American Society of Civil Engineers - Kansas State University

# 2013 Annual Report for ASCE Student Chapters

Calendar Year: January 1 – December 31, 2013


Kansas State University
Department of Civil Engineering
2118 Fiedler Hall
Manhattan KS 66502

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Kansas State Student Chapter Logo

## PART I. STUDENT CHAPTER INFORMATION

| | |
|---|---|
| School Name: | Kansas State University |
| ASCE Student Chapter Mailing Address: | 2118 Fiedler Hall, Manhattan, KS 66506 |
| ASCE Student Chapter Email Address: | asce@engg.ksu.edu |
| ASCE Student Chapter Website: | www.engg.ksu.edu/asce/ |
| Month(s) of Officer Elections: | April, **November** |

(*Please print & sign names)*

Report submitted by:

Adam Emerson
Spring 2013 President of Student Chapter

Jennifer Sommerfeld
Fall 2013 President of Student Chapter

Claudia Gonzalez
Fall 2013 Secretary of Student Chapter

Contents approved by:

Dr. Hani Melhem
Faculty Advisor, Professor

Dr. Kyle Riding
Faculty Advisor, Assistant Professor

Dave Karnowski
Practitioner Advisor

Peter Clark
Practitioner Advisor

*1. ADVISOR INFORMATION*

| | |
|---|---|
| Faculty Advisor Name: | Dr. Hani Melhem |
| Faculty Advisor ASCE Member Number: | 289834 |
| Faculty Advisor E-mail Address: | melhem@ksu.edu |
| Faculty Advisor Phone Number: | (785) 532-1584 |
| Faculty Advisor Fax Number: | (785) 532-7717 |
| Faculty Advisor Name: | Dr. Kyle Riding |
| Faculty Advisor ASCE Member Number: | 950076 |
| Faculty Advisor E-mail Address: | riding@ksu.edu |
| Faculty Advisor Phone Number: | (785) 532-1576 |
| Faculty Advisor Fax Number: | (785) 532-7717 |
| Practitioner Advisor Name: | Dave Karnowski |
| Practitioner Advisor ASCE Member Number: | 151929 |
| Practitioner Advisor Name: | Peter Clark |
| Practitioner Advisor ASCE Member Number: | 443153 |
| Lifetime Advisor Name: | Bob Thorn |

*2. ASCE STUDENT CHAPTER OFFICERS (Spring 2013)*

| | |
|---|---|
| President: | Adam Emerson |
| Vice President: | Carl Peterson |
| Treasurer: | Vince Studer |
| Recording Secretary: | Jennifer Sommerfeld |
| Corresponding Secretary: | Schyler Rohleder |
| Newsletter Editor: | Mark Stewart |
| Historian: | Robert Schweiger |
| Student Council Representative: | Claudia Gonzalez |
| Freshman/Sophomore Representative: | Logan Nichols |
| Fundraising Chair: | Cale Armstrong |
| Activities Chair: | Travis Bailey |
| Special Projects Chair: | Logan Ortiz |
| Webmaster: | Jaime Quilty |
| Steel Bridge Captain: | Chris Rottinghaus, Andrew Wiederholt |
| Concrete Canoe Captain: | Jenny Swabb, Katlyn Dotson |
| | Nathan Pohl |
| Open House Chair: | Alex Johnson, Noura Saadi, Katie Walbridge |

*2. ASCE STUDENT CHAPTER OFFICERS (Fall 2013)*

| | |
|---|---|
| President: | Jennifer Sommerfeld |
| Vice President: | Vince Studer |
| Treasurer: | Carl Peterson |
| Secretary: | Cale Armstrong |
| Editor: | Katlin Walbridge |
| Freshman/Sophomore Representative: | David Laurence |
| Activities/Projects Chair: | Noura Saadi |
| Graduate Student Representative: | Logan Ortiz |
| Open House Chair: | Benjamin Nye, Nicholas Clow |
| Steel Bridge Captain: | Robert Schweiger, Cale Armstrong |
| Concrete Canoe Captain: | Katlyn Dotson, Nathan Pohl |

*3. FINANCES*

Chapter Membership dues: $ 15 per Year / Semester / Quarter / Trimester

Chapter Membership dues: $ 10 per Year / Semester / Quarter / Trimester

Society-level Membership dues: $ 0 per Calendar year

*Please refer to Appendix F for a Summary Financial Statement*

Summary for 2013:

| | |
|---|---|
| Total Income (2013) | $ 6779.04 |
| Total Expenditures (2013) | $ 5504.53 |

Financial Position as of December 31, 2103

| | |
|---|---|
| Cash Balance (2013) | $ 4746.06 |
| Accounts Receivable (2013) | $ 10250.59 |
| Accounts Payable (2013) | $ 5504.53 |

*4. IMPORTANT CONTACTS*

| Contact Name | Phone/E-mail | Mailing Address | Comments |
|---|---|---|---|
| Dr. Hani Melhem | (785) 532-1584<br>melhem@ksu.edu | 2127 Fiedler Hall<br>Manhattan, KS 66506 | Faculty Advisor |
| Dr. Kyle Riding | (785) 532-1578<br>riding@ksu.edu | 2136 Fiedler Hall<br>Manhattan, KS 66506 | Faculty Advisor |
| Dr. Mustaque Hossain | (785) 532-1576<br>mustak@ksu.edu | 2124 Fiedler Hall<br>Manhattan, KS 66506 | Faculty |
| Robert Thorn | (785) 235-2393<br>bthorns@cox.net | 603 Topeka Ave.<br>Topeka, KS 66603 | Lifetime Honorary Chapter Member |
| Dave Karnowski | (785) 456-9509<br>karnowski@kansas.net | 1010 W. 6th<br>Wamego, KS 66547 | Practitioner Advisor |
| Peter Clark | (785) 587-2415<br>clarkp@ci.manhattan.ks.us | 1101 Poyntz Avenue<br>Manhattan, KS 66502 | Practitioner Advisor |
| Danita Deters | (785) 532-1570<br>danita@ksu.edu | 2118 Fiedler Hall,<br>Manhattan, KS 66506 | Administrative Officer |
| Sue Wells | (785) 532-1575<br>vswells@ksu.edu | 2118 Fiedler Hall,<br>Manhattan, KS 66506 | Senior Administrative Assistant |

## PART II. ASCE STUDENT CHAPTER GOALS AND OBJECTIVES

**Summary Statement:**

For the 2013 year, the Kansas State University chapter of the American Society of Civil Engineers has set out to accomplish a number of goals. As a group, we aim to improve the percentage of students who become members of both the KSU Student Chapter as well as at the ASCE Societal Level. KSU ASCE has also set out to encourage more involvement from underclassmen and bolster camaraderie between under and upperclassmen. In addition to these goals, our chapter wants to increase our relationships with the Kansas Section, Wichita Branch, Alumni, and with members of fellow student chapters and organizations.

**Goals and Assessment:**

Goal #1:

Improve the percentage of students who become members of both the KSU and Societal ASCE Chapters.

Objectives:

Achieve an overall percentage of KSU and Societal Level membership of 80%.
Require all officers to become Societal Level members.
Provide access to the ASCE National website at chapter meetings to encourage registration.

Assessment of Goal #1:

We attained a percentage of Societal Level membership members to KSU student members of 71% less than out goal of 80%. All officers became Societal Level Members. In order to provide access to the ASCE National Website we brought laptops to assemblies allowing students access to the national website before and after assembly. We also walked students through the process at the beginning of each semester using the projector at the beginning of assemblies.

Follow-up Plan for Goal #1:

In order to continue increasing the Societal Level Memberships at the first assembly each semester we will explain the benefits of a Societal Level Member and walk students through the process of attaining a Societal Level Membership.

Goal #2:

Substantially improve underclassmen participation in chapter events.

Objectives:

Use the spring semester to design a freshman mentorship program and implement in the Fall semester. Encourage at least 10 upperclassmen to be mentors for the incoming freshman class.
Allow non-officer members to audit officer meetings two weeks prior to officer elections to become more comfortable with the notion of leadership.
Hold officer elections mid-semester to allow the elected to shadow current officers for at least two officer meetings prior to the officer position turnover.
Hold freshman/sophomore meetings and activities, at least one each semester, Fall and Spring.

Assessment of Goal #2:

In regards to the first objective; creating a mentorship program, it was not developed in the Spring semester to implement in the fall semester. We did not have any upperclassmen volunteer to be mentors for the Fall 2013 semester.
The opportunity for students to audit officer meetings was available; zero students took advantage of the opportunity.
Due to a change in major a new freshman/sophomore representative was elected in the beginning of the Fall 2013 semester. We encourage officers to begin brainstorming events during the summer since the new officer had little time to plan, we combined our annual Freshman/New Student Mixer with the Fall Picnic. At the picnic the department hosted an opportunity for freshman and transfer students to win a textbook of their choice for the next semester for collecting the most business cards. We provided transportation to students who might not have access to transportation, but this did not increase the number of new students who attended the picnic.

Follow-up Plan for Goal #2:

With the election of a new Freshman/Sophomore Representative and a larger budget, an underclassman activity is going to be planned and implemented for the Spring 2014 semester.

After experimentation with the New Student Event in the fall being combined with the picnic, in the future these two events should continue to function as two separate events. Hosting the New Student Event before the first assembly gives new students an opportunity to meet each other and the ASCE Officers. The Freshman/Sophomore Representative elected for the Fall semester will be able to use time during the summer to plan for this event.

Goal #3:

Increase ASCE Student Chapter participation with Professional Societies around Kansas.

Objectives:

Send representatives to at least one Civil Engineering Professional Society meeting or activity each semester.

Assessment of Goal #2:

Spring semester 2013 ASCE sent 55 students to various professional activities. Fall semester 2013 KSPE sponsored the annual ASCE student picnic.

Follow-up Plan for Goal #2:

Continue reaching out to Professional Societies to encourage participation. Contact both KSPE and the Kansas Chapter of ASCE to determine multiple dates that are available for the KSU ASCE Student Chapter to help participate with. After this list has been compiled select three for each semester that a majority of officers are interested in. After officers have expressed interest open the activity to the entire student chapter. Encourage all students to attend the events during assembly to express the benefits of networking.

## PART III. STUDENT CHAPTER MEMBERSHIP AND MEETINGS

*1. MEMBERSHIP*

Is attendance at ASCE Student Chapter meetings mandatory (select one): Yes*/No

*Each student is required by the Civil Engineering Department of Kansas State University to attend 5 functions, the majority of which are related to or put on by the ASCE Chapter. These events are in conjunction with a zero credit class required for civil engineering students to graduate from the program. After meeting the minimum required credits, the student's attendance is voluntary.

National ASCE Membership is (select one): Voluntary/Compulsory*

*National ASCE membership is required for one credit in our zero credit hour class. The students are not obligated to buy a membership if they do not need this option to fulfill credit.

Total number of Juniors and Seniors eligible to join ASCE:
(Number of Jr. and Sr. students with CE declared major; average over the year) 141

Total number of Juniors and Seniors in the ASCE Student Chapter:
(Average of the year) 53.5

Number of members of your ASCE Student Chapter:
(Average over the year) 102

Number of ASCE Student Members who are National ASCE Members: 72.5

Statistical Information:

Total Jr. & Sr. ASCE Student Members / Total Jr. and Sr. students eligible 37.94%

Total National ASCE Members / Total Student Members 71.08%

Note: Memberships provided in lists in Attachment A. No eID or SSN provided.

