

## Student Activities Report to Members Council From the meeting of June 27, Atlanta, GA

Members Present

Francis Lacharite, Chair  
 Joe Chin, Vice Chair  
 Ralph Draper, Region I  
 Robyn Ellis, Region II  
 Stephanie Mages, Region III  
 Peggy Fritz, Region IV  
 Russell Marcks Region V  
 Janice Means, Region V  
 Jason Atkisson, Region VI  
 Grant Page, Region VII  
 Ruben Vaughn Nichols, Region VII  
 Bill Simpson, Region VIII  
 Adam Davis, Region X  
 Michael Nafzgar, Region XI  
 Robin Bryant, Region XII  
 Hassan Sultan, R-A-L  
 Amir Karimi ABET EAC  
 Erich Binder, BOD ExO  
 David Cassel, ABET ETAC  
 Joshua Mayer, Student Consultant

Guests

John Constantinide  
 Mitesh Kumar  
 Kris Tan  
 Edward Tsui  
 Dave Meredith  
 David Cassel  
 Paul Petrilli  
 Brian Klock  
 Ongun Berk Kazanci  
 Isabelle Londr  
 Megan Tosh  
 Rob Laneve  
 Mark Miller  
 Annie Smith  
 Eclxhard Groll  
 Mask Lawrence  
 Karine Leblanc

Staff

Justin Ledford

Action Item Summary

EXCOM Action Items:

Action Item	Person(s) Responsible	Due Date
Improve centralized training from feedback	Joe	June 2016

Grants Action Items:

Action Item	Person(s) Responsible	Due Date
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Explore possibility for a Challenge Grant		On hold, hard to time with the challenge. Post pone for next year after 1 year of the modified challenge
Receive grant application prior to deadline	Grants Committee	June 2015

ABET Action Item

Action Item	Person(s) Responsible	Due Date
Explore current and possible ABET Evaluators	Staff	On going

K-12/STEM Action Items:

Action Item	Person(s) Responsible	Due Date
Decide on materials for classroom demonstrations with videos and additional resources	Subcommittee	Ongoing June 2015
Develop focus group in order to explore new avenues to improve motivation and interest for STEM	Subcommittee	June 2015
Develop a K-12 best practice guide	Russ	June 2015

Post High Action Items:

Action Item	Person(s) Responsible	Due Date
Develop and modify student chair best practices in order to do a quick guide	Bill	June 2015

Design Competition Action Items:

Action Item	Person(s) Responsible	Due Date
Design Competition Details to be released earlier this year than in the past.	Subcommittee/Staff	July 2015
Redefine the engineer challenge in order to let the students find their own project in the community	Grant	June 2015

SAC, MP, YEA Liaison:

Develop a path for active member to follow in order to be recognized as involved member  ASHRAE LEADERS DEVELOPMENT AWARD	Joe , Francis	January 2016
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1) Subcommittee Reports

a) Executive Committee:

Student Members

- The total number of student members as of May 31, 2015 is 6,324
  - May 31, 2014 is 5,868.
  - May 31, 2013 is 6,247
  - May 31, 2012 is 6,452
  - May 31, 2011 is 6,415
- Review of all subcommittees were made.

b) Grants Subcommittee

- Subcommittee reviewed new Rubrics ensuring fair and equal judging
- Best Practices document was created by Marks. The subcommittee made changes, and approved his guidelines.
- The committee discussed the possibility of changing the criteria to encourage K-12 involvement but could not come to an agreed idea to make this work.

c) ABET Subcommittee Report

- ABET Governance has been ratified to enhance ABET decision-making and member Engagement. This will dissolve the 56 member board of directors and reconstitute as a 13 member group that includes five officers, four directors, two at-large members, a public member and the Executive Director.
- David Murphy Reviewed the current status of the succession list for ABET Representatives. Dennis O’Neal, Dean at Baylor, was contacted about serving as the board’s alternative starting in 2016 when Murphy Rolls off and Mike Brandemuehl will come on as voting director.
- Cassel reported on his ETAC Activities. He chaired one ETAC Visit and also served as PEV for one EAC Visit
- Karimi reported on the EAC Visits including a visit to Siberia, Russia.
- Filza Walters will be rolling onto the committee 7/01/2015 as the ABET TAC representative.

