



KALAMAZOO AREA MATHEMATICS AND SCIENCE CENTER

Keeping KAMSC Families Informed

From the Director, Dr. Michael Tanoff

HIGHLIGHTS

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Late summer greetings to our KAMSC family! I am pleased to be a part of this third and final Volume 18 issue of *KAMSC Linkages*. I hope that your summer experiences have been enjoyable ones. It has been a busy summer at KAMSC, with many students participating in our on-site Sizzlin' Summer Math & Science Program and other summer outreach activities. This year, we were delighted to be able to provide financial assistance to *all* Sizzlin' Summer students requiring support, thanks to the generosity of local philanthropists, as well as a gift from the Kalamazoo County Department of Human Services. Our staff has been busy as well, traveling and participating in seminars and workshops so that they may bring new ideas and experiences into the classroom.

My first year as the director of KAMSC has been a particularly gratifying one, being able to work with students who are sincere about their education, teachers who delight in meaningful student learning, an office staff that is both motivated and supportive, a devoted parent organization, and encouraging district and county administrations. I've also been learning a great deal about the Michigan Mathematics and Science Centers Network, of which KAMSC is a founding member. Through the network, I have had the pleasure of participating in several statewide professional development opportunities for mathematics and science teachers, and KAMSC has become an active member in the Michigan STEM (science, technology, engineering, mathematics) Partnership.

The previous KAMSC school year culminated with our Class of 2012 completing their KAMSC studies. Our sixty-three former seniors are now attending colleges and universities across the country, with a wide variety of career aspirations ranging from engineering, neuroscience, medicine, and mathematics, to law, business, and the visual arts. We trust that their KAMSC experiences have contributed to making lifelong learners of all of our new alumni. Our class of 2012, along with our rising sophomores, juniors, and seniors, were the recipients of many awards and accolades throughout the 2011-2012 school year, many of which are chronicled in this issue of *Linkages*. I trust that you will enjoy reading about KAMSC's many student accomplishments, along with the other informative entries in this issue of *Linkages*.

In closing, it is clear that KAMSC remains indebted to all of our parents and guardians who give of themselves to the institution, beyond what is necessary for their own student's education. As always, I remain available for your questions, comments, and concerns at (269) 337-0004, or MTanoff@kamsc.k12.mi.us.

Obrigado!

Tesekkürler

Kütos!

Merci

Köszönettel

תודה

Gracias

धन्यवाद

Thank You Parents/Volunteers!

The KAMSC staff would like to extend a special thank you to the outstanding parents and volunteers who, so generously, gave of their time this past school year. The KAMSC Parent Organization, led by Zaf Khaja, was quite instrumental in accomplishing numerous projects, thanks to all of the dedicated parent volunteers. The Senior Activities Committee members, Parent Ambassadors, parent drivers, and everyone else who helped to make the 2011-12 school year a success...we appreciate you more than words can say! The school year ended with a delicious staff luncheon provided by the Parent Organization. Thanks, once again, for your thoughtfulness.

Welcome to our New Staff Member!

KAMSC is delighted to welcome new staff member Laura Champion to our Team. Mrs. Champion joins our administrative staff as the new KAMSC Administrative Assistant, bringing a wealth of customer service experience to the position from the healthcare industry, and most recently serving as the Instructional Secretary for Student Services within Kalamazoo Public Schools. Among her many responsibilities, Mrs. Champion coordinates much of the business side of KAMSC, coordinates the many events that KAMSC hosts annually, organizes KAMSC's participation in the Michigan Mathematics and Science Centers Network, provides support for the seven-month long KAMSC admissions process, and works with KAMSC's parent ambassadors. Please welcome, enthusiastically, Mrs. Champion as you meet her!

Student Advocate Announcements from Ms. Joyce

Thank you to the KAMSC community for making my first year a great experience. There were many highlights including seeing the ninth graders' sense of humor in their cell model projects and reading about the sophomores' career interviews. The juniors made the Student Senate elections exciting, and I was proud of the thoughtful college choices the seniors made. Students and parents have been so friendly and have contacted me about everything from tutoring to testing. I also appreciate all of the support that Jon Streeter and the current staff gave me to make my transition in a smooth one.

From the Upper Peninsula to Florida, you can see where the Class of 2012 is headed to college at KAMSCOnline.com in the download section. The senior class was awarded over \$3,000,000 in scholarships and other financial enticements from the colleges that they are attending. Congratulations, graduates!

College Board has a new and helpful college search tool called Big Future. This is the best online tool I've used. Check it out at bigfuture.collegeboard.org.

Remember "Don't take candy from strangers?" How about "Don't friend anonymous people on Facebook and share information about your friends." Protect your privacy on all social media by checking your privacy settings and share information with friends only. Don't post anything that you would be embarrassed to have a college admissions officer, or future employer, see.

Rising seniors and their parents: this is it, the summer before senior year and a little downtime to reflect on what you want in a college. Seniors: fall gets very, very busy. Before fall, students should visit at least two of the colleges they plan to apply to and begin their applications. I will have an individual interview with each senior during the first three weeks of September to discuss college plans. Seniors need to bring a draft of at least one of their application essays and their current resume to this interview.



