

## Career and Technical Education Highlights for February 2018

### Career Experiences:

#### *Chantilly Academy:*

#### **CyberPatriot Team Wins First Place Platinum in Virginia (Open Division)**

A team of students from Chantilly Governor's STEM Academy recently concluded an exceptional round of competition in the tenth season of CyberPatriot – the Air Force Association's National Youth Cyber Defense Competition.

Established by AFA in 2009, CyberPatriot is designed to excite, educate, and motivate students toward careers in cybersecurity and other science, technology, engineering, and mathematics (STEM) disciplines critical to our nation's future.

CyberPatriot's core program – the National Youth Cyber Defense Competition – challenges teams of students across the United States, Canada, and from Department of Defense schools abroad, to find and resolve cybersecurity vulnerabilities in simulated environments. Top teams from the preliminary online rounds earn an all-expenses-paid trip to Baltimore, MD. for the in-person National Finals Competition, where students compete for national recognition and scholarships.

The CyberPatriot field is divided into three divisions – the Open Division for public, private, and home school teams; the All Service Division for JROTC, Civil Air Patrol, and Naval Sea Cadet Corps teams; and the Middle School Division. Based on the results of two preliminary rounds, CyberPatriot X high school teams were categorized within their divisions as Platinum, Gold, or Silver Tier teams, with Platinum Tier teams representing the highest scoring teams.

Led by Coach Davi Anson, the team of students from Chantilly Academy excelled in the CyberPatriot X State Round held Jan. 19-21, demonstrating teamwork, critical thinking skills, and technical knowledge key to a successful career in cybersecurity. The team's performance earned it Virginia's First Place Award.

Chantilly Academy had an additional state placement—a second team has been recognized for placing third in the Gold Tier of the competition.

#### **K-9's teach valuable lessons to Academy students this month!**

This month, students from Chantilly Academy had different opportunities to learn from special visitors including two K-9's! The Animal Science and Criminal Justice students came together

to host a CIA police officer and his K-9 partner. The officer talked about his job, shared stories of how he and his partner serve together, and the responsibility of being a K-9 officer. Both groups of students were very engaged and asked many questions about caring for the dog, how the dog fits into the officer's home life, and on-the-job questions with the CIA. The officer concluded his visit with a demonstration of how the dog searches a premise and lets him know that he has located something like a bomb.

A second dog visitor came to the Animal Science students so they could learn more about training and caring for guide dogs. A trainer from Guide Dog Foundation dropped by with a dog that was currently being trained as a guide dog. The speaker spoke about how important it is for the dogs in training to be focused on "working" for the handler and being integrated into their particular life style. The trainer explained that these dogs need to be prepared for everything. From work and school, to shopping malls, restaurants, and hiking trails, guide dogs lead very active lives. When the harness is on, guide dogs are "all business" - serious about their work, and focused on the safety of their handler. He then explained that for these dogs, when the harness comes off, however, it's play time! Guide dogs get to go everywhere and do everything their partners do and they are showered with attention.

### ***Edison Academy:***

#### **Edison Academy Open House**

Edison Academy hosted their annual Open House for prospective students and parents on Saturday January 20. This event was well attended and complimented the over 30 student recruiting activities that the Academy counselor, support staff teachers, the career experience specialist, and CTE teachers took part in during the month of January and early February on other campuses both during the day and in the evenings.

#### **Resume Preparation**

During the month of February SkillsUSA state contestants and other Level II students in both Criminal Justice and Electrical Construction & Engineering classes have been coached on developing their resumes in special seminars led by the Career Experience Specialist with input from the national SkillsUSA organization and local business and industry leaders. SkillsUSA resumes are being critiqued by volunteers to help insure no competitor loses valuable points that could make or break their winning position at the upcoming State competitions in April where they vie for a chance to represent Virginia at the national competitions.

Local business and community partners, Beckstrom Electric, the Rotary of Springfield, the National Association of Power Engineers, and a group of individuals who work with one of our longest partner organizations, who wish to remain anonymous, have stepped up to support the

students going on to SkillsUSA state and possibly national competitions with donations of almost \$1500 to help fund their transportation and lodging expenses for the students.

***Fairfax Academy:***

**Career Connections Week**

Career Connections Week is an annual event at Fairfax Academy, and this year it encompassed a multitude of specialized and engaging workshops with industry professionals in all ten classes at Fairfax Academy for Communications and the Arts, which is housed in Fairfax High School and is one of six FCPS Academies.

**Professional Photography**

For Career Connections Week, a local professional photographer partnered with the professional photography instructor to lead a hands-on workshop called “Composing an Image for Advertising.” Afterward, each student created and presented their own photo examples to the class, instructors, and industry professionals for critique.

