KANSAS STATE UNIVERSITY

Annual Report for
American Society of Civil Engineers Student Chapter

Contact Information

• 2118 Fiedler Hall
  Manhattan, KS 66506
• www.asce@engg.ksu.edu
• http://www.engg.ksu.edu/ASCE/
  -http://www.engg.ksu.edu/asce/newsletter
### Student Officers Spring 2015

<table>
<thead>
<tr>
<th>Office</th>
<th>Name</th>
<th>Email</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>President</td>
<td>Claudia Gonzalez</td>
<td><a href="mailto:claudi1@ksu.edu">claudi1@ksu.edu</a></td>
<td>(316)253-2805</td>
</tr>
<tr>
<td>Vice President</td>
<td>Yadira Porras</td>
<td><a href="mailto:yaporras@ksu.edu">yaporras@ksu.edu</a></td>
<td>(316)281-5006</td>
</tr>
<tr>
<td>Treasurer</td>
<td>Seth Heronemus</td>
<td><a href="mailto:sethheronemus@ksu.edu">sethheronemus@ksu.edu</a></td>
<td>(785)341-1063</td>
</tr>
<tr>
<td>Secretary</td>
<td>Bryan Harkrader</td>
<td><a href="mailto:bharkrader@ksu.edu">bharkrader@ksu.edu</a></td>
<td>(620)490-1923</td>
</tr>
<tr>
<td>Special Projects</td>
<td>Mary Madden</td>
<td><a href="mailto:marymadden@ksu.edu">marymadden@ksu.edu</a></td>
<td>(913)901-7727</td>
</tr>
<tr>
<td></td>
<td>Caleb Mitchell</td>
<td><a href="mailto:caleb7@ksu.edu">caleb7@ksu.edu</a></td>
<td>(816)288-0065</td>
</tr>
<tr>
<td>Historian</td>
<td>Brett Morey</td>
<td><a href="mailto:bmorey@ksu.edu">bmorey@ksu.edu</a></td>
<td>(785)691-5307</td>
</tr>
<tr>
<td>Graduate Rep</td>
<td>James Scott</td>
<td><a href="mailto:jamesds@ksu.edu">jamesds@ksu.edu</a></td>
<td>(785)477-1264</td>
</tr>
<tr>
<td>Freshman/Sophomore Rep</td>
<td>Chad Otney</td>
<td><a href="mailto:oleyn@ksu.edu">oleyn@ksu.edu</a></td>
<td>(620)218-8603</td>
</tr>
<tr>
<td>Open House Chair</td>
<td>Benjamin Nye</td>
<td><a href="mailto:nyes@ksu.edu">nyes@ksu.edu</a></td>
<td>(316)250-9411</td>
</tr>
<tr>
<td></td>
<td>George Baker</td>
<td><a href="mailto:georgebaker@ksu.edu">georgebaker@ksu.edu</a></td>
<td>(913)775-2997</td>
</tr>
<tr>
<td></td>
<td>Koby Slaven</td>
<td><a href="mailto:koslaven@ksu.edu">koslaven@ksu.edu</a></td>
<td>(913)991-1167</td>
</tr>
<tr>
<td>Concrete Canoe</td>
<td>Jackelyn Ewald</td>
<td><a href="mailto:kewald@ksu.edu">kewald@ksu.edu</a></td>
<td>(913)575-7877</td>
</tr>
<tr>
<td>Steel Bridge</td>
<td>Donald Powers</td>
<td><a href="mailto:dpowers@ksu.edu">dpowers@ksu.edu</a></td>
<td>(706)300-3030</td>
</tr>
<tr>
<td></td>
<td>Eric Hamilton</td>
<td><a href="mailto:eric29@ksu.edu">eric29@ksu.edu</a></td>
<td>(620)388-1898</td>
</tr>
</tbody>
</table>