KAMSC CLASS OF 2012

<u>Name</u>	<u>Home School</u>	<u>College/University</u>	<u>Current Career Plan</u>
Anderson, Luke	Schoolcraft	U Illinois (UC)	Engineer
Beck, Jacob	Loy Norrix	Michigan State U (Honors)	Physicist
Bertman, Sarah	Kalamazoo Central	U Michigan (LS&A)	International Health
Blanchett, Reid	Vicksburg	Kalamazoo College	Neurogeneticist
Boswell, Josiah	Home School	Western Michigan U (Honors)	Computer Scientist
Brown, Erin	Parchment	Kalamazoo College	Environmental Scientist
Chu, Elaine	Portage Central	Michigan State U	Anthropologist
Clafin, Riley	Parchment	Western Michigan U (Honors)	Law/Intl.Business
Crandell, Elizabeth	Gull Lake	Cornerstone U	International Business
Davis, Madeline	Gull Lake	U Central Florida	Neurosurgeon
Deshpande, Samir	Portage Central	Kalamazoo College	Physician/Researcher
Dougherty, Tyler	Climax Scotts	Calvin College	Computer Engineer
Eckrich, David	Portage Northern	U Michigan (LS&A)	Mathematician
Farner, Mary	Loy Norrix	Yale U	Business
Fink, Mariel	Portage Northern	Ohio State U	Aerospace Engineer
Gordon, Kendall	Gull Lake	U Michigan (LS&A)	Actuary
Hamelink, Lucas	Gull Lake	Hillsdale College	Pharmacist
Harmsen, Benjamin	Loy Norrix	U Michigan (LS&A)	Business
Hawthorne, Dylan	Loy Norrix	Michigan State U	Physicist
Heidelberg, Robert	Portage Northern	Grand Valley State U (Honors)	Human Resources
Helmer, Sara	Portage Northern	Emory U	Veterinary Medicine
Husain, Ainnie	Kalamazoo Central	Michigan State U (L Briggs)	Surgeon
John, Stephen	Portage Northern	Western Michigan U	Engineer
Johnson, Jasmine	Portage Central	U Michigan (Engineering)	Biomedical Engineer
Kerkstra, Brennan	Heritage Christian	Central Michigan U	Computer Scientist
Kiel, Grace	Kalamazoo Central	Kalamazoo College	Veterinarian
Kothari, Ravi	Kalamazoo Central	International Study Program	Computer Engineer
Kudary, Cooper	Vicksburg	Western Michigan U (Honors)	Chemical Engineer
Kujacznski, Nathan	Kalamazoo Central	Michigan State U	Business
Kwon, Jihyun	Portage Northern	Kalamazoo College	Science
Lantis, Jeremy	Climax-Scotts	Kalamazoo College	Chemist
Lehman, Jacob	Loy Norrix	Michigan State U (Honors)	Physician
Leibbrand, Adena	Kalamazoo Central	U Michigan (Engineering)	Medicine/Spanish
Lenning, Elizabeth	Schoolcraft	Kalamazoo College	Epidemiologist
Li, Kevin	Portage Central	U Michigan (LS&A)	Physician
Lockett, Alexis	Parchment	Michigan State U (L Briggs)	Physician
Lundquist, Riley	Portage Northern	Kalamazoo College	Programmer
Madaras, Molly	Parchment	U of Toledo	Dentist
Maguire, Paige	Kalamazoo Central	Kalamazoo College	Wind Turbine Design
Manski, Sarah	Vicksburg	Kalamazoo College	Computational Physics
Meints, Kelsey	Galesburg-Augusta	Grand Valley State U (Honors)	Biomedical Engineering
Muehleise, Ashley	Schoolcraft	U Michigan (LS&A)	Physician
Nokomis, Zoe	Kalamazoo Central	Western Michigan U (Honors)	Ministry
Peck, Nathan	Portage Northern	U Michigan (LS&A)	Physician
Peirce, Leah	Portage Central	U Michigan (LS&A)	Physician
Penix, Elizabeth	Galesburg-Augusta	Kalamazoo College	Psychiatrist
Pines, Alexandra	Loy Norrix	Columbia U	College professor
Rajagopal, Gautam	Portage Central	U Michigan (Engineering)	Engineer
Rushlau, Kristina	Kalamazoo Central	Michigan Tech U	Engineer
Sawyer, William	Portage Northern	U Michigan (Engineering)	Engineer
Schwartz, Cameron	Schoolcraft	Kalamazoo College	Physician
Sertic, Grady	Portage Central	Brown U	Physicist
Siebers, Jake	Portage Central	Brigham Young U	Computer Scientist
Sigourney, Rebecca	Parchment	U Michigan (Kinesiology)	Orthopedic Surgeon
Sunden, Kyle	Gull Lake	Kalamazoo College	Chemist
Uggeri, Andrew	Portage Northern	Michigan State U	Dentist
Waling, Lucas	Parchment	Michigan State U	Natural Sciences
Weaver, Matthew	Kalamazoo Central	U Pennsylvania	Biology Research
Wheeler, Laura	Kalamazoo Central	Case Western Reserve U	Engineer
Williams, Allyson	Portage Northern	U Michigan (Engineering)	Biomedical Engineering
Wink, Beatriz	Portage Northern	U Michigan (Art & Design)	Visual Artist
Winnard, Jack	Loy Norrix	Michigan State U (L Briggs)	Business
Wright, James	Gull Lake	Case Western Reserve U	Computer Scientist

2011-12 AWARDS

Kevin P. Chao Memorial Scholarship

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:

~ Grady Sertic ~

Kaitan Kothari Memorial Scholarship

This scholarship, established by family 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 a competitive athletic spirit with a contagious smile. This year's recipient is:

~ Elizabeth Lenning ~



BOOK AWARDS



Chemistry Book Award

(10th Grade)

This student has a curiosity and a passion for scientific investigation. Through research, she has discovered both the art and science of experimentation.

~ Genevieve Sertic ~

Math III Book Award

This award was given to a student who exhibited an exceptional interest in mathematics and diligently pursued that interest beyond the boundaries of the classroom, exploring and seeking to fully understand a series of topics in advanced mathematics.

