

# UCVTS NEWS

A weekly newsletter brought to you by the Union County Vocational-Technical Schools

VOL. 1, ISSUE 3

5/6/2019

## Academy for Allied Health Sciences



The AAHS 11th grade students are conducting a debate concerning the “opt-in/opt-out” policy for organ donation. AAHS students in the Exercise Physiology class have researched the topic and will be presenting to their classmates this week to support or criticize the “opt-in” policy for organ donation and offer alternate policy choices.

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## Academy for Information Technology



Of the 877 papers submitted in this year’s MathWorks Math Modeling Challenge, a paper submitted by an AIT team was judged to be among the top six contenders for technical computing scholarship awards! The paper “endured intense scrutiny by professional judges who read and analyzed code from hundreds of top ranked papers.”

“ Milk + Cookies”, art created by an AIT Junior in Computer Art, an elective offered in partnership with the UCTECH School of Design, will be exhibited as part of the Union County Showcase and Traveling Exhibit as well as the New Jersey State Teen Arts Festival at Ocean County College.

AIT Seniors enrolled in AP Capstone will present and defend their research to a panel of educators and industry experts. Student research topics are as follows:

- Multi-class classification algorithm recommender: using a multi-class classification algorithm to predict the most efficient multi-class classification algorithm to use on a specific dataset
  - The importance of soft-clustering algorithms on matrix capsule networks
  - Gridlock: the effectiveness of cybersecurity on the Internet of Things
  - The plausibility of implementation of Hilbert curve based sight to sound algorithms
  - Determining the efficacy of user-generated passwords
  - Consolidation and analysis of the landoltia punctata genome
  - Virtual reality: a possible therapeutic for presentation anxiety in students
  - Screen reader accessibility: a quantitative study of JAWS and VoiceOver user friendliness
  - Concerns with location services and social media use
  - Exploring the Effects of GoGuardian on the Performance of HS Students on Creativity, Math, and Reading
  - Maximized: the optimal investment into technology-based education in STEM
  - The benefits of non-profit versus for-profit higher education institutions
  - Influence of social media on consumer loyalty: an analysis of frequently flying consumers’ perceptions of carriers and their social media presences in the airline industry
  - Defining equity in economics
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## Academy for Performing Arts



The International Thespian Society students at APA will be performed The Wizard of Oz last Friday with the Regional School, Union Campus. This was the largest show that they have worked on in the four years that they've been performing together and it was spectacular. There were so many dance numbers that many of our APA junior dancers stepped in to choreograph the numbers. Our technical theatre ITS members performed, choreographed, and designed sound and lights for the production. We involved everyone to provide the best experience for our friends at the Regional School.

## Magnet High School



The Technology Student Association (TSA) is a national Career and Technical Student Organization (CTSO) devoted exclusively to the needs of students interested in science, technology, engineering, and mathematics (STEM). Over Spring Recess, a total of 27 students participated in the annual conference held at The College of New Jersey. During this conference, two students, one from MHS and one from AIT, placed 1st in Music Production, while two additional students from MHS and AIT took 2nd place in the Technology Bowl. Additionally, a team of five MHS students placed 3rd in Biomimicry. Congratulations to this year's team for a job well done!

## Union County Career and Technical Institute



UCCTI and UCTECH attended the awards ceremony for the State of New Jersey Skills USA. We had 13 students win gold medals in Masonry, Opening and Closing Ceremonies, Occupational Health and Safety Notebook Multi-team, Job Demo, and Adult Post Graduate Electrical. We also had 6 silver medals in Masonry, Crime Scene Investigation Team, Customer Service, and Basic Mason. We had 3 Bronze winners in Automotive Technology, Early Childhood Education, and Prepared Speech. Our first place students will be attending the National Skills USA completion in Texas this June.

## Union County Technical High School



UCTECH's biology students collaborated with the students of the Sustainable Science Academy to continue to educate the UCVTS school community in the cafeteria on how to collect food waste that can be used in our digester to produce compost. This is part of a schoolwide initiative to keep food out of our local landfills. Students also started seedlings for use in the community garden and celebrated Earth Day with a Fair which included games and prizes in the cafeteria.

The Academy for Law & Justice hosted guest speakers from the Federal Bureau of Investigation who spoke to the students on a variety of career opportunities including law, justice, and government.

In World History, our classroom personified the idea of capitalism and brought to trial for a civil law suit. The charges brought before the defendant were the ideas that capitalism has caused: A) social strife, B) irreparable damage via pollution and C) political tension. The mock court room was set up in a manner that mirrored the American legal system. The students used their expertise in their given CTE fields (i.e. Criminal Justice, Sustainable Sciences, Clinical Care, Exercise/Physiology etc.) to make their arguments before a jury of their fellow peers. The activity spurred a myriad of different debates that invited students to reflect on our society and articulate their observations.