THE LOCAL MOTIVE A CLF STEAM SEASONAL PUBLICATION



Autumn '16 First Edition

Welcome Message CLF's CEO, Mr. Karaman

Dear CLF Family,

It is with great pleasure I welcome you to share our excitement for all of our CLF schools' achievements during the past 2015-16 school year. Chesapeake Science Point Academy (CSP), our first school in Maryland, continues building its reputation as a beacon of STEM education and has enjoyed a solid decade of success, hundreds of awards, and just recently celebrated its third graduating class. Together, we have also built a notorious brand of schools in Prince George's County: Chesapeake Math and IT Academies (CMIT). Our impressive families and educators that make our CMIT schools a success have swiftly stepped forward with their own distinguished accomplishments. Our results are many and continuing.

To highlight a few: all CLF schools enjoyed more recognition in STEM events we participated and competed at the local, state-wide, and national levels. We've attracted an increase of parental involvement that is the fulcrum of our students' ongoing progress. Every stakeholder and partner truly enjoyed several amazing CLF-wide events such as our STEM Fair, Culture FEST, College Leadership Program, etc.

Looking ahead, the 2016-17 school year will be exciting! Our CMIT North Academy will be having its first graduation this year as the CLF Alumni of '14, '15 & '16 will welcome the 2017 Senior Classes at CSP and CMIT North. Further, the CMIT North HS construction project has already begun and we can all celebrate this addition of access to another hi-tech education complex in our CLF / PGCPS community.

Also, our CMIT South Academy is already proud to have our first 9th grade class. Adding, CMIT South kicks off their ITEC partnership with PGCC in our amazing facility.

Together, the CLF family of parents, students, teachers and administrators have worked hard to raise the bar, as a team last year, and as CEO, I cannot be more proud. Thank you for your continued efforts.

Please know, this new school year will keep CLF working hard to lead the way in providing and managing the high standards and excellent opportunities for our students. We know expectations are high from the community we serve. It is our children, for generations, that will benefit the most from the work we do today. If you would like to find out how you can be more involved in our CLF family, please visit our website at clfmd.org. I can assure you, it will be more than worth it. Be the foundation.

Hakki Karaman **CLF Chief Executive Officer**



What the caterpillar calls the end of the world, the master calls a butterfly. -Richard Bach

The best and most beautiful things in the world cannot be seen, nor touched, but are felt in the heart. -Helen Keller

The Chesapeake Lighthouse Foundation dedicates this issue to

Jamie Parper & Christina Lynn Schenck

These members of our CSP community battled cancer while inspiring the countless lives they touched. They instilled hopefulness and love for others while brightening the hallways of our school and enriching the lives of our students, staff, and families with an overwhelming joy, every day. Our community will forever remember, grieve the loss, and celebrate the lives of two of its most vibrant warriors.



CALLING ALL ARTISTS! GET PUBLISHED in The Local Motive & see your work in print!

ATTENTION CLF Staff & Students! You are artistic, creative, amazing, & talented students, teachers & admins...Help us put the "A" in *STEAM*!!

CLF believes our innovative schools should be adding to our STEM concepts with an <u>amazing 'A' for the ARTS!</u>

Submit your creative work to: The Local Motive by emailing CLF Community Partnerships Director: MSUTHERLAND@CLFMD.ORG

Suggested examples include—b&w or color photography, drawing, painting, or if a sculpture, glasswork, metalwork, needlework, fashion design, etc. then please take a HQ photo. ANYTHING ART!

WRITERS WELCOME TOO! Poetry, an academic essay, short story (sci-fi, non-fiction, fiction)!

If it's ART you've created...

...then consider being published!

All published artists will be invited to our end-of-the-year CLF STEAM GALA!



Submitted By: Alexes Shelton, SENIOR @CSP Class of 2017

2015-16 CSP HS Math Team Extends Winning Streak to 20 in-a-row!

CSP extended its streak of 1st place finishes to an astonishing 20 consecutive competitions at the Anne Arundel Community College (AACC) High School Math Competition. The team received a citation from the Anne Arundel County Executive, Steven R. Schuh, coverage in local Capital Gazette, and a special CLF sponsored luncheon.