~ Raoul Wadhwa ~

Advanced Physics Book Award

This award is given to a student who is diligent, shows a great interest in the topics being taught, curious and goes above and beyond what is required. The award book is: *Quantum Electrodynamics* by Richard Feynman.

~ David Eckrich ~

Physics Book Award

This award is 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.

~ Matthew Cartier ~

Book Awards continued...

Biomedical Science Book Award

This student is devoted to learning the structure and function of organ-systems while studying anatomy, physiology and human genetics.

~ Rebecca Sigourney ~

Biology Book Award

This student demonstrates interest in the life sciences that go beyond the classroom; someone who biology really "pops their twitzel."

~ Maggie Smith ~

AP Biology Book Award

This student has a strong yearning to investigate the marvels of biology, high quality of work and a desire to go beyond the required.

~ Stephen John ~

ACSL All Star Book Award

The recipients of this book award are:

~ Raoul Wadhwa, Sarah Manski, Grady Sertic, Jon Brelje, Gagan Gupta ~

~ Katie Lee, Helena Mills, Colleen Orwin, Stephen Vorbrich ~

AP Computer Science Book Award

This award is given to students who have four quarters of exceptional Academic Achievement in class and constant extracurricular accomplishments outside of class.

~ Raoul Wadhwa ~

Sophomore Computer Science Book Award

This award was given to the first-ever KAMSC student to complete the entire USA Computing Olympiad's challenge problems website – 97 in all!

~ Abhay Goel ~

IT Book Award

This award is given to a student who demonstrates outstanding interest, commitment and leadership across a diverse group of topics and projects in Information Technology.

~ Sydney Martell ~



MEDALLION AWARDS



Senior medallion criteria: Recipients of the Senior Medallion are selected not just for academic achievement alone, but also for how well they exemplify key traits of life-long success, such as growth/maturity, leadership, a strong work ethic, enthusiasm/curiosity, and positive contributions to their work/learning environment. These are students who represent the best of what we believe we want KAMSC students to become. This year's medallion recipients are:

Elizabeth Lenning	Allyson Williams
Grady Sertic	Kyle Sunden
Tyler Dougherty	Mary Farner
William Sawyer III	Rebecca Sigourney
Laura Wheeler	Sarah Manski

Junior medallion criteria: Junior Medallion Awards are given to the most outstanding students during their junior year at KAMSC based upon a strong work ethic, an unending passion for learning, an outstanding year of academic achievement, and the rare ability to handle all the demands of one of the most stressful years in high school.

Jonathon Brelje	Austin Lovins
Quinton Colwell	Meg McGuire
Gagan Gupta	Helena Mills
Anna John	Timothy Oh
Katie Lee	Raoul Wadhwa

Sophomore medallion criteria: Recipients of the Sophomore Medallion exhibit tireless enthusiasm for learning, perseverance in subject mastery, works well with classmates, high integrity, academic excellence in all three subjects.

Marie Freudenburg	Rachel Polus
Angus Gibbs	Katherine Rothe
Abhay Goel	Amber Salome
Jacob Naranjo	Thomas Sandell
Alexandria Oswald	Genevieve Sertic

9th Grade medallion criteria: The selection of ninth grade medallion winners is based on maturity, enthusiasm, curiosity, leadership, strong work ethic, academic achievement and positive contributions to the classroom. All of the teachers who have ninth graders in their classes were part of the selection process. The ninth grade medallion winners are:

Cameron Andrews	Anna Lane
Catherine Cartier	Benjamin Maddux
Lauren Dougherty	Cydney Martell
Carolyn Hamman	Jordan Nagy
Subhodh Kotekal	Kevin Worme

AWARDS of ACADEMIC ACHIEVEMENT



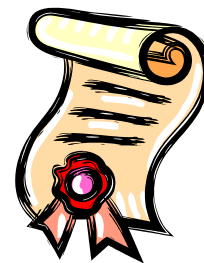
Each year academic achievement awards are given to students at the Awards program. The Director's Award, given for four years of straight A's is limited to seniors. High honors are awarded for all A's and one B. Honors are earned for all A's and B's and one C.

Director's Awards of Academic Excellence

(All A's—4 Years)

Blanchett, Reid
Farner, Mary
Manski, Sarah
Sawyer III, William

Sertic, Grady
Sunden, Kyle
Weaver, Matthew
Wheeler, Laura



High Honors

(All A's, maximum 1 B)

12 Maguire, Paige	10 Freudenburg, Marie
12 Meints, Kelsey	10 Gibbs, Angus
12 Muehleise, Ashley	10 Goel, Abhay
11 Brelje, Jonathan	10 Khan, Humza
11 Calco, Robert	10 Komya, Kitu
11 Cartier, Matthew	10 LaForce, Geneva
11 Colwell, Quinton	10 McKenzie, Madelene
11 Dewan, Sujay	10 Milka, Kyle
11 Gupta, Gagan	10 Mirza, Humza
11 Krishnan, Abhiram	10 Naranjo, Jacob
11 Lee, Katie	10 Oswalt, Alexandria
11 Lim, Alex	10 Peirce, Alexandra
11 McGuire, Meg	10 Polus, Rachel
11 Mills, Helena	10 Rothe, Katherine
11 Vorbrich, Steven	10 Rumora, Hanna
11 Wadhwa, Raoul	10 Rupp, Thomas
11 Witherspoon, Zachary	10 Salome, Amber
10 Chamberlain, Carter	10 Sandell, Thomas
10 Chang, Rachel	10 Sertic, Genevieve
10 Claussen, Aaron	10 Stull, Maria
10 Crandell, Thomas	10 Withers, Taryn
10 Escandon, Edward	10 Wu, Katherine
10 Fletcher, Emily	

