

ALPHA PI MU OUTSTANDING CHAPTER REPORT

Submitted by the Virginia Tech Chapter

Submitted for the year April 1, 2016 to March 31, 2017

This is the **official** form to submit for those chapters who wish to compete in the **optional** National Outstanding Chapter competition. Additional materials or an alternate application form will not be considered. This report should be emailed to the Alpha Pi Mu National Office no later than April 15. The email address is office@alphapimu.com.

EACH CHAPTER IS **REQUIRED TO SUBMIT THE STANDARD ANNUAL REPORT FORM, REGARDLESS OF WHETHER OR NOT THIS OPTIONAL OUTSTANDING CHAPTER REPORT IS SUBMITTED. THE STANDARD ANNUAL REPORT FORM IS AVAILABLE ON THE NATIONAL WEBSITE AT <http://www.alphapimu.com/>.**

The national outstanding chapter competition is based on an evaluation of the chapter's activities in three categories:

1. Chapter and University Activities (200 points)
2. Betterment of the Field of Industrial Engineering (100 points)
3. Betterment of the National Society (75 points)

Each documented activity may only be included in one of the three categories and the judges will assign a score using a sliding scale from zero to the maximum indicated for each category.

The first place winner in the national outstanding chapter competition will receive a large engraved plaque and smaller engraved plaques will be awarded for second through fifth place. All other competing chapters will receive an honorable mention certificate.

Dissemination Notice: The first and second place reports will be displayed on the Alpha Pi Mu website.

I. Chapter and University Activities (200 points)

This category includes activities that improve, advance or promote the development of the university, the local chapter and its students. Examples include, but are not limited to, local chapter meetings, pledge activities, initiation activities, administration of faculty/course evaluations, student mentoring activities, academic exhibits or projects and university service projects. Each activity (text and pictures) must be documented in a copy of the following one page form, an activity cannot be documented more than once each semester/quarter (a maximum of twice per year) and a maximum of twenty activities may be submitted.

Chapter and University Activities	
Name of activity:	The Big Event Team
Date(s) of activity:	April 9, 2016
Number of members involved:	10
Number of students impacted:	10 APM members, 1 local resident, and 9,200 student volunteers

Documentation of activity:

Since 2002, Virginia Tech has hosted The Big Event, a student-run community service effort that has grown to be the second largest of its kind in the nation. This year, there were 9,200 volunteers including students, faculty, and staff that came together to complete 1,102 projects throughout the New River Valley, Christiansburg, and Blacksburg community. Alpha Pi Mu had a team of 10 that went to an elderly woman's home in Blacksburg to pull weeds, dead corn husks, dead bamboo, and other dead plants from her garden. The elderly lady was not strong enough to clean the garden herself. After the garden was bare and the team could see dirt, the team gathered all the weeds and dead plants into a pile for disposal. The weather was not cooperating, and there were small blizzard storms (high winds with some snow) occurring throughout the day. The chapter was very pleased that 10 dedicated members joined the event. This event provided an opportunity to contribute to the community and also for new members to get to know each other. In addition to the APM team, other APM members participated in The Big Event through various organizations in which they are involved at Virginia Tech.



Chapter and University Activities	
Name of activity:	Spring Initiation
Date(s) of activity:	April 13, 2016
Number of members involved:	34
Number of students impacted:	34

Documentation of activity:

The Spring Initiation for Alpha Pi Mu was held on Wednesday, April 13, 2016, in the War Memorial Chapel on Virginia Tech’s campus. At this initiation ceremony, 27 new members were welcomed into the chapter. The ceremony was led by 2016-2017 President Meg Carper in addition to other officers. The newly initiated members received their certificates and pins from the Interim Department Head Dr. Eileen Van Aken. Following the ceremony, these newly initiated members were welcomed into the chapter by handshakes from both current society members and faculty.

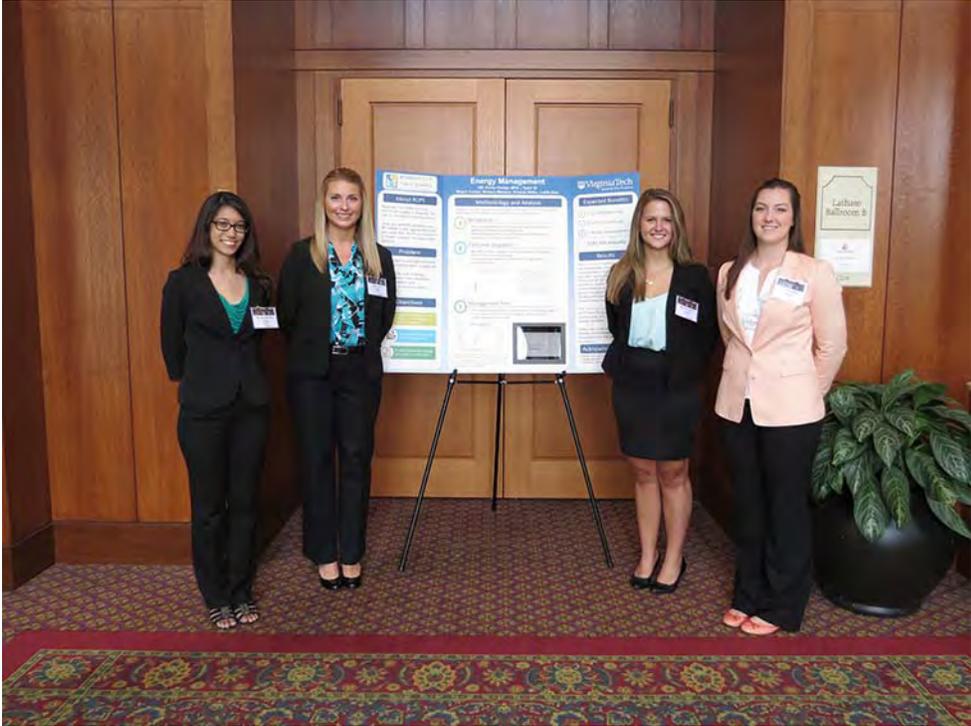
Following the ceremony, a reception was held in Durham Hall. Students celebrated with friends, family, and faculty over light refreshments.