CSP HS Math Team Defends AACC Math Title—5th Consecutive Year!

CSP High School's Math team won the fifth and final competition of the Anne Arundel Community College's (AACC) 2016 High School Math Competition season and won the competition tally for the 5th year in-a-row! Given that this is only the High school's 6th year, CLF couldn't be more proud of it's historic math team.





CSP Sea Perch Team—Maryland State Champions!

CSP Middle School's Robotics team competed in the 2016 SeaPerch Maryland State Championships in April,





CSP High School Science Olympiad Team Wins 3rd Place in State Finals

CSP High School's Science Olympiad team competed at the Maryland Science Olympiad State Finals, where students took home 12 bronze medals, with the school winning 3rd place overall out of 24 teams.





CMIT North Students Compete in World's Largest Rocketry Contest



Four students from CMIT North entered the TARC program -- the world's largest rocketry contest and the aerospace industry's signature STEM program for young adults.

Over the course of the contest, students were exposed to a hands-on engineering experience in which they learned skills need to design and build a rocket to meet the program's



challenging criteria. With the guidance of Coach Graham, students successfully built and launched their very own rockets!

Houston, we have no problem aiming high!



CMIT North Cricket—Silver Division Champions!

Following a 57-53 victory over Benjamin Tasker MS, CMIT North's Cricket Team were crowned **2015 Silver Division Cricket Champions** in their inaugural season! CMIT North bowler Dion Meeks bowled out 5 wickets while batsmen Chase van der Have and Chase Washington scored 22 and 12 points, respectively. Congrats to the first ever CMIT Cricket Team on their amazing victory!





National Engineering Competition: First Place for CMIT North High School Math Team!

CMIT North's High School Math Team placed first in the National Society of Black Engineers' (NSBE) Try-Math-A-Lon in Boston, MA.

High School students Brian Ndofor, Orooluwa Brown, Jeffrey Greer, Robert Allsbrooks, Youngchan Harthausen, and Chigoze Maduka competed in 3 events: an engineering round, a mathematics test, and a jeopardy-style competition, in which they finished in first place with 1900 points.

Thank you to our coaches Mr. & Mrs. Allsbrooks, Mrs. Brown, and Mr. Davis for their support and guidance throughout the competition.



CMIT North Middle School Math Teams Takes 2nd—Naval Surface Warfare Center, Carderock!



CMIT North's Middle School Math Team won 2nd Place at the 7th Annual Carderock Math Contest (CMC) at the Naval Surface Warfare Center (NSWC), Carderock Division in West Bethesda, Maryland. CMC is an invitational math contest for middle school students from the District of Columbia, Maryland and Virginia private and public schools.

The competition consisted of three main rounds: a Team Round, and an individual round to including the Target Round and the Sprint Round. Students were given timed mathematics problems in each round. The two CMIT North teams consisted of "2 ∞ + Beyond!" (Arya Pawar, John Ikegwu, Joshua Ikegwu and Kevin Le), and "The \prod rates" (Kavyasri Gouda, Favour Fatusin, Haris Chaudry and Ian Kaba). 2 ∞ +Beyond! won 2nd place in the Starboard division's Team Round, while Kevin Le won 2nd place in the Starboard division's Individual Sprint Round.

A big congratulations to all of our students representing CMIT North & to Mr. Avsar for

coaching and leading the team. Gratitude to CLF for sponsoring and to Mrs. Pawar and Mrs. Ikegwu, our parent chaperons. Thank you to all the CMIT staff and parents for their support in preparing our students.



Now all CMIT High Schools Offer ITEC Program: Students Graduate HS w/ IT Associate Degree!



Information—Technology—Early—College

What if you could... Graduate High School & Earn a College Degree? Coulcant







The math's simple: 1 HS Diploma + 2 yr. IT Degree = CMITs' ITE CProgram

CMIT North Science Olympiad Team Wins 2nd Place & Advances to State!

CMIT-North participated in Science Olympiad in both Middle and High School Category on Saturday Feb 20th, 2016 at University of Maryland at College Park. The CMIT -N Middle School Tigers won 6 Gold, 1 Silver, 5 Bronze medals, 1 4th place and took the 2nd place in overall score as a team in Science Olympiad Regional Tournament.

