# 2015-2016 Project Reports

**Tau Beta Pi, SC Alpha**  
**Clemson University**

<table>
<thead>
<tr>
<th>Page(s)</th>
<th>Project Number</th>
<th>Project Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-2</td>
<td>1</td>
<td>Accelerate Speakers</td>
</tr>
<tr>
<td>3-4</td>
<td>2</td>
<td>Dual at the Den</td>
</tr>
<tr>
<td>5</td>
<td>3</td>
<td>CES Fit Run</td>
</tr>
<tr>
<td>6</td>
<td>4</td>
<td>Habitat Build</td>
</tr>
<tr>
<td>7-8</td>
<td>5</td>
<td>Meet the Members</td>
</tr>
<tr>
<td>9-10</td>
<td>6</td>
<td>Prosp. Members Mtg.</td>
</tr>
<tr>
<td>11</td>
<td>7</td>
<td>Snack &amp; Study Session</td>
</tr>
<tr>
<td>12-13</td>
<td>8</td>
<td>Trivia</td>
</tr>
<tr>
<td>14</td>
<td>9</td>
<td>EF Session</td>
</tr>
<tr>
<td>15-19</td>
<td>10</td>
<td>Engineering Expo</td>
</tr>
<tr>
<td>20-21</td>
<td>11</td>
<td>Limitless Networking</td>
</tr>
<tr>
<td>22</td>
<td>12</td>
<td>Wing Night Social</td>
</tr>
<tr>
<td>23</td>
<td>13</td>
<td>MVP Scholarship</td>
</tr>
<tr>
<td>24</td>
<td>14</td>
<td>SC Alpha Scholarship</td>
</tr>
<tr>
<td>25</td>
<td>15</td>
<td>Tau Talks</td>
</tr>
<tr>
<td>26</td>
<td>16</td>
<td>Wake-up Wednesday</td>
</tr>
<tr>
<td>27</td>
<td>17</td>
<td>Bent Polishing Parties</td>
</tr>
<tr>
<td>28</td>
<td>18</td>
<td>Bowling Social</td>
</tr>
<tr>
<td>29</td>
<td>19</td>
<td>Canned Food Drive</td>
</tr>
<tr>
<td>30</td>
<td>20</td>
<td>Election Meetings</td>
</tr>
<tr>
<td>31</td>
<td>21</td>
<td>Gen. Members Mtgs</td>
</tr>
<tr>
<td>32</td>
<td>22</td>
<td>Initiations</td>
</tr>
<tr>
<td>33</td>
<td>23</td>
<td>Major Discovery Night</td>
</tr>
<tr>
<td>34</td>
<td>24</td>
<td>Rebuild Upstate</td>
</tr>
<tr>
<td>35</td>
<td>25</td>
<td>Tshirt Sales</td>
</tr>
</tbody>
</table>

*See email attachment for attendance records by tab*
INSTRUCTIONS: Please complete each of the seven sections below. Any additional information which may be helpful to another chapter would also be appreciated, but do not send extraneous material that would not be useful to other chapters.

Project name: **Accelerate Guest Speakers** Date(s) of Project: Sept. 2, 9, 29, 30 Oct. 14, 16, 19 Nov. 4, 9, 11, Dec. 7

Project Area: ___ Community/ Liberal Culture ___ University/ College ___ Profession/ Engineering

Area: ___ Chapter/ Social ___ Education/ Prof. Dev. ___K-12/MindSET

Number of persons who participated in this project

Members: ___ Electees: ___ (Please attach a list of names.) Second page

Hours spent on this project. Organizing: ___ Participating: 1 Hr/session

DESCRIPTION:

I. General Description: Members were guest speakers for certain engineering topics for a Clemson Engineering professor’s high school class.

II. Purpose & Relationship to Objectives of TBP: To expose and inspire high school students who may not know what different types of engineering can do.

III. Organization & Administration: (in conjunction with another group?) ___ Yes ___ No

Dr. Maier, a Clemson Engineering professor who also teaches at a local high school was the professor that requested and collaborated with the multiple TBP students who spoke at his class.

IV. Cost & Personnel Requirements: No cost for TBP. TBP members signed up for time slots provided by Dr. Maier and then at their designated time, the members would Skype in on the high school class to present on engineering topics and answer questions. Dr. Maier provided his office and computer for the student to Skype into the high school class while still on Clemson’s campus.

V. Special Problems: The only issue that presented itself was finding TBP members that wanted to speak on certain topics. Some engineering topics such as sustainability and transportation had lots of members signing up to speak but for other topics such as big data, TBP officers found it more difficult to persuade members to speak about it. For future knowledge, TBP officers have assessed which topics members would be more inclined to speak about and finding possible professors with more work experience to talk about the issues that members are reluctant to speak about.

VI. Overall Evaluation/Results (Be Specific): Feedback from Dr. Maier’s class was great! These high school students loved hearing about college and what engineering can do since they do not get a lot of this information. From the TBP members’ perspective, the members liked inspiring and interacting with the high schoolers. They also enjoyed the convenience of speaking via Skype and being able to schedule these speaking sessions in between their classes while on campus. As members started to
do these sessions, more members have begun to be interested and TBP officers expect an increase in members opting to speak at this high school class.
INSTRUCTIONS: Please complete each of the seven sections below. Any additional information which may be helpful to another chapter would also be appreciated, but do not send extraneous material that would not be useful to other chapters.

Project name: **Dual at the DEN**  
Date(s) of Project: **Sept. 22nd, Oct. 29**

Number of persons who participated in this project  
Members: ___  
Electees: ___  
(Please attach a list of names.)

Hours spent on this project.  
Organizing: **7hrs**  
Participating: **2 hrs/session**

**DESCRIPTION:**

I. General Description: An event with freshman engineers learning hands-on how to design unique solutions to the Grand Engineering Challenges

II. Purpose & Relationship to Objectives of TBP: To educate and inspire freshman engineers to think about the Engineering Grand Challenges. Also, to walk them through how to think critically about designing solutions to problems and what are the obstacles that they face in the creative process.

III. Organization & Administration: (in conjunction with another group?)  
___ X ___ Yes  
___ No

Collaborated with Clemson’s Design & Entrepreneurship Network (DEN) organization. This organization engages and facilitates activities that bring all types of engineering majors together to think about designing engineering solutions. Some of these solutions also go farther with the help of DEN by helping the students involved with that specific solution become entrepreneur to create a possible business out of the engineering solution. DEN’s goal is to provide assistance to student engineers who believe that their engineering solution could be a business venture.

IV. Cost & Personnel Requirements: The event was no cost to TBP. DEN provided all the supplies for the activities.

V. Special Problems: N/A

VI. Overall Evaluation/Results (Be Specific): Engineering students really appreciated the hands on approach that the event allowed them. In actually going through the design process with their own idea, they felt more attached and responsible for the prototype they were creating. The students were told to choose a grand engineering challenge that their design would, in some way, tackle. The students were then told to do some empathy skills in order to figure out who their design would affect and what their stakeholders would want. Afterwards, they found an idea and went through the process of writing down all of the aspects of that idea: financial, mechanical, physical, location
placement, etc. Lastly, there were tons of craft supplies present and the students would make a physical prototype (if their idea was a product) to show to the rest of the room. Presentations of their prototypes were at the end of the event. This event really showcased what types of engineering can do for the Grand Engineering Challenges and introduced to the engineering students, real life scenarios of products they could be creating in the future. By introducing and guiding the students along, TBP members also enjoyed mentoring the students present.

