



KAMSC LINKAGES

Keeping KAMSC Families Informed | Summer 2014 | Volume 20, Issue 3
AWARDS EDITION

FROM THE DIRECTOR, Dr. Michael Tanoff

Late summer greetings to our KAMSC family! I hope that your summer pastimes have been pleasant. The summer is always busy at KAMSC, with many students participating in our on-site Sizzlin' Summer Math & Science Program and other summer outreach activities. Once again, we were delighted to be able to provide financial assistance to all Sizzlin' Summer students requiring support, thanks to the generosity of local philanthropists. Our teachers have been busy as well, traveling and participating in seminars, workshops, research experiences, and curricular updates, in areas such as macrobotics, nanolithography, genomics, and 3-D printing, so that they may bring new and exciting insights into the classroom.

This issue of *Linkages* focuses on the many achievements and activities of our students and teachers from the past academic year, including the year's highlight of sixty-eight seniors completing their studies at KAMSC, and being recognized for this achievement at the Class of 2014 Senior Recognition Ceremony on May 27th. We are proud of the diverse interests being pursued by our new alumni, ranging from neonatal nursing, archeology, and speech pathology, to aerospace engineering, medicine, and quantum computing. The list of colleges and universities that our graduates will attend is impressive, including Carnegie Mellon University, Yale University, Cornell University, UCLA, Oberlin College, and the U.S. Air Force Academy, and a bit closer to home, Michigan State University, the University of Michigan, Western Michigan University, Grand Valley State University, and Kalamazoo College.

Highlights

Class of 2014	3
Student Activities	4
Summer Happenings	5
Student Advocate News	7
Parent Organization	8
2013-2014 Awards	9-12
Computer Competitions	13-21
Research Awards	22-23
Book Awards	24
Tentative Calendar	25
Important Tidbits	26

Continued on next page

Continued

While this issue of *Linkages* focuses on the many awards garnered by, and recognition received by, our KAMSC students for their achievement in interscholastic competitions and research projects, it also contains important information from Ms. Joyce, KAMSC's Student Advocate, and the KAMSC Parents Organization, and announcements from the KAMSC office. I hope you enjoy this Summer 2014 edition of *Linkages*, and look forward to our fall edition in mid-September. As always, I remain available for your questions, comments, and concerns at (269) 337-0004 or MTanoff@kamsc.k12.mi.us.



Congratulations, Mrs. Ingles!

The KAMSC community is delighted that Marlene Ingles, KAMSC secretary since 2011, was promoted, recently, to the position of KAMSC Administrative Assistant. Among her many new responsibilities, Mrs. Ingles will coordinate much of the business side of KAMSC, coordinate the many events that KAMSC hosts annually, organize KAMSC's participation in the Michigan Mathematics and Science Centers Network, provide support for the seven-month long KAMSC admissions process, and work with KAMSC's parents organization. It is a boon to the KAMSC administrative team to have an Administrative Assistant who is proficient in all aspects of running the KAMSC program. Please offer your enthusiastic congratulations to Mrs. Ingles as you see her!

CONGRATULATIONS CLASS OF 2014!!