Chapter and University Activities	
Name of activity:	Robert P. Davis Outstanding Junior Award
Date(s) of activity:	April 25, 2016
Number of members involved:	2
Number of students impacted:	About 150
Documentation of activity:	
<p>Each spring, the Virginia Tech Chapter of Alpha Pi Mu presents the Robert D. Dryden Outstanding Junior Award to one or more seniors within the ISE department whose endeavors and accomplishments reflect the objectives of Alpha Pi Mu, namely scholarship and service to the department, the College, and the University. A panel of Industrial and Systems Engineering faculty selects the winner of this award from the applications received based on their academic achievements, involvement in the department, involvement in the university, an essay, and a resume. The recipients are presented with a certificate and their names were engraved on a plaque displayed in the Grado Department of Industrial and Systems Engineering main office. Kaitlin Roelofs and Abigail Smith were presented with this award at ISE Department Reception, with faculty, staff, students, and ISE Advisory Board present.</p> <p>Kaitlin Roelofs served in leadership and service roles as an ISE undergraduate. Last year she was a Student Engineers' Council representative for APM at Virginia Tech and currently the Vice President of APM at Virginia Tech. Additionally, she is an active member of the ISE Ambassadors, works with Dr. Alejandro Salado in undergraduate research efforts, and was a mentor within the Hypatia Women's Engineering Living Learning Community. Abigail Smith is the co-founder and president of Service Without Borders which is an interdisciplinary organization that performs international and local development work including earthquake rehabilitation projects in Nepal. She is also a Food Security and Nutritional Awareness researcher at Virginia Tech, an ambassador and secretary of the Student Engineers' Council, a member of Alpha Pi Mu and the Institute of Industrial and Systems Engineers, and formerly part of Engineers Without Borders and the Hypatia Community. Both of the winners are also dedicated to their academic involvement too, as evidenced by their membership within Alpha Pi Mu.</p> <p>Alpha Pi Mu hopes that this award will encourage all students in the Industrial and Systems Engineering curriculum to seek and maintain excellence in all they do.</p>	
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Chapter and University Activities	
Name of activity:	Don Taylor Leadership Award
Date(s) of activity:	April 25, 2016
Number of members involved:	2
Number of students impacted:	About 180
Documentation of activity:	
<p>The Don Taylor ISE Advisory Board Senior Leadership Award was created during the 2010-2011 academic year by the ISE Advisory Board, Alpha Pi Mu Advisor Dr. Kimberly Ellis, and Dr. Eileen Van Aken to recognize a senior whose activities and accomplishments demonstrate excellence in leadership. The honor, which was recently renamed in honor for Dr. Don Taylor, is awarded every spring.</p> <p>APM officers advertised the application process for the award. Based on the applicants received, a panel of ISE faculty selected a number of finalists for the award, and the ISE Advisory Board, Leadership and Recognition Committee selected the winner of this award from the applications received. This year's honoree was announced on April 25, 2016, at the Inn at Virginia Tech as part of the ISE Department Banquet. This year, Meg Carper was recognized with this award. Meg served as President of the Virginia Tech chapter of Alpha Pi Mu, Community Chair of the chapter her previous year, and was also an active contributor for the ISE Ambassadors. Additionally, she gained professional experience as a co-operative education student at Disney World and as an intern at Deloitte.</p>	
	