*2. ASCE STUDENT CHAPTER EVENTS*

| Activity Date | Activity Type | Program | Attendance | | | | |
|---|---|---|---|---|---|---|---|
| | | | Students | Faculty | Faculty Advisor | Practitioner Advisor | Other |
| 1/11-12/13 | FT | Workshop for Student Chapter Leaders | 4 | 0 | 0 | 0 | 200+ |
| 1/21/13 | OP | Officer Meeting – 2013 Objectives, Event Scheduling, Involvement | 13 | 1 | 1 | 0 | 0 |
| 1/24/13 | PM | Bob Ringer – South Central Corrugated Steel Pipe Association | 174 | 1 | 1 | 1 | 10 |
| 1/31/13 | OP | Officer Meeting | 19 | 2 | 2 | 0 | 0 |
| 2/7/13 | PM | American Public Works Association – The Pros and Cons of Public vs. Private Employment | 181 | 3 | 2 | 2 | 4 |
| 2/14/13 | OP | Officer Meeting | 11 | 1 | 1 | 0 | 0 |
| 2/21/13 | PM | Kiewit | Snowed Out | | | | |
| 2/28/13 | OP | Officer Meeting | 14 | 2 | 2 | 0 | 0 |
| 3/28/13 | PP | Senior Presentations – Task 1 | 185 | 2 | 2 | 2 | 0 |
| 4/4/13 | PM | Tom Paulson - ConocoPhillips | 158 | 5 | 2 | 2 | 1 |
| 4/8/13 | OP | Officer Meeting | 12 | 0 | 0 | 0 | 0 |
| 4/9/13 | SF | KSU-KU Joint Dinner | 13 | 2 | 2 | 0 | 60+ |
| 4/11/13 | PM | Todd Wimmer - Union Pacific Officer Elections | 126 | 3 | 2 | 2 | 5 |
| 4/18/13 | OP | Officer Meeting | 7 | 1 | 1 | 0 | 0 |
| 4/19-20/13 | PP, SF | KSU Open House | 65 | 10 | 2 | 2 | 100+ |
| 4/25/13 | SF | KSU ASCE Spring Picnic | 71 | 10 | 2 | 2 | 15+ |
| 5/2/13 | PP | Senior Presentations – Task 2 | 77 | 4 | 1 | 2 | 0 |
| 5/9/13 | OP | Officer Meeting | 11 | 1 | 1 | 0 | 0 |
| 8/29/2013 | OP | Officer Meeting | 9 | 2 | 2 | 0 | 0 |
| 9/5/13 | PM | Civil Engineering Organizations Presentations | 231 | 7 | 2 | 2 | 0 |
| 9/12/2013 | SF | KSU ASCE Fall Picnic | 95 | 14 | 2 | 2 | 25+ |
| 9/19/2013 | PM | Trent Dunaway and Jessica Hennes – Sega | 175 | 3 | 1 | 1 | 0 |
| 9/26/2013 | OP | Officer Meeting | 10 | 2 | 1 | 0 | 0 |
| 10/3/2013 | PM | Peter Clark- Traffic Engineer City of Manhattan | 212 | 5 | 2 | 2 | 5 |
| 10/10/013 | OP | Officer Meeting | 9 | 1 | 1 | 0 | 0 |
| 10/17/2013 | PM | Brian Clow – Carollo Engineers | 199 | 3 | 2 | 2 | 0 |
| 10/30/013 | OP | Officer Meeting | 9 | 2 | 1 | 0 | 0 |
| 11/7/2013 | PM | Josh Sommerfeld – BNSF Structures | 186 | 4 | 2 | 2 | 1 |
| 11/19/2013 | OP | Officer Meeting | 8 | 1 | 1 | 0 | 0 |
| 11/21/2013 | PP | Officer Elections<br>Senior Presenations | 119 | 5 | 2 | 2 | 0 |
| 12/5/2013 | PM | Civil Engineering Awards Banquet | 50 | 15 | 2 | 2 | 60 |
| 12/12/2013 | OP | Officer Meeting | 11 | 1 | 1 | 0 | 0 |

| Meeting Abbreviations | Statistical Information | |
|---|---|---|
| PM | Number of Professional Meetings: | 10 |
| PP | Number of Student Paper Presentations: | 4 |
| PC | Number of Professional Conduct programs: | 0 |
| FT | Number of ASCE sponsored Field Trips: | 1 |
| SF | Number of ASCE sponsored Social Functions: | 3 |
| OP | Number of Officer Meetings: | 13 |

Statistical Information

| | |
|---|---|
| Average attendance at 10 most populated ASCE Student Chapter meetings: (if fewer than 10 meetings were held, average all meetings) | 182.7 |
| (Average attendance) / (Total student ASCE members) | 243.6% |

*3. ASCE SECTION/BRANCH AND OTHER PROFESSIONAL MEETINGS*

| Date | Location | Hosting Group | Student Chapter Attendees | Student Names | Professional Chapter Attendees |
|---|---|---|---|---|---|
| 1/21/13 | Manhattan, KS | KSPE[3] YMG[2] | 1 | Logan Ortiz | 8 |
| 2/23/13 | Topeka, KS | ASCE[1] YMG | 1 | Carl Peterson | 7 |
| 3/14/13 | Abilene, KS | KS[6] ASCE, SVC[5] KSPE | 2 | Andrew Brunner, Adam Emerson | ~30 |
| 4/9/13 | Lawrence, KS | KU[7] ASCE, KS ASCE | 8 | Andrew Bernica, Antoine Borden, Adam Emerson, Phil McKinney, Carl Peterson, Don Powers, Robert Schweiger, Zach Watkins | ~40 |
| 4/30/13 | Manhattan, KS | TV[8] KSPE, Topeka KSPE, SVC KSPE | 51 | | ~50 |

[1]ASCE – Denotes American Society of Civil Engineers
[2]YMG- Denotes Younger Members Group
[3]KSPE- Denotes Kansas Society of Professional Engineers
[4]Wich- Denotes Wichita Branch
[5]SVC- Denotes Smokey Valley Chapter
[6]KS- Denotes Kansas Section
[7]KU - Denotes University of Kansas
[8]TV – Denotes Tri-Valley

## PART IV. STUDENT CHAPTER ACTIVITIES

### *1. PARTICIPATION IN STUDENT CONFERENCE AND WSCL*

Did the ASCE Student Chapter attend a Student Conference during the year? **Yes**/No
Number of Representatives: 37
Name of Conference: Mid-Continent Regional Conference
Location: Edwardsville, Illinois
Dates: April 4-6, 2013

Did the ASCE Student Chapter host or co-host this Student Conference? Yes/**No**
If yes, please see attached "Special Project Report" as described in Attachment E

Did the ASCE Student Chapter attend a Workshop for Student Chapter Leaders during this year? **Yes**/No
Number of Student Representatives: 4
Number of Advisor Representatives: 0
Location: Milwaukee, Wisconsin
Date: January 11-12, 2013

### *2. ASCE STUDENT CHAPTER NEWSLETTER AND ON-LINE PRESENCE*

Does the ASCE Student Chapter prepare its own newsletter? **Yes**/No
Number of issues during Annual Report year: 12
Are copies regularly distributed to the following?
Alumni: Yes/**No**
Practitioner Advisors: **Yes**/No
Section/Branch President: **Yes**/No
Regional Governor: Yes/**No**
ASCE Headquarters: Yes/**No**

Does the ASCE Student Chapter maintain an up to date on-line presence? **Yes**/No

### *3. PRESENTATIONS OUTSIDE OF THE ASCE STUDENT CHAPTER*

Did any student members of your chapter make presentations outside of the Chapter? **Yes**/No
Number of Presentations made: 3

| Date | Student Presenter | Presentation Title | Event Sponsor | Location |
|---|---|---|---|---|
| 2/1/13 | Logan Ortiz | Preliminary Shade Structure Design Presentation | ASCE[1] KSU[2], ASID[3] KSU[2] & Sunset Zoological Park | Sunset Zoo, Manhattan, KS |
| 4/19/13 | Adam Emerson, Vince Studer | CE Advisory Council – American Society of Civil Engineers Update | Civil Engineering Advisory Council | Fiedler Hall, Manhattan, KS |
| 9/13/13 | Jennifer Sommerfeld, Vince Studer | CE Advisory Council- American Society of Civil Engineers Update | Civil Engineering Advisory Council | Fiedler Hall, Manhattan, KS |

[1]ASCE- Denotes American Society of Civil Engineers
[2]KSU – Denotes Kansas State University
[3]ASID- Denotes American Society of Interior Designers

*4. PARTICIPATION IN ASCE STUDENT MEAD PAPER COMPETITION*

Did a member of the ASCE Student Chapter submit a paper to the National Daniel W. Mead Student Paper Contest during the year of this report? Yes/No

Number of Entries: 1

Name of Author: Carl Peterson

*5. PARTICIPATION IN ASCE SOCIETY LEVEL EVENT*

Was the ASCE Student Chapter represented at any ASCE Society Level Event? Yes/No

Event Name: Name

Location: Location

Date: Date

Number of Student Representatives: #

Number of Advisor Representatives:

*6. COLLABORAION WITH OTHER STUDENT ORGANIZATIONS*

Has the ASCE Student Chapter collaborated with other student organizations in the last 12 months?

On Campus: 2

Off Campus: 1

| Date | Organizations | Program | Attendance | | | |
|---|---|---|---|---|---|---|
| | | | KSU Chapter Students | Other Students | Advisors | Other |
| 2/1-#/13 | KSU[1] ASCE[3], KSU ASID[4] | Design and Construction of Shade Structure for Sunset Zoological Park | ~5 | ~10 | 2 | ~5 |
| 4/9/13 | KU[2] ASCE | KSU-KU Joint Dinner | 8 | ~30 | 3 | ~10 |
| 4/30/13 | KSU ASCE KSU AEI[5], KSU AGC[6] | "Grillin & Chillin" KSU Stadium Tailgate and Tour of K-State Stadium Expansion | 51 | ~75 | 1 | ~50 |
| 12/14/13 | KU[2] ASCE Benedictine ASCE | Joint Dinner | 25 | 20 | 5 | 13 |

[1]KSU- Denotes Kansas State University
[2]KU- Denotes the University of Kansas
[3]ASCE- Denotes American Society of Civil Engineers
[4]ASID- Denotes American Society of Interior Designers
[5]AEI- Denotes Architectural Engineering Institute
[6]AGC- Denotes Associated General Contractors of America

*7. PRACTITIONER & FACULTY ADVISOR TRAINING WORKSHOP*

Did a Faculty Advisor attend the Practitioner & Faculty Advisor Training Workshop? Yes/No

Name: Name

Date: Date

Did one or more Practitioner Advisor attend the Practitioner & Faculty Advisor Training Workshop? Yes/No

Name: Name

Date: Date

## PART V. ATTACHMENTS

### *1. ATTACHMENT: MEMBERSHIP LIST*

| Spring 2013 | | | | | |
|---|---|---|---|---|---|
| Name | Year | ASCE Number | Name | Year | ASCE Number |
| Abdulrahman Alhouli | Senior | 9127367 | Stephanie Magee | Senior | 1011131 |
| Nasser Alkazimi | Junior | | Maha Marafi | Sophomore | |
| Sarah Alkharji | Senior | | Jade Marsh | Freshman | |
| Mohammed Almohammedali | Junior | 10207721 | Riley Martinson | Junior | 9126554 |
| Salim Alrasam | Senior | 9094449 | Mark Mathis II | Freshman | |
| Alrowaihn Fajer | Senior | | LaKeisha McCoy | Senior | 100982 |
| Andrew Archer | Senior | | Phil McKinney | Senior | 934669 |
| Cale Armstrong | Junior | 9115559 | Riley McMullin | Junior | 9128872 |
| Eric Armstrong | Freshman | 9595979 | Keithen Meyer | Junior | 1007962 |
| Brent Baca | Junior | 9548438 | Darren Meyer | Freshman | 9547563 |
| Travis Bailey | Senior | 9113476 | Danny Minks | Freshman | 9373028 |
| Robert Behm | Junior | 9388800 | Kevin Moluf | Freshman | |
| Carmen Borau | Junior | 9599773 | Austin Muckenthaler | Junior | 9584851 |
| Antonie Borden | Senior | | Sarah Mountcastle | Junior | 9595298 |
| Elizabeth Bowen | Freshman | 9597242 | Katherine Nguyen | Freshman | 9596742 |
| Andrew Brunner | Senior | 9126905 | Benjamin Nye | Freshman | 9365536 |
| Greg Canales | Junior | 9123901 | Matt Oesterreich | Senior | 9125155 |
| Caleb Childs | Junior | 9128220 | Logan Ortiz | Senior | 1022646 |
| Chris Christensen | Sophomore | 9417479 | Salvador Oseguera | Sophomore | |
| Joseph Cillessen | Junior | 9127651 | John Palma | Sophomore | 1022154 |
| Larame Cline | Senior | 9126585 | Xuchu Pang | Senior | |
| Nicholas Clow | Junior | 1016440 | Jacob Paperi | Sophomore | 9118904 |
| Austin Conrady | Senior | 9120196 | Jeffrey Paschal | Freshman | 9586703 |
| Aaron Cossel | Senior | 9117264 | Ethan Peck | Junior | 9303472 |
| Nick Crissey | Freshman | | Carl Peterson | Junior | 1019850 |
| Andrew Crowder | Sophomore | | Nathan Pohl | Senior | 9128966 |
| Joshua Dlabal | Junior | | Yadira Porras | Freshman | 9510146 |
| Ryan Drilling | Senior | 973891 | Don Powers | Junior | 9118919 |
| Claire Drilling | Sophomore | 9459896 | Perla Ramos | Senior | 9116308 |
| Adam Emerson | Senior | 1016826 | Schyler Rohleder | Junior | |
| Sarah Fairclough | Junior | 9124886 | Chris Rottinghaus | Senior | 1006713 |
| Drew Fitzgerald | Freshman | | Johnson Rowland | Junior | 1017527 |
| Eric Fletcher | Junior | 9140145 | Koby Salven | Freshman | |
| Travis Forman | Senior | | Brenden Schmitz | Sophomore | |
| Claudia Gonzalez | Sophomore | 9511287 | Jacob Schmitz | Senior | |

