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## **KEYNOTE**



### Shelby L. Bartram

As a child I always had an interest in the math and science fields. This passion continued into high school where I enrolled in the STEM program at Perryville High School and my interest in Engineering began. This

ultimately led to my participation in the SEAP and ORISE Programs at Edgewood Chemical Biological Center. My involvement in this internship, as well as my education through the STEM Academy drove my decision to attend Western New England University, located in Springfield, Massachusetts to study Biomedical Engineering. Shortly after my enrollment at Western New England University, I applied for and received the SMART Scholarship, which allowed me to pursue both my Bachelor's degree in Biomedical Engineering, with a concentration in Biomaterials, and my Master's degree in Engineering Management. While in school I had the opportunity to travel to Guatemala where I studied the Guatemalan healthcare system and offered insight to potential medical improvements. After graduation, I began working at Advanced Design Manufacturing, located at Edgewood Chemical Biological Center as a Biomedical Engineer in March 2016. My hobbies include boating on the Chesapeake Bay, watching drag racing with my family, and playing with my puppy.



CACI salutes the Northeastern Maryland Technology Council for its achievements in advancing STEM education and accelerating

A company committed to ethics and integrity in all we do, CACI is proud to support the development of an outstanding STEM-educated workforce. We thank you and all the Visionary Award winners for your admirable efforts that are driving technology that changes the world ... one community at a time



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Amanda Vincenti, Program Specialist | Deployment Coordinator, Adams Communication & Engineering Technology Kimberly Nikitas, Technical Lead, Scientific and Technical Communications, Battelle Suzanne Milchling, lechnical Director, US Army Materiel Systems Analysis Activity (AMSAA) Dr Diane Lane, Vice President of Student Services and Institutional Effectiveness, Cecil College Dennis Heibert, Senior Science Society

> Mary Doak, ECBC (Retired) Marco Ciavolino, Executive Director, Techbrick Robotics & Partner, Enklesis LLC Frank Cardo, Program Coordinator for Science and STEM for Cecil County Public Schools John Casner, Executive Director, UMTC

Michael Seldes - Chair, Chief Operating Office, Adams Communication & Engineering Technology

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### Dick Schwanke Marlene Lieb

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# NMTC VISIONAR AWARDS

FEBRUARY 23, 2017

Congratulations to this year's award winners.



Visionary Award

Dr. Veronica Dougherty Innovator Award

Dr. Ebony Roper

Mentor Award Jacqueline Wilson



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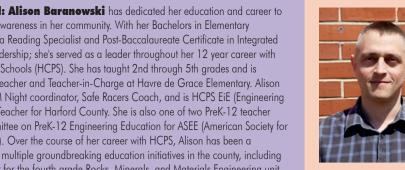
Rising Star Award: Alison Baranowski has dedicated her education and career to STEM education and awareness in her community. With her Bachelors in Elementary Education, Masters as a Reading Specialist and Post-Baccalaureate Certificate in Integrated STEM Instructional Leadership; she's served as a leader throughout her 12 year career with Harford County Public Schools (HCPS). She has taught 2nd through 5th grades and is currently a 4th grade Teacher and Teacher-in-Charge at Havre de Grace Elementary. Alison actively serves as STEM Night coordinator, Safe Racers Coach, and is HCPS EiE (Engineering is Elementary) Master Teacher for Harford County. She is also one of two PreK-12 teacher members of the Committee on PreK-12 Engineering Education for ASEE (American Society for Engineering Education). Over the course of her career with HCPS, Alison has been a proactive volunteer for multiple groundbreaking education initiatives in the county, including serving as a pilot tester for the fourth grade Rocks, Minerals, and Materials Engineering unit,

and taking part in the first Towson University Cohort in the Integrated STEM Instructional Leadership program for PreK-6 teachers. Her work in the Rocks, Minerals, and Materials Engineering unit pilot test was featured in an issue of 'Prism', the magazine for the American Society for Engineering Education (ASEE). In addition to her evident enthusiasm and commitment to STEM and early elementary education, she's demonstrated that she is an engaging, caring educator with high expectations for the children in her care.