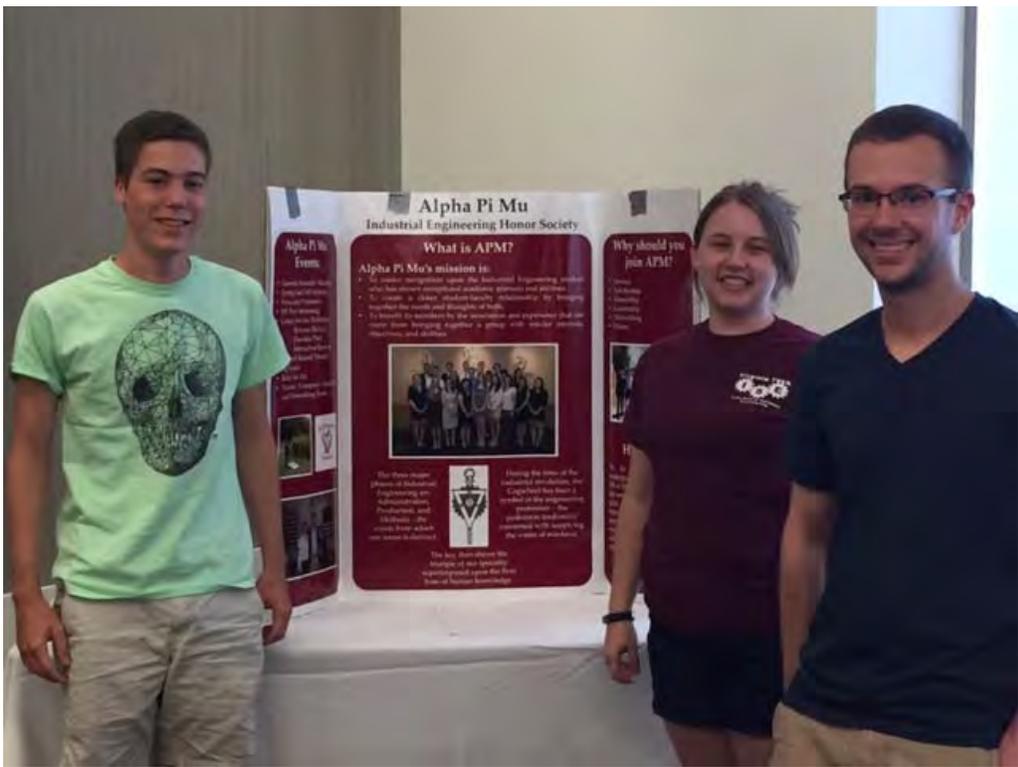
Chapter and University Activities	
Name of activity:	ISE Advisory Board Presentation
Date(s) of activity:	April 27, 2016
Number of members involved:	2
Number of students impacted:	61
Documentation of activity:	
<p>During the ISE Industrial Advisory Board Meeting, Meg Carper, last year's outgoing APM president, and Adam Scherbenske, the incoming president, gave a brief presentation to the Virginia Tech ISE advisory board. The presentation included a description of Alpha Pi Mu, the activities and efforts of the members, and the plan for the following year. This presentation was meant to strengthen the relationship between APM and the ISE Industrial Advisory Board. The chapter received encouragement and insightful feedback from the board members that benefit the chapter.</p> <p>Based on ths presentation, Mr. John Montague, ISE Industrial Advisory Board Member, joined the APM Induction Ceremony in Fall 2016 as a special guest. His presense and support increased the interactions between the two organizations even more.</p>	
	

Chapter and University Activities	
Name of activity:	Senior Symposium Timing
Date(s) of activity:	April 28, 2016
Number of members involved:	9
Number of students impacted:	About 150
Documentation of activity:	
<p>Members of the APM Chapter at Virginia Tech, along with a few other students within the ISE department, assisted the ISE Senior Design course during the Annual ISE Senior Symposium. At the symposium, Senior design teams present the work they have conducted for clients along as a culminating experience for the class. APM members attended the presentations conducted by ISE seniors and helped presenters with time management. The presenters were allocated a total of 20 minutes to present and address questions from the audience. Timers would hold up cards to indicate 10 minutes, 13 minutes and 15 minutes. Additionally, timers assisted faculty members by handing out evaluation forms to judges and members of the audience.</p> <p>Pictured below is one of the teams from the symposium. The team is made of the former president of the APM chapter at Virginia Tech, Meg Carper, along with former Community Outreach chair, Mandy Zeto and Corresponding Secretary, Victoria White. Meg Carper was responsible for coordinating efforts between APM and Senior Design faculty to set up timing.</p>	
	

Chapter and University Activities	
Name of activity:	CEED Opportunities Showcase
Date(s) of activity:	August 20, 2016
Number of members involved:	3
Number of students impacted:	About 20

Documentation of activity:

The Center for Enhancement of Engineering Diversity (CEED) Opportunities Showcase highlights many different engineering organizations for new freshman engineering students within the Galileo and Hypatia Engineering Living Learning Communities and the CEED Mentoring Program. These freshman students were able to talk with the leaders of various engineering organizations to learn about interesting opportunities. APM members set up a booth and spoke with the freshman students to tell them about our organization, the ISE program, and the other clubs within the ISE department. We had 2-3 APM members at the booth from 2:45 p.m. to 6 p.m. We also provided a sign up for students interested in pursuing a major in ISE, so that we can provide them more information about the honor society.