| Spring 2013 | | | | | |
|---|---|---|---|---|---|
| Name | Year | ASCE Number | Name | Year | ASCE Number |
| Rodolfo Gonzalez | Sophomore | | Curtis Schmitz | Senior | |
| Ashely Greene | Senior | 9115189 | Curtis Schultz | Senior | 9506771 |
| Becca Greif | Senior | 965182 | Robert Schweiger | Senior | |
| Travis Gunter | Junior | 9410643 | Jennifer Sommerfeld | Junior | 1007526 |
| John Handke | Graduate Student | | Chelsey Spiker | Junior | 9123495 |
| Kent Harrison | Junior | 9137145 | Michael Stancic | Sophomore | 9597900 |
| Jase Hartenbower | Senior | 9096436 | Robert Steffens | Senior | |
| Jeremy Harter | Senior | 1018630 | Vincent Studer | Junior | |
| Brady Hoffman | Sophomore | 9125682 | Jenny Swabb | Senior | 10074858 |
| Rob Iman | Junior | 9372094 | Cole Turner | Junior | |
| Joel Iserman | Senior | 9125682 | Sergio Valenzuela | Freshman | 9389220 |
| Devin Jackson | Senior | 1011678 | Jorge Villalta | Freshman | |
| Austin Jueneman | Freshman | 9599749 | Katie Walbridge | Junior | 1016111 |
| Caleb Jury | Junior | 1016016 | Zachary Watkins | Junior | |
| Jason Kane | Freshman | 9585771 | Alisa Watkins | Freshman | |
| Trevor Kaufam | Senior | 1005603 | Andrew Wehner | Freshman | |
| Corey Kingsland | Senior | 9127782 | Kyle Weldon | Sophomore | 9462389 |
| Weston Koehn | Junior | | Barret Wellemeyer | Junior | |
| Josh Lamphier | Senior | 9595320 | Adam Wilkerson | Junior | |
| David Laurence | Freshman | | Xing Dong Wu | Senior | 9193814 |
| Weston Loehr | Junior | | Kurt Yoder | Senior | 1008646 |
| Jared Loomis | Senior | 1005708 | Jinkun Yuan | Junior | |
| Boaz Love | Freshman | 942889 | Hui Zhi | Senior | |

| Fall 2013 | | | | | |
|---|---|---|---|---|---|
| Name | Year | ASCE Number | Name | Year | ASCE Number |
| Abdulrahman Alhouli | Senior | | Jason Kane | Sophomore | |
| Nasser Alkazimi | Senior | | Weston Keohn | Senior | 9428482 |
| Sarah Alkharji | Senior | | Corey Kingsland | Senior | 9127782 |
| Samantha Allen | Junior | 9771990 | Josh Kohl | Sophomore | 9782738 |
| Mohammed Almohammedali | Senior | 1020721 | David Laurence | Sophomore | |
| Abdulrahman Alsumaiei | Sophomore | | Weston Loehr | Senior | 9428259 |
| Cale Armstrong | Senior | 9115559 | Boaz Love | Sophomore | 942889 |
| Eric Armstrong | Sophomore | 9595979 | Casey Mahoney | Senior | |
| Victor Arrellaga | Sophomore | 9797054 | Riley Martinson | Senior | 9126554 |
| Brent Baca | Senior | | Mark Mathis | Sophomore | 9460024 |
| Travis Bailey | Senior | 9113476 | Keithen Meyer | Senior | 10007962 |
| Robert Behm | Senior | 9388800 | Colton Miller | Senior | 9787535 |
| Joe Burgett | Senior | 9577141 | Kevin Moluf | Junior | 9377067 |

| Fall 2013 Continued | | | | | |
|---|---|---|---|---|---|
| Name | Year | ASCE Number | Name | Year | ASCE Number |
| Caleb Childs | Senior | | Sarah Mountcastle | Senior | 9595298 |
| Chris Christensen | Senior | 9417479 | Connor Munk | Freshman | |
| Larame Cline | Senior | 9126585 | Ben Nye | Sophomore | 9385593 |
| Nicholas Clow | Senior | 1016440 | Jack Olsson | Freshman | 9728891 |
| Aaron Cossel | Senior | 9117264 | Logan Ortiz | Graduate Student | |
| Kolby Daily | Sophomore | | John Palma | Junior | 1102232 |
| Jackson Edds | Freshman | 9747283 | Ethan Peck | Senior | 9303472 |
| Jacquelyn Ewald | Junior | 9543840 | Luke Peter | Senior | 953605 |
| Sarah Fairclough | Senior | 9124886 | Don Powers | Senior | 9118363 |
| Abe Fangman | Sophomore | | Robert Reilly | Senior | 9118363 |
| Travis Forman | Senior | 9285343 | Chris Rottinghouse | Senior | 1006713 |
| Dalton Funk | Sophomore | 9674411 | John Rowland | Senior | 1017527 |
| Chris Gabel | Senior | 9752803 | Noura Saadi | Senior | 9233602 |
| Ben Gasper | Senior | 1015191 | Robert Schwieger | Senior | |
| Claudia Gonzalez | Junior | 9511287 | Derek Shaw | Sophomore | |
| Ashley Greene | Senior | 9115189 | Collin Shipwright | Sophomore | 9777163 |
| Becca Greif | Senior | 965182 | Chris Shultz | Senior | 9506771 |
| Alex Griffiths | Senior | 1015195 | Jennifer Sommerfeld | Senior | 1007526 |
| Travis Gunter | Senior | 9410643 | Taylor Smith | Senior | 1020234 |
| Sam Haines | Sophomore | | Andrew Spencer | Senior | 1020717 |
| Bryan Harkrader | Senior | | Ryan Stalliotte | Junior | 9760742 |
| Kent Harrison | Senior | 9137145 | Michael Stancic | Senior | 9597900 |
| Jase Hartenbower | Senior | 9096436 | Dylan Swoyer | Senior | 9703151 |
| Jermey Harter | Senior | 9115189 | Ed Tarpey | Sophomore | |
| Weston Heidzig | Sophomore | 9690632 | Matt Tye | Senior | 9372544 |
| Brady Hoffman | Junior | 9124896 | Katie Walbridge | Senior | 1016111 |
| Joel Isermann | Senior | 9124896 | Seth Weber | Junior | 9417563 |
| Austin Jueneman | Senior | 9125682 | Andrew Wehner | Sophomore | |
| Caleb Jury | Senior | 1016061 | Xing Dong Wu | Graduate Student | |
| Jakob Kabler | Senior | 9094545 | Ryan Yenni | Senior | |
| | | | Jared Yost | Sophomore | 9411006 |
| | | | Katie Young | Senior | 9756939 |

## *2. ATTACHMENT: SAMPLE ASSEMBLY ANNOUNCEMENTS, PROGRAMS, & AGENDAS*

### *2.1. SAMPLE ASSEMBLY AGENDA*

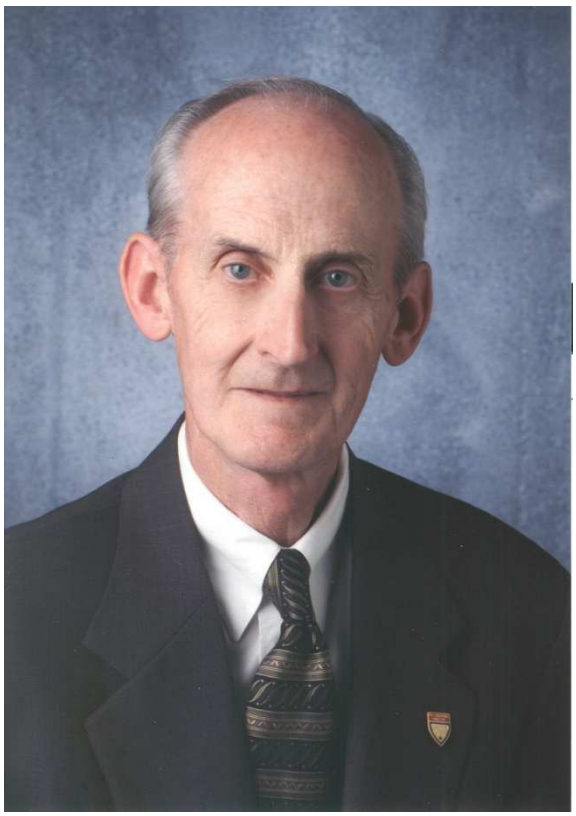
Assembly Agenda
April 11, 2013

I. Introduction - Adam Emerson
II. Officer Reports
    a. President
    b. Vice President
    c. Treasurer
    d. Recording Secretary
    e. Corresponding Secretary
    f. Newsletter Editor
    g. Historian
    h. Activities Chair
    i. Freshman/Sophomore Representative
    j. Student Council Representative
    k. Fundraising Chair
    l. Special Projects Chair
    m. Webmaster
    n. Open House Chairs
    o. Steel Bridge Chairs
    p. Concrete Canoe Chairs
III. Student Announcement - Architectural Engineering Student running for student class President.
IV. Introduction of Speaker - Carl Peterson
V. Speaker – Todd Wimmer, Union Pacific
VI. Officer Elections
    a. All officers for Fall 2013 semester will be elected
VII. Adjournment - Adam Emerson

*2.2. JOINT DINNER PROGRAM*

# ROBERT B. THORN

# LECTURE SERIES



**November 14, 2013**

**6:30 P.M.**

# Robert B. Thorn

## Lifetime Honorary Chapter Member

Robert Thorn graduated from K-State in 1950 and has served as an ASCE chapter contact member for 51 years. He received the KSU Distinguished Service Award in the field of engineering in 1997 and became a member of the Engineering Hall of Fame in 1998. He was a charter member of the Civil Engineering Advisory Council and served two three-year terms. Mr. Thorn is a fellow and life member of ASCE and has been selected to that society's highest honor, Honorary Member, the 522nd person to be inducted in the 150+ years of the organization. In 1997, the K-State Student Chapter appointed him to the position of Honorary Lifetime Contact Member in recognition of his many years of service. Outside of being involved with K-State Civil Engineering, Bob has held many ASCE offices including Vice President for Zone III, District 16 Director, and has served on many national ASCE committees. In addition, he has worked as a bridge engineer at Finney & Turnipseed in Topeka, Kansas.

# Zach Weiss

## Burns & McDonnell

A native of St. Louis, Missouri, Zach Weiss graduated with his Bachelor of Science in Civil Engineering from the University of Dayton in 2010. In 2011, he completed his Master of Science in Structural Engineering from UD, with an emphasis in concrete composite construction. He now works at Burns & McDonnell's world headquarters in Kansas City, Missouri, as a Structural Engineer in their Transmission & Distribution Department. During his time at Burns & McDonnell, he has worked as a consulting engineer on a variety of large transmission lines, with line voltages ranging from 69-kV to 765-kV.

# Meagan Berlau

## Burns & McDonnell

Meagan Berlau is a 2008 graduate of the University of Arkansas with a Bachelor of Science Degree in Civil Engineering. Meagan is a licensed Professional Engineer in the state of Missouri. She has worked in the Transmission & Distribution group of Burns and McDonnell as a Transmission Engineer since 2008. During her time at Burns & McDonnell, she has worked field assignments in San Diego, CA in support of transmission line construction and in Medellin, Colombia with a partnering engineering firm. In 2012, Meagan was named one of the University Of Arkansas College Of Engineering Outstanding Young Alumni. Meagan has also served on the board of the University of Arkansas Civil Engineering Alumni Society and has partnered with two fellow alumni to contribute to the Honorarium for Dedicated Leadership and Outstanding Character Scholarship.

# Sarah Cisper

## Burns & McDonnell

Sarah Cisper is a 2006 graduate of the Colorado School of Mines with a Bachelor of Engineering in Civil Engineering. Sarah is a licensed Professional Engineer in the state of Kansas. She has worked in the Transmission & Distribution Division of Burns & McDonnell since 2005 as an Overhead Transmission Engineer. During her time at Burns & McDonnell she has worked from Kansas City, North Carolina and Connecticut on various projects including the first billion dollar transmission program in the country in the Northeast, acting lead engineer for a six year transmission reliability program, and critical river crossing spans in the Midwest. She is currently the Assistant Department Manager, responsible for hiring, mentoring and training new engineers.

# Lecture Series History

The Robert B. Thorn Lecture Series was created by the Kansas State University ASCE Chapter in 1999. The series was established to pay tribute to outstanding individuals in the field of Civil Engineering based on the following criteria

1. The speaker must be a licensed and practicing Civil Engineer and must show a unique devotion to the field.
2. The speaker must be actively involved in community organizations (such as ASCE) or other voluntary groups directly related to Civil Engineering.

# Past Robert B. Thorn Lecture Series Speakers

| | |
|---|---|
| 1999 | Robert B. Thorn |
| 2000 | Charles D. May |
| 2001 | Greg Weatherd |
| 2004 | Kyle Larso |
| | Matt Williamson |
| | Eric Nichol |
| | Cameron McGown |
| 2006 | Stein Sture |
| 2007 | W.F.(Bill) Marcuson III |
| 2008 | Deb Miller |
| 2009 | Blaine Leonard |
| 2010 | Arturo Hortua, Andrew Lack |
| 2011 | Michael Johnston |
| | David Jacobson |
| 2012 | Joseph Thomas |

ASCE
AMERICAN SOCIETY OF CIVIL ENGINEERS

# K-State/KU ASCE Joint Dinner

## November 14, 2013

**6:30 – Social**

**7:00 – Dinner**

Co-Sponsored by the ASCE Kansas Section and Kansas State University Department of Civil Engineering

**7:00 – Welcome & Recognition of Attendees**

Mitchell Peterson, University of Kansas ASCE President
Jennifer Sommerfeld, Kansas State ASCE President

**7:45 – ASCE Kansas Section, Alex Darby**

Introduction of Officers
Recognition of Honorary and Lifetime Members
Outstanding Senior Awards Presentation
- University of Kansas
- Kansas State University

Other Business

**8:00 – Introduction of the Speaker**

Vincent Studer, Kansas State ASCE Vice-President

**Bob Thorn Lecture Series Speaker**

Meagan Berlau, PE
Zach Weiss
Sarah Cisper, PE

## 3. ATTACHMENT: SAMPLE NEWSLETTER & ON-LINE PRESENCE

### 3.1. Sample Newsletter

KASCE KSU

AMERICAN SOCIETY OF CIVIL ENGINEERS

November 21, 2013

**In This Issue:**


1 Tonight's agenda
Sudoku
Important Information
2 Speaker Profile
ASCE Structure Profile
Schedule
Sudoku Answers


| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 6 | | 3 | | | | 2 |
| | | | 9 | | | | | |
| | | | 2 | 1 | 8 | | | 5 |
| 9 | | 4 | | 7 | | | 5 | |
| | 1 | 5 | | | | 3 | 4 | |
| | 7 | | | 5 | | 9 | | 1 |
| 5 | | | 6 | 2 | 7 | | | |
| | | | | | 3 | | | |
| 3 | | | | 8 | | 6 | | |

(Puzzle from Sudoku Collection: www.sudokucollection.com)

## Important Information

**FE Review** manuals are available for purchase with a discount promo code. Contact Carl Peterson if you are interested in purchasing the manual.