Leader Award: Dr. John Suarez is an exceptional Research Electronics Engineer for the U.S. Army Communications-Electronics Research, Development and Engineering Center (CERDEC) where he has dedicated his career to providing outstanding support to he U.S. Army mission and mentoring peers and youth in STEM and Engineering nitiatives. In addition to his work, he currently holds 2 U.S. patents and has 7 patents pending - all of which are for the development of technologies that support the Mission of Army CERDEC. The most recent was awarded March 2015; Patent 9,287,908 entitled Wireless-Channel Characterization and Equalization" and is based on work conducted by Dr. Suarez for the purpose of enabling more effective wireless communications for radio systems. Outside of the lab, Dr. Suarez is a dedicated teacher and mentor for the next generation of engineers and scientists. He serves as a leader to new employees within CERDEC, advises doctoral candidates, and routinely teaches a graduate course in

RF electronics to CERDEC employees. For the past 4 years, he's participated in the annual Futures 11 Conference at Harford Community College, an event for high school students who are interested in STEM careers. Dr. Suarez has participated in the National Junior Science and Humanities Symposium for college bound students, as well as the "STEM in Scouting" event for the Boy Scouts and Girl Scouts of America. His leadership within the STEM community has resonated with those he's mentored and is sure to result in a lasting, positive effect locally and beyond.



**Leader Award: Dr. Patrick McNutt** has served the U.S. Army for nearly two decades through active duty military service, reserve duty, and civilian service. Dr. McNutt separated from active duty service as a Major, and joined the reserves where is now a Lieutenant Colonel, commanding a Medical Support Unit and Troop Medical Clinic based out of Alexandria, Virginia. When not fulfilling his reserve duties, he works as a research scientist at the U.S. Army Medical Research Institute of Chemical Defense (USAMRICD) located on Aberdeen Proving Ground Edgewood area. During his tenure at the USAMRICD, Dr. McNutt has led mentoring programs for numerous postdoctoral fellows, full-time interns, high school and college students, enlisted soldiers and junior officers. In addition, his eadership helped sponsor multiple high school students to work in his laboratory during the Science and Engineering Apprenticeship Program (SEAP), as well as seniors from the Science and Mathematics Academy (SMA) at Aberdeen High School to conduct their

Capstone projects. Finally, Dr. McNutt has served for several years as an active member of the USAMRICD committee that oversees and coordinates participants from the Oak Ridge Institute for Science and Engineering (ORISE) program, where he has been responsible for over fifty participants at USAMRICD yearly. His efforts to guide and lead have demonstrated a sincere commitment to STEM education across his career.



Innovator Award: Marlene Lieb has dedicated the majority of her 31 years representing Harford Community College (HCC), to the creation of multiple opportunities for area students and professionals to learn, grow, and advance in the STEM community. In 2006, she created Technology Needs Teens (TNT), an annual one day event designed to promote awareness of the positive attributes of STEM education benefiting 200 Harford County 8th grade students. By soliciting industry, academia and government partners to engage students in hands-on STEM related experiences - providing excitement and interest in studying related subjects. Marlene is also member of the Board of Directors and a driving force behind the Harford Leadership Academy (HLA), as well as the HLA Alumni Association and established the HLA Ambassadors group. In 2008, she called the first meeting of the Senior Science Society (SSS) by utilizing relationships established with top scientists. She further assisted the group by connecting them with a dynamic facilitator and introducing

them to the supervisor of STEM education at HCPS. Today, the SSS is active in the STEM community, providing scholarships, mentoring, and hundreds of scientific teaching demonstrations at every STEM Night & Beyond. Marlene is also a lifetime member and past President of the American Association of University Women where she helped create the annual Resnik Award Luncheon to recognize one junior woman from each county high school who excels in math and science. Most recently, Marlene contributed to the creation of The Women's Giving Circle of Harford County.



**Rising Star Award: Jerry Crabb** is a STEM Program Coordinator at the U.S. Army Research Development and Engineering Command (RDECOM)'s Human Resources Directorate, STEM Outreach Office. In this role, Jerry manages the Army Educational Outreach Program's (AEOP) eCYBERMISSION competition and is the action officer for coordinating Team APG STEM engagement with Baltimore, Harford, and Cecil County public schools. Since joining the STEM Team at RDECOM a little over 3 years ago, Jerry has shown dedication in ensuring that APG organizations are engaged and effectively impact regional STEM efforts. As eCYBERMISSION Program Coordinator, Jerry has driven participant growth from 15,000 students to approximately 21,000 in 2016. In addition to boosting participation at the outset, he has incorporated additional facets to the eCYBERMISSION program to ensure long term growth and participant enrichment. In 2014, Jerry recommended and implemented the "STEM-in-ACTION" Grant within eCYBERMISSION. The grant awards five

national teams up to \$5,000 each to further their research, apply for patents, and ultimately implement their projects within their communities. In his short time within this role, Jerry has already enhanced APG's presence in the STEM community as well as contributed to the eCYBERMISSION program in a way that will ensure the long term success of the initiative as well as its participants. His continued participation will be an asset to the community for many years to come.