VII. Index of Exhibits: Attached is the Grand Engineering Challenges presentation given by the TBP members at the event.
INSTRUCTIONS: Please complete each of the seven sections below. Any additional information which may be helpful to another chapter would also be appreciated, but do not send extraneous material that would not be useful to other chapters.

Project name: Initiation  Date(s) of Project: 11/14/2015

Project x Community/ Liberal Culture x University/ College ___ Profession/ Engineering
Area: ___ Chapter/ Social ___ Education/ Prof. Dev. ___ K-12/MindSET

Number of persons who participated in this project
Members: 6  Electees: 1
(Please attach a list of names.)

Hours spent on this project.
Organizing: 0  Participating: 2

DESCRIPTION:

I. General Description: Our members participated in the College of Engineering & Science Fit Run, a race against the Dean where college members can enhance their fitness and run through campus.

II. Purpose & Relationship to Objectives of TBP: To facilitate the growth of a well-rounded, healthy engineer who focuses on self-betterment through exercise and competition.

III. Organization & Administration: (in conjunction with another group?) ___ Yes ___ No
The college of engineering & science organized the event and we were participants.

IV. Cost & Personnel Requirements: Cost was $15 to individual members; not funded by chapter

V. Special Problems: N/A

VI. Overall Evaluation/Results (Be Specific): All those who ran enjoyed it and we once again won the highest participation award for organizations, and thus received a $200 donation to our chapter from the college.

VII. Index of Exhibits:
INSTRUCTIONS: Please complete each of the seven sections below. Any additional information which may be helpful to another chapter would also be appreciated, but do not send extraneous material that would not be useful to other chapters.

Project name: Habitat for Humanity Work Days    Date(s) of Project: 10/5 - 10/6/2015

Project X Community/ Liberal Culture    ___ University/ College    ___ Profession/ Engineering Area:    ___ Chapter/ Social    ___ Education/ Prof. Dev.    ___ K-12/MindSET

Number of persons who participated in this project
Members: 12    Electees: 6
(Please attach a list of names.)

Hours spent on this project.
Organizing: 1    Participating: 2.5

DESCRIPTION:

I. General Description: Through Clemson’s Habitat for Humanity club, TBP helped with construction on the Habitat for Humanity Homecoming House for two days.

II. Purpose & Relationship to Objectives of TBP: This project allowed members to serve their community and use engineering skills to determine the best way to help.

III. Organization & Administration: (in conjunction with another group?) X Yes    ___ No

This workday was organized in conjunction with Clemson University’s Habitat for Humanity club.

IV. Cost & Personnel Requirements: The students did not have to pay to participate in this project.

V. Special Problems: None.

VI. Overall Evaluation/Results (Be Specific): The day was successful because the members got a chance to get to know one another better and reach out to the electees, all while using their engineering skills to help their community.

VII. Index of Exhibits: Participation list
The Tau Beta Pi Association
Chapter: SC A
Chapter Project Report

INSTRUCTIONS: Please complete each of the seven sections below. Any additional information which may be helpful to another chapter would also be appreciated, but do not send extraneous material that would not be useful to other chapters.

Project name: Meet the Members Date(s) of Project: 9/9/15

Project Community/ Liberal Culture University/ College Profession/ Engineering
Area: Chapter/ Social Education/ Prof. Dev. K-12/MindSET

Number of persons who participated in this project Members: ___ Electees: ___
(Please attach a list of names.)

Hours spent on this project. Organizing: 1 Participating: 2

DESCRIPTION:

I. General Description:

This event was organized to give the prospective members a chance to meet the current members in a strictly social setting. Ice breakers and games were organized to help with this interaction.

II. Purpose & Relationship to Objectives of TBP:

The purpose of this event was recruiting new members as well as helping current members remain active in Tau Beta Pi by allowing different classes a chance to interact.

III. Organization & Administration: (in conjunction with another group?) Yes No

IV. Cost & Personnel Requirements: This event was executed very cheaply. The games and ice breakers were all free and the snacks were all fairly cheap consisting of ice cream and different toppings to put on it. The personnel needed were the vice-president who coordinated the event and the recording secretary who communicated this event with current members.

V. Special Problems:

N/a

VI. Overall Evaluation/Results (Be Specific):

I think this event was very successful. I met several of the prospective members in this meeting and it was fun seeing some of the current members who I already knew. One ice breaker was a particular standout. In this ice breaker, everyone in the room played rock paper scissors tournament where the losers had to cheer on the person they lost to. We made it unique by breaking up the engineering majors who then had to play each other until there was one player from each major left. That person
then had to play the champion from each of the other majors until there was one total winner. It was a nice way to get a lot of interaction especially between majors.
The Tau Beta Pi Association
Chapter Project Report

Project name: Prospective Members Meeting
Date(s) of Project: January 14 & 27, 2016
Project area: Chapter

Number of persons who participated in this project:
   Current Members: 5         Prospective Members: 40         Advisors: 3
Participants: See attached Attendance Record

Hours spent on this project (per meeting): 3
   Organizing: 1           Participating: 2

I. General Description: We held a meeting for prospective members who were invited by email invitation. We had a PowerPoint with details about what Tau Beta Pi is and the history behind it. The prospective members were also given a calendar of events that also listed the requirements for becoming a new member. This handout was then discussed in detail.

II. Purpose & Relationship to Objectives of TBP: The prospective members’ meeting introduces Tau Beta Pi to the juniors and seniors that have been invited to join the organization. Through this meeting, the organization seeks to entice qualified upperclassman to become involved in TBP.

III. Organization & Administration: (in conjunction with another group?) No
   i. The main auditorium in Holtzendorff (the general engineering building) was used for the meeting. It provided ample space and a large projector screen for viewing the PowerPoint.
   ii. Prospective members that showed interest but that could not attend the meeting were sent a calendar of events and were still encouraged to join and attend future events.
   iii. Prospective members that did not RSVP to the original email and did not attend the meeting were not sent the calendar or any further information.

IV. Cost & Personnel Requirements: Pizza Cost: $60; Vice President hosts the event, help from the President and Social Chairs

V. Special Problems: No problems arose in this event due to careful planning and preparation.
VI. Overall Evaluation/Results (Be specific): Overall, the meeting went very well! The officers that were present talked about why they joined Tau Beta Pi and seemed to give the prospective members interest in joining!
INSTRUCTIONS: Please complete each of the seven sections below. Any additional information which may be helpful to another chapter would also be appreciated, but do not send extraneous material that would not be useful to other chapters.

Project name: Finals Snack & Study Sessions Date(s) of Project: 12/2 & 12/7, 2015

Project __ Community/ Liberal Culture __ University/ College __ Profession/ Engineering Area: x Chapter/ Social __ Education/ Prof. Dev. __ K-12/MindSET

Number of persons who participated in this project Members: 18 Electees: 7
(Please attach a list of names.)