**Students must become national members to receive credit** for ASCE Student Membership. Registration is free and can be done online at http://www.asce.org/
Click "login" at the top of the page, then click "click here to create one" and follow the instructions to become a national member.

Civil Engineering

**Introductions:**

| | |
|---|---|
| Practitioner Advisors: | Dave Karnowski |
| | Peter Clark |
| Honorary Lifetime Contact Member: | Bob Thorn |
| Faculty Advisors: | Dr. Melhem |
| | Dr. Riding |

**Officer Reports:**

| | |
|---|---|
| President: | Jennifer Sommerfeld *jsommer@ksu.edu* |
| Vice President: | Vincent Studer *studerv@ksu.edu* |
| Treasurer: | Carl Peterson *cjpeters@ksu.edu* |
| Secretary: | Claudia Gonzalez *claudi1@ksu.edu* |
| Editor/Historian: | Katie Walbridge *katiewal@ksu.edu* |
| Freshman/Sophomore Rep: | David Laurence *davlaur@ksu.edu* |
| Activities/Projects Chair: | Noura Saadi *nsaadi@ksu.edu* |
| Steel Bridge Chairs: | Robert Schweiger *rschwei2@ksu.edu* |
| | Cale Armstrong *cagolf91@ksu.edu* |
| Concrete Canoe Chairs: | Katlyn Dotson *kattydid@ksu.edu* |
| | Nathan Pohl *pohl@ksu.edu* |
| Open House Chairs: | Ben Nye *nye@ksu.edu* |
| | Nicholas Clow *nickclow@ksu.edu* |

**Agenda:**

| | |
|---|---|
| Announcements: | Jennifer Sommerfeld |
| Introduction of Speaker: | Vince Studer |
| Speaker: | Senior Design & Officer Elections |

# Speaker Profile

**Senior Design and Officer Elections**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1 | 4 | 6 | 7 | 3 | 5 | 8 | 9 | 2 |
| 8 | 5 | 2 | 9 | 4 | 6 | 7 | 1 | 3 |
| 7 | 3 | 9 | 2 | 1 | 8 | 4 | 6 | 5 |
| 9 | 8 | 4 | 3 | 7 | 1 | 2 | 5 | 6 |
| 2 | 1 | 5 | 8 | 6 | 9 | 3 | 4 | 7 |
| 6 | 7 | 3 | 4 | 5 | 2 | 9 | 8 | 1 |
| 5 | 9 | 8 | 6 | 2 | 7 | 1 | 3 | 4 |
| 4 | 6 | 7 | 1 | 9 | 3 | 5 | 2 | 8 |
| 3 | 2 | 1 | 5 | 8 | 4 | 6 | 7 | 9 |

# ASCE Structure Profile

**Channel Tunnel**

The 31-mile Channel Tunnel (Chunnel) fulfilled a centuries-old dream by linking Britain and the rest of Europe. More than a tunnel, it combines infrastructure and immense machinery in an underwater system of unprecedented ambition. Three 5-feet thick concrete tubes plunge into the earth at Coquelles, France, and burrow through the chalky basement of the English Channel. They reemerge behind the white cliffs of Dover at Folkstone.

Through two of the tubes rush the broadest trains ever built. The double decker behemoths, which span 14-feet across, traverse the tunnel at close to 100 mph. Passengers board not on foot, but in automobiles and buses. Maintenance and emergency vehicles utilize the third tunnel, located between the rail tubes.

Huge pistons open and close ducts, relieving the pressure that builds ahead of the trains' noses. Some 300 miles of cold water piping run alongside the rail tracks to drain off the heat raised by the air friction.
Information acquired from ASCE website, Seven Wonders

# Schedule

November 21 **Assembly** Umberger 105

*3.2. Sample Screenshot of Website Printout*

KANSAS STATE UNIVERSITY

Search web, people, directories

Browse A-Z Sign in

K-State » Engineering » ASCE

## American Society of Civil Engineers

- Home
- Officer List
- Calendar
- CE 015
- Bulletin Board
- Steel Bridge
- Concrete Canoe
- Related Links
- General Information
- Balsa Bridge
- Previous Speakers
- Newsletter
- Annual Report
- Regional Conference

Welcome to the home of Kansas State University's chapter of the American Society of Civil Engineers (ASCE). Take some time and explore our new site.

The American Society of Civil Engineers (ASCE) is the oldest national engineering society in the United States. Founded in 1852 with 12 members, the Society was created to distribute information among engineers who were building the roads, canals, bridges and railroads of a rapidly expanding nation.

The KSU chapter of ASCE was founded in 1923 and has approximately 215 student members.

ASCE is a way for civil engineering students to meet with peers, prospective employers and professors. In addition to learning as students, members of ASCE have the opportunity to participate in concrete canoe, steel bridge, concrete bowling, geotechnical and balsa bridge competitions; and you thought all engineers did was study!

Explore the website to learn about all of these opportunities.

### Mid-Continent Student Conference

To learn about the regional competition located at Nebraska-Lincoln University click on the Regional Conference link to the left.

### National Student Membership

National membership is required in order to receive membership credit for CE015. To sign-up to become a national member CLICK HERE, then click on the Apply For Membership button near the bottom of the page.

### Engineering Salary Survey

Click on the following link to learn about Civil Engineering Salaries. If you are going to graduate and have a full-time job you can use this link to make sure you get paid what you're worth. CLICK HERE.

Email: www.asce@engg.ksu.edu
Webmaster: claudi1@ksu.edu

Contact us Emergency Statements and disclosures
Kansas State University Manhattan, KS 66506 785-532-6011 © Kansas State University Login

## *4. ATTACHMENT: ACTIVITY REPORT SUMMARY*

### *4.1. ASSEMBLY ACTIVITY REPORTS*

**American Society of Civil Engineers - Kansas State University**
**WSCL**

| | |
|---|---|
| **Date:** | 1/11/13 - 1/12/13 |
| **Location:** | Milwaukee, WI |
| **Report Prepared By:** | Carl Peterson - Vice President |

**Attendance:**

| | |
|---|---|
| Students: | 4 |
| Faculty: | 0 |
| Faculty Advisor: | 0 |
| Practitioner Advisors: | 0 |
| Other: | 200+ |

**Activity Summary:**
We, Carl Peterson, Vince Studer, Cale Armstrong, and Schyler Rohleder, arrived at the hotel in Milwaukee on Thursday Night. The workshop began on Friday afternoon. We each sat at a different table with students from other schools. There were brief introductions by each school in attendance, followed by a team building/ice breaker exercise for the tables. We listened to a presentation about the keys to a successful ASCE Chapter. Then we broke into different regions to have a chance to learn from our region governors. This was followed by a social which ended events for Friday. The workshop resumed Saturday morning at breakfast, which was held with a speaker who talked about ways to introduce oneself and make an impression. Breakfast was followed by a brief mentoring/goal setting session. There was then a break for "focus sessions". Vince attended the Public Service and Educational Outreach Session, Cale attended the Fund Raising session, Carl attended the Recruitment and Retention session, and Schyler attended the Younger Member Involvment session. These sessions were followed by a luncheon and awards recognition. There was a Q&A session with society leaders followed by an overview of successful annual reports to conclude the workshop.

**Activity Assessment:**
This is one of the best events officers can attend for ASC. It is enjoyable and is a great benefit to the chapter. The event was run smoothly and gave us many great ideas to bring back to the chapter. It was more beneficial to have sent four people than ten like last year.

**Suggestions for the Future:**
Send smaller groups of officers

**Photographs, Tables, Images, etc.**

**American Society of Civil Engineers - Kansas State University**
**Assemblies**

| | |
|---|---|
| **Date:** | January 24, 2013 |
| **Location:** | Umberger Hall, Manhattan KS |
| **Report Prepared By:** | Jennifer Sommerfeld, Recording Secretary |

**Attendance:**

| | |
|---|---|
| Students: | 174 |
| Faculty: | 1 |
| Faculty Advisor: | 1 |
| Practitioner Advisors: | 1 |
| Other: | 10 |

**Activity Summary:**
A short presentation about the WSCL trip to Milwakue was given to inform students about information gained at this conference. This presentation was given by Schyler Rohleder, Cale Armstrong, Carl Peterson, and Vince Studer.

Bob Ringer from the South Central Corrugated Steel Pipe Assocciation gave a presentation on Corrugated Steel Pipe. The presentation included information about different uses for corrugated steel pipe, the benefits associated with the use of corrugated steel pipe, and the prpoer installation and uses of corrugated steel pipe. He provided an example of a steel pipe failure. The pipe was being used to keep water flowing under a roadway. The entryway of the pipe became clogged and this caused failure of the roadway during a flood. Students who attended this assembly received a corrugated steel pipe design manual either hardcopy of a flashdrive version.

**Activity Assessment:**
This activity was a success. The student turn out was higher than anticipated. We switched locations from previous semesters and this is the first semester that we have had an assembly the first week of the semester. Mr. Ringer spoke for less than an hour this year and students were kepted engaged for longer in the presentation.

**Suggestions for the Future:**
The South Central Corrugated Steel Pipe Association came in February of 2012. Bob Ringer was chosen to present at that assembly as well. The information students received was similar to that of last Spring. Maybe when scheduling a speaker from the same company we should request a different speaker to keep students engaged and focused on a topic that has been presented previously.

**Photographs, Tables, Images, etc.**

**American Society of Civil Engineers - Kansas State University**
**Assemblies**

| | |
|---|---|
| **Date:** | February 7, 2013 |
| **Location:** | Kansas State University- Umberger Hall |
| **Report Prepared By:** | Jennifer Sommerfeld |

**Attendance:**

| | |
|---|---|
| Students: | 181 |
| Faculty: | 3 |
| Faculty Advisor: | 2 |
| Practitioner Advisors: | 2 |
| Other: | 4 |

**Activity Summary:**
Mr. Buck Driggs made a short presentation at the beginning of assembly about KSPE and wanting to have more college age students involved in KSPE.
We had three speakers from APWA give presentations about the private sector versus the public sector, and benefits of being a Professional Engineer. The first speaker gave a short presentation on the benefits of being a Professional Engineer. He had made some great points. Nathan Bergman from Bartlett and West then presented on the benefits of private sector. One major benefit is job security. Focus on one form of engineering that you speacilize in. Shawn Mellies from Junction City presented on the benefits of the public sector. He works with 2 other engineers and he focuses on all aspects of civil engineering. His major concern currently is the road conditions in Junction City and the pot hole problems.

**Activity Assessment:**
This is an important topic for students as they begin preparing plans for after graduation. We should continue to have speakers come once a year to discuss benefits of both the private and public sectors of engineering and the benefits of being a professional engineer. Gives students encouragement to take the FE.

**Suggestions for the Future:**
Make sure speakers know their time limits. The speaker was interesting but he was going way over time and students begin to be disrespectful .

**Photographs, Tables, Images, etc.**

**American Society of Civil Engineers - Kansas State University**
**Assemblies**

| | |
|---|---|
| **Date:** | March 28, 2013 |
| **Location:** | Umberger Hall, Kansas State Universty |
| **Report Prepared By:** | Jennifer Sommerfeld |

**Attendance:**

| | |
|---|---|
| Students: | 185 |
| Faculty: | 2 |
| Faculty Advisor: | 2 |
| Practitioner Advisors: | 2 |
| Other: | |

**Activity Summary:**
The senior design class presented on task one of their project. A chief engineer from three of the groups presented on task 1a, 1b, and 1c. The three presenters were Logan Ortiz, Brianna Krysztof, and Mark Stewart. This year's senior design project is rebuilding an old firestation in Manhattan with specific speculations. The first task consisted of the site layout, grading plan, transportation plan, and design of pavement and water drainage systems.

**Activity Assessment:**
The underclassmen may not know everything the seniors are talking about but it looks like they enjoy getting to see what they will be doing in the future.

**Suggestions for the Future:**
Have the seniors try to relate parts of the project back to the underclassmen so that they can more fully understand it.