Name	High School	College Plans	Career Interest
Barnum, Emily	Vicksburg	Hillsdale College	Professor
Beaton, Fiona	Portage Central	Western Michigan U (Honors)	Neonatal Nurse
Billian, Darcy	Loy Norrix	U Michigan (Engineering)	Engineer
Brozovich, Ryan	Loy Norrix	Michigan State U (Eng.)	Engineer
Chamberlain, Carter	Gull Lake	Michigan State U (Lyman Briggs)	Computer Science
Chang, Rachel	Gull Lake	Kalamazoo College	Family Doctor
Chaudhary, Ansh	Portage Central	Kalamazoo College	Medicine/Business
Claussen, Aaron	Gull Lake	U Michigan (Engineering)	Computer Engineer
Conley, Laura	Portage Northern	U Pittsburgh	Physical Therapist
Crandell, Thomas	Gull Lake	US Naval Academy	Engineer
Curtiss, Mitchell	Portage Northern	U Michigan (Engineering)	Civil Engineer
Dunham, Benjamin	Loy Norrix	Kalamazoo College	Computer Science
Elluru, Michael	Hackett	Michigan State U (Lyman Briggs)	Medicine
Escandon, Edward	Gull Lake	Carnegie Mellon U	Entrepreneur
Fenton, Jacob	Kalamazoo Central	Michigan State U (Eng.)	Computer Science
Fletcher, Emily	Galesburg-Augusta	Kalamazoo College	Archaeologist
Freudenburg, Ella	Home School	Yale U	Liberal Arts
Gaunt, Nicholas	Loy Norrix	U Michigan (Engineering)	Computer Science
Gibbs, Angus	Gull Lake	Cornell U	Electronics Engineer
Goel, Abhay	Portage Northern	Kalamazoo College	Mathematics Professor
Gordon, Carley	Gull Lake	U Michigan (LS&A)	Design and Literature
Henning, Spencer	Kalamazoo Central	Western Michigan U (Honors)	Physics Research
Hurst, Thomas	Schoolcraft	US Air Force Academy	Mathematics
Janowicz, Kyle	Portage Northern	Michigan Tech U	Aerospace Engineer
Khan, Humza	Portage Central	U Michigan (Engineering)	Computer Engineer
Knasel, Cara	Kalamazoo Christian	Michigan State U	Medicine
Komya, Kitu	Portage Central	U California, Los Angeles	Medicine/Biotech
LaForce, Geneva	Galesburg-Augusta	Ball State U (Honors)	Genetic Researcher
Lee, Macneal	Loy Norrix	U Michigan (LS&A)	Actuarial Science
Leverton, Tyler	Loy Norrix	Michigan Tech U	Chemist
Mazer, Tate	Portage Central	U Michigan (Engineering)	Software Engineer
McKenzie, Madelene	Portage Northern	U Notre Dame	Medicine
Mears, Claire	Loy Norrix	Western Michigan U (Honors)	Neonatal Surgeon
Mehta, Paras	Kalamazoo Central	U Michigan (Engineering)	Aerospace Engineer
Meldrum, Clayton	Kalamazoo Christian	Kalamazoo College	Medicine
Milka, Kyle	Portage Northern	U Michigan (Engineering)	Software Developer
Mirza, Humza	Portage Central	U Miami HPM	Neuro Spinal Surgery
Mussche, Joshua	Comstock	Western Michigan U (Honors)	Chemical Engineer
Mwenze, Bethel	Loy Norrix	Grand Valley State U (Honors)	Neuroscience
Naranjo, Jacob	Portage Central	Kalamazoo College	Computer Science/Math
Noteboom, Rachael	Parchment	Grand Valley State U (Honors)	Biological Research
Oswalt, Alexandria	Vicksburg	Kalamazoo College	Orthopedic Surgeon
Patel, Dhara	Portage Northern	U Michigan (LS&A)	Bioengineering/Comp Sci
Peirce, Alexandra	Portage Central	U Michigan (LS&A)	Medicine
Peters, Samuel	Gull Lake	U Michigan (Engineering)	Engineer/Professor
Pinto, Marie	Gull Lake	U Dayton	Surgeon
Piper, Sarah	Vicksburg	Western Michigan U (Honors)	Speech Pathology
Polus, Rachel	Portage Central	Michigan State U (Honors)	Computer Science/Physics
Ray, Stephanie	Portage Northern	Cal Poly	Surgeon
Reid, Grace	Gull Lake	U of St Andrews	Political Screenwriter
Roodbergen, Anna	Vicksburg	Kalamazoo College	Engineer
Rothe, Katherine	Portage Northern	Purdue U	Computer Engineer
Rumora, Hanna	Portage Central	U Michigan (Music, Honors)	Cellist
Rupp, Thomas	Loy Norrix	U Michigan (Engineering)	Computer Engineer
Salome, Amber	Comstock	Kalamazoo College	Medicine
Sandell, Thomas	Gull Lake	U Michigan (Honors)	Quantum Computing
Sertic, Genevieve	Portage Central	Yale U	Engineering/Research
Stull, Maria	Portage Northern	Oberlin College	Science
Slager, Jacob	Parchment	Western Michigan U (Honors)	Physical Therapy
Stutz, Meredith	Parchment	Miami U	Physical Therapist
Thota, Naveena	Portage Central	U Michigan (LS&A)	Medicine
To, Ethan	Kalamazoo Central	Michigan Tech U	Mechanical Engineer
Torres, Sara	Portage Central	Northwestern U	FBI Criminal Profiler
Waling, Linden	Parchment	Western Michigan U (Honors)	Computer Engineer
Wile, Jenner	Vicksburg	Rose-Hulman Inst. of Tech.	Software Engineer
Withers, Taryn	Kalamazoo Central	Michigan State U (Lyman Briggs)	Zoologist
Wu, Katherine	Portage Central	U Southern California	Business
Wunderlich, Grant	Portage Northern	Hope College	Sports Medicine

Student Activities

STUDENT SENATE NEWS FOR YOU

Be forewarned: plans are afoot! The Center's Student Senate is taking the lead on gearing up for the new school year and you're all invited to be a part of it.

President Colby Hanley has a lot of new things in store for KAMSC, including upgrading the Student Lounge, preparing for the annual Class Clash and the Spring Formal, supporting the Science Fiction Film Festival and the State Champion Cricket teams, and organizing our first ever Ping Pong Championship.

All interested students are enthusiastically invited to join us as we prepare for the most exciting school year yet.

Student Senate meetings are held after Open Lab (7:30–8:00) in Room 430 beginning September 24th. Hope to see you there!

YES; IT IS FOUR STRAIGHT CHAMPIONSHIPS



Once again, the KAMSC Cricket teams dominated the competition (themselves) with their fourth straight Michigan state championship. The women's team finished with a 22/*all out* run with Genevieve Sertic earning Lady of the Match honors, while the men's team, led by Man of the Match Humza Mirza, racked up a record-setting 112/*all out* innings. Not only were the two teams able to celebrate four consecutive state titles, but they were also featured on Western Michigan University's public radio station WMUK (<http://wmuk.org/post/cricket-tournament-brings-international-pastime-home>) – with special thanks to Rebecca Thiele for the awesome report and our wonderful Parent's Organization for its continuing financial support.

Next year's Drive for Five will begin this fall with an information meeting on Wednesday, October 15th, in the Presentation Center. See you then!

Research Team 2014-2015

If you have signed up for the Research Team or are interested in joining, stop by and see Dr. Goudie in Room 434.