Mentor Award: John Nierwinski has worked as an Operations Research Analyst at the U.S. Army Materiel Systems Analysis Activity (AMSAA) at Aberdeen Proving Ground (APG) for almost 14 years, and has served as an Adjunct Professor at the Florida Institute of Technology (FIT) APG site for over 8 years. In 2012, John was issued a U.S. Patent for an innovative methodology and process that he invented. During his career with AMSAA, he regularly solves Army sustainment and acquisition problems that require mathematics and decision support by developing solutions both complex and direct. Before working at AMSAA, he was an Actuarial & Mathematical Programmer, Statistician, and Vice President in the insurance and credit card industries. Throughout his career, he has also authored various professional journal articles, web articles, and technical reports on a variety of research topics and methodologies. With a career dedicated to mathematics and their application to real life scenarios, it was a natural transition to use those

experiences to mentor colleagues in need, as well as college students. As an Adjunct Professor, he teaches graduate level courses in Mathematics, Operations Research, and Business Management and has taught approximately 30 AMSAA employees, 50 additional APG employees, and 30 non-APG employees. John recently began teaching online courses to expand accessibility to STEM methodologies and education. As a colleague and mentor, John has always made time, on or off the clock, to ensure those with questions are answered, guided, and encouraged.

The NMTC Visionary Awards celebrates our neighbors and colleagues making a

■ **VISIONARY** – a community role model in advancing STEM Education and

Technology Advancement for a remarkable period of time. This individual has

displayed significant contributions, a high level of leadership, and a personal

consistent contribution to the advancement of STEM Education or Technology

commitment to the advancement of Technology and STEM Education for the region.

Development in a public way while inspiring others to help in accomplishing shared

efforts in development and implementation of innovative program(s) measurably

benefiting STEM Education or Technology application with the potential for broad

**MENTORS** – role models for future generations. Illuminates those consistently

volunteering their knowledge, experiences, and wisdom by going above and beyond in

using their personal time and resources simply for the love of stimulating and inspiring

LEADERS - setting the pace for success. Acknowledges this individual's steadfast,

**INNOVATORS** – ideas that make a difference. Recognizes exceptional personal

difference in STEM Education and Technology Advancement in our community. This

NMTC AWARDS

evening recognizes those individuals.

positive impact in the community.

## **AGENDA**

**WELCOME & INTRODUCTIONS** Mr. Michael Parker, Chair, NMTC Board of Directors

**NMTC BOARD ELECTIONS** Mr. John Casner, Executive Director, NMTC

NMTC STEM, A STUDENT'S SUCCESSFUL JOURNEY Ms. Shelby Bartram, Bio Medical Engineer, US Army Edgewood **Chemical & Biological Center** 

**NMTC VISIONARY AWARDS CEREMONY** Mr. John Casner, Executive Director,

NMTC VISIONARY AWARDS, VISIONARY HONORS PRESENTATION Dr. Mary Way Bolt, President, Cecil College, 2017 Visionary Awards Honoree, introduced by Ms. Denise Carnaggio, 2016 Visionary **Awards Honoree** 

**CLOSING REMARKS** Mr. Michael Parker, Chair, NMTC Board of Directors

**ADJOURN** 



Visionary Award: Dr. Mary Bolt's lifelong career in education and healthcare combines a unique appreciation of science, technology, and the initiative needed to ensure workforce readiness of Maryland citizens. Dr. Bolt has held many leadership positions during her tenure at Cecil College, including Vice President of Academic Programs and most recently as President (since 2014). In addition, Dr. Bolt has served as the lead curriculum architect for the engineering, healthcare, and cybersecurity degrees. She also championed the development of a comprehensive simulation program for nursing and healthcare students utilizing high fidelity simulation mannequins. While driving the advancement of the technology available to students, Dr. Bolt also ensured that students could 'credential stack' - allowing them to tailor their degrees to personal and workforce needs - while they work towards their Associate Degree. Furthermore, Dr. Bolt worked diligently to make certain that the degrees students complete can be seamlessly pursued at the baccalaureate level, including agreements with

Drexel University, University of Delaware, and Wilmington Delaware. Locally, Dr. Bolt serves on multiple hospital and association boards, including Union Hospital, Chesapeake Health Education Program, the Engineering Oversight Committee led by the Maryland Higher Education Commission (MHEC), Northeastern Maryland Technology Council and many more. Globally, in 2014, she represented community colleges during the MHEC visit to Taiwan's public and private universities. Dr. Bolt served on the conference panel discussing community college education and also met with the Ministries of Health and Education to discuss Taiwan's public health concerns and the US health delivery model and community college education, respectively.