**Photographs, Tables, Images, etc.**

**American Society of Civil Engineers - Kansas State University**
**Assemblies**

| | |
|---|---|
| **Date:** | April 4, 2013 |
| **Location:** | Fielder Hall, Kansas State University |
| **Report Prepared By:** | Jennifer Sommerfeld |

**Attendance:**

| | |
|---|---|
| Students: | 158 |
| Faculty: | 5 |
| Faculty Advisor: | 2 |
| Practitioner Advisors: | 2 |
| Other: | 1 |

**Activity Summary:**
Tom Paulsen is retired and worked for Conoco Phillips. He presented on some of his offshore projects that he worked on including; Ekofish Field deck elevation project, J-Block development and the Judy deck. He also talked about the Q-chem development and the Mackenzie gas pipeline. After presenting on the projects he began talking about expectations for after college. He mentioned being willing to change and having trust in others, have open lines of communication. Communication is key. Be prepared for new assignments and be willing to take on new assignments volunteering for special work. Be sure to set goals and know where you see yourself in the future.

**Activity Assessment:**
Mr. Paulsen was a great speaker, touching on his international experience and also providing ideas about what to expect in the future.

**Suggestions for the Future:**
Allow more time for question and answers when students are engaged in the topic.

**Photographs, Tables, Images, etc.**

**American Society of Civil Engineers - Kansas State University**
**Assemblies**

| | |
|---|---|
| **Date:** | April 11, 2013 |
| **Location:** | Umberger Hall, Kansas State University |
| **Report Prepared By:** | Jennifer Sommerfeld |

**Attendance:**

| | |
|---|---|
| Students: | 126 |
| Faculty: | 3 |
| Faculty Advisor: | 2 |
| Practitioner Advisors: | 2 |
| Other: | 5 |

**Activity Summary:**
KSPE Event scheduled for April 30, picnic/tailgate and tour of westside stadium construction.
Canoe Awards Party- April 22 at 6pm.

Todd Wimmer from the Union Pacific Railroad presented at assembly about the UP railroad and it's developments over the years. Last year the UP celebrated it's 150th birthday. UP has 45,000 employees with over 33,000 miles of track and 18,000 bridges. In the 1940's UP had more miles of track but was significantly less efficient that today. Paul Bartley who is a KSU Graduate then presented on the Operating Management Trainee Program and internship Program that UP has for recent graduates and future graduates. The program basically prepares young engineers for front line supervisory positions by giving them lots of field experience.

After the presentation officer elections for the Fall 2013 semester were conducted.

Officer elects include:
President- Jennifer Sommerfeld
Vice President- Vince Studer
Treasurer- Carl Peterson
Secretary- Cale Armstrong
Editor/Historian- Katie Walbridge
Freshman/Sophomore/Stuco Rep- Logan Nichols
Acitvities Chair- Noura Saadi

**Activity Assessment:**
Out of courtesy to the companies coming and talking to our group we should try and hold officer elections during senior presentations. Union Pacific did a good job of watching their time allotment.

**Suggestions for the Future:**
Encourage more pre-election nominations.

**Photographs, Tables, Images, etc.**

**American Society of Civil Engineers - Kansas State University**

**Assemblies**

**Date:** May 2nd, 2013
**Location:** Umberger Hall, Kansas State University
**Report Prepared By:** Jennifer Sommerfeld

**Attendance:**

| | |
|---|---|
| Students: | 77 |
| Faculty: | 4 |
| Faculty Advisor: | 1 |
| Practitioner Advisors: | 2 |
| Other: | |

**Activity Summary:**
This was our final assembly of the semester. We allowed our seniors in the senior design class present on task 2 of their final project. They are working on the redesign of the old fire station off of Anderson Road in Manhattan, KS. After their presentation we had all the graduating seniors procede to the front of the classroom where they were able to tell the other students where they are going after graduation and where they will be working.

**Activity Assessment:**
We have had more successful assemblies. Many students already had their required assemblies and did not feel it necessary to attend.

**Suggestions for the Future:**
Have the seniors present a little about the class and less about the project.

**Photographs, Tables, Images, etc.**

**American Society of Civil Engineers - Kansas State University**
**Assemblies**

| | |
|---|---|
| **Date:** | September 5, 2013 |
| **Location:** | Umberger 105, Kansas State University |
| **Report Prepared By:** | Claudia Gonzalez |

**Attendance:**

| | |
|---|---|
| Students: | 231 |
| Faculty: | 5 |
| Faculty Advisor: | 2 |
| Practitioner Advisors: | 2 |
| Other: | |

**Activity Summary:**

The American Society of Civil Engineers, Concrete Canoe, Steel Bridge, The Institute of Transportation Engineers, Chi Epsilon and the Society of Women Engineers all gave a short presentation regarding what their organizations. They discussed their goals, past achievements and future meeting dates.

Dr. Stokes and Dave Karnowski both gave a brief speech on the importance of getting involved and taking education seriously.

**Activity Assessment:**
The assembly was especially geared towards the incoming freshman and gave them a list of activities to get involved with. This in turn, makes it easier to get familiar with the department organizations and who the need to contact. The presentations were brief enough that it kept the students engaged.

Students seemed to be entertained by the stories given by the Dave Karnowski.

**Suggestions for the Future:**
Personal stories help students identify with faculty and those in the professional work force, more of those would be recommended. It was a bit hard to hear a few speeches so, if possible, a microphone for speakers would be very useful.

**Photographs, Tables, Images, etc.**

**American Society of Civil Engineers - Kansas State University**
**Assemblies**

**Date:** 09/12/2013
**Location:** Long's Park, Manhattan, KS
**Report Prepared By:** Noura Saadi

**Attendance:**

| | |
|---|---|
| Students: | 95 |
| Faculty: | 12 |
| Faculty Advisor: | Kyle Riding, Hani Melhem |
| Practitioner Advisors: | 2 |
| Other: | KSPE |

**Activity Summary:**
The event took place at Long's Park Thursday, September 12th at 6:30 pm. At the event, there were many activities including washers, football, soccer, and ulimate frisbee. Hamburgers, hotdogs, chips, potato salad, cole slaw, and "Kansas Dirt" were served to the attendees along with various beverages. Students were encouraged to interact with the faculty in attendance as well as the KSPE members. The student with the most business cards, received a free textbook purchased by the Department of Civil Engineering.

**Activity Assessment:**
The activity was very successful. The park that was chosen had plenty of space for everyone.

**Suggestions for the Future:**
Providing more seating would be recommended. Plan for around 200 students.

**Photographs, Tables, Images, etc.**

**American Society of Civil Engineers - Kansas State University**
**Assemblies**

**Date:** Semptember 19, 2013
**Location:** Umberger 105, Kansas State University
**Report Prepared By:** Claudia Gonzalez

**Attendance:**

| | |
|---|---|
| Students: | 175 |
| Faculty: | 2 |
| Faculty Advisor: | 1 |
| Practitioner Advisors: | 1 |
| Other: | 0 |

**Activity Summary:**
Trent Dunaway and alumni Jessica Hennes presented on behalf of Sega Incorporated in Overland Park. Sega industries works on how to best provide power to consumers. Jessica Hennes started the presentation with a brief summary of what she has been currently involved with in the Sega transmission field. Jessica listed a few responsibilities like site layout, wastewater calculations, permitting, structural conceptual layout, cost analysis, structural design, foundation design and more. Trent Dunaway followed with a short description of his past and current work in the Sega structural design field.

Upon ending, both answered a few questions from the assembly attendees and left with a few words of wisdom. Both stated that, although they didn't use it much in the field, math and physics give a good foundation to everything engineering related.

**Activity Assessment:**
Both Jessica and Trent did a great job at applying their past education experience with what they're involved with now. They showed how knowledge in civil courses like statics, graphics, AutoCAD, surveying and others come in handy on a daily basis. I think it's reassuring to current students to hear that the courses they're taking apply in the future.

**Suggestions for the Future:**
Advertise in advanced to students when two speakers are presenting so they are aware.

**Photographs, Tables, Images, etc.**

**American Society of Civil Engineers - Kansas State University**
**Assemblies**

| | |
|---|---|
| **Date:** | October 3, 2013 |
| **Location:** | Umberger 105 Kansas State University |
| **Report Prepared By:** | Claudia Gonzalez |

**Attendance:**

| | |
|---|---|
| Students: | 212 |
| Faculty: | 3 |
| Faculty Advisor: | 2 |
| Practitioner Advisors: | 2 |
| Other: | 5 |

**Activity Summary:**
The speaker of the evening was practitioner advisor, Peter Clark. Peter Clark is a Traffic Engineer. In his presentation, he gave an overview of the tasks a traffic engineer does. Tasks include, but are not limited to: traffic control design, traffic impact studies, signal destination, and intelligent traffic system (ITS). He went on to introduce what traffic engineers do with ITS. With ITS, the engineers are able to manage street cameras, bike paths and even help calculate the coefficient of friction needed on the streets.

Peter Clark ended his presentation with a short speech on what it is to be a civil engineer. He encouraged students to take advantage of relationships between their colleagues. He emphasized that civil engineers are servant leaders that work for the better good of the people.

**Activity Assessment:**
Students seemed to be very interested in the work of traffic engineers by the amount of questions they all had. Personal stories, like Peter Clark had at the start of his presentation, helped reel in the attention of those in attendance.

**Suggestions for the Future:**
Interacting, even if it's simply by asking questions, help keep the students attention.

**Photographs, Tables, Images, etc.**

**American Society of Civil Engineers - Kansas State University**
**Assemblies**

**Date:** October 17, 2013
**Location:** Umberger 105 Kansas State University
**Report Prepared By:** Claudia Gonzalez

**Attendance:**

| | |
|---|---|
| Students: | 199 |
| Faculty: | 1 |
| Faculty Advisor: | 2 |
| Practitioner Advisors: | 2 |
| Other: | 0 |

**Activity Summary:**
Brian Clow, from the engineering company Carollo, was the guest speaker. Carollo is a large engineering company that is focused on water and wastewater design, planning and construction. Clow talked about large buried infrastructures, open horizontal trenches and tunneling of water pipes among other subjects. He focused a lot on how he and his company dealt with fixing unexpected problems. He reiterated that there is a lot that school doesn't teach that you have to learn in the field. He gave an example of how they had to support an existing structure during the process of renovating underground piping.

Brian Clow finished with a few words on how his education assisted him to be the engineering he is now. He mentioned that, through his early math and physics classes, he learned the valuable tool of learning how to approach and solve complex problems. He also mentioned that through his education, he learned how to work in groups and how to work effectively independently. He ends this presentation with the tip to plan for a career early and often, hustle for internships, and always practice interview skills. .

**Activity Assessment:**
Mr. Clow did a good job of relating what students are learning in the classroom to what is happening in industry and how students will be able to apply what they are learning in school to their career field.

**Suggestions for the Future:**
Continue encouraging speakers to relate schooling and what they learn to what they do in their profession. Also, be sure that the speakers understand that they are only allotted a certain time frame to speak. By encouraging this speakers shall shorten the PowerPoint Presentations so as not to skip so many slides.

**Photographs, Tables, Images, etc.**

**American Society of Civil Engineers - Kansas State University**
**Assemblies**

| | |
|---|---|
| **Date:** | 11/7/2013 |
| **Location:** | Umberger 105, Kansas State University |
| **Report Prepared By:** | Claudia Gonzalez |

**Attendance:**

| | |
|---|---|
| Students: | 186 |
| Faculty: | 2 |
| Faculty Advisor: | 2 |
| Practitioner Advisors: | 2 |
| Other: | 1 |

**Activity Summary:**
Josh Sommerfeld, an alumni and project engineer at BNSF Structures, was the speaker of the night. Josh explained the standing between positions in their company. He also talked about capital expenditure projects they're working on. Some of those projects include rebuilding, culverts, deck replacements, and arches. BNSF also takes care of maintenance items such as falling structures, scours, vegetation control and surface issues. BNSF hires professional engineers and they allow you to obtain your professional engineering hours while working on the field.

**Activity Assessment:**
Having recent alumni come and speak is a plus. Mr. Sommerfeld did a good job presenting about what BNSF is looking for but also what projects are currently taking place. Due to his recent graduation students still remembered him from his involvement in ASCE and asked him more questions.

**Suggestions for the Future:**
BNSF provided GoodCents to students prior to the assembly. It was not properly advertised and many students did not show up. To prevent an access of leftover food advertise to students in advance when a company is going to provide a meal.

**Photographs, Tables, Images, etc.**

**American Society of Civil Engineers - Kansas State University**
**Assemblies**

| | |
|---|---|
| **Date:** | 11/21/13 |
| **Location:** | Umberger 105, Kansas State University |
| **Report Prepared By:** | Claudia Gonzalez |

**Attendance:**

| | |
|---|---|
| Students: | 119 |
| Faculty: | 3 |
| Faculty Advisor: | 2 |
| Practitioner Advisors: | 2 |
| Other: | 0 |

**Activity Summary:**
Officer elections were held at the beginning of the assembly and the results were as follows: President and Vice President are unchanged, Michael Stancic- Secretary, James Scott- Treasurer, Claudia Gonzalez- Historian, Yadira Porras- Freshman/Sophomore Rep., Caleb Mitchell- Open House Chair.

After election, the seniors in civil engineering presented their current project in the "Senior Design" class. They shared their process of how they met with standards that the project entailed. They also spoke about how past courses assisted in the completion of the project. Upon three groups presenting, the seniors continued the tradition of shaking hands with the practitioner advisors and saying what they were going to do upon graduating.

**Activity Assessment:**
The seniors did a good job this year of presenting their topics in a manner that students with limited coursework could understand the majority of their project.

**Suggestions for the Future:**
For officer elections it is important to have more people nominated prior to the beginning of the evening elections. It is also important to inform students of their nomination so that they are present at the meeting and able to run for the nominated position. Having elections early in the semester could also help with the transition from old officers to new officers in regards to having time to turn material over and explain to the incoming officer the duties of the position.