d) K-12/STEM Subcommittee Report

- “K-12/STEM facts” presentation will be produced and sent to SAC Members
- A best practices of K-12 will be produced to be combined with SA best practices
- Subcommittee will create two K-12 kits. One for elementary and the other for middle grade students. This will be used to request funding for ASHRAE Student Kits at the Winter Meeting. This is part of an initiative to increase K-12 Visit
- Subcommittee is also collecting data on speakers for future meetings.

e) Post High Subcommittee Report

- Student branch status and financial reports were reviewed and RVC’s will reach out to branches that have not submitted.
- Five nominations were reviewed for the Student Activities Achievement Award. Mitesh Kumar and Joe Christie/John Crockett stood out and were brought forth to the SA Committee for a vote. The committee voted unanimously for Mitesh Kumar.
- Subcommittee will review and update promotional items for College Students, ASHRAE Branches, and Student Branch Advisors.

**Student Membership**

- The total number of student members as of May 31, 2015 is 6,324
- Branches – 34 total new and pending branches in 2015-2016

PENDING STUDENT BRANCHES

Region	Student Branch	Location	Sponsor Chapter
RAL	Air University Student Branch	Islamabad, Pakistan	Northern Pakistan
RAL	Muhammad Amin Polytechnic Institute Student Branch	Punjab, Pakistan	Central Pakistan
RAL	CECOS University of IT and Engineering Student Branch	K.P. Pakistan	Northern Pakistan
II	Dalhousie Student Branch	Nova Scotia, Canada	Halifax
RAL	Gazi University Mechanical Engineering Student Branch	Ankara, Turkey	Turkish
RAL	Government Technical Training Institute Student Branch	Bahawal Nagar, Pakistan	Northern Pakistan
RAL	Institute of Space Technology Student Branch	Islamabad, Pakistan	Northern Pakistan
RAL	International Islamic University Islamabad Student Branch	Islamabad, Pakistan	Northern Pakistan
RAL	Istanbul University Mechanical Engineering Student Branch	Istanbul, Turkey	Turkish
RAL	Lahore Lead University Student Branch	Punjab, Pakistan	Central Pakistan
II	McGill University Student Branch	Quebec, Canada	Montreal
RAL	Nordic Student Branch	Denmark	Sub-Region B
X	University of Arizona Student Branch	Tucson, Arizona	Tucson
X	University of Southern California Student Branch	Los Angeles, CA	California
II	University of Calgary Student Branch	Calgary Alberta, Canada	Southern Alberta
II	Vancouver Island University Student Branch	Duncan, Canada	Vancouver Island
RAL	Yildiz Technical University Student Branch	Istanbul, Turkey	Turkish

### Design Competition Subcommittee Report

- 35 Design Competition projects were submitted this year.
- Design Competition submissions were judged. The Winners of each category are:
  - Applied Engineering Challenge Competition
    - First Place- Cal Poly San Luis Obispo
    - Second Place – Institut Teknologi Bandung
    - Third Place – University of Nebraska
    - Rising Star – NONE
  - Calculations Competition
    - First Place – University of Nebraska – Lincoln
    - Second Place - University of Central Florida
    - Third Place – Donghua University
    - Rising Star – North Carolina A&T State University
  - System Selection Competition
    - First Place – University of Nebraska
    - Second Place – California Polytechnic State University Pomona
    - Third Place – Penn State University
    - Rising Star - NONE
  - Integrated Systems and Building Designs
    - First Place – Portland State University
    - Second Place – Montana State University
    - Third Place – Lawrence Technological U.
    - Rising Star – The Catholic University of America
- Committee reviewed the 2016 Design Competition Package, Drawings, Judging Checklist, and new website verbiage. Information will be ready to be published Mid July.
- The 2015 Applied Engineering Challenge (AEC) was modified to stimulate student lead groups to find engineering issues and challenges in their local or regional communities and develop ways to solve them. This was a change suggested by David Underwood. In the true “Think Globally, Act Locally” mindset, student groups will be allowed to pick their own project, develop an engineering solution, complete the work, and report their findings as part of the competition.

