National Rankings

Varsity B

Melinda Alberty Abigail Ahlert
Sidney Helmer (Capt) Phoebe Huberty
Dustin Rowland Grady Sertic
Patrick Smith Calvin Studebaker

4th Place, Michigan Division 2
124th in National Rankings

A Special Thank You to Our Parent Drivers!

Congratulations to the winners of the 5th Annual Southwest Michigan Science & Engineering Fair

held on March 19, 2010, at the College of Engineering and Applied Sciences at Western Michigan University. Fifty students from the Kalamazoo Area Mathematics & Science Center and the Battle Creek Math & Science Center entered the fair in hopes of moving on to the Intel International Science & Engineering Fair held in San Jose, CA in May 2010 where students from around the world competed for prizes and scholarship money.



First Place Individual
Second Place Individual
Third Place Individual
First Place Team
Third Place Team

Evan Fletcher
Rachel Rudlaff
Abigail Ahlert
Mallory Busso, Lauren Raycraft
Chelsea Angel, Gina Calco

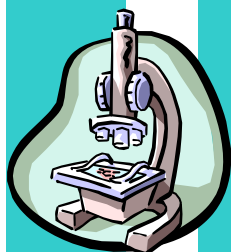
Following is a complete list of awards for the Fair:

First Place Individual	Evan Fletcher
Second Place Individual	Rachel Rudlaff
Third Place Individual	Abigail Ahlert
First Place Team	Mallory Busso, Lauren Raycraft
Third Place Team	Chelsea Angel, Gina Calco
Air Force Awards	Taryn Green, Julia Miller
Navy Science Award	Ryan D'Mello, Alisha Kamboj
Intel Excellence in Computer Science Award	Ben Mehne
Junior Science Humanities Symposium	Phoebe Huberty, 4th Place – went on to National Competition in New Jersey
Junior Science Humanities Symposium Competitors	Joe Billian, Ryan D'Mello, Evan Fletcher, Alisha Kamboj, Travis Mazer, Rachel Rudlaff, Radhika Sharma, Chelsea Angel, Gina Calco
KAMSC Parent Award	Fatima Mirza, Alexandra Morris

Research Team

Abigail Ahlert	The Effects of Proximal Metatarsal Osteotomies on Hallux Valgus Deformities 3rd Place Regional Science Fair
Joe Billian	Modeling the Mandibular Morphology of Eocene Mammals; A 3-D Laser Scanning Approach Junior Science Humanities Symposium Competitor
Tracy Broomell	The Facts versus Myths of Growing Obesity Rates in America
Taylor Clements	Variables that Control or Predict Temporal Variation in Water Levels in Lakes
Megan Davis	The Impact of Various Deicing Salts and Calcium Magnesium Acetate on the Growth of Radishes
Ryan D'Mello	Screening for Novel Immunomodulators Using Flow Cytometry Navy Science Award Junior Science Humanities Symposium Competitor
Andrew Elluru	The Effectiveness of Using an X-Cube for Enabling the Study of Continuous Hydrogenations and other High Pressure Reactions
Evan Fletcher	Reducing the Computation Time of a Galactic Interaction Simulation 1st Place Regional Science Fair Junior Science Humanities Symposium Competitor
Taryn Green	The Effects of Scoliosis Curvature on Lumbar Support for Task Seating
Virginia Greenberger	Mapping of Michigan County Diabetes Prevalence Resources and Medical Care Rates
Sidney Helmer	An Investigation into the Behavior of the First G-Model Predicting a Catastrophic End of the Universe
Phoebe Huberty	Lactation Cycle Secretions affect Bovine Mammary Cell Response to Staphylococcus aureus 4th Place Junior Science Humanities Symposium
Syed Husain	Determining the Presence of Coumarin in Varying Types of Vanilla through Liquid Chromatography
Sherin John	Environmental Factors Affecting the Rapid Increase in the Prevalence of Autism in America
Tibin John	The Effect of Drug Eluting Stents on the Behavior of In-Stent Thrombosis Incidence Rates in Diabetic and Non-Diabetic Patients
Tess Johnson	The Strength of the Evidence to Suggest Folic Acid is Associated with Alzheimer's Disease
Alisha Kamboj	Domestic Violence Prevalence Among Pregnant Women and Rate Of Identification Within Healthcare Setting Navy Science Award Junior Science Humanities Symposium Competitor