Chapter and University Activities	
Name of activity:	General Assembly Meeting
Date(s) of activity:	October 6, 2016
Number of members involved:	18
Number of students impacted:	32
Documentation of activity:	
<p>Each semester, a General Assembly Meeting (GAM) is held to provide information to potential new members. On October 6, 2016, the top junior and senior students in ISE, along with qualified graduate students, were invited to the GAM to learn about the mission of APM, events they can participate in as members, and how to officially become a member. After the presentation, the officers coordinated a networking activity for potential new members and current members. The potential new members also obtained signatures as part of the requirements to become a member of APM. The networking session was very successful. Many potential and current members interacted and had long conversations with each other.</p>	
	

Chapter and University Activities	
Name of activity:	Pizza and Professors
Date(s) of activity:	October 21, 2016
Number of members involved:	15
Number of students impacted:	15

Documentation of activity:

Alpha Pi Mu hosted Pizza and Professors, where both faculty and students could interact in an informal setting. For two hours in Durham 260, Alpha Pi Mu members were invited to have pizza with several faculty members. Approximately 10 faculty and staff of the Industrial and Systems Engineering attended the luncheon, and this was one of the best turnouts we have had at this event. Students had great opportunities to talk to the faculty about classes, the ISE department in general, and personal experiences. One great conversation with several faculty and students was about different countries and cultural differences. Overall, this event continues to be a favorite of both APM members and faculty and serves as a great opportunity for students to connect with faculty.



Chapter and University Activities	
Name of activity:	ISE Mentoring Program Kick-Off Meeting
Date(s) of activity:	November 2, 2016
Number of members involved:	11
Number of students impacted:	About 30

Documentation of activity:

APM coordinates the ISE Mentoring Program that pairs upper and under classmen together, to foster a mentoring relationship. The pairs can discuss topics of interest such as classes, internships, co-ops, and study abroad. APM hosted the ISE Mentoring Program Kick-Off Meeting on Wednesday, November 2, 2016. This event was advertised to both upperclassmen and underclassmen, but only one sophomore was in attendance along with 10 upperclassmen.

Therefore, two APM officers went to Dr. Barb Fraticelli’s class meeting of Introduction to ISE the following Thursday. The officers described the mentoring program and passed around a physical signup sheet. This generated even more interest in the mentoring program.



Chapter and University Activities	
Name of activity:	Hike to McAfee's Knob
Date(s) of activity:	November 5, 2016
Number of members involved:	8
Number of students impacted:	8
Documentation of activity:	
<p>This year, APM organized a hike to a scenic view in the New River Valley area. Eight APM members participated in an energizing hike to McAfee's Knob, on the morning of Saturday, November 5, 2016, in the morning.</p> <p>The purpose of this hike was to develop connections among members within APM and form deeper friendships. The hike up to the top was four miles long and took about two hours. Once at the top the group took pictures and ate lunch on the rocks. The hike down was considerably easier and took about an hour and a half. Throughout the hike the group learned a great deal about each other's lives and aspirations. We brainstormed different activities for APM and reflected on past events. Members who are juniors and will be around next year gave great feedback and look forward to the next hike.</p>	
	

Chapter and University Activities	
Name of activity:	Fall Initiation
Date(s) of activity:	November 10, 2016
Number of members involved:	17
Number of students impacted:	25

Documentation of activity:

The Fall Initiation for Alpha Pi Mu was held on Thursday November 10, 2016, in the War Memorial Chapel on Virginia Tech’s campus. At this initiation ceremony, 17 new members were welcomed into the chapter. The ceremony was led by 2016-2017 President Adam Scherbenske in addition to other officers. The newly initiated members received their certificates and pins from the Interim Department Head Dr. Eileen Van Aken. Following the ceremony, these newly initiated members were welcomed into the chapter by handshakes from both current society members and faculty.

Following the ceremony, a reception was held in Durham Hall. Students celebrated their initiation ceremony with friends, family, and faculty over light refreshments. Based on APM chapter interactions with the ISE Advisory Board in spring 2015, Mr. John Montague joined our ceremony as a special guest.



Chapter and University Activities

Name of activity:	APM Winter Social
Date(s) of activity:	December 4, 2016
Number of members involved:	10
Number of students impacted:	10

Documentation of activity:

Members of Alpha Pi Mu attended a holiday party hosted by an officer. Students who attended brought food, drinks and desserts. This event allowed members to socialize in a less formal setting so that members had the opportunity to become more connected. Additionally, with exams approaching and the semester drawing to a close, the social allowed the group to take a break from the stresses of academics. The group included a relatively balanced mix of new members, officers, and current members. During the last half of the social, the group played a game similar to charades but with some twists. Pictured are the members of APM that attended.



Chapter and University Activities	
Name of activity:	Kollmorgen Plant Tour Help
Date(s) of activity:	February 17, 2017
Number of members involved:	10
Number of students impacted:	20

Documentation of activity:

Alpha Pi Mu assisted IISE in sponsoring their Kollmorgen Plant Tour in Radford, VA. APM and IISE sponsor a tour each year so that students within the ISE department can get some firsthand experience of what goes on inside different ISE facilities in the area. In this instance, APM led most of the advertising for the tour and helped spread the word about the tour.