**Professional Television Production**

The professional television production class engaged in discussions during a workshop called “How to Compose an Image for Film” using basic professional techniques and concepts. In culmination, the students presented their work to the instructor for critique and discussion regarding how what they learned this week affected the way they created their images/video project.

**Fashion Careers**

Fashion careers students worked for a full week on a special addition to the curriculum for Career Connections Week called: “Unconventional Zipper Project,” and then put their creativity, constructive skills, and knowledge to the test with a partner designated by the instructor, and were directed to work together in order to create a garment on a mini dress form utilizing one of the zippers they learned about during the week, and then present it to the instructor and class for critique.

**Social Media Marketing**

The social media marketing class welcomed FCPS School Board Member At-large, Ryan McElveen, who spoke to the class during Career Connections Week about impression management, how social media plays a part in his professional and personal life, and advice on how to handle and understand social media in an ever-changing (and very technological) world – in a presentation titled: “Thoughtful Leadership in the Age of Accelerations”. His interactive

presentation was followed by an in-depth question and answer session with the class that touched on all of the topics he discussed.

### **Music Computer Technology**

During Career Connections Week, music computer technology classes learned about set-up, financing, management, and entrepreneurship from a local music studio owner and his studio manager, and finished each of the three class blocks with a workshop called “Microphone Petting Zoo” in which students brought in their personal-owned microphones and had an in-depth discussion of the pros and cons of each with the instructor and industry professionals.

### ***Falls Church Academy:***

#### **Level 1 Dental Career students present dental health education to PD students**

Dental Careers level 1 students presented dental health to students from the Physical Disabilities Department on Thursday, January 18. Level 1 students taught students with disabilities how to brush, floss, use home fluoride rinses, and electric toothbrushes in the way that suits their abilities. Dental students also provided lessons on nutrition and provided an introduction to the dental chair for those who had not gone to a dental office before.

### **HOSA Healthcare Career Fair**

During the Teacher Workday, Friday, January 26, the HOSA District Competition hosted by Falls Church Academy took place with 334 students representing Chantilly Academy, Falls Church Academy, and West Potomac Academy’s Health and Human Services courses. In addition to the many competitive events, a Healthcare Career Fair was held for the students attending the competition at which 14 colleges and healthcare career representative attended. Students were pleased to hear about the educational and career options available from departments representing Inova Health System, U.S. Navy Bureau of Medicine and Surgery, Fairfax Co. Fire and Rescue, America Dental Education Assoc., Brother’s Brother Foundation, Fairfax County CERT and Capital Caring. Colleges attending were Uniformed Services University of the Health Sciences, VCU School of Medicine, George Mason University, Shenandoah University, Jefferson College of Health Sciences and Northern Virginia Community College Medical Campus.

This event was so successful from the perspective of both colleges, organizations, teachers, and especially students that an additional Healthcare Career Fair is being planned for a future date. The upcoming Fair will be open to all FCPS high school students interested in health and human services professions. Be looking for more information on this event to come.

***Marshall Academy:***

**Tysons Regional Chamber of Commerce (TRCC) Job Shadow Program Orientation and Kick-off**

The TRCC annual Job Shadow Program provides roughly 90 students with a job shadow experience in the months of January thru March. Employers will host students in various fields including, business administration, information technology, entrepreneurship, education, law enforcement, event planning and more.

On January 9 and 10, the TRCC hosted two job shadow orientation programs at Marshall and Madison High Schools. Students participated in an interactive Workplace 101 session which included an overview of workplace etiquette, communication skills, soft skills, collaboration and professional dress facilitated by Navy Federal Credit Union.

**MWAA Criminal Justice Job Shadow**

On Thursday, January 18 and Friday, January 19, Criminal Justice 2 students participated in a job shadow experience with Metropolitan Washington Airport Authority (MWAA) at Dulles Airport. Students toured the airport, airfield, ramp tower and learned about TSA operations/screening at the security checkpoint. The day ended with lunch and mock interviews with an array of airport personnel including Customs Border Patrol, TSA, United Pilots Association and Airport Fire and Rescue.

**Marshall Academy Cyber Club Team Advances in CyberPatriot's 3<sup>rd</sup> Round**

On Saturday, January 20, one of Marshall Academy's 14 CyberPatriot teams advanced to the third round of the CyberPatriot Competition. Stay tuned, we hope to have results by February 23, 2018.

**Marshall Academy Hosts Annual Open House for Prospective Students**

On January 11, Marshall Academy hosted an annual Open House for prospective students and their parents. The event included a presentation by Administrator Jeff McFarland, introductions of Academy staff, and ended with two program presentation sessions and tour.

**Marshall Hosts Chinese Exchange Program**

Marshall Academy and Marshall High School were honored to host a Chinese Exchange Program from Beijing for two weeks (January 22 - February 7). Marshall staff members and students' families hosted and housed 14 students and five staff members from Beijing, China. Guests took classes with Marshall teachers, observed IB and STEM classes, toured the school and community landmarks, participated in art and sport events and took a field trip to Udvar

Hazy Air and Space Museum. The visit ended with presentations from the students and a farewell reception.

