

FROM THE HAWK'S NEST

Official Newsletter of the UMES Technology & Engineering Education Program

New UMES T&E Education Website

The T&E education program has a new [website](#) featuring promotional materials, program history, and resources for teachers.

Program Featured by ITEEA

The T&E education program had ads in the October edition of *The Technology and Engineering Teacher* and also on the ITEEA [Membership Page](#).

EbD Training Hosted at UMES

In July UMES hosted the EbD Advanced Design Applications training for over a dozen high school teachers.

Student Featured in Delmarva Times

Joshua Bounds (senior) was featured in a newspaper [article](#) discussing the Department's new solar vehicle used to study power, energy, and transportation concepts.

New Undergraduate Coordinator Hired

In July UMES alumnus Tyler S. Love, Ph.D. was welcomed back to Princess Anne as an assistant professor and coordinator of T&E education program.



UMES to Host Engineering Challenges for Middle and High School Students

UMES will facilitate two engineering design challenges this spring to promote STEM-literacy across Maryland.

Crab Boat Engineering Competition: High School

Saturday April 23, 2016 at UMCES in Cambridge, MD

Inspired by the Cargo Ship Engineering Challenge held in past years at the Baltimore Inner Harbor, this event relates to something that many Maryland students are familiar with - crabbing. The competition requires students to design and construct a remote controlled scaled model of a Chesapeake Deadrise crab boat. Teams will be judged on their boat design proposals, a written (continued on back)

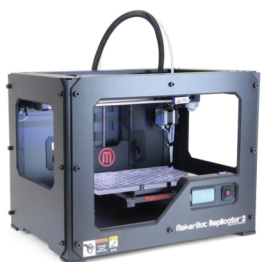


Upcoming Professional Development Opportunities*



Advanced 3D Design Software: January 2016

This experience will help participants develop skills and knowledge related to the use of free and/or low cost 3D design software used in T&E classrooms.



Applications of 3D Printing: February 2016

This experience will teach participants about software used to develop 3D printing designs and how students can apply this technology to solve engineering challenges within T&E curricula.

***Participants can receive 1 MSDE in-service credit for each workshop.** Visit the UMES T&E [website](#) to register.

report showing calculations and discussing environmental impacts of crabbing, their boat's performance, and their response to judges' questions at the event. This event is **FREE** to participate. It is being sponsored by UMES and Kelvin® so that all participants will receive food and an event t-shirt. Local media will be on site to cover the event. This is a great way for students to apply STEM skills to an authentic engineering challenge. More information about the event can be found at the UMES T&E [website](#).



TSA TEAMS Competition: Middle School

Saturday March 19, 2016 at UMES in Princess Anne, MD

Tests of Engineering Aptitude, Mathematics, and Science (TEAMS) is a national engineering design competition sponsored by the Technology Student Association (TSA). During this one-day competition, students apply their math and science knowledge to authentic engineering challenges, helping them discover their potential for engineering. Each year the theme for the competition is focused on the National Academy of Engineering Grand Challenges. This event provides a great opportunity to increase interest in STEM at your school, help students develop critical problem solving skills, and discover their potential for engineering! All participants will receive lunch and a t-shirt. For more information about the event or to register please visit the UMES T&E [website](#).