Hours spent on this project. Organizing: 2 Participating: 8

DESCRIPTION:

I. General Description: We opened up a large classroom during finals week only for TBP members to come study and grab snacks, both healthy and sweet! Campus is usually very full during finals week and it is difficult to find a study spot, so members enjoyed having space to study with their intelligent engineering classmates.

II. Purpose & Relationship to Objectives of TBP: To connect TBP members to one another and encourage them to study together, especially across the different disciplines of engineering.

III. Organization & Administration: (in conjunction with another group?) ___ Yes x No

IV. Cost & Personnel Requirements: Overall cost for food & drinks was approximately $150.

V. Special Problems: N/A

VI. Overall Evaluation/Results (Be Specific): Members really enjoyed the evening and we had a higher degree of communication than expected!
INSTRUCTIONS: Please complete each of the seven sections below. Any additional information which may be helpful to another chapter would also be appreciated, but do not send extraneous material that would not be useful to other chapters.

Project name: TBP Trivia Night     Date(s) of Project: 10/22/2015

Area:  x Chapter/ Social   _Education/ Prof. Dev.   _ K-12/MindSET

Number of persons who participated in this project
Members: 37   Electees: 13
(Please attach a list of names.)

Hours spent on this project.  Organizing: 4   Participating: 1

DESCRIPTION:

I. General Description: This was a friendly competition of wits! Trivia ranged from everything to Harry Potter to MatLab. Ice cream was served and brainy battles were warred!

II. Purpose & Relationship to Objectives of TBP: This was a social event to let our chapter compete against each other and have fun doing it. It was an event we had right before our election meeting last semester, and it brought everyone together for fun, games and ice cream before a serious meeting.

III. Organization & Administration: (in conjunction with another group?) ___ Yes  x No
This event was organized by our social chairs, Carter Ellis and I, and by our President, Meredith Clemmens. We held this in room 200 in Holtzendorff Hall, the General Engineering building.

IV. Cost & Personnel Requirements: This event spent about $30 on ice cream and all the necessary utensils and silverware that go along with it. It also spent $60 on the 4 $15 Moe’s gift cards for the winners. We had me as the MC, and Carter Ellis and Shannon Hall kept score together.

V. Special Problems: People got REALLY into it. The whole purpose of the event was for competition but Moe’s gift cards are sought-after prizes, and people were getting very competitive! I’m a huge fan of competition, but make sure to keep everything within reason for the future. Another thing would be the team organization. People kept showing up late and just hopping in and messing up the evenness of the teams. Use a spreadsheet and make sure

VI. Overall Evaluation/Results (Be Specific): Overall I thought this event went really well! I had a lot of fun MC’ing and I thought everyone else had fun competing against each other and eating ice cream. The problems were minimal, and everyone responded very well to the event.

VII. Index of Exhibits: N/A
INSTRUCTIONS: Please complete each of the seven sections below. Any additional information which may be helpful to another chapter would also be appreciated, but do not send extraneous material that would not be useful to other chapters.

Project name: TBP Trivia Night  
Date(s) of Project: 3/21/2016

Number of persons who participated in this project  
Members: 40  
Electees: 10

Hours spent on this project.
Organizing: 4  
Participating: 1

DESCRIPTION:

I. General Description: This was a friendly competition of wits! Trivia ranged from everything to Harry Potter to MatLab. Ice cream was served and brainy battles were warred!

II. Purpose & Relationship to Objectives of TBP: This was a social event to let our chapter compete against each other and have fun doing it. It was an event we had right before our election meeting last semester, and it brought everyone together for fun, games and ice cream before a serious meeting.

III. Organization & Administration: (in conjunction with another group?) ___ Yes  
This event was organized by our social chairs, Carter Ellis and I, and by our President, Meredith Clemmens. We held this in room 200 in Holtzendorff Hall, the General Engineering building.

IV. Cost & Personnel Requirements: This event cost about $50 on pizza. It also cost $60 on the 4 $15 Moe’s gift cards for the winners. We had me as the MC, and Carter Ellis and Shannon Hall kept score together.

V. Special Problems: Make sure to RSVP to this sort of event, and send out a reminder for the event with rules so people are prepared. Also, I would make sure you have the spreadsheet in a Google doc to make sure scoring/playing is easy.

VI. Overall Evaluation/Results (Be Specific): This event turned out really well! After running it once, we worked out the kinks and it went very smoothly. I was told by multiple people that it was a lot of fun, and I think this event is cost-effective and gets a lot of people involved.

VII. Index of Exhibits: N/A
The Tau Beta Pi Association
Chapter: SC Alpha
Chapter Project Report
Project number: 9

Project name: EF Session, Analytical Problem Solving  Date(s) of Project: 2/06/2016

Project area: Chapter/Social

Number of persons who participated in this project: 10  Members: 3  Prospective: 7
See attached Attendance Record.

Hours spent on this project: 7  Organizing: 3  Participating: 4

DESCRIPTION:

I. General Description: This is the second Engineering Futures session that we have had at Clemson University. At actually they have both been the “Analytical Problem Solving” session as it was the one that our chapter showed the most interest in. It was put on by the facilitator Wendy Harper, who was really enjoyed by all. Attendance was lower than expected we think because of how many events that we are having this semester.

II. Purpose & Relationship to Objectives of TBP: Our chapter mission statement includes offering professional development to our members. The EF sessions are a great resource offered by the national organization that our chapter believes will aid in the professional growth of all engineers at Clemson.

III. Organization & Administration: (in conjunction with another group?) No
   i. The session was held in Holtzendorff 200, which is located in the general engineering building.
   ii. No advisors attended the session.
   iii. People were required to RSVP in order to attend the session. People who had to cancel at the last minute were forwarded the notes from the session.

IV. Cost & Personnel Requirements: The cost of this event was around $90. This included breakfast, fruit, and coffee.

V. Special Problems: None

VI. Overall Evaluation/Results (Be Specific): People who attended the event had positive reviews about the lessons learned and its relevance to their lives. Our chapter will now be including the role of EF coordinator in the duties of the social chairs because we believe they will be able to get the most participation from the members and prospective members. We also want to have more than one session next year.
INSTRUCTIONS: Please complete each of the seven sections below. Any additional information which may be helpful to another chapter would also be appreciated, but do not send extraneous material that would not be useful to other chapters.

Project name: Engineering Expo Date(s) of Project: 2/25/16

Project X Community/ Liberal Culture ___ University/ College ___ Profession/ Engineering Area: ___ Chapter/ Social ___Education/ Prof. Dev. X K-12/MindSET

Number of persons who participated in this project Members: 7 Electees: ___
(Please attach a list of names.)

Hours spent on this project. Organizing: 16 Participating: 10

DESCRIPTION:

I. General Description: Engineering Expo is designed for local second graders to get them curious and excited about engineering. Student organizations from throughout the College of Engineering and Science each plan a fun, interactive activity for children to participate in. As Outreach Chair, I coordinated with the volunteers.

II. Purpose & Relationship to Objectives of TBP: This event was a way of recognizing excellence and innovation in engineering to a unique audience.