**Save-the-Dates:**

March 22, 9 a.m.-12 p.m. Criminal Justice and Public Safety Career Fair

May 11, 12-1:30 p.m. Marshall Academy Awards & Reception

**Family and Consumer Sciences (FACS):**

Fifty-four students from Alexandria County, Arlington County, and Fairfax County participated in the in Skills USA District 5 Culinary Arts competition that was held February 3, 2018, at Stratford University in Woodbridge, VA. The award recipients in Fairfax were as follows:

Commercial Baking – Gold Medals – Chantilly Academy, Edison Academy, Falls Church HS, and South Lakes HS. Silver Medals went to Edison Academy and Marshall Academy. Bronze medal went to Chantilly Academy.

Culinary Arts - Gold Medals - Chantilly Academy, Marshall Academy, and South Lakes HS. Bronze medal – Edison Academy.

Food Preparation Assistant - Gold Medals – Chantilly Academy, Edison Academy, and Falls Church HS. Silver Medal - Marshall Academy.

Restaurant Service - Edison Academy and South Lakes HS. Silver medals - Edison Academy, Falls Church HS, and South Lakes HS.

In celebration of CTE month, Lake Braddock Secondary School held a Heritage Celebration on February 15 and 16. Family and Consumer Sciences grades 7 and 8 students shared their family traditions and foods. This event is designed to promote family traditions, share values, and celebrate community spirit. Students made formal skills presentations to share their stories.

The City of Fairfax FCCLA chapter celebrated CTE month by having an FCCLA Families First Dinner on February 12, 2018. Dinner was provided compliments of CHOO LAAH INDIAN BBQ, and students had conversation topics to discuss. All cell phones were collected at the beginning of the event. Attendees were encouraged to bring a new pair of socks to help their community service project.

Lanier Middle School students who are members of the City of Fairfax FCCLA have been featured in the FCCLA National Publication, [\*TEEN TIMES\*](#).

Falls Church HS had a fashion show, Feb 16, 2018, highlighting the different uniforms our CTE students wear in pursuit of their careers.

### **Health and Medical Sciences:**

More than 300 students in our health and medical science classes participated in the annual District HOSA Leadership Event on Friday, January 26, 2018, at Falls Church Academy. Ten students will be advancing to the 38<sup>th</sup> HOSA State Leadership Conference in Williamsburg, March 16-18, 2018.

Virginia Beach City Public Schools wants to start a pharmacy technician program of their own, and came to visit our Pharmacy Technician classes on February 15.

The health and medical sciences group was awarded a third grant from the Claude Moore Foundation for an electronic patient care platform. This grant will be used to purchase and maintain medical software to be used in all of our health and medical science classes.

### **Marketing:**

Congratulations to Chantilly, Lake Braddock, and Oakton High School marketing programs for earning Gold for the School-Based Enterprises.

Chantilly – Purple Express and Spirit Box – Retail Operations – Gold Certified

Lake Braddock – Lake Braddock Burger Pit – Food Service Operations – Gold Certified

Oakton – Cougar Spirit Box – Retail Operations – Gold Re-certified

For more information, please visit: [DECA Direct 2018 Certified School-based Enterprises](#)

Four students from McLean High School's marketing program have been recognized for the DECA's Emerging Leader Honor Award for 2018. This award recognizes DECA high school seniors studying marketing, finance, hospitality, and management while also being an academically prepared, community oriented, professionally responsible, experienced leader through their participation in DECA. For more information, please visit: [DECA Direct 2018 Emerging Leader Honor Award Recipients](#)

Read about marketing students from Fairfax High School and their Fairfax County Foster Care and Adoption Program and Little Voices Project. – [Fairfax County Times – Fairfax High School seniors hope to create a choir for children in foster care](#)

The Virginia DECA State Leadership Conference will be held in Virginia Beach, March 2 – 4, 2018. Fairfax County Public Schools will have approximately 750 students and teachers attending this conference. State winners will advance to the DECA International Career Development Conference in Atlanta, Georgia April 21- 24, 2018.

### **Technology Education and Engineering:**

On January 27, 2018, McLean High School hosted its first VEX Robotics Tournament. The event hosted 36 VEX EDR teams and 22 VEX IQ teams, 21 of which were from Fairfax County Public Schools. With the help of over 100 volunteers, the full day event was a major success. Overall, South County High School was recognized with the Judges Award for their endurance and accomplishments, Twain Middle School was presented with the Design Award for their professional design approach, and Glasgow Middle School was awarded the Excellence Award for being the top all around team. Congratulations to all teams.