### Student Officers Fall 2015

<table>
<thead>
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<td><a href="mailto:claudi1@ksu.edu">claudi1@ksu.edu</a></td>
<td>(316)253-2805</td>
</tr>
<tr>
<td>Vice President</td>
<td>Michael Mancic</td>
<td><a href="mailto:sumadinac316@ksu.edu">sumadinac316@ksu.edu</a></td>
<td>(818)391-6653</td>
</tr>
<tr>
<td>Treasurer</td>
<td>Jared Yost</td>
<td><a href="mailto:yost79@ksu.edu">yost79@ksu.edu</a></td>
<td>(316)390-3864</td>
</tr>
<tr>
<td>Secretary</td>
<td>Dustin Phommanivong</td>
<td><a href="mailto:dustin17@ksu.edu">dustin17@ksu.edu</a></td>
<td>(913)530-5038</td>
</tr>
<tr>
<td>Editor/Historian</td>
<td>Sulaiman Alrweih</td>
<td><a href="mailto:salamoote@ksu.edu">salamoote@ksu.edu</a></td>
<td></td>
</tr>
<tr>
<td>Freshman/Soph</td>
<td>Swedi Bitendelio</td>
<td><a href="mailto:swedi@ksu.edu">swedi@ksu.edu</a></td>
<td>(913)232-3269</td>
</tr>
<tr>
<td>Activities Chair</td>
<td>Hannah Borgers</td>
<td><a href="mailto:hborgers@ksu.edu">hborgers@ksu.edu</a></td>
<td>(316)765-3171</td>
</tr>
<tr>
<td>Community Service</td>
<td>Ramin Rostampour</td>
<td><a href="mailto:rost23@ksu.edu">rost23@ksu.edu</a></td>
<td>(913)850-1847</td>
</tr>
<tr>
<td>Graduate Rep</td>
<td>James Scott</td>
<td><a href="mailto:jamesds@ksu.edu">jamesds@ksu.edu</a></td>
<td>(785)477-1264</td>
</tr>
<tr>
<td>Open House</td>
<td>Laura Nielsen</td>
<td><a href="mailto:lnelson2@ksu.edu">lnelson2@ksu.edu</a></td>
<td>(785)766-5301</td>
</tr>
<tr>
<td></td>
<td>Alec Weinger</td>
<td><a href="mailto:weinger@ksu.edu">weinger@ksu.edu</a></td>
<td>(832)421-1856</td>
</tr>
<tr>
<td></td>
<td>Matthew Elder</td>
<td><a href="mailto:mecker@ksu.edu">mecker@ksu.edu</a></td>
<td>(785)438-8705</td>
</tr>
<tr>
<td>Steel Bridge</td>
<td>Austin Jaeneman</td>
<td><a href="mailto:aj12@ksu.edu">aj12@ksu.edu</a></td>
<td>(785)747-7379</td>
</tr>
<tr>
<td></td>
<td>Benjamin Nye</td>
<td><a href="mailto:nye@ksu.edu">nye@ksu.edu</a></td>
<td>(316)250-9411</td>
</tr>
<tr>
<td>Concrete Canoe</td>
<td>Mary Madden</td>
<td><a href="mailto:marymadden@ksu.edu">marymadden@ksu.edu</a></td>
<td>(913)901-7727</td>
</tr>
<tr>
<td></td>
<td>Darren Meyer</td>
<td><a href="mailto:djmeyer@ksu.edu">djmeyer@ksu.edu</a></td>
<td></td>
</tr>
</tbody>
</table>
Advisors

• Faculty Advisors

Dr. Asad Esmaeily
asad@ksu.edu
(785) 532-6063

Dr. Robert Stokes (Fall 2015)
drbobb@ksu.edu
(785) 532-6063

• Practitioner Advisors

Dave Karnowski
karnowski@Kansas.net
(785) 458-9756

Peter Clark
clarkp@ci.manhattan.ks.us

Financial Summary

• Dues ($15/year, $10 semester)
• As of December 31, 2015
  • Total Income: $5,600
  • Total Expenditures: $7,405
  • Cash Flow: -$1,805
  • Accounts Receivable: $0
  • Accounts Payable: $0
Goals and Objectives

- Summary Statement: This year, the ASCE student chapter focused on increasing their activity outside of the traditional assemblies and increasing student and faculty participation. Our goals were developed to help increase participation with the community by having students volunteer in various outreach activities. Our goals also encouraged us to step out of traditional meetings by planning field trips in which faculty and students could tour construction sites. The chapter hoped that having a new variety of meetings to attend, along with personalizing the way they receive notice about events, would encourage faculty to participate. Our 2015 faculty goals are as follows:

  - Goal 1: Volunteer at least 10 hours of community service as an organization
  - Goal 2: Increase faculty participation to average 5 attendees per assembly
  - Goal 3: Host at least 2 field trips per semester

Goal 1: Volunteer at Least 10 Hours of Community Service as an organization

- Description: Although in the past we have taken part in special projects that tie the chapter with engineering firms, we want to focus on outreach programs this semester. Our goal is to volunteer 10 hours of community service as an organization. The community service activities will be focused on outreach events.