Many thanks to all staff, students and parents for making the Science Olympiad another great success.



CMIT North Tigers Take Home 4th Place Win at Maryland State Regional Chess Tournament



On March 19th, middle school students from CMIT competed in the Maryland State Chess Championships in Baltimore, Maryland. As a team, the Tigers placed 4th in the State in their middle school division! For Maryland Chess Association Tournaments, a full school team consists of four players, however, our three-player team still came away with a great finish! The team members were: Damon Edwards, Phillip Nissen and Ian Kaba.

8th grader, Phillip Nissen, ranks 7th in the State of Maryland!



Check Mate!

Lions of CMIT South Welcome Back Their Tigers!



On the first day of school for 2016-17, the Lions of CMIT а South. male empowerment group of parent volunteers, coaches, and community leaders. welcomed students the of CMIT South on their first day back school. tо

The Lions plan on offering mentoring programs and ongoing support to our CMIT Tigers.





Clean Up, Green Up!

In collaboration with Keep Prince George's County Beautiful, Prince George's County Public Schools, and the Maryland-National Capital Park and Planning Commission, CMIT South students participated in "Clean Up, Green Up," a project that aims to beautify PG County's public areas through planting flowers and trees. The CMIT South community demonstrated our shared commitment to keeping our communities appealing and attractive. Special thanks go to Mrs. Jessamy and the PTO for organizing this opportunity.



CMIT South Robotics Team Wins 1st & 2nd Place at JHU 2016 Robo Challenge

On April 30th, our robotics team competed in the 2016 **Johns Hopkins University Robo Challenge!** Our team brought home 1st Place in 'So You Think Your Robot Can Dance' and 2nd Place in 'Mystery Maze' challenges.

Challenge 1: So You Think Your Robot Can Dance

Teams programmed an original dance routine for their robot(s) that can last up to 2 minutes. Combination of spins, repeated sequences, and other creative movements were included in the choreography.

Challenge 2: Mystery Maze

Robots were placed in the Mystery Maze where they must autonomously navigate around corners and multi-way splits in attempts to reach the finish.



We are proud of our students Adam, Israel, and Muhammad! Thank you Coaches - Mr. Cicek, Mrs. Gray, Mr. Bayram, Mrs. Bates, and Mr. Piskin. Congratulations CMIT South Robotics Team, Mentors., & Parents!

CMIT South Robotics Team Sets A Silver Standard for Interstate VEX Robotics!



During the 2015-16 school year, CMIT South Robotics Team quickly set the standard for upcoming robotics seasons by placing in two interstate VEX Robotics Competitions. The First, in Wexford, PA, 29 high school and middle school teams competed. In the challenge, teams' robots were to collect then shoot balls to the net. CMIT South VEX Robotics Team accepted the challenge and earned a spot in the semi-finals, bringing a finalist trophy home.





Then, in Alexandria, VA, the team competed with 20 MS teams at Mount Vernon HS. Adapting from the fist competition, the CMIT South VEX Robotics Team passed all the qualification rounds and went on to elimination. The team then won their quarter-final, semi-final games, and made it to the finals! While this final game of the final elimination

round the team placed 2nd, it was a First for CMIT to have made it so far and we couldn't be more proud here at CLF! Gratitude to the dedication and efforts of all participating students, parents, teachers, volunteers, and Coach Mr. Cicek!

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CMIT North High School's NEW Building Breaks Ground Fall 2016—Plans to Open by Fall 2017!

On September 15, 2016, CMIT North High School will break gound for the new, 3-story facility, scheduled to open Fall of 2017. There will be a Gymnasium, outdoor athletic field, 32 classrooms, 6 science labs, 2 computer labs, 2 art classrooms, a Maker's Space for robotics, and 2 resource rooms. The 78,000+ sq. ft. CMIT North HS on this page are artistic renderings of what the plans are to look like. We hope you are as excited as we are to start this incredible project. Thank you to the many, many partners, stakeholders, and community leaders that have helped make this new school building a reality for our students and many future generations of CMIT families throughout Prince George's County, MD.