**Photographs, Tables, Images, etc.**

*4.2. PROFESSIONAL ORGANIZATION ACTIVITY REPORTS*

**American Society of Civil Engineers - Kansas State University**
**KSPE Younger Members Event**

| | |
|---|---|
| **Date:** | January 21, 2013 |
| **Location:** | Kite's Bar and Grill in Aggieville |
| **Report Prepared By:** | Logan Ortiz - Special Projects Chair |

**Attendance:**

| | |
|---|---|
| Students: | 1, Logan Ortiz |
| Faculty: | 0 |
| Faculty Advisor: | 0 |
| Practitioner Advisors: | 0 |
| Other: | 8 |

**Activity Summary:**
KSPE is putting together a Young Members Committee to serve as there link to getting more KSU students involved/aware of KSPE. The Committee was created by the attendees and will help KSPE with various activities.

**Activity Assessment:**
Had elections for positions in the Younger Members Group that KSPE is beginning. They are hoping for a significant amout of involvement from student chapters, particularly ours at KSU.

**Suggestions for the Future:**
Get more invovelment from ASCE. There are practicing engineers that have great insight to projects within the City of Manhattan that may be going on which ASCE could possibly help with.

**Photographs, Tables, Images, etc.**
None

**American Society of Civil Engineers - Kansas State University**
**ASCE Younger Members Egg Drop**

| | |
|---|---|
| **Date:** | 2/23/13 |
| **Location:** | Kansas Children's Discovery Center, Topeka, KS |
| **Report Prepared By:** | Carl Peterson - Vice President |

**Attendance:**

| | |
|---|---|
| Students: | 1 |
| Faculty: | 0 |
| Faculty Advisor: | 0 |
| Practitioner Advisors: | 0 |
| Other: | 7 |

**Activity Summary:**
The Kansas Section of ASCE holds an egg drop competition in Topeka every year for children from Pre K through 9th grade. There are design requirements for the egg drop containers and children are asked to bring their design to the competition. The egg drop containers are weighed and separated into age groups. The egg drop containers were then dropped and the winner for each age group is the lightest design that keeps the egg from breaking. Prizes were awarded to the winners.

**Activity Assessment:**
The children and ASCE younger members really enjoyed the event. Some of the designs were very unique.

**Suggestions for the Future:**
Try to have more students attend to help.

**Photographs, Tables, Images, etc.**

**American Society of Civil Engineers - Kansas State University**
**ASCE/KSPE March Meeting**

| | |
|---|---|
| **Date:** | 3/14/13 |
| **Location:** | Brookeville Hotel, Abilene, KS |
| **Report Prepared By:** | Adam Emerson - President |

**Attendance:**

| | |
|---|---|
| Students: | 2 |
| Faculty: | 1 |
| Faculty Advisor: | 0 |
| Practitioner Advisors: | 0 |
| Other: | ~30 |

**Activity Summary:**
Dr. Ron Trewyn, the Vice President for Research at Kansas State University spoke about the construction and future impacts of the new National Bio and Agro-Defense Facility (NBAF) being constructed in Manhattan, Kansas. Dr. Trewyn provided a brief overview of what the facility would do when fully functional. The mission statement he used was "To Protect U.S. Livestock from Foreign Animal Diseases (FAD's) including zoonotic threats". After bringing everyone up to speed on the purpose he gave an overivew of the facility including some interesting engineering problems they have run into including negative pressure wards in high risk areas.

**Activity Assessment:**
The function provided a great opportunity to network with engineers from the central and western part of the state. ASCE and NSPE members from as far away as Wichita and Hays attended the event and they seemed throughly impressed that students would take time from their schedules to attend professional meetings.

**Suggestions for the Future:**
None, ASCE and KSPE put on a great event at a location that could not have been much better.

**Photographs, Tables, Images, etc.**

**American Society of Civil Engineers - Kansas State University**
**KSU/KU Joint Dinner**

**Date:** April 9, 2013
**Location:** Oread Hotel, Lawrence, KS
**Report Prepared By:** Carl Peterson

**Attendance:**

| | |
|---|---|
| Students: | 13 |
| Faculty: | 2 |
| Faculty Advisor: | 2 |
| Practitioner Advisors: | 0 |
| Other: | 60+ |

**Activity Summary:**
The Joint Dinner was held at a hotel in Lawrence, KS this semester. KU's chapter has been doing extremely well and the dinner was evidence of this. Steel Bridge and Concrete Canoe design teams were congratulated, for both schools, on their work and success in regional competitions. Outstanding Junior and Senior awards were given by faculty members. The dinner was a nice buffet. Howard Lubliner of KDOT spoke and talked about the highway safety manual, his research, and both's effects in Kansas.

**Activity Assessment:**
The speaker did a great job of keeping people's attention. Overall, the dinner went very well.

**Suggestions for the Future:**
make sure to have the dinner on a Thursday to prevent so many cancellations. Try to schedule the dinner further from the FE and regional competitions.

**Photographs, Tables, Images, etc.**

**American Society of Civil Engineers - Kansas State University**
**Assemblies**

| | |
|---|---|
| **Date:** | April 29, 2013 |
| **Location:** | Bill Snyder Family Stadium, "The Bill", Manhattan, KS |
| **Report Prepared By:** | Adam Emerson |

**Attendance:**

| | |
|---|---|
| Students: | 51 |
| Faculty: | 1 |
| Faculty Advisor: | 1 |
| Practitioner Advisors: | 0 |
| Other: | ~125 |

**Activity Summary:**
The Kansas Society of Professional Engineers chapter organized an event to help local student chapters connect with professionals in the area. KSU's ASCE, AEI, and AGC chapters were invited to attend a construction tour and tailgate outside the new wing of Bill Snyder Family Stadium. Groups were led on a 30 minute tour of the 6 story $75 million dollar facility. The steel members, concrete beams, and connections were highlighted as well as the construction process. As it turns out, the project has such a tight deadline that every subcontractor on the project was working at once. The final foundations were even being placed as the top floors were being finished with sheet rock and glass. GE Johnson and Mortenson Construction put on the tour. KSPE provided hamburgers and hotdogs for the event and many of our students were able to connect with future employers or current supervisors.

**Activity Assessment:**
The event was a huge success. Each group only had 4 or 5 no shows from RSVP lists of over 50. It gave our students great insight into the professional world and allowed them a chance to network. We should try to schedule another event like this in the future.

**Suggestions for the Future:**
Fundraise by renting safety equipment to other chapters.

**Photographs, Tables, Images, etc.**

**American Society of Civil Engineers - Kansas State University**
**KSU/KU Joint Dinner**

| | |
|---|---|
| **Date:** | November 14, 2013 |
| **Location:** | Kansas State University Student Union |
| **Report Prepared By:** | Vincent Studer |

**Attendance:**

| | |
|---|---|
| Students: | KSU - 25; KU - 15; Benedictine College - 5 |
| Faculty: | KSU - 3; KU - 1; Benedictine College - 1 |
| Faculty Advisor: | KSU - 2; KU - 1; Benedictine College - 1 |
| Practitioner Advisors: | KSU - 2 |
| Other: | Kansas ASCE Section - 10; Burns and McDonnell Guest Speakers - 3 |

**Activity Summary:**
KSU and KU Joint Banquet; the event was hosted by Kansas State University. Sarah Cisper, Meagan Berlau and Zach Weiss attended as our guest speakers. Sarah, Meagan, and Zach work for Burns and McDonnell in the Transmission and Distribution Department. Their presentation was about their work on the Sunrise Powerlink Project in California. This was the first year that students and faculty from Benedictine College in Atchison Kansas attended the banquet.

**Activity Assessment:**
The Joint Banquet was very successful this past November. We had a nice turn out of students and faculty from both Kansas University and Kansas State University. We were pleased to have students and faculty from Benedictine College in attendance, and look forward to having them join us in the future.

**Suggestions for the Future:**
We chose a buffet style dinner for the event, but in the future we need to request table service. The social before the dinner needs more organization.

**Photographs, Tables, Images, etc.**

**American Society of Civil Engineers - Kansas State University**
**Civil Engineering Awards Banquet**

**Date:** 12/5/2013
**Location:** Kansas State University Alumni Center
**Report Prepared By:** Jennifer Sommerfeld

**Attendance:**

| | |
|---|---|
| Students: | 50 |
| Faculty: | 15 |
| Faculty Advisor: | 2 |
| Practitioner Advisors: | 2 |
| Other: | 60 |

**Activity Summary:**
The event took place at the Kansas State University Alumni Center. The president from Chi Epsilon and ASCE hosted the event and the banquet was sponsored by Bartlett & West, Inc., Topeka. The awards were sponsored by Wildcat Construction Co., of Wichita. Numerous Professors, students, alumni and other people associated with the Kansas State Civil Engineering Department attended the event. ASCE presented awards to Dr. Dunja Peric – ASCE Advisor of the Year. Dr. Hani Melhem- the ASCE Outstanding Faculty of the Year, and Mrs. Sue Wells – ASCE Appreciation Award. ASCE also presented interim department head professor Dr. Stokes with a basket of goodies expressing his hard work and commitment to helping with and participating in ASCE events. Chi Epsilon and the department were able to present their awards at the banquet as well. The Kansas Section ASCE Wichita branch was also in attendance to announce the recipient of their annual award.

The dinner portion of the activity was buffet style with both sides of the line open for guests to move through the line in a timely fashion.

**Activity Assessment:**
The Awards Banquet was successful again this year. The department did a wonderful job planning the event and inviting guests. There was enough time for the guests to eat their meal before the awards presentation began. The picture assortment on the slideshow that played during dinner was a nice assortment of events and activities held throughout 2013.

**Suggestions for the Future:**
The slide show was set on a timer for the picture transition but was not set on a continuous loop. To prevent someone from constantly needing to restart the slide show it should be put on a continuous loop if possible. Advertise the meal options prior to the banquet so guests are aware of their choices.

**Photographs, Tables, Images, etc.**

*4.3. STUDENT PRESENTATION ACTIVITY REPORTS*

**American Society of Civil Engineers - Kansas State University**
**Student Presentation**

| | |
|---|---|
| **Date:** | February 1, 2013 |
| **Location:** | Sunset Zoo Manhattan, Kansas |
| **Report Prepared By:** | Logan Ortiz |

**Attendance:**

| | |
|---|---|
| Students: | Logan Ortiz and Courtney Taylor |
| Faculty: | 0 |
| Faculty Advisor: | 0 |
| Practitioner Advisors: | 0 |
| Other: | 1 |

**Activity Summary:**
Courtney and I are working on building a shade structure for Sunset Zoo's cheetah exhibit. The task that was needing to get acomplished on January 28, 2013 was to get a design thought out so then we could get to the drawing boards and have a proposal prepared for a meeting that was set to take place on Thursday January 31,2013 with Mr. Brian Davorian (the Curator of Sunset Zoo). When Courtney and I went to the exhibit on Monday we hadn't taken into account the angle at which the existing concrete slab was sitting so we soon found out that the orientation of the structure Mr. Davorian was wanting was nearly impossible so we decided to wait and speak with Mr. Davorian about the issue until our meeting on Thursday rather than trying to put together a design we knew he would turn down. Thursday came and we talked with Mr. Davorian about turning the structure he imagined by 90 degrees and allowing the structure to flow into the exhibit a little. Mr. Davorian and I went into the exhibit to check and see how far the structure would petrude into the exhibit and found out that that would be a great idea. So as of now Courtney and I are putting together a design to propose to Mr. Davorian sometime next week. We would like for the build process to take place sometime in early March.

**Activity Assessment:**
Great work but we need to get more students involved so when the build process comes we will not be directing everyone on what to do and when.

**Suggestions for the Future:**
Get a design TEAM together rather than just two students.

**Photographs, Tables, Images, etc.**
None

**American Society of Civil Engineers - Kansas State University**
**Assemblies**

**Date:** April 19, 2013
**Location:** Edwards Conference Room, Fiedler Hall, Manhattan, KS
**Report Prepared By:** Adam Emerson

**Attendance:**

| | |
|---|---|
| Students: | 6 |
| Faculty: | 1 |
| Faculty Advisor: | 0 |
| Practitioner Advisors: | 0 |
| Other: | 15 |

**Activity Summary:**
At KSU's Open House every spring, the advisory council comes and provides some assistance with how the department is being run. As a portion of this, ASCE had to send two representatives to provide some insight on how the chapter is doing. Vince Studer and Adam Emerson prepared a short presentation highlighting our recent success and missteps. As a part of this, we outlined how we are revamping the chapter to try to increase attendance, participation, and effectiveness.

**Activity Assessment:**
The presentation was brief but we gained a lot of useful help and contacts.

**Suggestions for the Future:**
Allow more time for questions. Due to the council's schedule the question and answer segment went rather short.