### Centralized Training Subcommittee Report

- Subcommittee met Thursday to review timeline, PPT, Speakers, and Content.
- Best Practices of each Subcommittee will be shared with the Student Activities Chairs in attendance
- Doug Zentz played a major role in the implementation of this training process including but not limited to PPT development and content.
- Centralized Training was a huge success. All chairs in attendance reported that they now have a better grasp of what is expected of them from Society and felt the training

will make their chapter stronger in K-12, Grants, Design Comp, and Post High. All agreed that this much information could not be learned in a three hour class; a full day is needed.

**Other Business**

- A. ASHRAE Developing Leader Path; to create a way for a young ASHRAE member to differentiate themselves from the crowd. Members from Student Activities, YEA and Membership Promotion met to review and discuss this award. This will be finalized for approval at the winter meeting.
- B. The Chair reviewed the status of this year’s MBO
- C. The 2015-2016 PAOE points were discussed by the committee.

**Attachment A**

<b>2014-2015 MBO's Student Activities Committee – Francis Lacharité , Chair</b>			
<b>MBO #</b>	<b>Description</b>	<b>Who</b>	<b>Due</b>
<b>1</b>	<b>Create a Sustainable Design Competition</b>	Stud Design	
	a. Sustainability in incorporating the Presidential theme into the Applied Engineering Challenge component of the competition each year to the extent it is possible.		1-May-15
	b. Review the scoring criteria and rubrics in order to make it consistent between judges and have a more technical approach of the judging.		1-Sept-14
	c. Sustainability in the choice of the design competition theme. OPR selection will be structured in order to make the process quicker.		1-May-15
<b>2</b>	<b>Increase the number of K-12 school visits</b>	K-12	Ongoing
	a. Promote the STEM Champion chapter position in the student activity team trough RVC(at CRC)		
	b. Continue the promotion of classroom visitations through the RVC (at CRCs) and local chapter SA Chairs to general membership. Illustrate to membership how important and easy it is to conduct a K-12 classroom visit.		
	c. Promote the STEM award to Chapter president trough RVC (at CRC) and raise the level of awareness		
	d. Developed the high school club project in order to have a more direct impact on STEM activity. Create an etiquette guide in order to interact with minors.		

<b>3</b>	<b>Improve Senior Undergraduate Project Grant Program visibility amongst all members</b>	Grants	1-Feb-15
	a. Highlight and promote society presentation by grant recipients at society conferences		
	b. Identify and test new, creative ways to increase student contact of Grant program		
	c. Modify the scoring of the grant in order to advantage undergraduate project that affect K12 and STEM activity		20 June -15
<b>4</b>	<b>Increase number of new student branches with the goal of one new or reactivated branch per region</b>	All	Ongoing
	a. Provide RVC's with information regarding student branches that have disbanded in the past 5 years so that they can encourage chapter follow up for reinstatement.		
<b>5</b>	<b>Increase Student retention to 7.5%</b>	Post High	Ongoing
	a. Define the amount of student that transfer VS graduating member.		1 Feb 15
	b. Create a student advisor Congress to collect information and improve the quality of service to our members		1 NOV 14
	c. Improve communication and coordination through conference call and annual meeting with YEA and membership committee		
	d. Strongly promote smart start program to the students present to the Student program at the winter meeting in order to retain involved students and measure the impact of this activity on retention		Winter meeting
<b>6</b>	<b>Manage the effectiveness of the Student Activities Committee</b>	Committee	Ongoing
	a. Make each member (RVCs and Vice Chair) complete MBOs and then measure against their MBO at the winter meeting and by continuing reports		
	b. Have more preparation done prior to conference call. Agenda done at least one week in advance and send to the subcommittee in preparation for the call.		