Our amazing students, parent leaders, & dedicated volunteers, along with CMIT's Principal Mr. Gunes, PTO President Mr. Boris Johnson, CLF Board President Mr. Spear Lancaster, CLF CEO Mr. Hakki Karaman truly thanks everyone involved in this ongoing project. Our integral CLF partners make this project possible & pictured here are many of these distinguished community leaders including: Jeff Kasman & Andrew Hynes (KasCon), Stephanie Nunn (AriumAE), Joseph DiMarco (Bohler Engineering), Zabrina Epps (PGCPS Board of Education), & Loretta White (PGCPS). Thank YOU!



DAY TIME RENDERING - VIEW OF BUILDING FRONT



CMIT South Completes Phase 2



CMIT South will be the first CLF school to have a full auditorium, equipped with state-of-the-art sound, lighting equipment, a stage, and seating for 300+ guests!



In 2015-2016, thanks to the support of Prince George's County, CMIT South moved into a huge 100k+ sq. ft. building purchased by CLF in Upper Marlboro, MD to serve current and future families of PGCPS.

During this past school year, phase II was in full swing while the CMIT middle school Tigers made headlines! Now, with 9th grade opening for 2016-2017, it's time to unveil the addition just in time for our high schoolers.

The CMIT South academy campus now boast an auditorium, an indoor athletic field, a rec room, multiple science labs, a Makerspace lab, gymnasium, and over 50 classrooms! In just three years, CMIT South will offer 6-12 grades but today, the building is already ready for CMIT's future!

> If we build it, they will learn. Be the Foundation.



Down the hall from the auditorium will be our first ever indoor soccer field! CMIT South will be able to host practices and tournaments within the facilities. Welcome to the Home of the Tigers!



CMIT Elementary Tigers Roar at Kids-For-Science STEM Fair

CMIT Elementary students attended the **26th Annual Kids For Science (KFS) STEM Fair** competition. Top results are as follows:

GOLD - Zach Ward (3rd Grade) won 1st place in Plant Science and the best overall ESE Federal Credit Union STEM Award.

SILVER – Dailyn Wray (4th Grade) won second place in Environmental science.

SILVER - Brandon Milline (3rd Grade) won second place in Mathematics.

BRONZE – Sydney Wyn, (5th Grade) won third place in Computer Science and received a special award.

BRONZE - Alexander Akintume (3rd Grade) won 3rd place in Engineering.



CMIT Elementary Wins 3rd Place in Regional MESA Competition!



Our CMIT Elementary MESA (Mathematics Engineering Science Achievement) Team competed in the **regional MESA competition**.

These savvy tigers were proudly representing PGCPS, CMIT, and CLF while also walking away with bronze—the **only** elementary school from Prince George's County to win an award: **3rd Place for the SCRATCH competition!**

Scratch...yea...as in these students were writing computer CODING from SCRATCH!



College Leadership Program & CLF Student Activities Trip to North Carolina

High School students from the College Leadership Program (CLP) and Robotics Club travelled to North Carolina on Wednesday, March 30, 2016. 11 students from Mr. Byram's CLP group and Mr. Canli's Robotics Club toured Duke University and North Carolina State University, where the tour guides gave them an overview of each college's admissions requirements and scholarship opportunities, and subsequently provided them tours through the campuses, including through the historic Duke gardens. Students were exposed to college life as they strolled through academic buildings, classrooms, residence halls, and university facilities. The trip provided CLF students a unique head start in the college readiness process!











CLF Alumni Association's 1st Alumni BBQ— Annual Fun for all CLF Teachers & Grads!

The CLF Alumni Association's 1st Annual Alumni BBQ was a success! Approximately 40 CLF graduates, teachers, and staff members joined together on July 15 to eat and enjoy delicious barbecue food, participate in outdoor activities, and socialize with their former classmates and students, as they jammed out to DJ Ricky.



CSP Graduate Greg Bekher Creates Online Cyber Security Community

work for information security practitioners. Professionals users will have the opportunity to become better connectin the Information Security industry can use Bekher's plat- ed to the national and global InfoSec community." form to connect with one another and share information. Bekher, who graduated from Chesapeake Science Point in As a CSP student, Bekher participated in CSP's cybersecu-2014, is currently a junior at the University of Maryland, rity team throughout his high school years, where he led College Park, where he is part of the Advanced Cybersecu- the team, nicknamed "Freedom's Hammer," to the Maryrity Experience for Students program (A.C.E.S). Bekher land Cyber Challenge and Conference (MDC3) finals, created Parapit as a sophomore in the 2015-16 academic where they won 4th place overall. year, while concurrently serving as A.C.E.S. Student Board President.