III. Organization & Administration: (in conjunction with another group?) Yes X No

N/A

IV. Cost & Personnel Requirements: ~$400 Food. ~$800 Space rental

V. Special Problems: No unique problems, other than a lack of food.

VI. Overall Evaluation/Results (Be Specific): Excellent turnout and positive feedback from the second graders. Might delegate more responsibilities in the future.

VII. Index of Exhibits: See attached pages
IIE  Katherina Jurewicz  Center
RC Cars, which design of control is better

UCBS  Timothy Harmon  1
- Discuss what atherosclerosis is and how biomedical stents work.
- Pour water down unobstructed pipe and time.
- Place Play-Doh on pipe, pour water and time.
- Place chicken wire on pipe, pour water and time.
- Discuss reasons for atherosclerosis and a healthy lifestyle.

Doc in email for shifts (purple)

IIE  Ebony Johnson, Taylor Koonts  2
Students will form two assembly lines, one on each side of the table. One assembly line will be demonstrating batch processing, the other continuous flow. The first child on each side will bounce a tennis ball 10 times on the table. The second child will toss the ball in the air and catch it 5 times. The third child will pass the ball between their hands 10 times. In assembly line one, when one task is complete, they will pass the tennis ball to the next child. In assembly line two, the second task cannot start until the first person completes the task with 4 balls. After one round is complete we will ask the children for feedback and see if they can find any improvements and then we will complete another round with the suggested improvements.
- Ebony 8-12
- Taylor 8-10
- Uday 10-12

EWB  Ian DeMass, Katherine Stahel  3**
In our experiment, we will explore static electricity and make a soda can race across the floor, chasing a balloon that has been negatively charged by rubbing it on hair. In the process, we will learn how opposite charges attract (positive protons attract negative electrons) and learn how electrons can be transferred from one surface to another.
- 8-9: Nathan Baugh, Katie Stahel
- 9-11: Andrew Carlin, Katie Stahel
- 11-12: Cesar Castellon, Matthew DeAngelis

AOE  Laura Jameson  4
Learn about friction using a hovercraft made from a balloon. Glue a pull-up water bottle lid to an old CD to create the base of the hovercraft. Then, inflate a balloon and stretch the lip over the lid without releasing any of the air. When the water bottle lid is closed, friction prevents the hovercraft from moving. When the lid is open, the balloon and CD create a cushion of air that allows the hovercraft to glide smoothly.

Peer/Wise  Nancy Parra  5
Our activity will consist of demonstrating the water cycle process, through two various forms. One portion of the activity will embody creating water cycle wristbands to show how nature cleans and moves water from the ocean to the air, to the land, and back again. We will have six different colored beads, representing different parts of the process. The second portion will be having the students create a small craft demonstrating the dynamics of the water cycle.
Setup 7:30 AM - 8:00 AM
1. Dana Sweatman
2. Emily Kowal
3. Quinton Gillard
4. Courtney Davis
Display Table 8 AM – 9 AM
1. Dana Sweatman
2. Emily Thompson
3. Katherine Shealy
4. Emily Kowal
5. Lauren Alford

Display Table 9 AM – 10 AM
1. Emily Thompson
2. Katherine Shealy
3. Emily Kowal
4. Megan Sech
5. Chelsea Coullete

Display Table 10 AM – 11 AM
1. Katherine Shealy
2. Meagan Sech
3. Tamara Ortega

Display Table 11 AM – 12 PM
1. Shannon Roberson
2. Katherine Shealy *(Until 11:30)

DEN Bre Przestrzelski 6**
- The kids will be split up into groups of 2 or 3.
- Working together, they will quickly design the sign for a company they would want to own as adults
  - We will use the big post-it note papers for the signs
  - Give them markers and other things to decorate with
- Using an assortment of supplies they will create a first, rough prototype for something they would sell in the store
  - Each group will have the same basic supplies, and a few random extras that differ from the other groups
  - They are allowed to swap items with each other
  - They can also draw out the idea on paper if they don’t want to make anything
- Facilitators will walk between groups and talk with the kids about their business/product
- We’ll mostly encourage the kids or offer little suggestions to make it more fun for them
- Try and incorporate the lessons below while walking around or address the group near the end

Anyone can be an entrepreneur with a little effort and help
It’s difficult, but fun, to work in a group
Making a successful product takes time and practice, but that’s okay.
Owning a small business can be a fun and exciting career

CI team Dr. Wang ECE 8
Biologically-inspired swarm robotics. Neurons can achieve synchronized firing with amazing robustness and scalability via exchanging simple identical pulses. Using a similar mechanism fireflies can achieve synchronized flashing. Our group have systematically studied the cooperation mechanism of interacting neurons and designed a bio-inspired cooperation mechanism for swarm robotics. Based on the developed mechanism, students use six ground robots in the lab to achieve various cooperative tasks. Such multi-robot based cooperative tasks have broad applications in flight formation, industrial automation, surveillance, intelligent transportation, to name only a few.
- Edward Bear
- Timothy Anglea
The Color Booth is a station for experimenting the effects of colored light on colored materials that are used in theatre production, such as costume fabrics and painted scenery. Visitors can see the effects of the primary colors of light (red, blue, and green) on colored materials. For example, blue light on red fabric will turn the costume grey, dull, and lifeless. On the other hand, yellow light on red fabric will make the costume very bright. The purpose of the Color Booth is to allow lighting designers to make wise decisions when picking colored filters for the lights before beginning technical rehearsals. Visitors to the Color Booth will have a chance to play a game where they are challenged to identify colored tiles under colored light.

- Tony Penna 7-9:30
- Greg Trykowski

How would you mail something important to a friend if you think the post office will steal it? You would mail it in a locked box! But how would your friend open that box? You would also mail your friend the key. But oh no! The post office will also just steal the key and use that to later open the box. Computers have a similar problem with passwords and important information. You don’t want hackers to see your passwords, so how does your computer talk to a website safely?

- Alexander Sferrella (me) there the whole day
- Marshall Clybern from 8 to 9 and then again from 11 to 12
- Dr. Brian Dean from 9 to 11.

The children will do a hands-on 3D modeling activity using SketchUp. There will be two computers, so two children participate at a time and 2-6 other children watch the activities on the screens. Students will be led through modeling a 3D house in 1-2 minutes and then each child will model his/her own house model in about 5 minutes. We will hand out 1/2 page sheets that provide the URL and instructions for parents to download and install SketchUp for their families to use for hobby projects and school projects.

- Joe Manganelli  (will be there the entire time)
- Gloria Ham  (will be there from 8-12)
- Leia Moore-Scott  (will be there part of the time)
- Michael Maggio  (will be there part of the time)

Our creative inquiry group has designed a medical training simulator for central venous catheterization (CVC). CVC involves placing a catheter in the jugular or subclavian vein, and it is used when medicine needs to be administered quickly and in large amounts. Because of the proximity of these veins to major arteries, the heart, and the lungs, this is a risky procedure. Our goal is to develop an anatomically accurate and inexpensive simulator to improve training and minimize patient risk. Students will learn how engineers can make a realistic model of human body structures so that doctors can practice procedures before working on real patients. We will also have a color-by-number activity for students to learn the difference between arteries and veins.