- Action Plan: The chapter plans to host at least a few events a semester in which younger students can be introduced to civil engineering through various activities. We plan to team up with already established organizations, such as the Boys and Girls Club of America.

- Assessment: We managed to complete 4 hours of community service during 2015, although it was only 40% of our goal. It was a good start. The chapter hosted 1 event a semester. The first was with the Boys and Girls Club of America in which the officers introduced civil engineering to the 4th – 6th graders in attendance. The students were also involved in a structural engineering activity which was to build bridges with popsicles and paper. The second hosted event was with the local Wonder Workshop Center. The event introduced the children in attendance to civil engineering and expanded the activities to explain structural engineering, foundation engineering, environmental engineering and construction materials.

- Follow-up Plans: The chapter plans to host community service activities more often in order to increase the number of hours volunteered.
Boys and Girls Club

Over 10 elementary students attended the outreach event that the ASCE student organization hosted with the assistance of the Boys and Girls Club.

Wonder Workshop

Children from the community participated in the outreach event that ASCE hosted with the help of the Wonder Workshop. The students were able to participate in various engineering related activities.
Goal 2: Increase Faculty Participation to Average 5 Attendees per Assembly.

- Description: Last year, the chapter made the goal to average 5 faculty present at each assembly but only averaged 3.2. This year, we hope to get at least 5 faculty members per assembly. The reason behind this is to provide the students to interact with faculty members outside of traditional classrooms.

- Action Plan: The officers plan to increase attendance of faculty members by personalizing the way they learn about assembly dates. Typically, faculty members will simply get an email reminding them the week an assembly is taking place. The officers will instead go door to door with a paper flyer reminding them of how much their presence is appreciated.

- Assessment: For a few assemblies, the personal invitations were forgotten but for the week that they did happen, there was an increase of faculty attendance. We managed to increase the average number of faculty attendance to increase to 4.5. Yet, we also realized that increasing faculty attendance does not necessarily mean an increase in student/faculty interactions.

- Follow-up Plan: The chapter is looking to create events that will have the students compete with faculty members therefore making forcing interactions between them rather than simply having them attend the same event.

Goal 3: Host at Least 2 Field Trips per Semester.

- Description: The chapter traditionally only invites professional speakers to present about their company and experience. This year, we would like to increase our involvement as a chapter outside of traditional assemblies.

- Action Plan: The officers plan to host at least two construction or completed project tours per semester. The tours will consist of projects in the Manhattan Kansas area in order to make the trips accessible to all the students.

- Assessment: The chapter was able to plan one tour a semester and therefore was only to meet 50% of their goal. The first trip consisted of touring the unfinished construction site of the new engineering building. Many faculty members and students were able to participate due to it being on campus. The second trip was also on campus but a little further away. The trip consisted of touring a finished porous concrete project. The presenter spoke about the importance of porous concrete at that site and how it assisted with run off. Overall, students were glad to see different types of event opportunities. The construction tour was well received.

- Follow-up Plans: As a chapter, we plan to increase events that occur outside of the traditional assemblies.
Phase IV Tour

Over 35 students and faculty attended the tour of the new Kansas State Engineering Building construction site.

Membership Statistics

- 136 members
- 88 ASCE National Society-level members
  - 65% of members are society level members
- 115 members with Junior or senior status
- 167 Juniors and Seniors eligible to join ASCE
  - 69% eligible Juniors and Seniors that are members
Meeting Statistics

- 10 professional meetings with an invited speaker
- 2 meetings with student presentations and/or paper(s) presented
- 1 licensure meetings and/or ethics topics presented
- 2 field trips
- 2 social functions

ASCE Assembly- Roben Iman

- September 3, 2015
- Roben Iman, an engineer in training at Kaw Valley Engineering spoke about the many projects he has assisted with in the three months since graduating.
- 181 students attended.
- The attendance for this assembly was high for two major reasons. The first reason is because it was the first assembly of the semester. Most of the freshman in the department tend to attend the first assembly. The second reason was that Roben Iman was a recent graduate of the college and many students appreciated hearing about his transition to a full time employee.
ASCE Activity- Fall Picnic

- September 25, 2015
- The KSU Civil Engineer faculty and students gather at a local park to relax with food and music.
- 122 students attended as well as about 10 faculty and professional engineers.
- The chapter’s picnics are always well received by students and faculty. This picnic had an increase in attendance due to the integration of team activities. This semester, staff and students were able to participate in games such as egg toss, tug-of-war, and egg-spoon race. The attendees were able to compete in teams and winners won prizes such as gift cards and candy bars.