Summer Happenings

"Mr. Alshehri and Mr. Chopp participated in a 6-week summer institute at Michigan State University focusing on cutting-edge research on robotics engineering. They were placed with engineering faculty who lead vibrant robotics related research programs. Working with PIs, faculty mentors, a curriculum development specialist and an editor of TeachEngineering.org, They will develop innovative, standards-compliant curriculum modules and participate in a number of professional development activities such as volunteering at Metro Detroit Youth Day."



Mr. Sinclair spent another summer developing a new website for the *Interdisciplinary Center for the Study of Biocomplexity* at the University of Notre Dame through the Research Experience for Teachers program at QuarkNet. The subject of computational biomodeling is a cutting-edge field which incorporates mathematics, physics, chemistry, engineering, computer science, and biology in order to make accurate predictions of biological phenomenon. This is his ninth year working on the project, which includes the creation of a series of tutorials for students and teachers along with areas of active research that can be studied by anyone accessing the site.

3D Printing Comes to KAMSC – Thanks to a tip from Ms. Hach, Mr. Cardwell and Mr. Milka spent July 20-24 at Michigan Technological University building two 3D Printers for KAMSC. The group there included more than 20 teachers from around Michigan and a couple of non-profit representatives. The workshop group built 23 RepRap 3D Printers in 2 days and spent the rest of the time calibrating them and learning to use them. The printers will be situated in Mr. Cardwell's lab and will be available for academic use at KAMSC.

Mike Sinclair: All-Star Teacher



This past July 15th, KAMSC teacher Mike Sinclair was one of thirty teachers representing every Major League Baseball team introduced along with players on the field and serenaded by Broadway star Idina Menzel before the start of Tuesday's 85th All-Star Game at Target Field in Minneapolis. Sinclair, along with 29 other outstanding educators, was one of the winners of the *Target Presents People All-Star Teachers* campaign, celebrating remarkable current and retired teachers who make an impact on the lives of their students and communities. The teachers were nominated from among thousands of candidates, and fans voted at AllStarTeachers.com to decide on a winner for each club. Each winner was allowed to bring a companion to All-Star Week, where they were given the royal treatment. They were introduced during the press conference Monday to announce All-Star lineups, and they rode in a pair of trolleys during the 10th annual All-Star Game Red Carpet Parade presented by Chevy.

"It was overwhelming," said Sinclair after the game. "To be honored in front of all these amazing fans, national television – it's such a moment of pride and a thrill for me. I am incredibly indebted to my students, the parents, my family, and my colleagues. Thank you." Sinclair teaches calculus, physics, and senior geology and astronomy and has been at the Center since 1988.

A note from Ms. Joyce Student Advocate

Congratulations to the KAMSC class of 2014!

We are proud of the commitment to learning shown by the class of 2014. These 68 students collectively received 241 acceptances to 85 different colleges. As they attend college, they plan to use \$4,240,492 in scholarships and grants that they have been awarded (a new high)! We wish them well on their next adventures and hope they come back to share their stories with current KAMSC students for Alumni Day in December.

KAMSC College Night

Please join us for College Night on Wednesday, October 1 at 7:00 pm in the Presentation Center. This is an especially valuable opportunity for juniors and seniors and their parents. During this event, representatives from Kalamazoo College, Michigan State University, the University of Michigan and Western Michigan University will discuss how to choose a college that is the right fit for KAMSC students. There will be a panel discussion and time for parents and students to ask individual questions of the representatives who will read your applications.

Scholarships

The Kalamazoo Foundation Scholarship Guide at kalfound.org has local scholarship information.

Fast Web is a free scholarship search available at fastweb.com.

Avoid sites that ask you to pay a fee for information.

Transcripts

In addition to your official high school transcript, we recommend that you send your KAMSC transcript with your college and scholarship applications.

To request a KAMSC transcript, go to Parchment.com. You will need to create an account the first time you use Parchment.com.

Questions regarding college planning, scholarships, or transcripts?

**Visit kamsCADVOCATE.weebly.com
OR email Ms. Joyce at rjoyce@kamsc.k12.mi.us**

A note from the Parent Organization

The 2013-2014 was another fantastic school year for the KAMSC family. Students, parents, and KAMSC staff successfully completed many projects over the year. With everyone's help, the Parent Organization was able to provide funds 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, 9th Grade Orientation, and the end of the year staff appreciation lunch.

We want our students to reach their goals successfully and we all have different roles and responsibilities to help accomplish that. What takes place at KAMSC year-in and year-out takes challenging, coordinated effort by all involved and we thank you for that. Whether it was the 9th Grade Orientation or Mixer, the Open House, the Senior-Mentor Tea, the Senior Recognition Ceremony, KAMSC staff luncheon, Pi Day or field trips... these are examples of events that took a great deal of attention, detail and preparation. We truly appreciate what you have done and you will be rewarded in one way or another, but mainly by the impact your actions have left on our kids.

KAMSC teachers, director, and office staff: we cannot thank you enough! The efforts and hours you put into making the experience at KAMSC special for our children are much appreciated. The direction and guidance you provide our students is what makes their experience manageable and rewarding.

Parent Organization volunteers: Thank you for another great year at KAMSC and for your involvement.

KAMSC parents: if you have not been involved, or your child is about to join the KAMSC family, we ask that you please get involved. At a minimum, please come to our meetings. This is a great opportunity to make a difference! 2013-2014 parents attendance at the PO meetings was less than desired and we are hoping to change that with meeting at a higher level of engagement and information. We have few surprises planned for you as well. Below are the dates of the meetings, so please pencil them in on your calendars and join us!

2014-2015 school year here we come!