- 8-9:00: Alex Barrett and Regan van Metre
- 9-11:00: Julianne Jett and Rebecca Thomas
- 11-12:00: Julianne Jett and Jordan Casey
We will set up a model catapult to shoot small toys or candy (starburst).

See email from Steven about volunteers

<table>
<thead>
<tr>
<th>Geology</th>
<th>John Wagner, Kelly Hall**</th>
</tr>
</thead>
<tbody>
<tr>
<td>Painting</td>
<td></td>
</tr>
<tr>
<td>Geology</td>
<td></td>
</tr>
</tbody>
</table>

**INFORMS** Dotan Shvorin Outside

Outdoor target shooting with a Tennis machine ball - We are planning to use my research equipment (tennis machine balls, cones, video camera) to teach the kids how we learn from understanding certain variables of control such as speed, height, ball rotation, trajectory in order to hit a target in the distance.

**INFORMS** Anshuman Outside

An observation station with mobile white board - In this station we will use the white board to explain how we can measure and chart our capabilities when rolling a tennis ball at a target. We will calculate who will win the challenge.

**Move** Katie Rishebarger Outside (P)

Come blast off with 4-H Science on the Move! Make and launch a rocket made of paper.

- Katie

**3CT** Richard Outside

We will have the canoe out there on some stands with probably a table that has a cross-section of the canoe and some buckets that we will need to fill with water to demonstrate how our concrete floats.

<table>
<thead>
<tr>
<th>Kelsey Miller</th>
<th>8 am - 9 am: Event (talk with 2nd graders)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Claire Daly</td>
<td>7 am - 8 am: Take canoe to Hendrix and set up (We might be able to do the night before. We will check and let y'all know.), 8 am - 9 am: Event (talk with 2nd graders)</td>
</tr>
<tr>
<td>Ashley Williams</td>
<td>11 am - 12 pm: Event (talk with 2nd graders), 12 pm - 1 pm: Take down and take out canoe</td>
</tr>
<tr>
<td>Richard Beheler</td>
<td>Helping with the unloading and loading</td>
</tr>
<tr>
<td>Jennifer Grancho</td>
<td>12 pm - 1 pm: Take down and take out canoe</td>
</tr>
</tbody>
</table>

**Civil Eng** William Escoe Outside

Place the cups face down on a piece of cardboard. Then put the other piece of cardboard on top and checked to see if it would support a student’s weight. Try again, but this time, place the cup on the cardboard, and carefully pour the sand into the hole in the bottom with the scoop. When you think you have enough columns, place the other cardboard square on top of the cups. With a friend to spot you, carefully stand on the platform.

- William Escoe
- Michael Stoner
- Matthew Brekus
INSTRUCTIONS: Please complete each of the seven sections below. Any additional information which may be helpful to another chapter would also be appreciated, but do not send extraneous material that would not be useful to other chapters.

Project name: Limitless: Engineering Happens Everywhere   Date(s) of Project: February 22, 2016

Project ___ Community/ Liberal Culture ___ University/ College ___ Profession/ Engineering
Area: X Chapter/ Social ___ Education/ Prof. Dev. ___ K-12/MindSET

Number of persons who participated in this project: 44     Members: 44
(Please attach a list of names.)

Hours spent on this project. Organizing: 20      Participating: 3

DESCRIPTION:

I. General Description: Limitless: Engineering Happens Everywhere was planned to be an industrial night where leaders in various engineering industries would speak about their success in the field to TBP members. There was a panel of 4 industry leaders, along with 4 other industry leaders who were located in the audience, who spoke about their success in the field and gave advice to TBP members on how to become successful in the engineering field. Panelists were given approximately 40-45 minutes all together to speak about their experiences and offer advice to members. After this amount of time, a Question and Answer session was held, where members were encouraged to ask panelists any types of questions they deemed appropriate. After the Q & A session, a mix-and-mingle time period of 15 minutes was allowed for students to form networks with the industry leaders.

II. Purpose & Relationship to Objectives of TBP: Our chapter mission statement includes offering professional development to our members. This Limitless event provided a great opportunity for members to network with various industry leaders in different engineering fields. This resource offered by the national organization that our chapter believes will help aid in the professional development of members at Clemson and help them succeed in their future careers and endeavors.

III. Organization & Administration: (in conjunction with another group?) ___ Yes      X No

The Session was held in the Hendrix Ballroom, which is located in the Hendrix Student Center. No advisors attended the session. People were required to RSVP in order to attend the event.

IV. Cost & Personnel Requirements: The cost of the entire event was approximately $1,600. This included food and drinks for 70 people (chicken fingers, cookies, crackers, spinach dip, meatballs), costs for renting out the Hendrix ballroom, linens, a stage for the panelists to be on, table décor, and speaker gifts.

V. Special Problems: None
VI. Overall Evaluation/Results (Be Specific): Overall, this was the first time that Tau Beta Pi (Alpha Chapter) has ever held a Limitless Event, and the member turnout exceeded expectations. All speakers were extremely enthusiastic to participate and enjoyed interacting with the members. People who attended the event had extremely positive reviews about the tips and tricks that the industry leaders provided, and many even commented that they believe they will be more successful in interviews due to the advice offered by the panelists. Our chapter will be continuing this event seeing how successful it turned out. We believe that even greater participation from members will occur when the event is held next year and it would be beneficial to even hold this event once every semester.
INSTRUCTIONS: Please complete each of the seven sections below. Any additional information which may be helpful to another chapter would also be appreciated, but do not send extraneous material that would not be useful to other chapters.

Project name: Meet the Members Date(s) of Project: 01/27/2016

Project x Community/ Liberal Culture x University/ College __Profession/ Engineering
Area: x Chapter/ Social __Education/ Prof. Dev. __ K-12/MindSET

Number of persons who participated in this project Members: 35 Electees: 10
(Please attach a list of names.)

Hours spent on this project. Organizing: 2 Participating: 2

DESCRIPTION:

I. General Description: This event was a social event at TD’s for the new electees to network with the current members of Tau Beta Pi over tasty food

II. Purpose & Relationship to Objectives of TBP: The purpose of this was to involve the new members and show them that Tau Beta Pi is more than just a professional organization. Our chapter wants to network and build relationships from within, and we want to promote that culture to our future electees.

III. Organization & Administration: (in conjunction with another group?) ___ Yes x No
This event was organized by our social chairs, Carter Ellis and I, and by our President, Meredith Clemmens. We did this at TD’s, a restaurant in downtown Clemson, that catered the food.

IV. Cost & Personnel Requirements: We had a $200 budget for this event that was spent on reserving the back room of TD’s and on the chicken wings, fries and mozzarella sticks that were served.

V. Special Problems: We really didn’t have any problems or issues that I can think of. It was a relatively pain-free process and TD’s was very hospitable and accommodating.

VI. Overall Evaluation/Results (Be Specific): I really thought this event went well. People were talking to people they didn’t come with and actually meeting people. Everybody was playing pool and I thought the response to the event was really great. I would definitely do this again with all the same characteristics as the first time around.