Honors

(All A's, B's, Maximum 1 C)

12	Anderson, Luke	11	Abell, Hannah	10	Barnum, Emily
12	Beck, Jacob	11	Balaguer, Katherine	10	Beaton, Fiona
12	Bertman, Sarah	11	Barth, Thomas	10	Billian, Darcy
12	Brown, Erin	11	Bolliet, Marine	10	Brozovich, Ryan
12	Crandell, Elizabeth	11	Boswell, Jeremiah	10	Buller, Brianna
12	Davis, Madeline	11	Braybrooks, Grey	10	Chaudhary, Ansh
12	Dougherty, Tyler	11	Campbell, Emily	10	Conley, Laura
12	Eckrich, David	11	Cook, Cassandra	10	Curtiss, Mitchell
12	Fink, Mariel	11	Finch, Thomas	10	Donelson, Sarah
12	Gordon, Kendall	11	Folsom, Zachariah	10	Dunham, Benjamin
12	Hamelink, Lucas	11	Ghantasala, Lakshmi	10	Elluru, Michael
12	Harmsen, Benjamin	11	He, Anna	10	Enzing, Alex
12	Hawthorne, Dylan	11	Hepp, Andrew	10	Fenton, Jacob
12	Helmer, Sara	11	Higgins, Lauren	10	Fleury, Jamie
12	Johnson, Jasmine	11	Huang, Phoebe	10	Gaunt, Nicholas
12	Kudary, Cooper	11	John, Anna	10	Gordon, Carley
12	Kwon, Jihyun	11	Labadie, Andrew	10	Henning, Spencer
12	Lantis, Jeremy	11	Lovins, Austin	10	Hoorn, Roxanne
12	Lehman, Jacob	11	Lowery, Ashley	10	Hurst, Thomas
12	Leibbrand, Adena	11	Luykx, Amanda	10	Janowicz, Kyle
12	Lenning, Elizabeth	11	Meyers, Zachariah	10	Lee, Macneal
12	Li, Kevin	11	Monroe, Tevin	10	Leverton, Tyler
12	Lockett, Alexis	11	Oh, Timothy	10	Mazer, Tate
12	Lundquist, Riley	11	Orwin, Colleen	10	Mears, Claire
12	Nokomis, Zoe	11	Quartermaine, Cooper	10	Mehta, Paras
12	Peck, Nathan	11	Ramsdell, Trisha	10	Mussche, Joshua
12	Peirce, Leah	11	Rangrass, Gauri	10	Noteboom, Rachael
12	Penix, Elizabeth	11	Reed-Sandum, Justine	10	Patel, Dhara
12	Pines, Alexandra	11	Rice, Olivia	10	Peters, Samuel
12	Rajagopal, Gautam	11	Singh, Mandhiraj	10	Pinto, Marie
12	Rushlau, Kristina	11	Sly, Samuel	10	Piper, Sarah
12	Schwartz, Cameron	11	Starfeldt, Zaria	10	Ray, Stephanie
12	Sigourney, Rebecca	11	Stull, Lukas	10	Reid, Grace
12	Williams, Allyson	11	Stuut, Thomas	10	Roodbergen, Anna
12	Wink, Beatriz	11	Thomas, Reinie	10	Stutz, Meredith
12	Wright, James	11	Tiller, Jenna	10	Thota, Naveena
		11	Venugopal, Madhavi	10	To, Ethan
		11	Wachowski, Samuel	10	Torres, Sara
		11	Ward, Hunter	10	Wile, Jenner
		11	Woodworth, Daniel		

Congratulations!



Calculus League Contest

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 finishers were:

~ Abhay Goel (1st place, with 32 points) ~ Will Sawyer & Kyle Sunden (2nd place tie, with 27 points each) ~

55th Annual Michigan Mathematics Prize Competition

In October, KAMSC had 223 participants for Part 1 of the 55th 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:

Grace Beck	Isaac Bertman	Darcy Billian
Jeremiah Boswell	Erin Brown	Carter Chamberlain
Riley Claflin	Mitchell Curtiss	Tyler Dougherty
Aaron Eshleman	Marie Freudenburg	Nicholas Gaunt
Abhay Goel	Lucas Hamelink	Stephen John
Abhiram Krishnan	Alex Lim	Riley Lundquist
Helena Mills	Jacob Naranjo	Trisha Ramsdell
Amber Salome	Tom Sandell	Grady Sertic
Ethan To	Raoul Wadhwa	Matoska Waltz
Taryn Withers	Kyle Sunden	Steven Vorbrich
Daniel Woodworth		

Tyler Dougherty, Lucas Hamelink, and Kyle Sunden shared the honors for KAMSC's high score of 24 (out of 40) on Part 1. For their combined Part I and Part II scores, Abhay Goel and Riley Lundquist both finished in the Top 200 statewide. Congratulations to all!

American Math Competition

AMC is a challenging national competition and was won by a KAMSC student who achieved a score of 120 points in the first round and that qualified him to participate in the second round. Awarded the AMC Medallion for his excellent performance was:

~ Matthew Weaver ~

Michigan Math League Contest

The MMLC consists of six contests that are given throughout the school year. Each competition consists of six problems. The following students received awards for KAMSC:

~ Sujay Dewan (1st Place), Pheobe Huang (2nd Place), Kevin Li (3rd Place) ~



American Chemical Society Exam Finalists

Katie Balaguer
Carter Chamberlain
Aaron Claussen
Quinton Colwell
Abhay Goel
Lucas Hamelink

Stephen John
Abhiram Krishnan
Jeremy Lantis
Katie Lee
Jacob Naranjo
Rachel Polus

Jack Sheppard
Kyle Sunden
Ethan To
Steven Vorbrich
Taryn Withers

American Chemical Society Top 20 – Final Scholarship Exam



Stephen John
Lucas Hamelink

Kyle Sunden
Quinton Colwell

Cooper Quartermaine
Steven Vorbrich

American Chemical Society Award For Outstanding 2012 KAMSC Senior in Chemistry

~ Kyle Sunden ~

Asheesh Bedi Award of Research Excellence

Criteria: Demonstrated evidence of quality research.