Shaher Ahmad, KAMSC PO President

President: Shaher Ahmad (PNHS)
 Vice President: **OPEN**
 Treasurer: Karen Woodworth
 Secretary: Justine McKenzie

Parent Ambassador: Amy Schafer
 Volunteer Coordinator: Sue Bourget
 Senior Activities Coordinator: Nicole Reid
 Student Senate Advisor: Rodney Pruitt

2014-2015 KAMSC school year Parents Organization meeting schedule			
Month	Date	Month	Date
Sept	17 th	Jan	21 st
Oct	15 th	Feb	18 th
Nov	19 th	Mar	18 th
Dec	17 th	April	15 th
Meetings start @ 6:15pm in the KAMSC Presentation Center		May	20 th

2013-2014 Awards

Awards of Academic Achievement

Director's Awards of Academic Excellence

(All A's – 7 semesters)

Rachel Chang	Emily Fletcher	Alexandria Oswalt	Thomas Sandell
Aaron Claussen	Humza Mirza	Rachel Polus	Genevieve Sertic
Edward Escandon	Jacob Naranjo	Amber Salome	Maria Stull

High Honors

(All A's and at most one B)

Seniors

Ella Freudenburg	Geneva LaForce	Katherine Wu
Angus Gibbs	Madelene McKenzie	

Juniors

Cameron Andrews	Edward Fenwick	Binh Le	Kabir Rastogi
Hailey Blinkiewicz	Samuel Gulliver	Benjamin Maddux	Farzad Razi
Patrick Callahan	Carolyn Hamman	Cydney Martell	Abigail Shirey
Abby Chapin	Subhodh Kotekal	Jorge Ochoa	Margaret Smith
Kathleen D'Souza	Kimberly Kwon	Kayla Park	Kevin Werme

Sophomores

Sami Ahmad	Emily Brady	Lily Krone	Matthew Ring
Jawad Aqeel	Quincy Bullmer	Maya Lannen	Alexis Roberts
Ashton Armstead	Savannah Crooks	Chloe Lipovsky	Simran Singh
Connor Bach	Jack Eichman	Ericka Lozon	Judy Smith
Eleanor Barlow	Chelsie Eiden	Samuel Maddox	Michael Tarn
Benjamin Beach	Natasha Goenawan	Alexandrea Malek	Ali Thomas Jr.
Margaret Benjamin	Tristan Greathouse	Riley Martell	Rachel Torres
Grace Beverage	Kento Hirakawa	Ziyan Mo	Alexa VanderHoff
Nikita Bhatia	Otto Kailing	Paige O'Connor	Emily Veenhuis
Sydney Bodzianowski	Andrew Keene	Michael Orwin	Hannah Wang
Brandon Born	Matthew Krinock	Boemin Park	Arthur Woodworth

Honors

(All A's & B's and at most one C)

Seniors

Emily Barnum	Abhay Goel	Paras Mehta	Katherine Rothe
Darcy Billian	Carley Gordon	Clayton Meldrum	Hanna Rumora
Ryan Brozovich	Spencer Henning	Kyle Milka	Thomas Rupp
Carter Chamberlain	Thomas Hurst	Joshua Mussche	Naveena Thota
Ansh Chaudhary	Kyle Janowicz	Rachael Noteboom	Ethan To
Michael Crandell	Humza Khan	Dhara Patel	Sara Torres
Mitchell Curtiss	Kitu Komya	Alexandra Peirce	Jenner Wile
Benjamin Dunham	Macneal Lee	Samuel Peters	Taryn Withers
Jacob Fenton	Tyler Leverton	Sarah Piper	
Nicholas Gaunt	Tate Mazer	Anna Roodbergen	

Juniors

William Baldwin	Anna DeRango	Sharat Kamath	Skylar Rizzolo
James Batsell	Seth Eldridge	Lyric Kleber	Peter Schultz
Grace Beck	Anna Emenheiser	An Le	Jake Spitsbergen
Isaac Bertman	Eleanor Epskamp-Hunt	Benjamin Lenning	Elizabeth Strehl
Madelyn Betts	McKinzie Ervin	Hannah Meyers	Haley Wait
Samuel Bower	Shelby Esman	Zacharias Mills	Matoska Waltz
Kaylie Butt	Calvin Folsom	Ugochukwu Nwagbo	Jessica Wile
Ian Chu	Isabella Haney	Helen O'Leary	Tristan Woodsmith
Adam Coles	Colby Hanley	Gabrielle Perrin	Chang Yang
Alec Comes	Lars Johnson	Elizabeth Reid	

Sophomores

Andrew Beck	Jacob Heasley	Jessica Poling	Eryka Swank-Schreffler
Benjamin Behrens	Finneas Johnson	Henry Poznanski	Jason Taft
Alex Cannizzaro	Lindsey Johnson	Mitchell Rockwell	Nicholas Wahl
Keegan Canny	Anthony Kayany	Kimberly Romph	Colin Whitman
Nathan Couk	Matthew Maple	Matthew Ruge	Colleen Whitman
Carley Dziewicki	Jamila McKenzie	Drew Schaefer	
Shivam Gautam	Grace Miles	Alan Seager	
Jori Gelbaugh	Kaylee Musselman	Lydia Swager	

Medallion Awards

Senior Medallion Criteria: Recipients of the senior medallion are selected not just for academic achievement, 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:

Marie Freudenburg	Racahel Polus	Sara Torres
Abhay Goel	Thomas Sandell	Katherine Wu
Jacob Naranjo	Genevieve Sertic	
Alexandria Oswalt	Maria Stull	

Junior Medallion Criteria: This award is awarded based on 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; these are the juniors who received the Medallion Award:

Cameron Andrews	Carolyn Hamman	Kevin Werme
Patrick Callahan	Lyrice Kleber	Tristan Woodsmith
Abby Chapin	Kayla Park	
Mckinzie Ervin	Jake Spitsbergen	

Sophomore Medallion Criteria: Recipients of the sophomore medallion exhibit tireless enthusiasm for learning, takes advantage of extra opportunities to achieve, perseverance in subject mastery, works well with classmates, high level of integrity, academic excellence in all KAMSC subjects. The sophomores who received the Medallion Award are:

Sami Ahmad,	Savannah Crooks	Page O'Connor
Jawad Aqeel	Jack Eichman	Michael Orwin
Ben Beach	Matthew Krinock	
Brandon Born	Lily Krone	

9th Grader 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. The ninth graders who received the Medallion Award are:

Ashton Bjork	Kyra Kothawala	Duncan Wallis
Zoe Folsom	Samuel Ratliff	Ava Wood
Caroline Jordan	Stephanie Rauhoff	
Lily Kitagawa	Vaughn Taylor	

Chemistry Awards

American Chemical Society Competition—Kalamazoo Winners: 2014 Competitive Scholarship in Chemistry

Tyler Leverton—9th Place

Sydney Bodzianowski—Honorable Mention

Joshua Mussche—Honorable Mention

Math Awards

57th Annual Michigan Mathematics Prize Competition

In October, KAMSC had over 200 participants for Part 1 of the 57th 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, by earning a score of 17 or higher, out of 40:

Aheer Alvi	Brandon Born	Benjamin Dunham
Abhay Goel	Anthony Kayany	Audrey Lyons
Ziyan Mo	Kayla Park	Ethan To
Isaac Bertman	Carter Chamberlain	Jack Eichman
Claire Holley	Matthew Krinock	Alexandra Malek
Jacob Naranjo	Jesse Pollens-Voigt	Alexa Vanderhoff
Grace Beverage	Ian Chu	Nicholas Gaunt
Otto Kailing	Lily Krone	Praneeth Medepalli
Michael Orwin	Jason Taft	

Michigan Math League Contest

The Michigan Math League Contest consists of six math competitions given during the school year. Each competition consists of six problems. The following students earned the highest cumulative score at KAMSC:

1st: Abhay Goel

2nd : Jacob Naranjo

3rd: Ian Chu

2013—2014 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:

Tied for 3rd place, with 32/40 points – Benjamin Beach & Mitchell Curtiss

2nd place, with 36/40 points – Abhay Goel

1st place, with 37/40 points – Jacob Naranjo

Computer Competitions

Eastern Michigan University MACUL Team
2nd, 2nd, 3rd, 7th, 8th Place--66 Students

SENIORS

Carter Chamberlain	Nick Gaunt	Dhara Patel	Genevieve Sertic
Rachel Chang	Angus Gibbs	Sam Peters	Maria Stull
Ansh Chaudhary	Abhay Goel	Rachel Polus	Ethan To
Aaron Claussen	Humza Khan	Katherine Rothe	Jenner Wile
Ben Dunham	Tate Mazer	Hanna Rumora	Taryn Withers
Edward Escandon	Kyle Milka	Thomas Rupp	Katherine Wu
Jake Fenton	Humza Mirza	Amber Salome	
Emily Fletcher	Jacob Naranjo	Tom Sandell	

JUNIORS

Bill Baldwin	Carolyn Hamman	Chloe Mendez	Abby Shirey
Evan Batsell	Colby Hanley	Zach Mills	Matoska Waltz
Isaac Bertman	Subhodh Kotekal	Ugo Nwagbo	Kevin Werme
Kaylie Butt	Kimberly Kwon	Kayla Park	Tristan Woodsmith
Ian Chu	Binh Le	Ellie Reid	
Kathleen D'Souza	Ben Maddux	Skylar Rizzolo	
Ed Fenwick	Cydney Martell	Parker Russcher	

SOPHOMORES

Sami Ahmad	Ben Beach	Matthew Krinock	Michael Tarn
Connor Bach	Brandon Born	Paige O'Connor	Emily Veenhuis
Nell Barlow	Savannah Crooks	Michael Orwin	

Computer Competitions (Continued)

Saginaw Valley State University ACM Team 1st, 2nd, 3rd Place--72 Students

SENIORS

Rachel Chang	Marie Freudenburg	Humza Mirza	Thomas Rupp
Ansh Chaudhary	Nick Gaunt	Jacob Naranjo	Tom Sandell
Aaron Claussen	Angus Gibbs	Dhara Patel	Maria Stull
Ben Dunham	Abhay Goel	Sam Peters	Ethan To
Ed Escandon	Humza Khan	Rachel Polus	Jenner Wile
Jake Fenton	Tate Mazer	Grace Reid	Taryn Withers
Emily Fletcher	Kyle Milka	Hanna Rumora	Katherine Wu

JUNIORS

Bill Baldwin	Colby Hanley	Ugo Nwagbo	Matoska Waltz
Evan Batsell	Subhodh Kotekal	Kayla Park	Kevin Werme
Isaac Bertman	Kimberly Kwon	Ellie Reid	Tristan Woodsmith
Kaylie Butt	Binh Le	Skylar Rizzolo	
Ian Chu	Ben Maddux	Parker Russcher	
Ed Fenwick	Cydney Martell	Abby Shirey	