VII. Index of Exhibits: N/A
INSTRUCTIONS: Please complete each of the seven sections below. Any additional information which may be helpful to another chapter would also be appreciated, but do not send extraneous material that would not be useful to other chapters.

Project name: TBP MVP Scholarship  Date(s) of Project: Spring 2016

Project Community/ Liberal Culture  University/ College Profession/ Engineering
Area: Chapter/ Social  Education/ Prof. Dev. K-12/MindSET

Number of persons who participated in this project  Members: 1  Electees: 0
(Please attach a list of names.)

Hours spent on this project.  Organizing: 1  Participating: 0

DESCRIPTION:

I. General Description: We awarded our first ever TBP MVP award to the member with the highest participation in chapter activities. Our winner, David Burchfiel, had attended over 10 events just this spring semester.

II. Purpose & Relationship to Objectives of TBP: With so many new events this semester, we wanted a way to really encourage member participation. We try to have events that are valuable to members, and this encouraged members to get more involved.

III. Organization & Administration: (in conjunction with another group?)  Yes  No

IV. Cost & Personnel Requirements: $200

V. Special Problems: N/A

VI. Overall Evaluation/Results (Be Specific): This certainly increased chapter participation, especially among those who were already pretty involved. It created a competition and increased attendance at many of our events this spring.
INSTRUCTIONS: Please complete each of the seven sections below. Any additional information which may be helpful to another chapter would also be appreciated, but do not send extraneous material that would not be useful to other chapters.

Project name: TBP SC Alpha Scholarships Date(s) of Project: Spring 2016

Project __ Community/ Liberal Culture __x__ University/ College __x__ Profession/ Engineering
Area: __ Chapter/ Social __x__ Education/ Prof. Dev. __ K-12/MindSET

Number of persons who participated in this project
Members: 2 Electees: 0
(Please attach a list of names.)

Hours spent on this project.
Organizing: 4 Participating: 0

DESCRIPTION:

I. General Description: We sent out applications for our annual TBP SC Alpha Member-Only scholarship and the senior Exec board & advisors reviewed applications to determine two winners. Each winner was awarded $500 in scholarship.

II. Purpose & Relationship to Objectives of TBP: To award chapter funds to members who have displayed leadership both within our chapter and throughout campus—we especially wanted to award those who were active in diverse organizations across campus as leaders.

III. Organization & Administration: (in conjunction with another group?) ___ Yes __x__ No

IV. Cost & Personnel Requirements: $1000—the $$ came from previous chapter project awards!

V. Special Problems: N/A

VI. Overall Evaluation/Results (Be Specific): We did not receive as many applicants as we would like—only about 6 out of over 200 members. We are unsure why members od not want to participate or if our communication is poor. We will work on increasing the applicant pool in the future.
INSTRUCTIONS: Please complete each of the seven sections below. Any additional information which may be helpful to another chapter would also be appreciated, but do not send extraneous material that would not be useful to other chapters.

Project name: Tau Talks
Date(s) of Project: 1/21/16, 1/28/16, 2/18/16, 2/25/16

Number of persons who participated in this project
Members: 11
Electees: 0
(Please attach a list of names.)

Hours spent on this project.
Organizing: 4 hrs/Session
Participating: 1 hr/Session

DESCRIPTION:

I. General Description: We had industry and student volunteers from the different engineering majors speak at a catered dinner. Each speaker delivered a “sales pitch” to get RiSE students excited about their potential majors. At the end of each session, there was an informal Q&A so students could get one-on-one advice.

II. Purpose & Relationship to Objectives of TBP: By helping students and prospective members learn more about their major so that they can advance themselves professionally.

III. Organization & Administration: (in conjunction with another group?) X Yes ___ No

In conjunction with Residents in Science and Engineering Living Learning Community, a freshman on-campus residence for students in the College of Engineering and Science

IV. Cost & Personnel Requirements: $400 for catered dinner for ~48 students.

V. Special Problems: No unique problems.

VI. Overall Evaluation/Results (Be Specific): The events went very well. In the future, I would want to recruit more from local industries and less from within the faculty of the universe. Also, I am still developing strategies to encourage students to ask more questions.

VII. Index of Exhibits: N/A
The Tau Beta Pi Association  
Chapter: SC Alpha  
Chapter Project Report  
Project number: 16

Project name: Wake Up Wednesday  
Date(s) of Project: 3/01/16

Project area: Chapter/Social

Number of persons who participated in this project: 11  
Members: 9  
Prospective: 2

Hours spent on this project: 4  
Organizing: 2  
Participating: 2

DESCRIPTION:

I. General Description: Wake Up Wednesday is a new initiative that our alpha chapter is putting on in order to publicize Tau Beta Pi on campus. This event consisted of setting up a table with coffee and snacks outside of Freeman Hall (the Industrial Engineering building) in order to get the word out about TBP to the students on campus. This event had hour shifts and lasted for a two-hour period (from 8:30am to 10:30am).

II. Purpose & Relationship to Objectives of TBP: Our chapter mission statement includes making the student body aware of TBP and letting the general student body know all of the great events and offerings that TBP presents for members. Wake Up Wednesday allows current members to make new members and speak about the positive experiences they have had as a member within TBP to potential members and the general student body population. Overall, this event helps showcase our society and raises interest from the student body, leading to more students’ interest in becoming potential members being that they are engineering majors.

III. Organization & Administration: (in conjunction with another group?) No
   i. The session was held in outside of Freeman Hall.
   ii. No advisors attended the session.
   iii. Members were asked to volunteer to sign up for half-an-hour shifts.

IV. Cost & Personnel Requirements: The cost of this event was around $50. This included coffee, cups, and snacks.

V. Special Problems: None

VI. Overall Evaluation/Results (Be Specific): People who worked the various shifts had positive reviews about publicizing the society to the students passing by Freeman Hall. This was a successful event allowing members to talk to possible potential members and spread the word about what Tau Beta Pi has to offer Engineering students. Our chapter will be holding more of these events for public relations purposes and we believe that there will be even greater participation from members and prospective members next time this event is held. We would like to hold at least two of these events each semester.

VII. Index of Exhibits:
INSTRUCTIONS: Please complete each of the seven sections below. Any additional information which may be helpful to another chapter would also be appreciated, but do not send extraneous material that would not be useful to other chapters.

Project name: Bent Polishing Parties  Date(s) of Project: Sept. 22, Oct. 19, Feb. 8, Feb. 18, March 1

Project __ Community/ Liberal Culture __ University/ College __ Profession/ Engineering
Area: X Chapter/ Social ___Education/ Prof. Dev. ___ K-12/MindSET

Number of persons who participated in this project Members: 40 Electees: 62
(Please attach a list of names.)

Hours spent on this project. Organizing: 5 Participating: 15

DESCRIPTION:

I. General Description: The bent polishing parties provided an opportunity for members and potential members to pick up their bents and work on polishing them in the project lab of the General Engineering Building. During the events, we would provide pizza and water as well as play music to foster a friendly atmosphere where members could network and get to know one another better. The members also had the opportunity to use a variety of tools to compete for the shiniest bent prize that is awarded at the end of the semester.

