

# The Brief

College of Engineering  
Student, Faculty and Staff  
Newsletter  
March 21, 2017



## E-Fest East is coming to Tennessee Tech

The American Society of Mechanical Engineers (ASME) has selected Tech for this three-day competition that enables students to expand their knowledge, test and showcase their skills, and inspire innovation. Many volunteers are needed to insure a successful event for ASME E-Fest East. April 21-23, 2017 our campus will host 800 engineering students and faculty from universities cross the eastern U.S. [Find out more about E-Fest East and volunteer here.](#)

**The Department of Computer Science** Announces the Dissertation Defense Of [Lenin Mookiah](#) In Partial Fulfillment of the Requirements For the degree of Doctor of Philosophy **TODAY at 11:00 a.m., Bruner Hall 126**

**There will be a short ASCE meeting TODAY during dead hour in PH 226.** We will be electing officers for next year and Dr. Yarnold and Donna will stop by to give updates/instructions about the golf outing which we will be hosting this year as our service activity. It's very important that anyone who wants to be involved with ASCE next year is there tomorrow to vote/nominate officers. [See you all then!](#)

**EJC is meeting this Thursday, March 23rd at 7pm in Clement 212** We will be discussing the results of E-Week, the rest of this semester, and next year. **And yes... There will be food!** If you have any questions feel free to contact me, Anna Thomason at [mathomason43@students.tntech.edu](mailto:mathomason43@students.tntech.edu) or [ttuejc@gmail.com](mailto:ttuejc@gmail.com)

## The 2017 ASEE/SME Competition for Student Makers

**When:** Tuesday June 27, 2017, 11:30am-1pm

**Where:** ASEE Annual Meeting, Columbus, OH, USA

**Who:** Students in universities, colleges, high schools, elementary schools. Other non-students may be included as long as the project work has been done by the students.

Register for the conference [here.](#)

*(Note that the cost is \$0 for student members of the ASEE.)*

**The Session:** See the web pages for details and examples.

*(Note: ignore the dates and submission requirements.)*

<https://sites.google.com/site/aseemfgmakers/home/2015-presenters>

<https://aseemanufacturing.org/2016/10/14/2017-make-it-session-enroll-by-oct-16/>

**See posters in Lewis Hall, Brown Hall and iMakerspace.**



Rhett Allain, Ph.D.

**Undergraduate Research Seminar Series: Using Physics to Model Superheroes and Science Fiction** with Rhett Allain, Ph.D. of Southeastern Louisiana University - a consultant for the **Mythbusters** TV show and currently consults on science matters for the new **MacGyver** series.

**Wednesday, March 22<sup>nd</sup> @ 4 p.m., Volpe Library 248.**  
**Refreshments served at 3:30 p.m.**

No one said we can only use physics models for real things. It can be both fun and useful to explore the extraordinary events from science fiction and superhero movies using fundamental principles in physics. In this talk, he will share some of his favorite examples of physics analysis. These include some cases that use video analysis and others with some basic numerical calculations in python.



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### bri·an·strom

(brī'ən-strŭm) v. to brainstorm incorrectly

Do you know how to brainstorm? Or does your group frequently brianstrom? Come learn the art of generating many different ideas and selecting the best choices from your list!

- **The Problem Solving Model:** Create, implement, and evaluate the success of a plan based on identified issues, root causes, and solutions.
- **Advanced Creativity:** Get out of a mental rut by thinking creatively to generate a large and varied list of ideas.
- **List Reduction:** Narrow the large list down to a few best ideas, using various techniques such as clarifying issues, creating selection criteria, removing non-controversial ideas, and using consensus.

**Saturday, March 25 @ 12-4 p.m., Brown Hall 237.**

**Refreshments provided.**

*– Sponsored by Tau Beta Pi*

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### Volunteers needed for Tree Planting!

The City of Cookeville will be planting 2,500 bare root trees this year and would like to have volunteers to help us out. The trees will be planted in three wetlands located on Bob Gentry Road as a wetland enhancement project; this site was cleared by a previous owner.



- **When: March 25 & April 1, 9:00 – 12:00 each day.** Meet at the Tennessee Department of Environment and Conservation Office, 1221 S. Willow Ave. and we will caravan out to the site.
- **What to wear:** Sturdy boots – water proof if you have them, sturdy long pants & shirts, coats/jackets as the weather requires
- **What to bring:** If you have a sharp shooter shovel or other shovel you can bring it.
- **We will have:** shovels, gloves, bottled water, snacks and of course the bare root trees.

**Signup sheet on the door for Prescott Hall 221**

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### Announcing the FICOSA graduate Internship at TnTech:

Tennessee Tech College of Engineering and FICOSA have partnered to create a new graduate student internship program in Automotive component design and manufacture. This program will provide a graduate student research assistantship and full funding of graduate tuition and fees during the duration of your graduate degree to earn the Master's of Science in Mechanical or Electrical Engineering. The program will integrate your coursework and research with programs of interest to the vehicle manufacturing industry and FicosA. You will spend time working with the FicosA research team in Detroit, Michigan and work primarily with new manufacturing programs at the FicosA Cookeville plant. Successful graduates will have the opportunity to be part of FicosA's engineering center in Cookeville TN. Particular interest are for M.S. Degree candidates in Mechanical and Electrical Engineering.



For more information please see the flyers posted in the ME and ECE offices or contact Professor Stephen Canfield at [SCanfield@tntech.edu](mailto:SCanfield@tntech.edu)

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### STUDENT GROUPS AND DEPARTMETNS

We are updating the Viewbook for the 2017-2018 academic year. Also, photos are needed for news releases and other printed materials.

**Get your student group together with their projects and take some high resolution photos them send them our way!**

#### We need:

- Action Shots – happy people doing fun, interesting and/or innovative things.
- Photos of teams working on various projects.
- Students/faculty designing, developing, creating new work. (Priority projects can be shot so as not to reveal the confidential content. Example, take photo from the side or behind, or we can obscure the sensitive content. If you need help, call us.)

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**A few things to keep in mind:**

- Get up close – show the student’s intense focus on the project.
- Diversity of students.
- Clean area – please remove soda bottles, cups, food wrappers, etc.
- When possible – have students wear TnTech clothing or colors. No required.
- No logos on clothing, except Tech.

**[Take a look at the last two Viewbooks to refresh your memory.](#)**

Please send photos to [engineering@tntech.edu](mailto:engineering@tntech.edu) or see Cynthia Davis or Beverley Nash in Clement Hall 201.

**Thank you for your help!**

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***We cannot become what we need to be by remaining what we are.***  
- Max DePree



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**Look for the next issue of [The Brief](#) April 25, 2017.**

*The Brief is published six times per year, at the beginning of each semester, after the mid-semester break and at the end of each semester. Please submit articles, events and notices no later than one calendar week before the distribution date to [engineering@tntech.edu](mailto:engineering@tntech.edu).*

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