Kollmorgen Plant Tour
Friday Feb. 17
@2:00PM

2017 FEBRUARY						
SUN	MON	TUE	WED	THU	FRI	SAT
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17 ★	18

KOLLMORGEN
Because Motion Matters™

Located in Radford, VA, Kollmorgen is a leading manufacturer of motion systems and motors. Take advantage of this great opportunity to tour their headquarters and manufacturing facility!

- Departing at 1:30PM from Goodwin Parking Lot
- Address: 203A Rock Rd W, Radford, VA 24141
- If interested you MUST fill out this survey: <https://tinyurl.com/hgkd74a>

Chapter and University Activities	
Name of activity:	Systems Planning and Analysis Info Session
Date(s) of activity:	February 20, 2017
Number of members involved:	5
Number of students impacted:	18
Documentation of activity:	
<p>Alpha Pi Mu partnered with Systems Planning and Analysis, Inc. (SPA) to hold a company information session for the ISE department. Chris Anderson, a company representative, had worked with Adam Scherbenske, this year's chapter president, over the summer and coordinated with him to lead the session. Mr. Anderson provided information on his personal background, the company, and the work they do, along with opportunities for ISE majors within the company. Students were very engaged and asked questions throughout along with questions at the end. Also, Mr. Anderson collected resumes at the end of the session. One of the students was selected for an internship!</p> <p>Additionally, Chris Anderson met with other groups around Virginia Tech, including an academic advisor within the department, some officers from the Institute of Industrial and Systems Engineers, and representatives from career services.</p>	
	

Chapter and University Activities	
Name of activity:	General Assembly Meeting
Date(s) of activity:	February 27, 2017
Number of members involved:	48
Number of students impacted:	48
Documentation of activity:	
<p>On February 27, 2017, the current members and prospective members met to start off a new cycle of Alpha Pi Mu activities. The meeting began with some conversation, pizza, and drinks. The President and Vice President introduced the current officers and gave a presentation about APM events and what is planned for this coming year.</p> <p>During this meeting, elections were also conducted to select next year's officers. The candidates introduced themselves and gave a short speech why they are fit for the position to the audience present at the General Assembly Meeting. The current and prospective members voted on their selections for each officer position. An on-line survey instrument, developed by the APM Officers using Qualtrics software, was used to collect the votes for each position. After the surveys were completed and the votes tallied, the new officer was announced. This process was repeated until all the officer positions were filled.</p> <p>Afterwards, potential members were encouraged to talk to current members and faculty about their experiences with Alpha Pi Mu and obtain signatures for their application. This was a great way to start our new APM year! All of the attendees enjoyed the social environment and were excited to learn about the opportunities within APM this year. Congratulations to the new APM officers!</p>	
	

Chapter and University Activities	
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Name of activity:	Pizza and Professors
Date(s) of activity:	March 20, 2017
Number of members involved:	25
Number of students impacted:	25

Documentation of activity:

APM hosted Pizza and Professors in the ISE Department's Conference Room on March 20, 2017. During this event, members could meet for lunch and get to know the professors in attendance better. Additionally, new members had a chance to obtain signatures they needed for their APM application packets.

Six professors and approximately twenty-five students attended the event. Many topics were discussed throughout the evening including classes, projects, and cultural differences. The professors explained why they chose academia over the corporate world. Overall, this event was a success and continued to enhance connections between students and professors.



Chapter and University Activities	
Name of activity:	ISE Mentoring Social
Date(s) of activity:	March 26, 2017
Number of members involved:	3
Number of students impacted:	5

Documentation of activity:

Some mentors in the ISE Mentoring Program, along with their mentees, went to the BreakZone in the Squires Student Center to play a round of bowling. Since participants in the mentoring program do not come together as a group very often, this event was planned so that some participants could meet one another and have fun together. The event provided a refreshing break for the students in the middle of a heavy work week, in addition to allowing them to meet each other.



Chapter and University Activities	
Name of activity:	College Mentors for Kids Training Session
Date(s) of activity:	March 31, 2017
Number of members involved:	4
Number of students impacted:	4

Documentation of activity:

Members of Alpha Pi Mu volunteered to support the initiative of another club at VT, College Mentors for Kids. The club serves as a mentoring program for children in elementary school in the local area and brings in clubs from around Virginia Tech to lead activities for them.

Alpha Pi Mu recruited volunteers to participate in the College Mentors for Kids Program, planned for April 3rd to April 5th. The officers held a training session for the volunteers before the event so that they would be prepared for leading the activity and welcoming the children. Along with providing the children with some general concepts from Industrial and Systems Engineering, the session also leads them through a simple assembly line experiential learning activity. The older children will also be taught about line balancing as well.