ASCE Assembly- Alan Czarnowsky

- October 15, 2015
- Mining Engineer, Alan Czarnowski presented about the basic responsibilities of engineers. He also presented on what civil engineers can do in the mining engineering field. He described with tasks that mining engineers take on with tunnel design, construction, surface mining and design and construction of surface mining facilities.
- 230 students were in attendance
- One of the reasons this assembly had a high attendance was that this was the first time the ASCE chapter brought in a mining engineer. The assembly was also well received by the students because the speaker was highly entertaining and motivating when it came to discussing the ethical and technical responsibilities of engineers.
Student Conference

- ASCE Regional Competition
- University of Kansas, Lawrence, KS
- April 23-24, 2015
- Over 35 Students attended the conference
- The ASCE Student Chapter had teams compete in:
  - Concrete Canoe
  - Steel Bridge
  - Geo-Wall
  - Concrete Bowling Ball

Concrete Canoe

- Concrete Canoe did not place at the 2015 regionals competition.
Steel Bridge

• The KSU Steel Bridge team placed 1st Overall at the 2015 regional conference.

Geo-Wall

• This was the 2nd year the KSU Geo-Wall team competed at regionals.
• They placed 3rd Overall
Concrete Bowling Ball

- Concrete Bowling Ball did not place at regionals 2015.

Student National Conference

- ASCE National Steel Bridge Competition
- University of Missouri – Kansas City
- May 22-23, 2015
- 8 Students attended the conference
- The ASCE Student Chapter placed:
  - 6th place in construction
  - 26th place over all
  - 47 teams competed.
Leadership Development

- Workshop for Student Chapter Leaders (WSCL)
  - Houston, Texas
  - January 30th – 31st, 2015
  - 2 students attended

Special Project – Boys and Girls Club

- Description
  - The goal of this project was to introduce young students to civil engineering through videos and introducing basic statics for building a popsicle bridge.
  - This helped the chapter with its goal to volunteer a few hours to community service.

- Engineering component
  - An elementary interpretation of structural engineering was taught to the children. The ASCE students used their knowledge of statics and trusses to explain to the children how to best create a functioning popsicle stick bridge!

- Project impact
  - The short term impact of this project was to introduce a group of children to civil engineering through interactive activities. The long term impacts were to have increase the interest in STEM related careers for the younger community. The chapter has used this event as a foundation between the Boys and Girls club for possible future activities.

- Participation
  - 4 students participated in this event
  - 6 total person-hours were spent on the project
Special Project – Wonder Workshop

- Description
  - The goal of this project was to introduce young students to the many pillars of civil engineering through interactive activities.
  - This helped the chapter with its goal to volunteer hours in community service.

- Engineering component
  - Activities where developed that would help the children understand material design and foundation, structural and environmental engineering. Edible concrete, a miniature geo-wall, popsicle stick bridges and water filters were created and explained to the children.

- Project impact
  - The short term impact of this project was to introduce a group of children to civil engineering through interactive activities. The long term impacts were to have increase the interest in STEM related careers for the younger community. The chapter has used this event as a foundation between the Manhattan Wonder Workshop Center.

- Participation
  - 8 students participated in this event
  - 20 total person-hours were spent on the project

Feel Free to read our review!

Hello Ramin & Mary,

I just have to let you know, that the kids were so excited and engaged with your presentation. Most of them came back for the afternoon session and I overheard them talking about the fun they had with you all.

I so appreciate what you did for our museum and our kids and look forward to working with you into the future.

Thanks so much, I'll be in touch and Happy Holidays to you and the other folks in your organization!

Richard
Summary and Questions

- Overall, the most significant events that were conducted this year was setting a foundation between the chapter and the community. Our organization hopes to build on this foundation to develop permanent ties with the community. The chapter was also able to step outside of the box to develop more interactive meetings that increased both student and faculty participation.

- The major setback with many of these activities was the task of “paving the way.” The officers in charge this year were in charge of planning and hosting events in which prior years had no experience with. Ultimately, the officers in charge were able to pave a way by developing contacts for future officers to fall back on.

- Feel free to contact the 2015 President, Claudia Gonzalez (claudi1@ksu.edu), or any of our Faculty Advisors if there are any questions. Their contact information is listed in the excel spreadsheet and on slides 4 and 5.