Lucas Kushner	The Effects of Processed Algae Biomass on Ethanol Production By Yeast Fermentation
Keenan Lee	Determination of Levels of Ascorbic Acid and Degradation over Time
Alex Liou	The Effect of External Stimuli on Hydrogels
Scott Manski	Physiochemical Properties of Desiccants – An Analytical Comparison of Sorption Strength, Capacity and Structural Characteristics
Travis Mazer	Evaluating the Economic Efficiency of Government Vaccination Programs
Junior Science Humanities Symposium Competitor	
Meaghan McCowey	Vaccines: Victims of their own Success and Links to Autism
Ben Mehne	An Equation-based Method for Storing Image Data
Intel Excellence in Computer Science Award	
Julia Miller	Using the Nuclear Gene Ccs (Cyclic Carotenoid Capsaicin) to Test A Previous Solanaceae Phylogenic Hypothesis
Fatima Mirza	Brain Hemisphere Volume Loss Difference by Gender in Alzheimer's Disease and Healthy Elderly
KAMSC Parent Award	
Alexandra Morris	Application of Vibrational Spectroscopies to Monitor Oxidation in Edible Oils
KAMSC Parent Award	
Rachel Rudlaff	Evaluation of the Killing Effects of Antibiotics with Equine Polymorphonuclear Neutrophils against Streptococcus equi and Rhodococcus equi
2nd Place Regional Science Fair	
Junior Science Humanities Symposium Competitor	
Radhika Sharma	The use of the King Laryngeal Tracheal Airway by EMT's for out-of-hospital Resuscitation
Junior Science Humanities Symposium Competitor	
Calvin Studebaker	The Potential of Clostridium sporogenes to produce 1,3-Propanediol from Glycerol
Casey Sunden	A Correlation Study Between Student's Facebook use and GPA
William Vorbrich	The Consequences of Head Trauma in Football and Possible Prevention Techniques
Megan Walsh	Assessing the risk of Modern Vaccines on Children and Adolescents
Hannah Ward	Analyzing the Rates of Staphylococcus aureus (MRSA) Carriage Between Families with Young Children and Pets
Isabella Wu	The use of Heterocyclic Aromatic Amines in the Presence of Chlorine to Oxidize Alcohols to the Corresponding Keyton

TEAMS

Emma Conner Madalyn Parker	The Evolutionary and Domestication History of Wild, Domesticated, and Weedy Radish <u>1st Place Team Regional Science Fair</u>
Gloria Han Nick Wright	The Performance of Vibrating Wire Strain Gauges (VWSG) with Respect to Repeatability and Reproducibility <u>2nd Place Team Regional Science Fair</u>
Stephen Coles Lauren Ripley	The Comparative Amounts of Resveratrol in Red Wine and Red Grape Juice <u>3rd Place Team Regional Science Fair</u>
Ryan D'Mello Alisha Kamboj	Determination of a Biomarker for Breast Cancer through a SELEX Procedure <u>KAMSC Parent Award</u>
Emily Slade Charity Tarn	Comparing the Effectiveness of Cumulative Summation, Shewhart, and Exponentially Weighted Moving Average Control Charts in Detecting Significant Shifts in a Data Stream <u>KAMSC Parent Award</u>

Information Technology Book Award

Criteria:	To an individual who far surpassed the class requirements throughout the year, in Informational Technology. To a person who not only accepted the challenge, but thrived on it.
Recipient:	Rebecca Sigourney

AP Computer Science Book Award

Criteria:	For four quarters of exceptional Academic Achievement in class and constant extra-curricular accomplishment outside of class.
Co-Recipients:	Mallory Busso, Syed Husain, Tibin John, Dustin Rowland, Calvin Studebaker, Jacob Texel, Ben VanderSloot, Ben Wang, Kelsey Wiers

