

# **Engineering and Technology Advisory Board Agenda**

## **Effingham College and Career Academy**

**3-1-16**

Director of Engineering and Technology: Mr. Cliff Kicklighter

### **-Call to order**

**In attendance:** Cliff Kicklighter (ECCA), Aaron Parker (Ebenezer Middle School), Aniruddha Mitra (Georgia Southern University)

### **-Introduction of board members**

### **-Review of minutes from October Meeting**

### **-Update on class activities:**

We have officially wrapped up recruiting season at ECCA, we visited each school 3 nights during Jan-Feb to recruit future students. Student volunteers helped every night. We also had all 8<sup>th</sup> graders in the county tour our labs before they registered for classes.

I also presented for the 8<sup>th</sup> grade career day at Ebenezer Middle School and took a couple of TSA students to help present.

1<sup>st</sup> year Engineering class is currently working on CO2 cars after finishing a unit on Aerodynamics. We have also completed a unit on structural engineering and built and tested balsa wood bridges this semester. The 2<sup>nd</sup> year Engineering class has completed a unit on Drafting/CAD and has learned to use Autodesk Inventor, they have also created items to 3D print as their final product for the unit.

A group of 20 sophomores, juniors and seniors took a field trip to Georgia Southern University last Friday. We toured different labs in the Engineering building and also were able to see the Baja and Formula One cars that are in development by the Eagle Motorsports groups. This was a great field trip that lets students know they have a viable Engineering school in their back yard.

Students will be visiting Edwards Interiors in the next month or so, Drafting Students will sit in with the Engineering group and Engineering students will take the standard tour.

All classes have been changed from 2 years to 3 years to better line up with STEM Academy classes.

We are reviewing for EOPA's in Engineering and Drafting classes, students will take the tests the week after Spring Break

**-Update on TSA Activities** –talk about State Conference (handout) Athens, GA March 16-18 going with SEMS and Aaron Parker is also joining to help judge and get exposure to the conference.

**-Middle School Engineering overview (Aaron Parker-EMS)**

Mr. Parker gave us an overview of the middle school engineering program, he discussed his use of the Engineering By Design curriculum

**-Engineering Curriculum Update (STEM Academy update)**- lots of STEM Academy details still up in the air, looks like we will have to hire another Engineering teacher etc...

**-Input and future plans from board members**

Dr. Mitra would like our input and help on organizing a STEM Camp for female students grades 6-12.

**-Adjourn**