SOPHOMORES

Jawad Aqeel	Jack Eichman	Jamila McKenzie	Simran Singh
Nell Barlow	Jori Gelbaugh	Ziyan Mo	Ali Thomas
Maggie Benjamin	Natasha Goenawan	Paige O'Connor	Rachel Torres
Grace Beverage	Kento Hirakawa	Michael Orwin	Emily Veenhuis
Nikita Bhatia	Tony Kayany	Boemin Park	Arthur Woodworth
Sydney Bodzianowski	Sam Maddox	Matt Ring	

Computer Competitions (Continued)

Technology Student Association TEAMS competition Trine University in Angola, Indiana

Varsity A

5th Place, Michigan, Division 2

Amber Salome, Senior (Co-Captain)
Angus Gibbs, Senior (Co-Captain)
Clayton Meldrum, Senior
Humza Mirza, Senior
Taryn Withers, Senior
Evan Batsell, Junior
Abby Chapin, Junior
Kayla Park, Junior

Varsity B

**1st Place, Michigan overall
1st Place, Michigan, Division 2**

Rachel Polus, Senior (Co-Captain)
Genevieve Sertic, Senior (Co-Captain)
Marie Freudenburg, Senior
Abhay Goel, Senior
Jacob Naranjo, Senior
Cam Andrews, Junior
Carolyn Hamman, Junior
Subhodh Kotekal, Junior

Miami University ACM Teams--19 Students 1st,4th,5th,10th Place--April 26

SENIORS

Ansh Chaudhary	Abhay Goel	Kyle Milka	Sam Peters
Aaron Claussen	Humza Khan	Jacob Naranjo	Tom Sandell
Ed Escandon	Tate Mazer	Dhara Patel	Katherine Wu

JUNIORS

Evan Batsell	Subhodh Kotekal	Zach Mills
Ian Chu	Chloe Mendez	Ugo Nwagbo

SOPHOMORE

Sam Maddox

Computer Competitions (Continued)



Michigan State University Programming Team
1st, 3rd, 5th, 6th, 8th, 9th Place--17 Students

Lady Warriors

Dhara Patel
Maria Stull
Katherine Wu

MicroChix

Amber Salome
Genevieve Sertic
Taryn Withers

Gryffindor

Kimberly Kwon
Ellie Reid
Abby Shirey

Cats Pajamas

Rachel Polus
Katherine Rothe
Hanna Rumora

Cyber Women

Kathleen D'Souza
Carolyn Hamman
Chloe Mendez

CodersFromHellMI

Rachel Chang
Cydney Martell

Computer Competitions (Continued)



Indiana-Purdue IUPUI Team
Computer Science 1st, 2nd, 3rd Place--24 Students
Game Programming 1st Place

Advanced CS

Carter Chamberlain
Ed Escandon
Kyle Milka
Tom Sandell
Maria Stull
Katherine Wu

Intermediate CS

Evan Batsell
Zach Mills
Ben Maddux
Skylar Rizzolo
Matoska Waltz
Sami Ahmad
Connor Bach

Jack Eichman

Nell Barlow
Michael Orwin
Brandon Born
Ben Beach
Sam Maddox
Paige O'Connor

Gamers

Aaron Claussen
Jenner Wile
Savannah Crooks
Emily Veenhuis

Computer Competitions (Continued)



University of Michigan-Dearborn Team--35 Students
Computer Science 1st, 3rd, 4th, 5th Place
Game Programming 1st Place
Simulation 3rd Place

Engineers

Rachel Chang
Humza Khan
Amber Salome
Ethan To
Taryn Withers
Isaac Bertman
Kathleen D'Souza
Ellie Epskamp-Hunt
Colby Hanley

Cydney Martell
Matoska Waltz
Tristan Woodsmith

Gamers

Tate Mazer
Hanna Rumora
Bill Baldwin
Kimberly Kwon
Ellie Reid
Parker Russcher

Programmers

Aaron Claussen
Ben Dunham
Ed Escandon
Nick Gaunt
Angus Gibbs
Abhay Goel
Kyle Milka
Jacob Naranjo
Dhara Patel

Thomas Rupp

Tom Sandell
Maria Stull
Katherine Wu

Evan Batsell

Ben Maddux

Simulation

Ansh Chaudhary
Sam Peters

Computer Competitions (Continued)



**American Computer Science League
ACSL All-Star International Team
Denver, CO--May 24**

To read more, please visit: http://www.mlive.com/news/kalamazoo/index.ssf/2014/06/kamsconline_students_win_honors.html

SENIOR TEAM

1st place programming, 1st place overall

Aaron Claussen

Abhay Goel

Kyle Milka

Jacob Naranjo

Tom Sandell

Perfect All Star individual scores:

Abhay Goel

Jacob Naranjo

Tom Sandell

Perfect regular season scores:

Kyle Milka

Jacob Naranjo

INTERMEDIATE TEAM

1st Place US team, 3rd overall

Evan Batsell

Dhara Patel

Genevieve Sertic

Maria Stull

Katherine Wu

Perfect regular season score:

Evan Batsell

Computer Competitions (Continued)

National Center for Women & Information Technology State Awards Michigan State University's Kellogg Center, East Lansing