Leader Award: Joan Michel has been a STEM leader, innovator and advocate for over a decade. As the Strategic Planning and Communications Officer of U.S. Army Edgewood Chemical Biological Center (ECBC), she spearheaded the support and funding of the first Community and STEM Educational Outreach program at ECBC. Under Joan's leadership, this program grew from a small grass roots effort to a vibrant program servicing thousands of students across northern Maryland. Since 2009, Joan has worked to expand STEM education opportunities for students across the state. This effort included building programs with the Maryland Business Roundtable for Education, establishing a state-wide coalition of after-school STEM providers, and working with Harford County Public Schools to develop a STEM education roadmap. One of Joan's key accomplishments was working with the Maryland State Department of Education and Maryland Emergency Management Agency to expand the Homeland Security program to 25 high schools across the state and over 2,000 students.

Locally, Joan was a driving force behind the STEM Summit program, crafting 15 "Summits" that featured nationally renowned STEM leaders to help inform and guide our region's efforts to improve student STEM participation and performance. Joan's most recent work has been focused on building opportunities in specific STEM fields - cyber/computer science, geospatial information systems, and manufacturing. In addition, she is particularly interested in expanding her efforts to focus on increasing women's participation in these fields.



**RISING STARS** – people to watch. Demonstrated, in a bold way, the potential to be an excellent, long-term contributor to STEM Education or Technology Advancement.

greatness in students or teachers or organization protégés.

Mentor Award: Dr. Ebony Roper is currently a Professor of Chemistry at Cecil College, vhere she has taken on many research and community service projects in an effort to introduce exciting innovations into her classroom. Dr. Roper is an active team member for the National Oceanic and Atmospheric Administration (NOAA) Center for Atmospheric Sciences where she participates in air quality research projects in urban communities as well as in the North Atlantic Ocean. Dr. Roper then utilizes these live test results to aid in improving industry weather forecasting and climatology, as well as integrating them into her teaching tools for current and uture student benefit. A standout accomplishment on Dr. Roper's part has been to integrate science and art via the chemistry of color and light in an introductory level Chemistry course. Her goal is to give students of the arts an opportunity to learn and understand the application of chemistry in the visual arts, thus extending the reach of STEM education into a major not commonly associated with STEM initiatives. In each case, Dr. Roper has created a living

laboratory in her classes to simulate real-world chemistry concept application. Outside of the campus, Dr. Roper is an active mentor to high school students and undergraduate STEM students from around the country, local students with STEM Capstone projects, and orchestrates community outreach efforts to collect and donate unused lab notebooks to high school students in need. In addition, Dr. Roper is especially committed to encouraging women and minorities toward STEM professions.



Rising Star Award: Jackie Wilson recently joined Cecil College as an Assistant Professor in Computer Science, where she has been working to update the curriculum for both computer science and cybersecurity majors. Jackie's major goals for the department include ensuring the transferability of student credits to four year institutions, and attaining Centers of Academic Excellence in Cyber Defense (CAE2Y) designation. Attaining CAE2Y designation guarantees that the cyber programs at Cecil College meet or exceed National Security Agency (NSA) and Department of Homeland Security (DHS) requirements on a national level. In an effort to efficiently accomplish these goals, Jackie has met with local employers including APG, potential key stakeholders, other colleges, and high schools. By doing so, she is preemptively generating interest in computer science, the STEM studies at Cecil College, and a general awareness and excitement for STEM studies in general. Her work in the community and on campus has led to the development of new courses, a

women's competitive programming team, and the introduction of exciting new technology into the classroom. In addition, under her leadership, computer science students now have access to Oculus Rift and Microsoft Hololens as part of their



Mentor Award: Anne Marie Baumann is a staple at Perryville Middle School (PVMS) and the surrounding community. For the past seven years, she has mentored adults as well as students as she introduced them to possibilities a career in STEM may hold. To oster interest in STEM careers, content, and opportunities, Anne Marie focused on students who had not shown interest in STEM and encouraged them to participate in current STEM community and school initiatives. In 2012, she led the coordination of the Perryville Middle School science fair. The science fair consistently reaches over 800 students, requires the organization of 30-40 judges to ensure each student is reviewed and provided feedback and guidance. In 2016, Anne Marie contributed to the opening of the Makerspace at PVMS along with fellow teachers. The Makerspace exposes students to STEM opportunities and technologies they would not generally have access to in their traditional classes. Within the space, students have access to 3D printers, drone technology, Sphero robotics, engineering

Innovator Award: Scott English, a Forester with the Directorate of Public Works (DPW),

nitiated a program to broaden the scope of Aberdeen Proving Ground's (APG) STEM outreach.