~ Sujay Dewan, Ashly Lowry, Grady Sertic ~

~ Adena Leibbrand, Grace Kiel, Quinton Colwell ~

Phil Carra "White Coat Award of Laboratory Excellence"

Criteria: Outstanding achievement of laboratory techniques.

~ Adena Leibbrand ~

Don Parfet Distinguished Service Award

Criteria: Kalamazoo Area Mathematics and Science Center staff recognizes and honors the following student for service contributions to the KAMSC community:

~ Jasmine Johnson ~

Junior Engineering Technology Student (JETS) Awards

(Triune University in Angola, Indiana)

Varsity B

1st Place-MI Division 2 Winner-Regional

Adena Leibbrand
Riley Lundquist
Paige Maquire
Allyson Williams
Kyle Sunden
Helena Mills
Gagan Gupta
Angus Gibbs

Varsity A

2nd Place-MI Division 2 3rd Place-Regional

Grady Sertic
Mary Farner
Reid Blanchett
Matthew Weaver
Sarah Manski
Abhiram Krishnan
Sujay Dewan
Abhay Goel



USA COMPUTING OLYMPIAD

SILVER AWARDS

<u>SENIORS</u>	<u>JUNIORS</u>	<u>SOPHOMORES</u>
Sertic, Grady	Dewan, Sujay Krishnan, Abhiram Wadhwa, Raoul Woodworth, Daniel	Goel, Abhay

BRONZE AWARDS

<u>SENIORS</u>	<u>JUNIORS</u>	<u>SOPHOMORES</u>	<u>FIRST-YEAR</u>
Samir Deshpande Mary Farner Brennan Kerkstra Riley Lundquist Paige Maguire Sarah Manski	Jon Brelje Brice Calco Quin Colwell Thomas Finch Gagun Gupta Andrew Hepp Phoebe Huang	Katie Lee Alex Lim Helena Mills Colleen Orwin Manak Singh Reinie Thomas Steven Vorbrich	Subhodh Kotekal
			<u>8th GRADER</u>
			Michael Orwin

2012 CODEWARRIOR INDUCTEES

<u>SENIORS</u>	<u>JUNIORS</u>	<u>SOPHOMORES</u>
Brennan Kerkstra Riley Lundquist Sarah Manski Grady Sertic Kyle Sunden Allyson Williams James Wright	Jon Brelje Anirudh Ghantasala Gagan Gupta Steven Vorbrich	Kyle Milka
		<u>FIRST-YEAR</u>
		Subhodh Kotekal

AMERICAN COMPUTER SCIENCE LEAGUE PERFECT SCORES

<u>ALL STAR (12/12)</u>	<u>SENIOR DIVISION (40/40)</u>	<u>INTERMEDIATE DIVISION (40/40)</u>	<u>CLASSROOM DIVISION (40/40)</u>
Raoul Wadhwa	Sarah Manski Will Sawyer Grady Sertic Kyle Sunden Jon Brelje Brice Calco Quin Colwell Colleen Orwin Steven Vorbrich Raoul Wadhwa	Riley Lundquist Paige Maguire Sarah Manski Laura Wheeler Jon Brelje Brice Calco Gagan Gupta Katie Lee Colleen Orwin Steven Vorbrich Raoul Wadhwa	Rachel Polus Thomas Sandell



ACSL ALL STAR TEAMS

<u>SENIOR TEAM</u>	<u>INTERMEDIATE TEAM</u>	<u>JUNIOR HIGH TEAM</u>
Sarah Manski Grady Sertic Colleen Orwin Stephen Vorbrich Raoul Wadhwa	Jon Brelje Brice Calco Gagan Gupta Katie Lee Helena Mills	Baxter Banghart Josh Gibson Subhodh Kotekal Michael Orwin Farzad Razi



KAMSC 2012 U. Michigan-Dearborn Team: Thirty-five juniors and seniors from the Kalamazoo Area Mathematics and Science Center competed for monetary awards at the 7th annual Engineering/Computer Science Experience hosted by Michigan's Dearborn Engineering campus. **Programming Team:** Jon Brelje, Quin Colwell, Tyler Dougherty, Mary Farner, Thomas Finch, Gagan Gupta, Dylan Hawthorne, Jared Hoffman, Abhiram Krishnan, Riley Lundquist, Paige Maguire, Sarah Manski, Will Sawyer, Kyle Sunden, Raoul Wadhwa, Matthew Weaver, James Wright; **Engineering Team:** Hannah Abell, Alan Alvarez, Grey Braybrooks, Samir Deshpande, Marty Graube, Jasmine Johnson, Helena Mills, Annie Nelson, Manak Singh, Sam Sly, Sam Wachowski, Laura Wheeler; **Webpage Design Team:** Brice Calco, Anirudh Ghantasala, Andrew Hepp, Ravi Kothari, Jake Siebers, Daniel Woodworth. Seniors Sarah Manski and Matthew Weaver finished 2nd overall in Computer Science earning \$200 Barnes & Noble gift cards. Juniors Jon Brelje and Gagan Gupta finished 3rd in CS.