Rachel Chang, Senior	Amber Salome, Senior
Emily Fletcher, Senior	Katherine Wu, Senior
Hanna Rumora, Senior	Carolyn Hamman, Junior
Maria Stull, Senior	Kaylie Butt, Junior
Dhara Patel, Senior	Kathleen D'Souza, Junior
Katherine Rothe, Senior	Colby Hanley, Junior

Twelve of twenty women to receive awards at this competition were KAMSC students! To read more please visit:
http://www.mlive.com/news/kalamazoo/index.ssf/2014/03/kalamazoo_county_girls_dominat.html

Computing Olympiad (USACO)

Gold

Edward Escandon, Senior
Abhay Goel, Senior
Kyle Milka, Senior
Jacob Naranjo, Senior

Silver

Carter Chamberlain, Senior
Aaron Claussen, Senior
Angus Gibbs, Senior
Tom Sandell, Senior
Katherine Wu, Senior
Evan Batsell, Junior
Michael Orwin, Sophomore

Bronze

Emily Fletcher, Senior
Humza Khan, Senior
Dhara Patel, Senior
Katherine Rothe, Senior
Gevevieve, Sertic, Senior
Maria Stull, Senior
Bill Baldwin, Junior
Ed Fenwick, Junior
Binh Le Junior
Ugo Nwagbo, Junior

CodeWarrior Inductions

Aaron Claussen, Senior
Zach Mills, Junior
Ugo Nwagbo, Junior

Computer Awards (Continued)

The Air Zoo in Portage, Michigan hosts an event each year to promote science, technology, engineering, art, and math . This year five students were awarded the Student Excellence Award, three of which were KAMSC Students. The Air Zoo also awarded four educators with Educator Excellence Awards and our own Shannon Houtrouw received one!



Student Excellence Award Winners

Tate Mazer
Tom Sandell
Genevieve Sertic

Educator Excellence Award Winner

Shannon Houtrouw

To read more about this event please visit:

http://www.mlive.com/news/kalamazoo/index.ssf/2014/05/kalamazoo_air_zoo_honors_5_stu.html

Research Awards

SI Metric Award Edward Fenwick	The longevity of graphite, carbon, and silver based screen printed strain gauges
2nd Place Individual Regional Science Fair 1st Place Junior Science Humanities Symposium Research Competition Marie Freudenburg	Reflection functions as approximants of Chebyshev polynomials
Participant In Michigan HS Science Research Symposium Angus Gibbs	Silver-44 nanoparticles as light harvesting agents
Participant in Junior Science Humanities Symposium Competition KAMSC Parent Award for Outstanding Research Abhay Goel	Periodicity analysis of false solutions to variable degree forms of Fermat's Last Equation
Participant In Michigan HS Science Research Symposium Carolyn Hamman	The competitive outcome between two strains of <i>Thalassiosira pseudonana</i> grown at 20 °C
Participant in Junior Science Humanities Symposium Competition American Psychological Society Award Humza Mirza	Motor sequence learning in Kalmann patients and healthy controls
3rd Place Junior Science Humanities Symposium Competition Bethel Mwenze	Animal communication in a changing world: Do field sparrows adjust their songs in response to anthropogenic noise?
Participant In Michigan HS Science Research Symposium Jorge Ochoa	Effects of parasympathetic and sympathetic neurotransmitters on neurotrophic factor expression in cardiac muscle cells
KAMSC Parent Award for Outstanding Research Rachel Polus	Modeling various thrusts on a CubeSat
Yale Engineering Award Miles Pruitt	Sensor analysis on bridge structural integrity

<p>3rd Place Individual Regional Science Fair Amber Salome</p>	<p>An analysis of degenerative joint disease (DJD) patterns in pastoralist and agriculturist populations of different time periods and regions of China</p>
<p>1st Place Individual Regional Science Fair Participant in Junior Science Humanities Symposium Competition RICOH Award Genevieve Sertic</p>	<p>Experimental analysis of the benefits and drawback of roof-top agriculture</p>
<p>Surgeon General Award Sara Torres</p>	<p>Upper extremity injuries in US School male and female swimmers</p>
<p>2nd Place Team Regional Science Fair Participants In Michigan HS Science Research Symposium McKinzie Ervin & Kimberly Kwon</p>	<p>The effectiveness of using yeast surface display to present binding regions of canine antibodies</p>
<p>1st Place Team Regional Science Fair Ally Peirce & Katherine Wu</p>	<p>Bioremediation of the Enbridge oil spill through bioaugmentation</p>

Scholarships

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, a competitive spirit, leadership, high respect from everyone encountered, and a special caring for people. Congratulations to this year's recipient:

Genevieve 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. Congratulations to this year's recipient:

Emily Barnum

Book Awards

Biology

This student demonstrates interest in the life sciences that go beyond the classroom; someone for whom biology really “pops their twitzel.”

Lily Kitagawa

AP Biology

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

Subhodh Kotekal

Honors Chemistry

This student has a curiosity and a passion for scientific investigation.

Benjamin Beach

AP Chemistry

This student has a curiosity and a passion for scientific investigation.

Cameron Andrews

Physics

This student must have shown solid academic success, a strong work ethic, and a passion and curiosity for learning.

Kevin Werme

Advanced Physics

This student demonstrated curiosity, enthusiasm, deigned, and a love for the subject.

Aaron Claussen

Biomedical Science

This student displays both aptitude and interest for human biology and physiology.