Chapter and University Activities	
Name of activity:	APM Scholarship Award Winners
Date(s) of activity:	Spring 2017
Number of members involved:	4
Number of students impacted:	2
Documentation of activity:	
<p>The Virginia Tech chapter of APM coordinated the application process for the national APM Scholarship Awards. This year, APM awarded five scholarships nationally, and Kara Love and Kaitlin Roelofs received two of these.</p> <p>Kara Love was awarded the Wolter J. Fabrycky Systems Scholarship from APM. Kara is a graduating senior, and she is pursuing a dual degree in ISE and Computer Science with a minor in business. She has served as the treasurer of APM and contributed to the social outreach committee of the Institute of Industrial and Systems Engineering (IISE). In partnership with SAIC, she led an interdisciplinary team of five students as they conducted research on more efficient ways to gather intelligence. She also served as a Gateway Mentor for entering freshmen at Virginia Tech. It's interesting to note that Wolter Fabrycky, Ph.D., is professor emeritus of our department.</p> <p>Kaitlin Roelofs was recently awarded the Robert D. Dryden Scholarship from APM. Kaitlin is a graduating senior, and she is pursuing a minor in business and is active in the Honors College. She is currently serving as the vice-president of APM and the documentation and marketing committee chair for the ISE Ambassadors. In addition, Kaitlin has served as a peer educator for the Honors College and a peer mentor for the Hypatia Living Learning Community. Kaitlin has conducted undergraduate research with Dr. Alejandro Salado and has studied abroad in Munster, Germany. It's interesting to note that the late Robert Dryden, Ph.D., was a former professor and chair of our department.</p>	
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II. Betterment of the Field of Industrial Engineering (100 points)

This category includes any chapter project or activity directed toward the betterment of the field of Industrial Engineering. Examples include, but are not limited to, student member publications in professional or technical journals, chapter recruitment of potential industrial engineering students and chapter community public relations projects. Each activity (text and pictures) must be documented in a copy of the following one page form, an activity cannot be documented more than once each semester/quarter (a maximum of twice per year) and a maximum of ten activities may be submitted.

Betterment of the Field of Industrial Engineering	
Name of activity:	ISE Faculty Awards
Date(s) of activity:	April 2016
Number of members involved:	2
Number of students impacted:	All students within ISE Department

Documentation of activity:

Each year, the Virginia Tech chapter of Alpha Pi Mu sponsors awards for outstanding faculty within the ISE department and coordinates the student voting for these awards. The goal behind these awards is to recognize the commitment that ISE professors put into their classes by the students themselves. This past year, Dr. Barbara Fraticelli and Dr. Natalie Cherbaka both received the award (a tie vote). Both professors teach several classes a semester and interact with students throughout the department. Dr. Fraticelli has taught classes including Deterministic Operations Research (DOR) I, Theoretical Statistics, Probabilistic Operations Research and Intro to ISE. Dr. Cherbaka has taught DOR II, Facilities & Logistics, and Industrial Cost Control among others. Dr. Cherbaka is pictured on the left, with Dr. Fraticelli on the right.



Betterment of the Field of Industrial Engineering	
Name of activity:	Undergraduate Research Symposium
Date(s) of activity:	April 26, 2016
Number of members involved:	2
Number of students impacted:	6 presenters and approximately 30 attendees
Documentation of activity:	
<p>Alpha Pi Mu, in collaboration with the Undergraduate Program Committee, hosted the annual ISE Undergraduate Research Symposium at The Inn at Virginia Tech. Students who participated in undergraduate research were invited to participate. Each participant prepared a poster of their research project and results. On the day of the symposium, the participants stood with their poster, described the purpose of their project, and the interesting findings. The audience included ISE undergraduate students, graduate students, faculty, and staff, parents, project sponsors for Senior Design, and members of the ISE Advisory Board. This symposium provided an excellent opportunity for students to present the results of their research and to gain experience presenting a poster in a professional setting. The symposium also provides an opportunity to disseminate the recent and interesting research findings in the field of Industrial and Systems Engineering.</p>	
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<p>Carolyn Elliot (left) was recognized with First Place in the Undergraduate Research Award by Dr. Eileen Van Aken. She was advised by Dr. Alejandro Salado. Hannah Zauner (right) presented her research on “Thematic analysis: determining user needs of military veterans to assist with community integration.” She was recognized with Second Place in the Undergraduate Research Award. She was advised by Ali Lisle and Dr. Joe Gabbard.</p>	

Betterment of the Field of Industrial Engineering	
Name of activity:	CEED Opportunities Showcase
Date(s) of activity:	8/20/2016
Number of members involved:	3
Number of students impacted:	About 20

Documentation of activity:

The Center for Enhancement of Engineering Diversity (CEED) Opportunities Showcase highlights many different engineering organizations for new freshman engineering students within the Galileo and Hypatia Engineering Living Learning Communities and the CEED Mentoring Program. Freshman students within General Engineering were able to talk with the leaders of various engineering organizations to see what they might be interested in. APM members set up a booth and spoke with the freshman students to tell them about our organization, the ISE program, and the other clubs within the ISE department. We had 2-3 APM members at the booth from 2:45 p.m. to 6 p.m. We provided a sign up for students interested in pursuing the ISE major so that we can provide them more information about the honor society.



