

# Spring 2020 BPCCEngineering Advisory Committee Minutes

March 6, 2020  
10:30 am Bldg L Room 213

## Attendees:

Megan Bange	Miles Hitchcock	Brian Smith
James M. Belt	Stephanie Jackson	Jeanne Smith
Stacey Black	Mark Lanier	Paul Spivey
D'Andrea Brown	Jennifer Lawrence	Susie Stinson
Brian Carlisle	Katie McLain	Michael Theodos
Danielle Csoma	Robert Newberry	Onega Ulanove
Daniel Davis	Kurt M. Nixon	Frank Viviano
Stormy Epps	Joseph Odenwald	Laura Weego
Gayle Flowers	Patricia Parker	Corey Wilson
Russ Gideon	Skylar Robey	Shirley Wilson
Miles Hitchcock	June Schneider	

## Welcome and Introductions

Megan Bange, Dean of Technology, Engineering and Mathematics, welcomed everyone and turned the meeting over to the program director, Dr. Schneider, to begin round table introductions.

## Adoption of last meeting minutes

### VOTE

Russ Gideon asked for a motion to approve the minutes from the last advisory board meeting held on March 27, 2019.

Robert Newberry made a motion to approve the minutes from March 27, 2019.

The motion was seconded by Kurt Nixon.

Vote in favor of motion is unanimous.

### VOTE

Russ Gideon asked for a motion to approve the program objectives and length.

Kurt Nixon made a motion to approve the program objectives and length.

The motion was seconded by Robert Newberry.

Vote in favor of motion is unanimous.

## State of the Department

Enrollment and graduation transfer data:

Enrollment for the engineering degree has been steady, however students that have identified Engineering as their major who start off in developmental math classes will change their major because of the amount of math involved and choose to take an alternative degree without higher level math courses.

John Hopkins Engineering Innovation at BPCCC, June 22 – July 17, 2020:

First year undergraduate engineering curriculum offered by John Hopkins will be available to students in high school. It is open to all students in high school that are highly motivated with at least a 3.0 in Algebra II and have completed chemistry and/or physics. This will be a hands-on lab with college level lectures. The course topics will include chemical, civil, electrical, materials and mechanical engineering. It is a John Hopkins freshman engineering course and the students will have an opportunity to earn college credit. Tuition is approximately \$3000.00 per student which is being funded by the BPCCC Foundation.

State and National Skills USA:

BPCCC students competed in National Skills USA in Louisville, KY June 24-28.

They placed:

Related Technical Math – Gold

Principles of Engineering – Bronze

Engineering Technology / Design – 5<sup>th</sup> place

2 Minute Entrepreneurial Pitch Competitions:

Second place was awarded to BPCCC students Panharith Bell and Juan Flores. Third place was awarded to BPCCC student Paul Vu. The winners were chosen by a panel of judges (Barksdale Air Force Base officials, as well as BPCCC and EAP staff) who were looking for these five topics to be covered: introduction; problem; solution; target customer; why their idea/solution is better than existing alternatives; and source of revenue. All winners are from the Division of Technology, Engineering, and Mathematics. Second and third place winners were awarded BPCCC bookstore gift cards of \$250 and \$150 for their achievements. The addition of the BPCCC 2-Minute Drill is another push toward promoting innovation in North Louisiana through a wide range of university partnerships focused on helping young entrepreneurs succeed.

Shreveport Mini-Maker Faire:

Dr. Schneider played a video highlights of student's activities of the Shreveport-Bossier Mini Maker Faire held on September 7<sup>th</sup>, 2019.

## **MATH, PHYS and ENGR Courses Learning Outcomes and Curriculum Update**

### **Calculus Series**

Skylar Robey reported that the preferred path is for engineering students to take the pre-calculus course even though it is not a requirement for the degree.

### **Engineering**

Real-life crane project: BPCC Student / Benteler Steel Employee: Daniel Davis presented his project via PowerPoint.

#### LA Tech Webworks at BPCC

Using Webworks problems in addition to textbook problems for homework in ENGR 201, 220, 221 & 222. Also, Solidworks and Matlab are embedded in ENGR courses.

Update and video on the new approved course ENGR 101:

Dr. Schneider reported that in the last 3 years BPCC's Engineering program has been working to better match the curriculum at LA Tech. The new course ENGR 101 which was added to the curriculum in the Fall 2019 to get BPCC to 6 credit hours in their freshman year.

Engineering students participated in the "Smart Products Design Expo" showcasing some of the projects they worked on this year. Students also created a Christmas tree ladder as part of the annual BPCC Christmas Show held at the Bossier Civic Center.

BPCC Foundation, Susie Stinson gave an update on the scholarships that have been awarded. Approximately 70 students have received scholarships since Fall 2019 and 100% of them have either graduated or re-enrolled.

Gene Hass Foundation gifted us with \$5000.00 and must be spent in the next 2 years for students enrolled in Engineering or Manufacturing in the next 3 semesters.

BPCC Endowed Scholarship in Engineering which was started by the advisory board raised \$7500.00 and the Board of Directors matched funds of \$12,500.00 for a total of \$20,000 for the endowed scholarship. Jennifer Lawrence and Susie Stinson submitted a proposal to the Board of Regents to match that amount and should have an answer by this April. If the proposal is approved, we will have a total of \$40,000.00 available for scholarships.

Jennifer Lawrence and June Schneider also submitted a request to the Enhancement Grant Board of Regents, "Engineering Tomorrows Innovators" for \$74,440 which was submitted on 10/20/2019 for classroom enhancements which would consist of:

Desktop Mill / Drill

Arduino and Raspberry Pi Sensors

Pasco Materials Testing

Software: Mathcad and Risa

Competitions

Mike Castro and Daniel Davis were recipients of the scholarship and were in attendance today and thanked the board for the opportunity.

Dr. Schneider asked the board to brainstorm ideas for the Advisory Board's Involvement for field trips, guest lecture, class projects, scholarships, internship for students, job shadowing, mentoring, coaching and sponsor a lunch or give informational talk at the John Hopkins Engineering Innovation Camp.

Paul Spivey made closing statements, meeting adjourned.

Minutes submitted by: Jeanne Smith

Minutes approved by: Dr. June Schneider