The program brought Agricultural and Natural Resources or AgSTEM together as it supports

collaborated with STEM outreach professionals in the U.S. Army Medical Research Institute for

Laboratory (ARL) and Communications-Electronics Research, Development and Engineering

Center (CERDEC) to integrate AgSTEM activities together. The first step in his outreach process

was initiated when DPW Natural Resources participated in the APG STEM EXPO in 2016 with

two interactive problem solving challenges. Future AgSTEM activities are planned as compo-

nents of the 2017 GEMS II and GEMS III programs as well as the Futures 11 Conference.

Currently, Scott is securing financial resources for Oak Ridge Institute of Science and

Engineering (ORISE) FY17 summer internships for high school students with a plan to offer STEM focused 3 scholarships. In line

Agricultural Education Foundation and Harford Community College to develop and AgSTEM internship in 2018. Finally, Scott is

with this effort, Scott has also initiated collaborative discussions with the University of Maryland Extension Office, Maryland

an active member of the Harford County Forestry Board and is a mentor to students at North Harford High School's Natural

existing initiatives focused on developing skills and leadership qualities in youth. Scott

Chemical Defense (MRICD), the Army Public Health Center (PHC), the Army Research

tasks, 3D Google Cardboard, and more. As an 8th grade teacher and science lead teacher, she mentors future science teachers as well as ensures that her students are prepared early on for success should they apply to the STEM Academy and/or Project Lead The Way in high school, giving them the foundation they need to succeed long after they leave her



Innovator Award: Dr. Veronica Dougherty has led the STEM Division of Cecil College for over 20 years, where she has transformed the division in response to advancing workforce demands. When Aberdeen Proving Ground (APG) participated in the Base Realignment and Closure (BRAC), Dr. Dougherty foresaw the need to realign the engineering curriculum to address new core competencies required of the APG workforce. While ensuring readiness for students shifting from Cecil College to an APG career, Dr. Dougherty also made certain that student readiness for transition to a four year college was as seamless as possible. In addition, she advocated for updated facilities, new equipment, and professional development opportunities so that faculty could adjust to program content and delivery successfully. The success of a new curriculum could only be guaranteed if the faculty was prepared as well. Although much attention was given to engineering studies, Dr. Dougherty also ensured that a complement of additional STEM options were provided to students, including associate

degrees in the environmental sciences, multiple concentrations in biology, and cybersecurity. Her push for an enhanced suite of STEM studies have resulted in a 25% growth in STEM majors in the last 5 years. In addition to her work on campus, Dr. Dougherty has served as a philanthropic role model for her faculty via her mentoring efforts at local high schools, and providing preliminary training for area service dogs.



Mentor Award: Richard "Dick" Schwanke has been a staple in Harford County community environmental initiatives and offices for several decades. Dick served as an Industrial Hygienist for 10 years on Aberdeen Proving Ground (APG), Goddard Space Flight Center, and the Army Environmental Hygiene Agency (AEHA, now known as CHPPM). For the following 24 years, Dick has worked in the Army Research Laboratory (ARL) on APG in multiple roles, including Environmental Programs Manager, Chief Risk Management Division Supervisor, and Hazardous Materials Manager. Throughout the span of his career, Dick has also taught at Harford Community College (HCC) as an Instructor and Technical Director of their Environmental and Safety Center. While at HCC, Dick has developed student curriculum, authored and edited multiple resources, and taught courses to several generations of eager scholars. In addition, he is also currently an Environment, Safety, and Health Subject Matter Expert (SME) for SURVICE Engineering. During his tenure with HCC,

Dick was a founding member, former President, and current Vice President of the Senior Science Society (SSS). Coupling his extensive experience in environmental studies and his instructional career, Dick has mentored thousands of students at dozens of Harford County Public Schools, and a half dozen local private schools. Dick has also worked with the GEMS program (Gains in the Education of Mathematics and Science) for over a decade. He can be found frequently at NMTC's Stem and Beyond nights, with his educational display (and several interested spectators) in tow.