Betterment of the Field of Industrial Engineering	
Name of activity:	Introduction to ISE Presentation
Date(s) of activity:	September 1, 16
Number of members involved:	5
Number of students impacted:	180

Documentation of activity:

Adam Scherbenske (President of Alpha Pi Mu) presented to a group of mostly sophomores in a session of ISE 2004 - Introduction to ISE. The class session provides an opportunity for students new to the major to learn more about the field of industrial engineering along with how to become involved in industrial engineering at Virginia Tech. The presentation included information on Alpha Pi Mu's mission, some of the events the Virginia Tech chapter holds, the benefits of joining Alpha Pi Mu, and the requirements to join. Through this event, APM reaches out to underclass students in the department to encourage them to become involved in the department and the profession.



Betterment of the Field of Industrial Engineering	
Name of activity:	CEED Outreach Activity
Date(s) of activity:	September 27, 2016
Number of members involved:	2
Number of students impacted:	30
Documentation of activity:	
<p>Two professors from the ISE department at Virginia Tech, along with two officers of the Alpha Pi Mu chapter, partnered with the Center for Enhancement of Engineering Diversity (CEED) to lead an activity for local elementary school students. The objective of the experiential activity was to teach the students about industrial engineering concepts and to educate them about the field itself.</p> <p>In this activity, students constructed paper helicopters and dropped them from a nearby balcony to measure the time the helicopters stayed in the air. After the initial drop, Dr. Travis talked to the students about changing multiple variables in the experiment to make the helicopter stay airborne longer. The students suggested making the wings longer or feathering the wings. After suggestions were provided, the students were divided into four groups to test each combination: no change, feathering only, longer wings only, and feathering plus longer wings. Dr. Travis concluded the activity by talking about how industrial engineering concepts are applied in different types of companies.</p>	
	

Betterment of the Field of Industrial Engineering	
Name of activity:	Torgerson Leadership Summit Volunteering
Date(s) of activity:	February 4, 2017
Number of members involved:	15
Number of students impacted:	60

Documentation of activity:

The Institute of Industrial and Systems Engineers (IISE) hosted their second annual Torgerson Leadership Summit in honor of the late Paul Torgerson, a former president of Virginia Tech. Various panels were held to educate students from all disciplines of engineering on the various aspects of leadership. Mary Buckingham, an officer of both IISE and Alpha Pi Mu, was responsible for directing the summit with various other APM officers and members assisting IISE to help the summit run smoothly. These activities included advertising for the summit, folding flyers and pamphlets, and helping with setup and cleanup. Additionally, APM helped recruit professors to attend the event. The connections established through the Pizza and Professors events facilitated this recruitment.



Betterment of the Field of Industrial Engineering	
Name of activity:	Lean Certification Scholarship
Date(s) of activity:	March 17-19, 2017
Number of members involved:	1
Number of students impacted:	2

Documentation of activity:

The student chapter of IISE hosted the Lean Green Belt Certification Course on campus in the New Classroom Building, March 17 – 19, 2017. The Lean Green Belt is a great way for students to enhance their résumé, add to their skills set, and potentially increase their future earnings potential. The lean methodology is utilized by various companies including Toyota, Ford, Nike, Motorola and others.

This year, the ISE Undergraduate Awards Committee, the student chapter of IISE, and Alpha Pi Mu coordinated the selection of two students to receive a scholarship to attend the Lean Green Belt Certification Course. IISE offered a scholarship for a student with financial needs to attend the course, which costs \$500 for IISE student members. In addition, the department, through the Excellence Fund, provided a donation for another student to attend the course. IISE requested applications for scholarships. Then, because these were scholarships for students with financial need, which might be considered sensitive, our advisor, Dr. Kimberly Ellis, coordinated the final selection process with the ISE Undergraduate Awards Committee.



Betterment of the Field of Industrial Engineering	
Name of activity:	Rising Sophomore Information Session
Date(s) of activity:	March 16, 2017
Number of members involved:	2
Number of students impacted:	45

Documentation of activity:

The Rising Sophomore Information Session is led by the ISE Department Head and Academic Advisors, with support from the Ambassadors and APM. This event provides an opportunity for students to learn about the undergraduate ISE curriculum and department. There were some students who already knew they wanted to major in ISE, but many were still undecided. We talked about the curriculum, co-op/internship opportunities, study abroad opportunities, and various other opportunities within the department.