"Parapit is the first of its kind community-based infor- curity projects. mation sharing platform for information security practitioners," says Bekher. "Our goal is to create a new type of Needless to say, we are immensely proud of Mr. Bekher's professional network and threat sharing portal just for cy- groundbreaking work. Keep it up, Greg! bersecurity folks. Unlike other closed threat sharing portals

lumni Greg Bekher recently launched Parapit, a aimed at large organizations and enterprises, we cater to unique cybersecurity live stream and professional net- the individual. Imagine a Twitter for cybersecurity. Our

During his junior and senior years, Bekher was also an intern at Northrop Grumman, where he worked on cyberse-



Mr. Greg Bekher, a CLF Alumni (CSP '14), Computer Science junior at University of Maryland, College Park.





Connecting infosec.



Our uncoming commercial The Parapit Open Platform platform fills a critical gap provides accurate, up-to-date found in many infosec teams: coverage on the current state of poor communication. The cybersecurity. We use machine Parapit Commercial Platform learning to tailor live intel to scales with the size of your team you. Follow topics important to to provide an integrated you and receive live threat commutation chain between information, news, and tips to analysts, incident responders, stay ahead of the adversary, or CISOs, and engineers. post your own tips.

Open feed



For defenders We take the bassle out of finding the latest threats. The Parapit Open Platform features a public, no login needed live feed, complemented by an invitation-only secure communication network. Live threat information, the latest attacks, and a birds-eve view just for the good guys



Secure

Of course, security is our top priority. We are building both platforms from the ground up with security as our first concern. We feature industry grade encryption for secure information sharing and we throughly pentest our platforms before release

CSP Graduate Katy Hanlon Runs Successful Business in Millersville, MD

CLF Alumni Katy Hanlon recently celebrated the expansion of her private business. Hanlon who graduated from CSP in 2014, began her Private Horse Boarding Facility in 2012 at age 16, while she was a junior in high school. Equestrians and other horse-riding enthusiasts from across Maryland bring their horses to Katy's ranch, where they hire her to raise their horses.

On an average day, Katy's routine consists of feeding the horses twice a day, filling water troughs/buckets, providing the horses with hay, abiding by any personal instructions the clients give her for their horses (such as using fly masks, boots, special medicines, etc).

Katy, who typically holds up to 20 horses in her barn, provides multiple services to her customers, including horse training and professional riding practice. Ms. Hanlon's barn has been recognized by the Maryland Horse Industry Board and her talents as both a keeper and competitive equestrian have been distinguished by awards from various local and statewide championships.

Katy plans to keep up her reputation of having the greatest horse care barn in the Anne Arundel County area and expand her business to provide even more services to an even larger customer base. Keep up the great work, Katy!



Chesapeake Science Point teen doubling up on degrees—Ms. Sorrells now attends M.I.T.



By Kelcie Pegher, kpegher@capgaznews.com

MAY 1, 2015

Clarissa Sorrells was 15 when she walked into her first Anne Arundel Community College classroom. A year and a half later, she has an associate degree in transfer studies with a focus in mathematics.

Soon she'll have another degree – from high school.

High schoolers with associate degrees are atypical. In 2012, an 18-year-old graduated with dual degrees from AACC and Chesapeake High School.

May will be a busy month for Sorrells. She has not one, but two graduations to attend.

And she'll be the class valedictorian for Chesapeake Science Point's class of 2015. She joined the school in sixth grade. At first, she failed her first algebra test in middle school. Her mom, a math teacher at Anne Arundel Community College's Arundel Mills campus, helped her learn the basics.

But after that, it was all Clarissa — with a little help.

"I Google it if I need help," she said.

At the community college, Clarissa was never treated differently than her peers. Some were just a few years older, just out of high school, while others had teenage kids.

When applying for college, she applied to a handful of prestigious colleges — including Massachusetts Institute of Technology, Georgia Tech and Cornell. But MIT caught her eye, and where she'll be attending in the fall.