KAMSC 2012 Miami University ACM Programming Team: Twenty Kalamazoo Area Mathematics and Science Center programmers all but dominated the 4-hour competition at Miami University that included the best high school programming teams in Ohio, Indiana and Michigan. Pictured are **Seniors:** Tyler Dougherty, Mary Farner, Riley Lundquist, Sarah Manski, Kyle Sunden; **Juniors:** Brice Calco, Quin Colwell, Thomas Finch, Anirudh Ghantasala, Gagan Gupta, Abhiram Krishnan, Reinie Thomas, Steven Vorbrich, Raoul Wadhwa, Daniel Woodworth; **Sophomores:** Ben Dunham, Edward Escandon, Abhay Goel, Kyle Milka; **Freshman:** Subhodh Kotekal. Top finishing teams were awarded t-shirts, gift certificates, plaques and medals. KAMSC's 5 teams finished **1st Place:** Dougherty, Farner, Lundquist, Sunden; **3rd Place:** Manski, Calco, Gupta, Vorbrich; **4th, 5th, and 15th** places.



KAMSC 2012 SAGINAW VALLEY STATE U. ACM HIGH SCHOOL PROGRAMMING TEAM: Seventy-eight programmers represented KAMSC and their home schools at the annual programming contest hosted by SVSU. Picture here are **Seniors:** Samir Deshpande, Tyler Dougherty, Mary Farner, Brennan Kerkstra, Ravi Kothari, Paige Maguire, Will Sawyer, Jake Siebers, Kyle Sunden, Matthew Weaver, Allyson Williams; **Juniors:** Hannah Abell, Alan Alvarez, Jon Brelje, Brice Calco, Matthew Cartier, Thomas Finch, Zac Folsom, Anirudh Ghantasala, Gagun Gupta, Andrew Hepp, Jared Hoffman, Phoebe Huang, Abhiram Krishnan, Katie Lee, Helena Mills, Annie Nelson, Colleen Orwin, Manak Singh, Sam Sly, Luke Stull, Reinie Thomas, Steven Vorbrich, Raoul Wadhwa; **Sophomores:** Darcy Billian, Rachel Chang, Ansh Chaudhary, Aaron Claussen, Michael Crandell, Willow Davis, Ben Dunham, Jacob Fenton, Emily Fletcher, Nick Gaunt, Angus Gibbs, Shelby Green, Roxanne Hoorn, Humza Khan, Kitu Komya, Tate Mazer, Kyle Milka, Humza Mirza, Josh Mussche, Jacob Naranjo, Rachael Noteboom, Dhara Patel, Ally Peirce, Samuel Peters, Marie Pinto, Rachel Polus, Grace Reid, Katherine Rothe, Hanna Rumora, Amber Salome, Thomas Sandell, Genevieve Sertic, Maria Stull, Naveena Thota, Ethan To, Sarah Westman, Jenner Wile, Taryn Withers, Katherine Wu; **Freshmen:** Subhodh Kotekal, Farzad Razi, Matoska Waltz; **8th Grader:** Michael Orwin, Sweeping the competition outright were **1st Place: Dewan, Krishnan, Wadhwa; 2nd Place: Dougherty, Farner, Sawyer; 3rd Place: Brelje, Gupta, Lee.** Best Buy gift cards were awarded to the winning teams.



ACSL Classroom Division Winners:
Rachel Polus and Thomas Sandell



2012 ACSL All Stars
with books, plaques, and ribbons



Research Team Awards

Individual Awards

NAOO's Taking the Pulse of the Planet Award

Quinton Colwell

Investigating the use of SPME to measure the volatility of terpenes in white pine needles.

JSHS Participant KAMSC Parent/Teacher Award

Sujay Dewan

The lack of bilateral yoking in the rhythmic heartbeat of the medicinal leech (*Hirudo Verbena*) via peripheral interactions.

3rd Place Individual SW MI Science and Engineering Fair ASM Material Science Award

Lakshmi Ghantasala

Novel ZnO nanoparticle/grapheme oxide nanoarchitectures as oxygen sensors.

Air Force Award

Anne He

Oral corticosterone treatment effects on amphetamine sensitization in male Sprague-Dawley rats.

KAMSC Parent/Teacher Award

Stephen John

Comparison of analytical techniques to measure capsaicin in various food and medicinal products.

2nd Place Individual Award Microbiology/Immunology

Jasmine Johnson

Detection of antibodies in a composite matrix coated and dried on a substrate.

Junior Science and Humanities Symposium Participant

Grady Sertic

An exploration of nonstandard number systems.

KAMSC Parent/Teacher Award

Mandhiraj Singh

Deposition and characterization of diamond-like films.

2nd Place Individual SW MI Science and Engineering Fair

Raoul Wadhwa

Using nanoscale catalysts for the conversion of natural products into commodity chemicals.

Team Awards

Innovative Engineering Award

Luke Anderson

Kyle Sunden

The design and construction of an alarm system for a Tandem Van de Graaff particle accelerator.

Air Force Award

Sarah Bertman

Zoe Nokomis

A study of the effect of behavior modification using weight-loss in women as the model.

3rd Place Team Award SW MI Science and Engineering Fair

3rd Place Microbiology/Immunology Award

Reid Blanchett

Olivia Rice

Serological analysis of swine *Mycoplasma hyorhinis* and strain comparison by protein and molecular typing of US and European isolates.

Junior Science and Humanities Symposium Participant

2nd Place Team Award SW MI Science and Engineering Fair

1st Place Team Award Microbiology / Immunology

Grace Kiel

Adena Leibbrand

Cytokine or bacterial antigen effects on cytokine receptor expression in canine keratinocytes.