Betterment of the Field of Industrial Engineering	
Name of activity:	Undergraduate Research Panel
Date(s) of activity:	March 23, 2017
Number of members involved:	3
Number of students impacted:	8
Documentation of activity:	
<p>The Undergraduate Research Panel provides an opportunity for students to learn more about undergraduate research in the ISE department. The panel included 3 students and 2 professors, and approximately 6 students attended the event. The panelists introduced themselves, and answered questions from the audience and pre-selected questions from APM officers. The panel benefitted the students in attendance. APM looks forward to expanding this event next year.</p>	
	

Betterment of the Field of Industrial Engineering	
Name of activity:	Five Year Out Panel
Date(s) of activity:	March 30, 2017
Number of members involved:	10
Number of students impacted:	10

Documentation of activity:

The Five Year Out Panel is a question-and-answer session that allows students to learn from alumni who are approximately five years out from graduating college. This spring, the panelists included three representatives from industry, along with a research faculty member. The panelists worked in fields ranging from consulting to manufacturing. The hour-long session began with pre-submitted questions and evolved to an open floor discussion. The topics discussed included adjusting to industry from college, whether to attend graduate school or not, and advice for students as they move forward in their careers. This event was well received, and the panelists were very personable and passionate. This event provided students with insights on the vast opportunities in the field of industrial engineering.



III. Betterment of the National Society (75 points)

This category includes any project or activity directed toward the betterment, advancement or improvement of Alpha Pi Mu at the national level. Examples include, but not limited to, chapter projects that aid Alpha Pi Mu in carrying out the functions of the national office, participation in the expansion of the society, promotion of Alpha Pi Mu to other professional and technical societies, and promotion of alumni relations. Each activity (text and pictures) must be documented in a copy of the following one page form, an activity cannot be documented more than once each semester/quarter (a maximum of twice per year) and a maximum of five activities may be submitted.

Betterment of the National Society	
Name of activity:	Alpha Pi Mu T-Shirts
Date(s) of activity:	February 13, 2017
Number of members involved:	9
Number of students impacted:	9 recipients along with students around campus who see the shirts and learn about APM

Documentation of activity:

This year, APM officers designed new t-shirts for Alpha Pi Mu members. The shirts were purchased from Custom Ink and sold and distributed to students in February. The benefits of these shirts include the opportunity to increase awareness about Alpha Pi Mu by advertising its name around the Virginia Tech campus and to increase the community among its members.



Betterment of National Society	
Name of activity:	ISE Connection Newsletter
Date(s) of activity:	Fall 2016
Number of members involved:	1
Number of students impacted:	500 undergraduate students and the ISE Alumni network

Documentation of activity:

Each semester, the Grado Department of Industrial and Systems Engineering prepares and disseminates an ISE Connection Newsletter to update alumni, current students, and faculty on current events within the department. This year, Alpha Pi Mu contributed to the ISE Connection Newsletter and provided information on events such as the fall initiation ceremony, the mentoring program and a hiking trip. Below is a snippet from the newsletter. Through this mechanism, APM provided insight on the mission of APM to a broad audience

ISE Mentoring Program

Alpha Pi Mu started its 2016-17 **ISE Mentoring Program** with a kickoff meeting on November 2nd where potential mentors and mentees learned about the program and what it means to be involved. Also, officers from Alpha Pi Mu made an announcement the following morning to the Introduction to ISE class where numerous sophomores expressed interest in participating in the program as a mentee. In the week following, mentors were paired with mentees so that meetings could begin.



The pairs will meet every few weeks where the mentor will provide academic and professional support to their mentee. Additionally, it represents a great chance for the mentor to better their leadership ability among other skills as they work with their mentee.

Betterment of the National Society	
Name of activity:	Partnership with ISE Ambassadors
Date(s) of activity:	Fall 2016, Spring 2017
Number of members involved:	11
Number of students impacted:	All students within ISE Department
Documentation of activity:	
<p>Alpha Pi Mu and the ISE Ambassadors have partnered regularly on various events to increase awareness of Industrial Engineering and better reach out to the students within ISE itself. Some of these events include the Big Event, Relay for Life, and the Rising Sophomore Information Session. The Ambassadors also lead the ISE department's social media accounts, and they often help advertise for APM's events.</p>	
	

Betterment of National Society	
Name of activity:	CEED Partnership
Date(s) of activity:	Fall 2016
Number of members involved:	5
Number of students impacted:	About 45
Documentation of activity:	
<p>This year, Alpha Pi Mu partnered with the Center for Enhancement of Engineering Diversity to lead events for students within the CEED program and then for local middle schools. The first event of the year was the CEED Organization Show which allowed Alpha Pi Mu to speak to freshman engineering students about the organization. Although freshmen are not eligible to become members, they were still able to learn about ISE and APM. Also, APM worked with CEED to teach local middle school students about ISE and its concepts.</p>	
	
	

Betterment of the National Society	
Name of activity:	Partnership with IISE
Date(s) of activity:	Fall 2016, Spring 2017
Number of members involved:	13
Number of students impacted:	All students within ISE Department
Documentation of activity:	
<p>Alpha Pi Mu at Virginia Tech and the Institute of Industrial and Systems Engineers partnered on multiple events throughout the past year. These events included the Big Event, Relay for Life, company info sessions, the Torgerson leadership summit and facility tours among others. Helping IISE included efforts such as advertising, providing volunteers and communicating with professors more. The hope behind the partnership was to spread awareness of events when necessary, provide more manpower where needed and to keep relations between the two groups strong.</p>	
 <p>Institute of Industrial Engineers</p>	