II. Purpose & Relationship to Objectives of TBP: Polishing the bent is a tradition that has long been a part of our organization and can be thought of as representing honing the skills of an engineer.

III. Organization & Administration: (in conjunction with another group?) ___ Yes  X No

IV. Cost & Personnel Requirements: Approximately $50 per session for providing the pizza and $160 per semester for refunding the dues of the member and initiate with the shiniest bent. Polishing supplies were also provided by Tau Beta Pi or Clemson University.

V. Special Problems: None

VI. Overall Evaluation/Results (Be Specific): There was a significant increase in the total number of members who attended bent polishing and the number of members who returned multiple times even though they had reached the maximum number of points they could receive for this event. This speaks to the fact that there was a recognized need for improvement and a successful strategy was implemented to make these events more successful. Overall, the turnout was very good.

VII. Index of Exhibits: none
INSTRUCTIONS: Please complete each of the seven sections below. Any additional information which may be helpful to another chapter would also be appreciated, but do not send extraneous material that would not be useful to other chapters.

Project name: Tau Beta Pi Bowling Social Night Date(s) of Project: 11/12/15 and 2/2/16

Project ___Community/ Liberal Culture ___University/ College___Profession/ Engineering Area: ___Chapter/ Social ___Education/ Prof. Dev. ___K-12/MindSET

Number of persons who participated in this project Members: 8 (Fall), 23 (Spring); Electees: 4 (Please attach a list of names.)

Hours spent on this project. Organizing: ___3___ Participating: ___2___

DESCRIPTION:

I. General Description: Our chapter rented out the bowling alley located in our student union twice this year, once in the fall and once in the spring. For this event, all members were invited to RSVP if they wanted to bowl and get to know other members. Members who attended the event were able to bowl for free and were also provided with pizza. The event lasted about two hours both times. As you can see, the event became more popular in the spring after the other members saw how much fun it was in the fall!

II. Purpose & Relationship to Objectives of TBP: The purpose of this event was to promote socializing and bonding between our chapter members. Often times, chapter members do not know everyone since we have such a large chapter. Social nights like Bowling Nights are great ways to bring our chapter together in a fun and casual environment so that everyone can better get to know each other.

III. Organization & Administration: (in conjunction with another group?) ___ Yes ___X___ No

The two social chairs planned this event by coordinating with Clemson University’s Student Union. The bowling alley was rented out for a small fee from the university.

IV. Cost & Personnel Requirements: The cost to rent out 6 lanes in the bowling alley was about $75 (around $12 per lane), and the cost of pizza was about $75 as well. In total, the events cost about $150 each.

V. Special Problems: None

VI. Overall Evaluation/Results (Be Specific): The first time we did this event in the fall, it was not as popular since it had never been done before. Therefore, we had a much lower participation rate in the Fall, but the members who did attend had a great time and really got to know each other. As a result, we had a much higher attendance in the spring, and the spring event was an even bigger success since we had such a large crowd attend.
INSTRUCTIONS: Please complete each of the seven sections below. Any additional information which may be helpful to another chapter would also be appreciated, but do not send extraneous material that would not be useful to other chapters.

Project name: **Canned Food Drive**  
Date(s) of Project: **Fall 2015/Spring 2016**

Project X Community/ Liberal Culture  __ University/ College  ___Profession/ Engineering
Area:  ____ Chapter/ Social  ___Education/ Prof. Dev.  ___ K-12/MindSET

Number of persons who participated in this project  
Members: 38  
Electees: 14

(Please attach a list of names)

Hours spent on this project.  
Organizing: 4  
Participating: ___

DESCRIPTION:

I. General Description: This community outreach event connects students with the Clemson community. TBP members are able to give three food items or a monetary donation to receive credit for participating in this event. At the semester, all the food and donations are consolidated to be delivered to Clemson Community care organization.

II. Purpose & Relationship to Objectives of TBP: TBP Clemson chapter supplies food supplies to Clemson Community Care, which is a non profit organization that assists people with food and necessities during difficult circumstances. This food drive allows for TBP Clemson chapter to connect and give back to the Clemson community.

III. Organization & Administration: (in conjunction with another group?)  _X__ Yes  __ No

Clemson Community Care non-profit organization

IV. Cost & Personnel Requirements: None, food and monetary donations are dropped off at a central location for later pick up.

V. Special Problems: Making sure that every food item is documented for a TBP member to receive recognition in participating in this semester long event.

VI. Overall Evaluation/Results (Be Specific): Clemson Community Care is extremely grateful in TBP’s donation at the end of the year. This partnership allows TBP members to see another side of the city of Clemson and use their abilities to help Clemson residents out. While this is a seemingly low maintenance event for TBP members, the effects on the community are from this food drive are extraordinary.

VII. Index of Exhibits:
The Tau Beta Pi Association  
Chapter: SCA  
Project number: 20

INSTRUCTIONS: Please complete each of the seven sections below. Any additional information which may be helpful to another chapter would also be appreciated, but do not send extraneous material that would not be useful to other chapters.

Project name: Election Meeting 2015  
Date(s) of Project: 10/22/2015, 3/21/2016

<table>
<thead>
<tr>
<th>Area</th>
<th>Chapter/ Social</th>
<th>Education/ Prof. Dev.</th>
<th>K-12/MindSET</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>Chapter/ Social</td>
<td>Education/ Prof. Dev.</td>
<td>K-12/MindSET</td>
</tr>
</tbody>
</table>

Number of persons who participated in this project  
Members: 160  
Electees: 0  
(Please attach a list of names.)

Hours spent on this project.  
Organizing: 4  
Participating: 2

DESCRIPTION:

I. General Description: During this meeting, the current members of the SCA chapter of Tau Beta Pi voted on whether to elect the prospective members to our chapter.

II. Purpose & Relationship to Objectives of TBP: The purpose of the meeting was to select new members to join the organization and to ensure that the prospective members had met all requirements laid out by the organization.

III. Organization & Administration: (in conjunction with another group?)  
Yes  
No

IV. Cost & Personnel Requirements: The event cost no money, but all officers were present at the meeting. They assisted with the logistics of running the meeting.

V. Special Problems: A John McLeod was being elected to join the society which coincidentally is the name of our Vice President. Once this issue was addressed, the meeting could move forward.

VI. Overall Evaluation/Results (Be Specific): This meeting was very successful. Due to the diligence of all officers involved, the meeting ran smoothly and all tasks were accomplished quickly and without issue.
INSTRUCTIONS: Please complete each of the seven sections below. Any additional information which may be helpful to another chapter would also be appreciated, but do not send extraneous material that would not be useful to other chapters.

Project name: **General Members Meeting**  Date(s) of Project: **8/26/15 & 1/19/16**

Project area: ___ Community/ Liberal Culture ___ University/ College ___ Profession/ Engineering  
Area: **X** Chapter/ Social ___ Education/ Prof. Dev. ___ K-12/MindSET

Number of persons who participated in this project  Members: **Fall-58, Spring-75**  Electees: 0  
(Please attach a list of names.)

Hours spent on this project.  Organizing: 4  Participating: 2

DESCRIPTION:

I. General Description: The purpose of this meeting is to inform the current members of the chapter of the requirements for the semester and the planned activities in which the members will be able to participate.