Navy Award

Jihyun Kwon

Leah Peirce

Genetic correlations between anther exertion and other traits in wild radish (*Raphanus raphanistrum*).

KAMSC Parent/Teacher Award

Trisha Ramsdell

Hunter Ward

Cis, trans fat separation from French and its effects on health.

A Note from the Parent Organization

The 2011-2012 year was another fantastic year to be a part of the KAMSC family. The students, parents, and KAMSC staff were the lifeline for the success of many projects over the year. Because of their work, the Parent Organization was able to provide money for student awards, competition fees, guest speaker honorariums, and field trips. The Parent Organization was also able to provide support for other special events such as College Night, Freshmen Orientation, and the end of the year staff appreciation lunch.

The KAMSC team exemplifies the phrase, "it takes a village." Thank you to everyone who stepped up to provide assistance whether it was providing a ride for field trips, chaperoning a social event, helping in the office, buying supplies, sitting on a committee, and/or serving in a leadership position. It takes a village to raise a child and your work hasn't gone unnoticed.

Finally, a special thank you to the teachers, director, and office team for all of the hours you put into making the experience at KAMSC special for our children. The four years at KAMSC is a blip on their lifeline, but oh, what an important blip. Your words and teaching provide the encouragement and drive for our children to aim for high academic success as well as encouragement to look for ways to give back to a community that has given so much to them.

Members of the Parent Organization are looking forward to another great year at KAMSC. Once again, thank you for your past work and we encourage you to stay involved at KAMSC. If you are new or just didn't know how to get involved, we encourage you to come to the meetings, ask questions of others involved, and become an active member of the village this school year. Stay engaged and we all can help to build a better world.

Sabrina Pritchett-Evans, President

Parent Association 2012-2013

Chairperson: Sabrina Pritchett-Evans (KCHS)

Treasurers: Rhonda Baxter-Todd (KCHS) & Alan Poling (GLHS)

Secretary: Justine McKenzie (PNHS)

Parent Ambassador Coordinators: Sandy Wachowski (KCHS) & Suzanne Scott (PNHS)

Volunteer Coordinator: Sue Bourget-Coles (PCHS)

Phone Caller: *Vacant*

Funding Committee Chair: *Vacant*

Student Senate Advisor: Hsimin Huang (PNHS)

Senior Advisor: Karen Woodworth (KCHS)

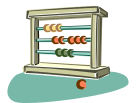
The KAMSC Parent Organization is looking to complete its slate of officers for the 2012-13 school year. We are looking for enthusiastic parents that want to work with other great parents. We provide support to the director, staff, parents and students to help champion the KAMSC mission to enrich the quality of mathematics and science education for all students in the greater Kalamazoo area and St. Joseph County. If you want to be involved, but you are asking yourself, "Where would I find time?" you can be creative and ask another parent to step up and work as a team. We need you! Please contact Sabrina Pritchett-Evans with questions regarding open positions at (269) 720-4809. Thank you.



Sizzlin' Summer Math and Science Program 2012

The KAMSC Sizzlin' Summer Program continues to put a gleam in the eyes of several hundred future science, math, and technology whizzes from pre-K through high school. Each year, students have the opportunity to choose from a variety of courses which are two hours in length and run for either one or two week sessions.

The tuition-based program is quite affordable and each year nearly 20% of registered students receive financial assistance. The Sizzlin' Summer Program obtains some its financial assistance funds from schools, companies and organizations that generously donate to this worthy program. Other support comes from individuals who sponsor children less fortunate. If you know of an organization (or individual) who would like to contribute to next years' financial assistance fund, please contact Ms. Fisher at 337-0004 or sfisher@kamsc.k12.mi.us. *Thank you!*



New Students Welcomed!

The KAMSC 9th grade orientation was held at the Kalamazoo Nature Center on Monday, August 27th, 2012. The event was run masterfully by KAMSC Integrated Math I teacher Mrs. Kalnins, KAMSC Information Technology teacher Mr. Cardwell, KAMSC Honors Biology teacher Mr. Chopp, and many of our returning students, who facilitated our various team-building activity stations. Enthusiasm was evident from both our new 9th graders and from our "experienced" students! Following the fun, the new students and their student facilitators joined KAMSCS staff members for an ice cream social, while parents had the opportunity to meet the officers of the KAMSC Parent Organization. Thanks to everyone who helped make this event a tremendous success!

Announcing your New... 2012-13 Student Senate

Governing Board:

President: Gauri Rangrass
Vice President: Brice Calco
Secretary: Ally Peirce
Treasurer: Sam Peters

Senior Representative: Marine Bolliet
Junior Representative: Naveena Thota
Sophomore Representative: Colby Hanley

Action Board Members:

Dhara Patel
Sujay Dewan
Phoebe Huang
Anna Le
Young Chiang

Katherine Wu
Ansh Chaudhary
Nadia Haile
Rachel Chang
Isabella Haney



Welcome Class of 2016!