Meredith Stutz

AP Environmental Science

This student shows consistent and wide-ranging passion for the health and welfare of the planet Earth and demonstrates their involvement with action

Abby Chapin

Information Technology

This student demonstrated outstanding interest, commitment and leadership across a diverse group of topics and projects in IT.

Gerrit Rummel

Sophomore Computer Science

This student demonstrated exceptional academic achievement, diligence, leadership and contributions to KAMSC Computer Teams that are marked by excellence.

Michael Orwin

Advanced Computer Science

This student demonstrated exceptional academic achievement, diligence, leadership and contributions to KAMSC Computer Teams that are marked by excellence.

**Jacob Naranjo &
Katherine Wu**

AP Computer Science

This student demonstrated exceptional academic achievement, diligence, leadership and contributions to KAMSC Computer Teams that are marked by excellence.

Evan Batsell

Genetics

Abhay Goel & Alexandria Oswalt

Tentative Rolling Calendar 2014-2015

Keep in mind that all dates & times are subject to change

DATE	DAY	TIME	DESCRIPTION
8/25	Monday	2:00 - 5:00 PM	9th Grade Orientation @ KNC
9/1	Monday		Labor Day - No School
9/2	Tuesday		No Students
9/3	Wednesday		1st day for KAMSC students
9/10	Wednesday	6:30 - 8:30 PM	KAMSC Open House
9/15	Monday	2:00 PM	College Visit - Washington University (St. Louis)
9/17	Wednesday	6:00 - 7:30 PM	Open Lab Begins (every Wed. unless otherwise indicated)
9/17	Wednesday	6:00 - 7:30 PM	9th Grade Mixer (room 130)
9/17	Wednesday	6:15 - 7:00 PM	Parent Organization Meeting
9/18	Thursday	2:00 PM	College Visit - The Cooper Union
9/22	Monday	2:00 PM	MDOT Project (PM)
9/23-25	Tues-Thurs		Bog Visits - 9th Graders
9/30	Tuesday	9:50 AM	Olympiad Mtg.
9/30	Tuesday	8:00 - 10:15	MMPC Part-1 Test
10/1	Wednesday		State Count Day
10/1	Wednesday	7:00 PM	KAMSC College Night (in Presentation Center)
10/15	Wednesday		(MEAP Tests @ HS)
10/24	Friday	AM	10th Annual KAMSC Olympiad
10/31	Friday		No Students
11/3-7	All Week	All Day	Spirit Week
11/12	Wednesday	5:30 - 8:30 PM	Parent Teacher Conferences (No Open Lab)
11/13	Thursday	5:30 - 8:30 PM	Parent Teacher Conferences
11/14	Friday	7:30AM - 2:30 PM	Parent Teacher Conferences (No Students)
11/26	Wednesday		No School
11/27 & 28	Thurs - Friday		Thanksgiving Break
12/2-4	Tues - Thurs		9th Grade Research Onset (Library Week)
12/7	Sunday	2:00 – 4:00 PM	Senior Mentor Tea
12/8	Monday	7:00 PM	8th Grade Open House
12/10	Wednesday	8:00 – 10:15 AM	MMPC Part-2 Test
12/19	Friday	PM	Alumni Day
12/22-1/2	Mon-Fri		Winter Recess
1/12-13	Mon - Tues	TBD	Math & Science Exams (AM)
1/12-14	Mon - Wed	TBD	Elective, Math, Science Exams- (PM)
1/14	Wed.		NO OPEN LAB
1/16	Fri.		End of 1st Semester

KAMSC Announcements

KAMSC Public Calendar

Be sure to visit our online calendar to stay on top of the latest and greatest! Go to kamsconline.com, click 'links' on the left side, and scroll down to 'KAMSC Public Calendar.'

Lost & Found Items

Be sure to check the lost & found in the KAMSC office to see if anything belongs to you. Items not claimed will eventually be donated to Goodwill

Elevator Use

Students may use the elevator only for medical or physical reasons and only for a specified period of time. Please have a doctor's note or a parent call KAMSC to inform the office if this occurs.

Backpack Reminder

Students may leave backpacks in the front of lockers and shelves only. Please do not block doorways, elevators, fire boxes, etc. The backpacks should be set close to the lockers, walls, etc. so others do not trip on them.

Parking Stickers

Please note: Students who drive and park at KAMSC are required to register their vehicles with the KAMSC office. You will be issued a free parking pass, if you do not have a parking pass, you may be towed. Students: Please park in the student parking area at the north end of the parking lot between El Sol Elementary and the CEC Building (KAMSC).

Open Lab Nights

Starting September 17 on Wednesday evenings from 6-7:30pm we host open labs. As a reminder students should be picked up in a timely manner.

School Closings

Severe weather often brings school closings. If Kalamazoo Public Schools close due to bad weather—KAMSC will be closed. Students whose district school is closed due to bad weather are **strongly encouraged to consider safety first** when deciding whether or not to attend their KAMSC classes.

KAMSC Parents/Guardians & Volunteers

THANK YOU!

Thank you to all of the parents/guardians and volunteers who sacrifice their time helping out with multiple undertakings at KAMSC. Without your assistance, we would be short-staffed and face challenging deadlines while trying to accomplish the necessary tasks, all which contribute to the success of KAMSC. You are a very important part of the equation and we could not be as effective without your help!

A Special "Thank You"

KAMSC staff would like to thank donors for their generous donations of supplies and equipment as well as the monetary contributions that were given last year.

Your generosity is very much appreciated!