



Engage Faculty Visit Virginia Tech over Fall Break



Betsy White, Will Schleiter, and Richard Bennett visited the Virginia Tech Engineering Education Department over Fall Break with the purpose of fostering collaboration, and sharing concepts of our already outstanding program. We gave an overview of Engineering Fundamentals, discussed aspects of the VT program with course coordinators, and observed some of their workshops, which are similar to our recitations. The visit was quite profitable by the cultivation of new connections, and through the injection of fresh new ideas into our repertoire, which in turn makes EF a more fruitful experience. One of our former teaching assistants, Rachel McCord, is now a PhD student in Engineering Education at Virginia Tech. It was nice to visit and see her doctoral work in action.

Will Schleiter Wows the FIE Conference with Innovative Work

Will Schleiter presented a paper entitled, "Work in Progress: Enhancing On-Line Interaction with Graphical Tools" at the Frontiers in Education Conference during October 12 - 15 held in Rapid City, South Dakota. The paper covers the sketching utilities and picture texting capabilities, which he added to our discussion board (see below). Take a gander! The paper is at <http://ef.engr.utk.edu/efd/publications>

Picture Associated with Homework

EF Rocks in YouTube Video

It finally happened, EF 152 made it to internet stardom! Students were given a task of making two types of instruments that could play 'Rocky Top'. The results are forever immortalized on YouTube (see link below). Although the execution of music is a bit rudimentary, the students performed admirably in the design to construction stages, and through the application of engineering principles in the analysis of their instruments. We had some unique devices, and even two homemade electric guitars!



http://www.youtube.com/watch?v=zdlEUKY_QEg&feature=youtube_gdata_player

Featured Problem

Our featured problem relates to the Rocky Top Sound project. It is a sweltering 95°F (35°C) on Rocky Top and Prof. White is trying to play middle C (262 Hz) on her flute (open pipe). She can adjust the pitch by moving the mouth piece in or out, thus changing the length of the instrument. To achieve the same pitch as she would at 20°C will she have to move the mouth piece in or out and by how much?

Answer: 1.7 cm out