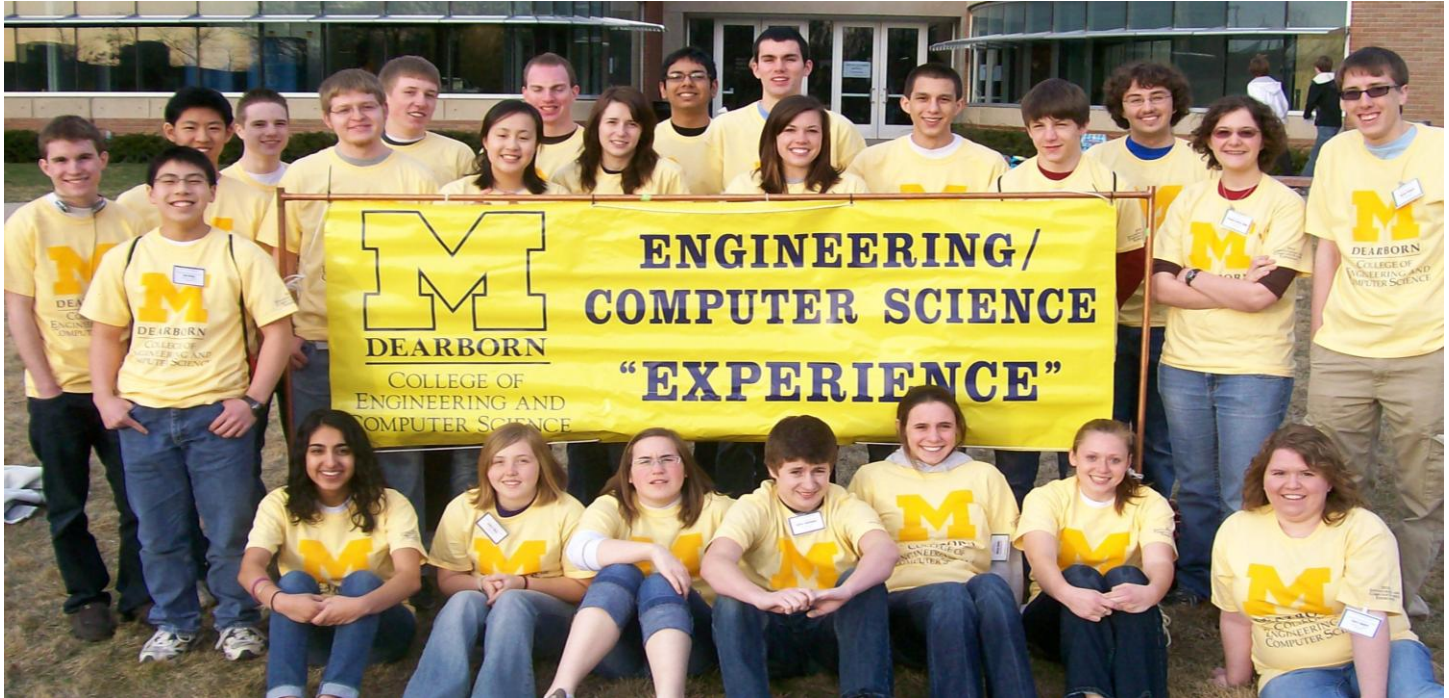
USA Computing Olympiad Awards

Gold Award:	Evan Fletcher
Silver Awards:	Syed Husain, Saurav Lohani, Ben Mehne, Dustin Rowland, Agne Sriubaite, Jacob Texel, Ben VanderSloot, Benjamin Wang, Isabella Wu
Bronze Awards:	Chad Bilicke, Caitlin Braun, Mallory Busso, Faiz Khaja, Patrick Smith, Calvin Studebaker, Matthew Weaver, Stuart Wheaton, Kelsey Wiers

Graduates –

Before you to go college, be sure you are protected against meningococcal meningitis.

Immunizations are available at the Kalamazoo County HSD Clinic, 3299 Gull Road. Please bring your immunization card. Students under 18 years must be accompanied by a parent or guardian. For more information, including current price, call 373-5240 or 373-5239.