Sami	Ahmad	PNHS	Audrey	Lyons	LNHS
Jawad	Aqeel	PCHS	Samuel	Maddox	GLHS
Ashton	Armstead	PCHS	Alexandra	Malek	GLHS
Connor	Bach	PNHS	Matthew	Maple	VHS
Eleanor	Barlow	GLHS	Riley	Martell	GLHS
Benjamin	Beach	PNHS	Jamila	McKenzie	PNHS
Andrew	Beck	HCAHS	Grace	Miles	CHS
Benjamin	Behrens	PCHS	Ziyan	Mo	PCHS
Margaret	Benjamin	HCAHS	Kaylee	Musselman	CSHS
Grace	Beverage	PCHS	Paige	OConnor	GLHS
Nikita	Bhatia	PCHS	Michael	Orwin	PNHS
Hunter	Bilicke	KCHS	Boemin	Park	PNHS
Sydney	Bodzianowski	KCHS	Jessica	Poling	GLHS
Brandon	Born	HCHHS	Henry	Poznanski	KCHS
Emily	Brady	PCHS	Matthew	Ring	SHS
Quincy	Bullmer	PNHS	Alexis	Roberts	PAHS
Benjamin	Byrd	LNHS	Mitchell	Rockwell	LNHS
Alex	Cannizzaro	VHS	Kimberly	Romph	LNHS
Keegan	Canny	PNHS	Matthew	Ruge	GLHS
Nathan	Couk	VHS	Lois	Rustenholtz	LNHS
Savannah	Crooks	PCHS	Drew	Schaefer	PCHS
Tyler	Deleonabreu	GLHS	Faruq	Schieber	KCHS
Carley	Dziewicki	PAHS	Alan	Seager	KCHS
Jack	Eichman	PCHS	Mariclare	Shirey	PNHS
Chelsie	Eiden	PNHS	Simran	Singh	PCHS
Shivam	Gautam	PCHS	Connor	Sloan	SHS
Jori	Gelbaugh	GLHS	Judy	Smith	GAHS
Natasha	Goenawan	KCHS	Latharia	Smith	LNHS
Tristan	Greathouse	PCHS	Lily	Soule	GLHS
Jacob	Heasley	LNHS	Lydia	Swager	CSHS
Kento	Hirakawa	PCHS	Eryka	Swank-Schreffler	LNHS
Christopher	Hybels	LNHS	Jason	Taft	PNHS
Finneas	Johnson	KCHS	Michael	Tarn	PCHS
Lindsey	Johnson	SHS	Ali	Thomas, Jr.	PCHS
Brianna	Jones	PNHS	Leah	Todd	KCHS
Otto	Kailing	KCHS	Rachel	Torres	PNHS
Anthony	Kayany	PCHS	Alexa	VanderHoff	PNHS
Andrew	Keene	GLHS	Emily	Veenhuis	CHS
Matthew	Krinock	PNHS	Nicholas	Wahl	CHS
Lily	Krone	LNHS	Hannah	Wang	PNHS
Maya	Lannen	LNHS	Colin	Whitman	GAHS
Chloe	Lipovsky	GLHS	Colleen	Whitman	GAHS
Ericka	Lozon	PNHS	Arthur	Woodworth	KCHS

KAMSC Tentative Rolling Calendar - Semester 1

DATE	DAY	TIME	DESCRIPTION
8/27/2012	Monday	2:00 - 5:00 PM	New Student Orientation
9/3/2012	Monday		Labor Day - No School
9/4/2012	Tuesday		No Students
9/5/2012	Wednesday		KAMSC School Begins
9/5/2012	Wednesday		No Open Lab
9/11/2012	Tuesday	2:00 PM	Navy Career/College Info
9/12/2012	Wednesday	6:30 - 8:30 PM	Open House
9/19/2012	Wednesday	6:00 - 7:30 PM	Open Lab Begins (Every Wed. unless otherwise indicated)
9/19/2012	Wednesday	6:00 - 7:30 PM	9th Grade Mixer
9/21/2012	Friday	2:00 PM	Case Western Reserve Univ.
9/24/2012	Monday	2:00 PM	MSU College Visit
9/24/2012	Monday	2:00 PM	Michigan State Univ
9/25-26-27/12	Mon,Tues, Thurs		Bog Visit - 9th graders
9/26/2012	Wednesday	2:00 PM	U of M College Visit
9/26/2012	Wednesday	7:00 - 9:00 PM	KAMSC College Night
9/26/2012	Wednesday	6:15 - 7:00 PM	Parent Organization Meeting
10/2/2012	Tuesday	TBD	MMPC Testing
10/2/2012	Tuesday	2:00 PM	University of Notre Dame
10/8/2012	Monday	2:00 PM	Michigan Tech Visit
10/15/2012	Monday	6:30 Seniors 7:00PM	Yale University
10/19/2012	Friday		8th KAMSC Olympiad
10/22/2012	Monday	2:00 PM	Washington University in St Louis
11/2/2012	Friday		No Students
11/5/2012	All Week	All Day	Spirit Week
11/14/2012	Wednesday	5:30 - 8:30 PM	Parent Teacher Conferences
11/15/2012	Thursday	5:30 - 8:30 PM	Parent Teacher Conferences
11/16/2012	Friday	7:30 - 2:30 AM	Parent Teacher Conferences
11/16/2012	Friday		No Students
11/21/2012	Wednesday		No School
11/22-23/2012	Thur - Friday		Thanksgiving Break
12/2/2012	Sunday		Senior Tea
12/4-5-6/12	Tues - Thurs		9th Grade Research Onset
12/5/2012	Wednesday	7:00 PM	8th Grade Orientation
12/5/2012	Wednesday		No Open Lab
12/12/2012	Wednesday	TBD	MMPC Testing
12/21/2012	Friday	TBD	Alumni Day
12/22-1/5/13			Winter Recess
1/14-15/2013	Mon - Tues	TBD	Exams (AM)
1/14-16/2013	Mon - Wed	TBD	Exams- (PM)
1/16/2013	Wednesday		No Open Lab

Keep in mind that dates & times are subject to change. If you have any questions about events, please feel free to contact the KAMSC office at 337-0004. To stay informed and up-to-date, please visit the KAMSC website.

Keeping KAMSC Families Informed

Phone: (269) 337-0004 ● FAX: (269) 337-0049 ● Website: www.kamsconline.com