MIT seemed like the perfect fit. When she visited, she saw a giant three-story slide on campus.

"I've always liked to build things," she said. "I like to make a design and buy stuff to build those designs, and I like to work with my hands, and I recently learned I cannot have a desk job."

An internship with mostly desk work taught her that lesson. She's planning on majoring in either mechanical or aerospace engineering.

The 17-year-old feels a little more at home with adults than her peers, but she is excited to move onto MIT. The college has a summer program to get used to the academic rigor. She's hoping to get into the program. But if she doesn't, she's planning on studying for just one more test before school starts — she wants to get into a higher calculus class.

Knowing Clarissa Sorrells, that should be no problem.

(This article first appeared in the Capital Gazette on 5/1/15. Copyright © 2015, Capital Gazette, a Baltimore Sun Media Group publication)





SPRING BRIEF 2016

CLF's STEM Schools Success Update

Presented by:



CLF's Office of Community Partnerships

April 2016

- U.S. News & World Report Ranks CSP HS in Nation's Top 500 & receives "Gold" standard!
- CHAMPIONS! CMIT South Robotics Team Win both 1st Place So You Think Your Robot Can Dance & 2nd Place Mystery Maze at 2016 Johns Hopkins University Robo Challenge!
- CHAMPIONS! CSP Robotics Team Win: 1st Place Slithering Slalom at 2016 Johns Hopkins University Robo Challenge!
- CHAMPIONS! CSP MS "Underwater" Robotics Team Win 2016 Maryland State SeaPerch Finals & proudly will represent Anne Arundel County Public Schools & the State of Maryland at SeaPerch Nationals in Louisiana this May 2016...Break a Leg at Nationals, Tiger-Bots! (we can fix it).
- MID ATLANTIC CHESS CHAMPIONS! CMI'T North Chess Team Win 1st Place at the Maryland Chess Association's Mid Atlantic Class Championships in Baltimore, MD.
- 5X SEASON CHAMPIONS! (2012-2016) CSP Legendary HS Math Team Claims the AACC Season!
- BRONZE! CMIT North MS Science Olympiad Team Wins 3rd Place at 2016 Science Olympiad State Finals!
- BRONZE! CSP HS Science Olympiad Team Wins 3rd Place at 2016 Science Olympiad State Finals!
- BRONZE! CMIT Elementary Coding Team Win 3rd Place at MESA Regionals [Mathematics Engineering Science Achievement] Scratch Competition & were the only PGCPS elementary school to win award.

March 2016

- NATIONAL CHAMPS! CSP HS VEX Robotics Team "Tiger Bots" Win U.S. National VEX Robotics Competition after a final round shooting-streak comeback clinches 1st Place Championship Title!
- CHAMPIONS! CMIT North HS Math Team Win 1st Place at National Society of Black Engineers' Try-Math-A-Lon (NSBE) Invitational in Boston, MA! (comeback story in the final round)!
- TWO CLF SCHOOLS AT THE TOP! CSP MS Math Team Win 1st Place & CMIT North MS Math Team Win 2nd Place at 7th Annual Carderock Math Invitational Contest (CMC) at the Naval Surface Warfare Center (NSWC)!
- CMIT North MS Chess Team Win 4th Place Win at Maryland State Chess Championships!
- CMIT North Team America Rocketry Challenge (TARC) Team Win 4th Place!

February 2016

- CHAMPIONS! CSP MS Math Team Wins 2016 MathCOUNTS Regionals (Annapolis Chapter)!
- SILVER! CMIT South VEX Robotics Team Win 2nd Place at Mount Vernon in Alexandria, VA competition!
- SILVER! CMIT South VEX Robotics Team Win 2nd Place at Wexford, PA competition!
- MEDALISTS! Top Finishes for CSP Science Olympiad Teams at Regionals—both advance to State!
- MEDALISTS! Top Finishes for CMIT North Science Olympiad Team at Regionals—both advance to State!



CLF Offers Advanced Studies to all CLF Schools



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Archery







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Advanced Math



SAT/PSAT MATH PREP

Registration NOW OPEN Classes Start Sept. 26th! www.clfadvancedstudies.org





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