KAMSC 2010 DEARBORN ENGINEERING AND PROGRAMMING TEAMS: Twenty-four Kalamazoo Area Math Science Center juniors and seniors—12 engineers and 12 programmers—teamed up in pairs to compete in the University of Michigan-Dearborn’s High School Engineering and Computer Science Experience. From left seated are Alisha Kamboj, Kelsey Wiers, Kes Nagler, Calvin Studebaker, Caitlin Braun, Mallory Busso and Casey Sunden. Standing from left are Dustin Rowland, Ben Wang, Alex Liou, Chad Bilicke, Ben Mehne, Alex Robinson, Isabella Wu, Jacob Lenning, Agne Sriubaite, Syed Husain, Stuart Wheaton, Lauren McGlenn, Faiz Khaja, Ben Vander Sloot, Even Fletcher, Brianna LaBelle-Hahn and Derek Krinock. The team of Fletcher and Vander Sloot placed 2nd overall in programming, each earning \$200 Barnes & Noble gift cards. Busso and Braun finished in the Final Four engineering teams and were each awarded \$100 gift cards.

ACSL CLASSROOM WINNERS 2010



2009-2010 American Computer Science League Classroom Contest Winners: Three Kalamazoo Area Math Science Center students proved their versatility with computer science by mastering a variety of challenging topics in computer science and discrete math. Each completed four monthly tests between December 2009 and April 2010 and did so to perfection (40/40). Pictured from left are sophomores Will Sawyer and Allyson Williams, and senior Kelin Michael.

Sophomore Riley Lundquist (*far right*) was an ACSL Outstanding Achievement recipient for scoring 39/40. All attend Portage Northern High School. KAMSC has won the international competition outright 11 of the last 12 years.



KAMSC 2010 EVANSVILLE PROGRAMMING TEAM: Twelve Kalamazoo Area Math and Science Center juniors and seniors competed in teams of 4 at the **University of Evansville (Indiana) ACM High School Programming Contest**, placing 1st, 3rd and 4th overall. Displaying their awards of plaques, polo shirts, coffee mugs and Best Buy gift certificates are from left: Dustin Rowland, Syed Husain, Saurav Lohani, CJ Hoorn, Ben Vander Sloot, Kelsey Wiers, Ben Mehne, Isabella Wu, Calvin Studebaker Evan Fletcher, Tibin John and Jacob Texel. The team of **John, Rowland, Vander Sloot and Texel** placed 1st overall, earning purple EU polo shirts and \$50 gift certificates. **Fletcher, Hoorn, Lohani and Mehne** placed 3rd and were awarded \$10 gift certificates and coffee mugs



KAMSC 2010 MIAMI PROGRAMMING TEAM: Sixteen juniors and seniors from the KAMSC were among the Midwest's best programming teams in Michigan, Indiana and Ohio at the **Miami University (Ohio) ACM High School Programming Contest**. Standing from left are Ben Vander Sloot, Tibin John, Saurav Lohani, Chad Bilike, Syed Husain, Patrick Smith, Alex Robinson, Dustin Rowland, Ben Wang, Daniel Houtrouw, Calvin Studebaker, Ben Mehne, Annalin Davis, Jacob Texel, Lucas Kushner and Evan Fletcher. The team of **Fletcher, Kushner, Lohani and Mehne** placed 4th overall. KAMSC's other teams placed 7th, 10th and 13th out of the 25 teams.

2010 ACSL ALL-STAR TEAM



Programmer Whiz Kids: Eight of the Kalamazoo Area Math Science Center's best programmers and computer science students competed against some of the best teams from Europe, Canada and the US in the American Computer Science League All-Star International Invitational. KAMSC's Intermediate team placed 1st in the Discrete Math and CS topics, and finished 2nd overall behind Woburn of Canada.

KAMSC's Senior team also placed 1st in Discrete Math and CS topics and finished 3rd overall. Showing their awards (*front left*) are Isabella Wu and Kelsey Wiers (*back row*) team advisor Shannon Houtrouw, C.J. Hoorn, Ben Mehne, Saurav Lohani, Calvin Studebaker, Ben Vander Sloot & Syed Husain. Hoorn, Mehne and Vander Sloot were given special honors for receiving perfect individual scores.