**Photographs, Tables, Images, etc.**

*4.4. OFFICER MEETING ACTIVITY REPORTS/MINUTES (SAMPLE)*

**American Society of Civil Engineers - Kansas State University**
**Officer Meetings**

**Date:** January 31, 2013
**Officers:**

| | | |
|---|---|---|
| ☒ | President | Adam Emerson |
| ☒ | Vice President | Carl Peterson |
| ☒ | Treasurer | Vince Studer |
| ☒ | Recording Secretary | Jennifer Sommerfeld |
| ☒ | Corresponding Secretary | Schyler Rohleder |
| ☒ | Newsletter Editor | Mark Stewart |
| ☒ | Historian | Robert Schweiger |
| ☒ | StuCo Representative | Claudia Gonzalez |
| ☒ | Freshman/Sophomore Rep | Logan Nichols |
| ☐ | Graduate School Rep | |
| ☒ | Fundraising Chair | Cale Armstrong |
| ☒ | Activities Chair | Travis Bailey |
| ☒ | Special Projects Chair | Logan Ortiz |
| ☒ | Webmaster | Jaime Quilty |
| ☒ | Steel Bridge Captain | Andrew Wiederholt |
| ☒ | Steel Bridge Captain | Chris Rottinghaus |
| ☐ | Concrete Canoe Captain | Jenny Swabb |
| ☐ | Concrete Canoe Captain | Katlyn Dotson |
| ☒ | Concrete Canoe Captain | Mohammed Almohammedali |
| ☐ | Concrete Canoe Captain | Nathan Pohl |
| ☐ | Concrete Canoe Captain | Jennifer Sommerfeld |
| ☒ | Open House Chair | Noura Saadi |
| ☒ | Open House Chair | Alex Johnson |
| ☒ | Open House Chair | Katie Walbridge |
| ☒ | Faculty Advisor | Dr. Kyle Riding |
| ☒ | Faculty Advisor | Dr. Hani Melhem |

**American Society of Civil Engineers - Kansas State University**
**Officer Meetings**

**Next Officer Meeting:** February 14, 2013
**Next Assembly Meeting:** February 7, 2013

**Meeting Minutes -**

**Officer Updates:**

Vice President: A Tentative schedule is available to be posted to website and KSOL. Possible Joint Dinner dates March 14th or 28th. The picnic will be April 25th. Two more speakers are interested in speaking this semester.
Treasurer: FE Review Manual Sales. 17 left.
Recording Secretary: Got random things on notecards last assembly, would like to have the information placed in the newsletter since our classrooms don't have a board to write on this semester.
Corresponding Secretary: Nothing to report. Needs the binder. Typically send out a thank you within a week of assembly.
Newsletter Editor: Will add the notecard information to the newsletter.
Historian: Nothing to report
StuCo Representative: The meeting on Monday talked about the career fair.
Freshman/Sophomore Rep: Working on Freshman Spotlight not much interest
Graduate School Rep:
Activities Chair: Wants a definite picnic date
Special Projects Chair: Has met with the zoo people twice this semester. Is currently working on design if anyone would like to help.
Webmaster: Just got access to website. Should be up-to-date by end of weekend or Monday.
Steel Bridge: First workday Saturday at 8am discussing lab safety.
Concrete Canoe: Nothing to Report. Work days MWF at 6pm in the basement.
Open House: Nothing to Report
Advisors: Nothing to Report

**Discussion:**

Keep a good relation with Younger Members - Roadrunners game in Topeka this weekend.
Send at least one representative to Kansas Section meetings.
Reach out to the Witchita Branch.
Attend KSPE events.

The next two assemblies will have short presentors at the beginning. Ariel Anib from EWB and a member of KSPE.

The department is hiring a new geotech professor and we need students to sit in on the sessions to learn more about the canidates.

All five ACI Codebooks have been sold.

Potential 2013 goals: Increase membership in Concrete Canoe and Steel Bridge.
Get more freshman involvement in engineering- take them on field trips.

Meeting Attendance: Texas A&M 400 Students one entrance, check students in on excel spreadsheet.
Alphabetize id's
Get an ID scaning system.

Freshman/Sophomore Activities:
Activity Carnival with other departments in the Fall
Sacvenger Bingo- Have some sort of incentive. Have students search for civil engineering type things. For example, a truss.
Assembly strictly for underclassmen that has an upperclassmen panel.

Freshman competition-like concrete bowling ball
Before the officer election assembly allow freshman to sit in on an officer meeting.
Small group mentor program.

Officer Elections:
Hold earlier in the semester to allow for shadowing and an easier transition.

Email Logan about middle school outreach if you are interested in participating and with any ideas.

Fundraising Chair: Fundraiser Ideas-
Concession stands, stadium cleanup, Jamba Juice(smoothies), Burgers/hotdogs at lunch for cheap, golf tournaments, selling engineering paper, Worlds of Fun at Halloween, ASCE Polos.

*5. ATTACHMENT: FINANCIAL SUMMARY*

*5.1. SPRING 2013*

**FINANCIAL STATEMENT SUMMARY – ☒ Spring 2013 - ☐ Fall 2013**

**INCOME**

**0. Cash Balance as of ☒ January 1, 2013**
**☐ June 1, 2013**

| | | |
|---|---|---|
| Cash | | $3471.55 |

**1. Local Membership Dues**

| | | |
|---|---|---|
| Spring 2013 | (0 members @ $10/member) | $0 |
| Spring 2013 | (10 members @ $15/member) | $150 |

**2. Allocations from Kansas State University**

| | |
|---|---|
| American Society of Civil Engineers | $ |
| Department of Civil Engineering | $ |
| ASCE Kansas Section | $ |
| | $ |
| | $ |

**3. Donations from sponsors**

| | |
|---|---|
| | $ |
| | $ |
| | $ |

**4. Other Fundraisers**

| | |
|---|---|
| FE Review Manual Sales (21 @ $90/book) | $1890 |
| ACI | $350 |
| Stadium Tour | $105 |

**5. Miscellaneous**

| | |
|---|---|
| Guest Speaker bought pizza | $456.18 |
| Polo sales/miscelaneous | $688.51 |
| WSCL Reimbursement | $500 |

**Total Income:** $7611.24

**EXPENSES**

**1. Assembly Expenses**

| | |
|---|---|
| Note cards for attendance counts | $5.84 |
| Thank you gift cards for speakers | $ |
| | $ |
| | $ |

**2. Attendance at WSCL**

| | |
|---|---|
| Airfare/Gas | $0 |
| Lodging | $756.21 |
| Food | $0 |
| Registration | $200 |

**3. Competitions**

| | |
|---|---|
| Competition: Canoe Team | $ |
| Competition: Bridge Team | $ |

*Competition teams paid for their own expenses in separate accounts

**4. Conference Participation**

| | |
|---|---|
| Registration ( students@ $ / student): | $ |
| Airfare/Mileage | $ |
| Lodging | $ |
| Food | $ |

*Competition teams paid for their own expenses in separate accounts

**5. Special Projects**

| | |
|---|---|
| Project: Middle School Outreach | |
| Materials and supplies | $ |
| Travel | $ |
| Other (Specify: ) | $ |

**6. Social Events**

| | |
|---|---|
| Picnic | $295.95 |
| KU/KSU Joint Dinner (Attending ☒/Hosting ☐) | $ |
| | $ |

**7. Fundraisers**

| | |
|---|---|
| FE book cost | $765 |
| | $ |

**8. Other Expenses**

| | |
|---|---|
| Senior portraits | $ |
| Miscellaneous | $1156.74 |
| | $ |
| | $ |

**Total Expenses:** $3179.74

**SUMMARY**

**Cash Balance as of ☒ May 31, 2013**
**Cash Balance as of ☐ December 31, 2013**

$4431.50

**Accounts Payable**

$3179.74

**Accounts Receivable**

*5.2. FALL 2013*

**FINANCIAL STATEMENT SUMMARY – ☒ Spring 2013 - ☒ Fall 2013**

**INCOME**

| | | |
|---|---|---|
| **0.** | **Cash Balance as of ☐ January 1, 2013 ☒ June 1, 2013** | |
| | Cash | $4431.50 |
| **1.** | **Local Membership Dues** | |
| | | $1225 |
| **2.** | **Allocations from Kansas State University** | |
| | American Society of Civil Engineers | $ |
| | Department of Civil Engineering | $ |
| | ASCE Kansas Section | $ |
| | | $ |
| | | $ |
| **3.** | **Donations from sponsors** | |
| | Kansas Section | $450 |
| | | $ |
| | | $ |
| **4.** | **Other Fundraisers** | |
| | FE Review Manual Sales (1 @ $85/book) | $85 |
| | FE Promo Code | $19.35 |
| | Stadium Tour | $0 |
| **5.** | **Miscellaneous** | |
| | Dinner | $860 |
| | | $0 |
| | | $0 |

**Total Income:** $7070.85

**EXPENSES**

**1. Assembly Expenses**

| | |
|---|---|
| Note cards for attendance counts | $4.29 |
| Thank you gift cards for speakers | $286.90 |
| Printing membership cards | $3.69 |
| | $ |

**2. Attendance at WSCL**

| | |
|---|---|
| Airfare/Gas | $0 |
| Lodging | $0 |
| Food | $0 |
| Registration | $100 |

**3. Competitions**

| | |
|---|---|
| Competition: Canoe Team | $ |
| Competition: Bridge Team | $ |

*Competition teams paid for their own expenses in separate accounts

**4. Conference Participation**

| | |
|---|---|
| Registration ( students@ $ / student): | $ |
| Airfare/Mileage | $ |
| Lodging | $ |
| Food | $ |

*Competition teams paid for their own expenses in separate accounts

**5. Special Projects**

| | |
|---|---|
| Project: Middle School Outreach | |
| Materials and supplies | $ |
| Travel | $ |
| Other (Specify: ) | $ |

**6. Social Events**

| | |
|---|---|
| Picnic | $0 |
| KU/KSU Joint Dinner (Attending ☐/Hosting ☒) | $1817.65 |
| | $ |

**7. Fundraisers**

| | |
|---|---|
| FE book cost | $0 |
| | $ |

**8. Other Expenses**

| | |
|---|---|
| Senior portraits | $ |
| Miscellaneous | $112.26 |
| | $ |
| | $ |

**Total Expenses:** $2324.79

**SUMMARY**

**Cash Balance as of ☐ May 31, 2013**
**Cash Balance as of ☒ December 31, 2013**

$4746.06

**Accounts Payable**

$2324.79

**Accounts Receivable**

## *6. ATTACHMENT: STUDENT DESIGN TEAMS*

### *6.1. STEEL BRIDGE – Spring Semester*

The Kansas State University Steel Bridge design team placed 1st overall at the 2013 Mid-Continent Regional Competition hosted by Southern Illinois University in Edwardsville, Illinois. The accomplishment marked the team's third regional championship in four years, and qualified it for a ninth consecutive trip to the National Competition that was held in Seattle, Washington. At the National Competition, the team placed 35th overall and 7th in the Stiffness category. The team hopes to continue its past success with a strong showing at the 2014 Regional Competition hosted by Oklahoma State University, and another National Competition appearance at the University of Akron.

Historically, K-State bridges have been designed to perform well in the Stiffness category, and have done so. This year's team is placing additional emphasis on the Lightness and Construction Speed categories of the competition in hopes that doing so will help the team compete better at the national level. As a result, the entire fall semester was spent creating and analyzing various designs that would excel in the new areas of emphasis. A final design was chosen, and the steel material has been ordered and delivered. The new bridge will be fabricated and tested by team members during the spring 2014 semester before participating in the 2014 regional competition.

*6.2. CONCRETE CANOE – Spring Semester*

The 2013 ASCE Mid-Continent Regional Competition was hosted at Southern Illinois University at Edwardsville. The Kansas State University concrete canoe team received the following rankings:

8th Overall out of 10 teams
4th in Design Paper
8th in Oral presentation
9th in Final product
8th in Races – 2nd in women endurance, 5th in men sprint, 5th in coed sprint, 9th in men endurance, 10th in women sprint

Captains Jenny Swabb, Katlyn Dotson, and Nathan Pohl lead the team on a more experimental route this year. The team tried using many new materials, structural analysis methods, and construction processes to create their canoe, USS Wildcat.

The team created a new hull design that incorporated structural members such as ribs and a gunwale. The incorporation of the structural members prompted the team to create a new and innovative mold. The team made a male mold instead of the usual female mold. The team used polystyrene foam as they have in the past, but covered it in fiberglass and epoxy which helped improve its release.

The CNCCC rules restricted structural analysis to 2D methods this year. Using a combination of hand calculations and spreadsheets to perform the structural analysis was a fun challenge for the team, since they had only used 3D analysis for the past two years.

The mix design had also been completely reworked to exclude large aggregates to give the canoe a smoother finish, include fly ash and more of the lighter glass bead aggregates to decrease the density of the mix significantly (by about 6%).

The Kansas State University Concrete Canoe Team is steadily improving, and the 2014 Mid-Continent Regional Competition at Oklahoma State University in Stillwater, Oklahoma will be another step up on the team's way to success.