II. Purpose & Relationship to Objectives of TBP: We present the requirements for continued active membership and opportunities for involvement in the organization to the current members.

III. Organization & Administration: (in conjunction with another group?) ___ Yes  **X** No

IV. Cost & Personnel Requirements: Cost for refreshments—pizza and beverages. It was necessary that one advisor and president resided over the meeting.

V. Special Problems: N/A

VI. Overall Evaluation/Results (Be Specific): Member attendance has increased over the years, although many were unable to attend and were updated via email. Members seem to be more engaged with events now than in the past, which is really nice for chapter morale.

VII. Index of Exhibits: (see attached spreadsheet of total member attendance)
INSTRUCTIONS: Please complete each of the seven sections below. Any additional information which may be helpful to another chapter would also be appreciated, but do not send extraneous material that would not be useful to other chapters.

Project name: Initiation  Date(s) of Project: 11/19/2015 & 4/7/2016

Project __ Community/ Liberal Culture __ University/ College __ Profession/ Engineering
Area: x Chapter/ Social __ Education/ Prof. Dev. __ K-12/MindSET

Number of persons who participated in this project
Members: 145  Electees: 86
(Please attach a list of names.)

Hours spent on this project. Organizing: 5  Participating: 4

DESCRIPTION:

I. General Description: We held initiation in our main engineering auditorium and then had a large social afterwards with food, socializing, and announcements.

II. Purpose & Relationship to Objectives of TBP: To welcome in new members and celebrate their accomplishments by ensuring they feel welcome.

III. Organization & Administration: (in conjunction with another group?) ___ Yes  x No

IV. Cost & Personnel Requirements: Overall cost for food, for both fall and spring was approximately $2000. For the spring initiation, we had additional funding from the Dean’s office and were able to cater better food.

V. Special Problems: N/A

VI. Overall Evaluation/Results (Be Specific): We had a wonderful turnout at the fall 2015 initiation and a smaller turnout in the spring—while attendance is mandatory for members, many have presentations or night exams in the spring. Overall, members really enjoyed the food and new members felt very welcome as the Assistant Dean was in attendance and we initiated 4 eminent engineers this year.

VII. Index of Exhibits:
Project name: Major Discovery Night

Date(s) of Project: Fall: 10/27/2015
Spring: 2/16/2016

Project area: Profession/Engineering

Number of persons who participated in this project: 43
Members: 41
Prospective: 2

See attached Attendance Record.

Hours spent on this project: 3.5
Organizing: 1
Participating: 2.5

DESCRIPTION:

I. General Description: The General Engineering program sponsored the night and brought in Clemson Alumni and industry workers from around the SC upstate to represent their discipline of engineering. TBP members worked shifts at the tables to mingle with the general engineering students as well as the alumni to help freshmen choose their major and give them insight on future classes, professors, etc. The night was offered as extra credit for the freshman students which helps encourage their attendance. This year instead of being split by major they were split up by areas, which were Big Data, Manufacturing and Advance Materials, Healthcare, Transportation, STEM Education, and Energy and Sustainability.

II. Purpose & Relationship to Objectives of TBP: This event is important as it helps to facilitate professional relationships between freshmen, upperclassmen, as well as working professional engineers.

III. Organization & Administration: (in conjunction with another group?) Yes, General Engineering

   i. The session was held throughout multiple rooms in the Watt Family Innovation Center the newest building on Clemson’s campus in the Spring and in the Holtzendorf General Engineering hall in the fall.

   ii. We had two advisors present.

   iii. Members were asked to sign up to help out a couple weeks in advance and were allowed to sign up until the night before

IV. Cost & Personnel Requirements: $0—the food was provided by the general engineering department

V. Special Problems: None

VI. Overall Evaluation/Results (Be Specific): Students, alumni, and TBP members all enjoyed the event! Over 130 general engineering students attended the event and enjoyed speaking with not only industry members, but well-respected TBP upperclassmen!
INSTRUCTIONS: Please complete each of the seven sections below. Any additional information which may be helpful to another chapter would also be appreciated, but do not send extraneous material that would not be useful to other chapters.

Project name: ReBuild Upstate Work Day Date(s) of Project: 9/26/2015, 4/9/2016

Project X Community/ Liberal Culture ___ University/ College ___ Profession/ Engineering Area: ___ Chapter/ Social ___ Education/ Prof. Dev. ___ K-12/MindSET

Number of persons who participated in this project Members: 10 Electees: 8
(Please attach a list of names.)

Hours spent on this project. Organizing: 8 Participating: 20

DESCRIPTION:

I. General Description: Through ReBuild Upstate, TBP helped tear out, reinforce and replace the flooring in 6 rooms in the home of a woman in need in the Clemson community area.

II. Purpose & Relationship to Objectives of TBP: This project allowed members to serve their community and use engineering skills to determine the best way to help.

III. Organization & Administration: (in conjunction with another group?) X Yes ___ No

This workday was organized in conjunction with ReBuild Upstate.

IV. Cost & Personnel Requirements: The students did not have to pay to participate in this project, aside from gas money used to arrive at the site. TBP provided lunch for all-day volunteers.

V. Special Problems: None.

VI. Overall Evaluation/Results (Be Specific): The day was successful because the members got a chance to get to know one another better and reach out to the electees, all while using their engineering skills to help their community.

VII. Index of Exhibits: Participation list
INSTRUCTIONS: Please complete each of the seven sections below. Any additional information which may be helpful to another chapter would also be appreciated, but do not send extraneous material that would not be useful to other chapters.

Project name: T-Shirt Sales Date(s) of Project: 9/11, 9/18, 9/25, 10/2, 10/16, 10/23, 10/30, 11/6, 11/13, 1/29, 2/5, 2/12, 2/19, 2/26, 3/4, 3/25, 4/1, 4/8, 4/15

Project ___Community/ Liberal Culture ___X_ University/ College__ Profession/ Engineering Area: ___X_ Chapter/ Social ___Education/ Prof. Dev. ___K-12/MindSET

Number of persons who participated in this project Members: ___ Electees: ___

Hours spent on this project. Organizing: _30 min/week__ Participating: _1 hour/week__

DESCRIPTION:

I. General Description: Every Friday Tau Beta Pi sells in house Clemson Engineering designed t-shirts to incoming high school students during their tours of Clemson University. These shirts are sold at $10 a piece with 100% of the proceeds going to the Emerson Rose Heart Foundation.

II. Purpose & Relationship to Objectives of TBP: Encouraged an interested in engineering through selling t-shirts to incoming students. They get excited about the possibility of attending Clemson. This also required current members to talk to incoming students about the benefits of being apart of Clemson Engineering.

III. Organization & Administration: (in conjunction with another group?) ___ Yes ___X_ No

IV. Cost & Personnel Requirements: The inventory costs of shirts. The personal ranged from 5 assistants to 10 students based on the size of upcoming tour.

V. Special Problems: None.

VI. Overall Evaluation/Results (Be Specific): Large member participation was encouraged to efficiently sell the shirts. Also the proceeds are helping the community. Over 450 shirts were sold over the course of the year.

VII. Index of Exhibits: None.