2010 Code Warrior Inductees

Seniors: Christopher Hoorn, Lucas Kushner, Agne Sriubaite, Isabella Wu
 Junior: Dustin Rowland
 Sophomores: Matthew Weaver

Linkages Online

Issues of Linkages are now available electronically from the KAMSC website. The URL is <http://www.kamsconline.com>.



Welcome Class of 2014!

KAMSC Class Of 2010

Name	Home School	College/University	Current Career Plan	Name	Home School	College/University	Current Career Plan
Alberty, Melinda	Portage Central	U Michigan (Engineering)	Aerospace Engineer	Kushner, Lucas	Portage Central	Kalamazoo College	Software Engineer
Angel, Chelsea	Portage Northern	Cornell U	Biomedical Engineering	Laing, Anissa	Schoolcraft	U Georgia	Math Educator
Beaton, Nigel	Portage Central	U Michigan (Engineering)	Chemical Engineer	Lohani, Saurav	Parchment	U Michigan (Engineering)	Software Engineer
Beck, Matthew	Ryan Brozovich	Kalamazoo College	Math/Physics	Maple, Joshua	Comstock	U Michigan	Environmental Engineer
Beck, Tyler	Brianna Buller	Michigan State U (Honors)	Mechanical Engineer	Mazer, Travis	Portage Northern	U Michigan (Engineering)	Neurosurgeon
Billian, Joseph	Carter Chamberlain	U Michigan LS&A (Honors)	Mathematician	McCoy, Jacob	Portage Northern	U Michigan LS&A (Honors)	Medicine
Braun, Hayley	Rachel Chang	U Michigan LS&A	Entrepreneur	Mehra, Rachael	Portage Northern	Parchment	Computer Science
Breznau, Luke	Aaron Claussen	Dickinson College	Investment Banking	Michael, Brian	Portage Northern	Kalamazoo Central	Illustrator
Brown, Aldan	Laura Conley	U Michigan (Engineering)	Engineering	Miller, Julia	Portage Central	Vicksburg	Plant Biologist
Calco, Gina	Tchad Cousins	U Michigan (Engineering)	Biomedical Engineering	Monroe, Alexandra	Portage Central	U Michigan (Engineering)	Nanotechnologist
Callanan, Tucker	Thomas Crandell	Trinity College	Sports Medicine	Nagle, Marie	Kalamazoo Central	U Michigan LS&A	Comp Sci/Astronomy
Coles, Stephen	Mitchell Curtiss	Washington U in St. Louis	Engineering	Owen, Sarah	Galesburg Augusta	Michigan State U	Electrical Engineering
Cordes, Olivia	Willow Davis	U Michigan LS&A	Engineering	Rashid, Stephanie	Portage Central	Portage Northern	Surgeon
Darrell, Andrew	Sarah Donelson	Alvin College	Pediatric Nurse	Reichen, Grace	Portage Central	Gull Lake	Engineering/Aviation
Davis, Megan	Lonnie Duncan	Grand Valley State U	Law	Ripley, Sarafina	Climax-Scotts	Western Michigan U	Engineering/Aviation
DMello, Ryan	Benjamin Dunham	Kalamazoo College	Business Language Teacher	Rudland, Anna	Portage Central	Vicksburg	Anesthesiologist
Duke, Hannah	Michael Elluru	Kalamazoo College	Business Language Teacher	Sandhu, Katherine	Portage Central	Portage Northern	Microbiology
Elluru, Andrew	Alexander Ensing	Kalamazoo College	Medicine/Business	Schwartz, Hanna	Portage Central	Portage Central	Health Science
Fletcher, Evan	Edward Escandon	U Michigan LS&A (Honors)	History Professor	Sharma, Thomas	Schoolcraft	U Michigan (Engineering)	Chemical Engineering
Flynn, Rebecca	Ariyana Esters	Xavier U (Honors)	Medicine	Sharma, Amber	Kalamazoo Central	U Michigan (Med Start)	Neonatology/Pediatrics