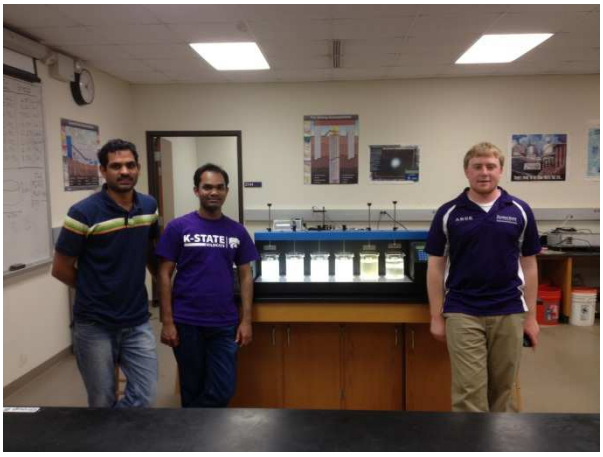
*7. ATTACHMENT: KANSAS STATE UNIVERSITY OPEN HOUSE*

The theme of the 91st Annual College of Engineering Open House was "Empowering our Students to Impact our Future." With this theme, we wanted to showcase student projects that will help in improve the lives of people in our future. The event started out with the parade through campus. All of the departments were present and there were so many awesome floats. Our float showcased the Hoover Dam and the Mike O'Callaghan-Pat Tillman Memorial Bridge. We painted a mural of the dam on a piece of plywood and used chicken wire and brown tissue paper to create the rocks coming down the side. Two of the students built the bridge from 2x4s, dowel rods and a hula hoop and we spray painted it silver. Dr. Steve Starrett let us use his 4-wheeler and trailer to pull the float. During the parade, students in the department preformed a skit based off of Snow White and Seven Dwarfs. In our skit, Snow Purple had gotten lost while on her way back from the Steel Ring Competition and she ran into the Seven Civil Engineers of the Hoover Dam. Each engineer represented a different discipline of Civil Engineering that the K-State Civil Engineering department provided for students to pursue.

Following the parade, our department was open for visitors in the afternoon. One of the biggest challenges we face is getting people to come up to our department because we are so secluded. Trying to alleviate this problem we used yellow and black electrical tape to make a "highway" that lead people up the stairs to the second floor of Fielder and through the department to showcase our displays. During the work days, the student also made a banner that showcased the Open House theme and incorporated our department. This was hung along the railing along with the ASCE and Chi Epsilon banners.

When visitors first came up the stairs, they were greeted by a Civil Engineering Student and the curriculum display along with a sample of books that were used in many of the undergraduate courses. The curriculum display featured the flowchart of classes required for each Civil Engineering Student. The rest of the balcony was full of activity. Thanks to Dean Robert's office, we were able to have Kinex kits that had plans in them to build different types of bridges. The students and visitors enjoyed assembling these. Another hit was the Edible Concrete display. Using food products, we were able to show the different components of concrete. Crushed up Oreos represented the coarse aggregate, cocoa represented the fine aggregate, pudding mix represented the cement and milk represented the water. We were mixing pudding nonstop all day. Between Friday and Saturday, we went through over 22 boxes of pudding. This year we were also able to showcase the new total station surveying equipment. We set up targets in 2 spots across the complex for visitors to play with. On the balcony, we also had a representative from KSPE, Kansas Society of Professional Engineers, set up a booth.

As you followed the highway you entered the soils lab where 2 displays were located. The first display was recycled from a previous year and was on Pervious Concrete that many of the different students showcased. The second display was a Graduate Student Display and showed Coagulation and Flocculation. Following the



highway again brought you to the next room of displays. The first in this room was a Limited Display showing the software WestPoint Bridge Designer. Visitors were able to construct their on bridge and see the different failure points. The next display was about Maximizing parking in the engineering parking lot. Following this we had a table set up with information on American Society of Civil Engineers and past annual reports. This table also featured the National Infrastructure report card. Next on the list was the Freshman Sophomore display. The presentation included the effects of Arsenic in water. The final display was the other Graduate Student display. In the display, we were shown how glass can make concrete stronger depending on the color of the glass. Outside the door, Chi Epsilon had refreshments available throughout the day. One of our other displays, the Open Class Display, featured the concrete canoe team and was set up in the atrium.

Overall our department placed third at Open House. We were very pleased with these results. One of our displays, the Graduate Student display featuring the effects of glass material in concrete, won first overall in its category and won a cash prize. Our best departmental Display went to the display on Maximizing Parking in the Engineering Lot. The presenter also won a cash prize.

*8. ATTACHMENT: SPECIAL PROJECT*

**Project Description**

Sunset Zoo brought a project to the American Society of Civil Engineers (ASCE) student chapter of Kansas State University at the beginning of last semester (fall 12'). This project encompassed designing a new shade structure that would house the existing slab of concrete outside of the cheetah exhibit so that Sunset Zoo could host events throughout the year no matter what the weather was doing during that time. This project was a design build, which means that ASCE was in charge of designing it as well as constructing it if the plans were agreed upon by Sunset Zoo. Sunset Zoo wanted the project designed and built by the end of the spring semester (May 13'). If at all possible the Curator of Sunset Zoo, Mr. Brian Davoren, wanted the structure to have a rustic look and to portray an African exhibit which is where these specific cheetahs were born.

**Project Objectives**

Sunset Zoo in Manhattan Kansas wants to have a shade structure for their cheetah exhibit designed and built before the end of May 2013. There are four main Tasks that need to be accomplished before the project can be completed. The Tasks include the structural design, the foundation design, the cost analysis, and finally the construction of the proposed design. Each plays a vital role in the development of this structure and need to be accurately accounted for in order for the project to be adequately designed. Normally you would need to get a design of this magnitude stamped by a profession engineer, however, due to the nature of this project Mr. Davoren said that as long as the design is overdesigned or designed for a high factor of safety then it does not need a stamp to be built on Sunset Zoo's property. Up to this point there were no complications and ASCE started to design the shade structure.
As was stated before, Task 1 dealt with the structural design for the shade structure. Mr. Davoren wanted to design this project with as much timber as possible in order to keep a rustic look. Generally when a Civil Engineer hears of a timber design project they turn and let an architect or construction science engineer take it due to the materials involved. Civil Engineers are notorious for designing concrete or steel framed structures but not timber structures. With that being said, I called one of my friends who is involved with the Construction Science's outreach organization to lend me a hand in the timber design. With him on board we started the needed calculations for the shade structure. To start any design you need to know the loadings that will be acting on that specific structure. So first we decided what style of roof we were going to be designing and what materials would generate or suffice for the idea we had in mind. We decided to use pre-fabricated timber roof trusses with a 4/12 pitch as our trusses (shown in figure #1) and a corrugated metal steel as our roofing material. Knowing this we can start calculating the dead load acting on the beams or girders of our structure. We then had to find out how large of structure we were needing to design for based upon the existing slab. So we decided to get the surveying equipment out and head over to Sunset Zoo to take accurate measurements of the existing slab of concrete to be covered, this allowed us the ability to come up with the most efficient design possible. After assessing the surveying data, we deiced to design for a 34 foot by 34 foot shade structure that would allow for a 30 foot by 34 foot free span underneath (shown in figure #2). Our trusses have a 2 foot overhand on either side so we felt that this would be the most efficient design. Next we found the tributary area that accounted for one of the critical sections in the structure and calculated the factored loading that would be acting on it. Using the load resistance factored design (LRFD) method we chose combination number three which took into account the dead load (D), snow load (S), and the live load (L) induced on that critical section.

$$P_u = 1.2D + 1.6(L_r \; or \; S \; or \; R) + (0.5L \; or \; O.5W) \qquad \text{Eq. (2-3c) (AISC, 2011)}$$

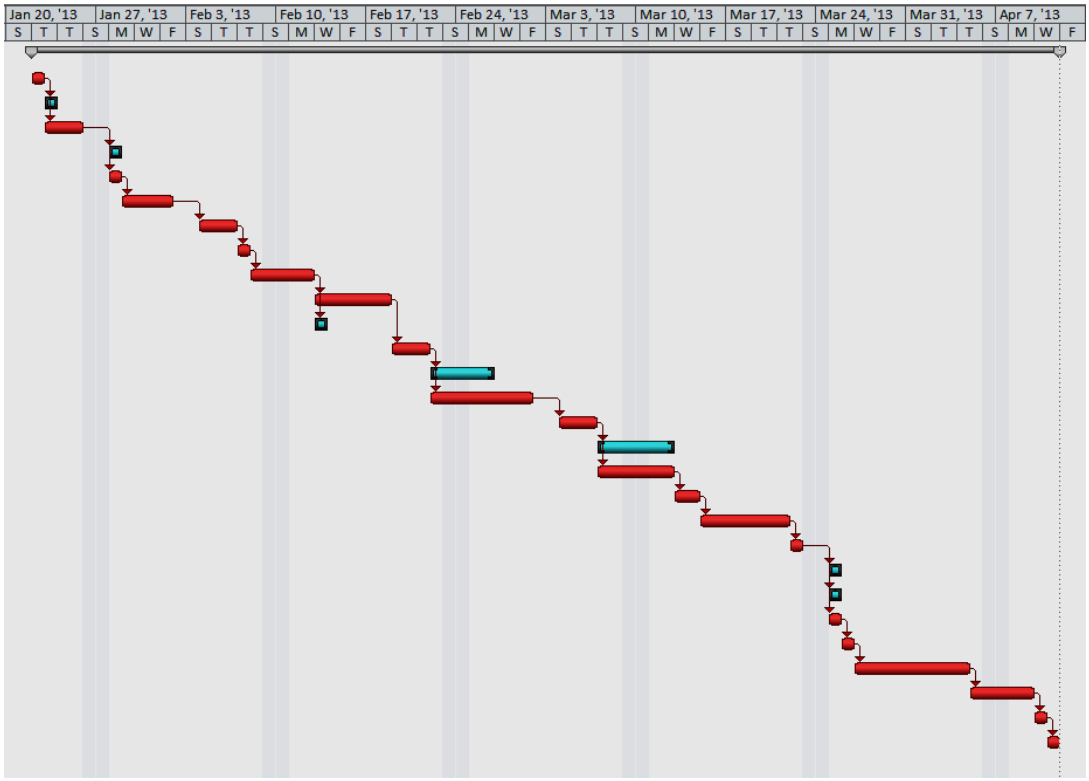
The dead load was found to be 3 kips, the snow load was calculated to be 4 kips, and we simulated a 1 kip live load on the structure to account for the construction of this design. Our overall factored load came out to be 10 kips of force acting down on one beam which would then carry the load to a column and finally distribute it throughout the foundation. Next we had to design a beam that could take the 10 kip load within a 17 foot section, which was our tributary area on the beam, without deforming, shearing, or cracking. After running through each or those checks on a number of beams we found that a 3-1/8 inch by 12-3/8 inch by 34 foot glulam (engineered piece of wood) would suffice for the beam design. The next structural element to be designed was a critical column. Looking at strictly the moment induced on the column we decided the material to be used for a safe design had to be steel. We came to this conclusion because the moment acting on the column was larger than the moment acting on the beam which is what governed in the beam calculations. So in theory you would have to take the same size piece of timber and flip it on its weak axis to avoid the member from deforming so much that is shears and inevitably makes the structure unsafe. With that being said we choose to use a hollow structural steel (HSS) as our design material because it will give us the needed nominal moment without adding as much cost as a W shape member due to the amount of steel being used. After running through the calculations we choose to use a HSS 6 inch by 6 inch by ¼ inch steel member. To

finally round out Task 1 we decided to use Simpson Strong Ties to accurately tie down then HSS member to the concrete foundation and to use Hurricane Ties at all joints where timber meets timber. Caps were used to attach the HSS columns to the engineered beam.

Task 2 encompassed the foundation portion of the shade structure design. Considering the region of this design, the first thing we had to find out was where the frost line sat at the project site. The frost line was found to be at 34 inches below the surface elevation. Knowing that, we designed our foundation to sit at 3 feet below the surface elevation or 2 inches below the frost line which was deemed adequate by our professors. Because the loading was so minimal we decided to go with 6 isolated column footings as our foundation design. This would take extra concrete but would reduce the amount of steel reinforcement needed to just the required amount of steel based off of the American Concrete Institute (ACI) design manual. Each footing was found to need a 2 foot square foundation and would be designed for 3 foot in depth to get below the frost line. The steel reinforcement needed was calculated based on shrinkage and temperature because the concrete could withstand any crushing effect that the loading would induce on the footings. Based on the ACI code the $\rho_{min}$ needed to be designed as 0.0018 and the equation to find out the needed area of steel was to be calculated as:

$$A_s = \rho_{\min} * width * depth$$

The area of steel needed was calculated to be 1.55 $in^2$ and we choose to use #5 bars which have an area of 0.31 $in^2$ each. Based upon the chosen bars we found that we would need 5 #5 bars at 4.5 inch spacing and having a 3 inch clearance from the bottom of the footing. This is all based off of the ACI code for shrinkage and temperature reinforcement in section 7.12 (ACI, 2011).

The cost analysis ran in Task 3 has been detailed in an excel spreadsheet which is attached as Appendix #1. The total cost of the structure was $7041 which does not include the cost of labor or taxes. With ASCE using this as an outreach project we will construct the structure for free and we are tax exempt because ASCE is representing our University. The large costs came from the pre-fabricated trusses, the HSS steel needed, and the engineered glulam timber to act as the beams for this structure which can be seen in the excel spreadsheet.

Due to such a high cost Sunset Zoo decided to shelve the project for a later date. Since Sunset Zoo decided to shelve the project, Task 4 which dealt with the construction of the project, could not be completed as planned. Even though the project will need to be saved for a later date, it was helpful for the zoo to realize the higher cost associated with the project than they intended. This information shall help them in the future budget for this project. I hope that in the near future Sunset Zoo will find the funding for this design and can complete Task 4 because it is an adequate design that will add shade not only for the civilians viewing the cheetahs but also shade for the cheetahs themselves.