Green, Taryn	Jacob Fenton	U Michigan (Engineering)	Biomedical Engineering	Sharma, Thomas	Kalamazoo Central	Gull Lake	Medicine
Greenberger, Virginia	Emily Fletcher	Wyoming Catholic College	International Studies	Sharp, Gieve	Portage Northern	Kalamazoo College	Medicine
Greer, Erin	Jamie Fleury	U Michigan LS&A	Physician	Spalver, Benjamin	Portage Northern	Portage Northern	Mathematician
Hassevoort, And	Ella Feudenburg	U Notre Dame	Engineering	Sriubante, Jacob	Portage Central	Kalamazoo Central	International Business
Helmer, Sidney	Nicholas Gaunt	Kalamazoo College	Health Science	Sundberg, Maria	Gull Lake	Portage Northern	Informatics
Hoom, Christopher	Angus Gibbs	Hackett	Physician	Tarn, Meredith	Portage Central	Parchment	Pediatrician
Huberty, Phoebe	Abhay Goel	U Michigan LS&A	Physician	Thayer, William	Parchment	Western Michigan U (Honors)	Pharmacist
Itani, Amin	Shelby Green	Kalamazoo College	Chemistry	Thompson, Mara	Portage Central	Comstock	Computer Science
Jansen, Erika	Jacob Gumbleton	Harvard U	Astrophysicist	Turner, Ethan	Gull Lake	Kalamazoo Central	Engineering
John, Sherin	Alaina Haworth	Rose-Hulman Inst. of Tech.	Computer Engineer	Walsh, Sara	Portage Central	Portage Central	Epidemiologist
Kamboj, Alisha	Spencer Henning	U Michigan State U	Geographical Information	Ward, Kelsey	U Michigan LS&A	U Michigan LS&A	Pharmacist
Kaps, Mariana	Roxanne Hoon	Michigan State U (Engineering)	Computer Engineer	Wilson, Zachery	Kalamazoo Central	Schoolcraft	Violinist
Klepper, Max	Susanna Howson	Gull Lake	Engineering	Wu, Sarah	Portage Central	Vicksburg	Medical Correspondent
Krob, Kyle	Thomas Hurst	Schoolcraft	Engineering	Xiao, Taryn	Portage Central	Kalamazoo Central	Pharmacist
	Joslyn Johnson	Kalamazoo College	Medicine	Zhang, Steven	Portage Central	Michigan State U	Physics
	Kitu Komya	Ohio State U (Med App)	Physician				
	Geneva LaForce	Galesburg-Augusta	Dentist				
	Machael Lee	U Michigan LS&A	Dentist				
	Tyler LeVerton	U Michigan LS&A	Business				
	Samuel Mancini	Hackett	Medicine				
	Tate Mazer	Portage Central					
	Madelene McKenzie	Portage Northern					
	Claire Mears	Comstock					



Kalamazoo Area Math & Science Center
600 W. Vine St. Suite 400
Kalamazoo, MI 49008-1153

Tentative 2010 – 2011 KAMSC Calendar

8/31	New Student Orientation
9/6	LABOR DAY - No School
9/8	KAMSC Students First Day
9/15	KAMSC Open House
9/22	Open Lab Begins
9/22	Frosh Mixer
9/29	College Night
11/5	No County Programs – No School
11/17 & 18	Parent Teacher Conferences, PM
11/19	Parent Teacher Conferences, AM & PM- NO SCHOOL
11/24	No County Programs – No School
11/25 & 26	THANKSGIVING BREAK
12/1	8 th Grade Open House
12/17	KAMSC Alumni Open House
12/20 – 12/31	Winter Recess
1/3	School Resumes
1/17, 18, 19	EXAMS
1/21	Records Day - No Students
1/24	2 nd Semester Begins
1/28	No County Programs – No School
2/25 & 2/28	Mid-Winter Break – No School
3/25	Grades Due - No Students
3/29 & 3/30	Parent/Teacher Conferences PM
3/31	Parent/Teacher Conferences AM – NO School
4/1	No School
4/4 – 4/8	Spring Break

