

**Student Activities Report to Members Council  
From the meeting of June 23, 2018, Houston, TX**

Members Present

**William Simpson, Chair**  
**Adam Davis, Vice - Chair**  
**Ben Oliver, Reg II**  
**James Piscopo, Reg III**  
**Adam Parker, Reg IV**  
**Janice Means, Reg V**  
**Eric Sturm, Reg VI**  
**Vaughn Nichols, Reg VII**  
**Chris Ahne, Reg VIII**  
**Kevin Amende, Reg IX**  
**Buzz Wright, Reg X**  
**Jared Larson, Reg XI**  
**Manuel Belino, Reg XIII**  
**Zoltan Magyar, Reg XIV**  
**Michael Brandemuehl, ABET BoD**  
**Mansour Zenouzi, ABET ETAC**  
**Joe Chin, Consultant**  
**Megan Tosh, Consultant**  
**Erich Binder, BoD Ex-O**

Guest

**Mai Anh Dao, incoming Reg II RVC**  
**Jake Taylor, incoming Reg V RVC**  
**Jiajun Liao, Student Consultant**  
**Atilla Biyikoglu**  
**Mak Kampen**  
**Will Mak**  
**Long Phan**  
**Keith Yelton**  
**Nicolas Lemire**  
**Chuck Curlin**  
**Mehdi Azizkhani**  
**Kevin Summers**  
**James Curlin**  
**Ayman Eltalouny**

Staff

**Katie Thomson**

## MOTION

That Members Council create an ad-hoc committee including members from the Student Activities, YEA, and Membership Promotions committees to explore opportunities to create regional programs focused on student retention and transition.

**Background:** Region I Central New York Chapter hosted a weekend specifically for students, called a “Smart-Start Weekend”. The goal of the Smart-Start Weekend Program is to increase ASHRAE’s Student Membership retention rate. The current Student Membership retention rate is low and Society has seen a decreasing trend in this metric in recent year. The objectives of the program are to:

1. Introduce students to career paths in the HVAC&R industry
2. Educate students about ASHRAE
3. Provide networking opportunities with professionals
4. Train students on how to run a successful student branch
5. Offer basic technical training and building tours

The CNY Chapter pilot event was held in April 2017 with funding received from the Chapter Opportunity Fund (\$4,750) and money raised from company sponsors (\$5,690). The purpose of this ad-hoc subcommittee will include reviewing:

1. Which regions are receptive to adding this type of program to their schedule
2. When and where this event will take place (ie. As part of a CRC, a separate weekend, fall or spring etc.)
3. Budget analysis to determine how much funding should be allocated to such a program
4. Review of the best approach to distribute funds for this program
5. Development of guidelines for usage of these funds and expected time commitments needed for an effective program

**Vote:** 14-0-0-CNV

## REFERRED MOTION

### **Region I (Central New York Chapter) – CRC Motion 5:**

That Society create a Smart-Start Weekend Ad-Hoc Committee at the Society Level including members from the Student Activities, YEA, and Membership Promotions committees and provide \$75,000 in funding annually for the committee to distribute amongst the Regions who apply to receive the funding for a Student Focused Program at the Region's CRC (Smart-Start Weekend).

**Background:** For more details on the proposed program, please refer to the "Smart-Start Weekend Program Proposal" document attached. A short summary is provided below.

The goal of the Smart-Start Weekend Program is to increase ASHRAE's Student Membership retention rate. The current Student Membership retention rate is at 7% and Society has seen a decreasing trend in this metric in recent year. The objectives of the program are to:

- (1) Introduce students to career paths in the HVAC&R industry
- (2) Educate students about ASHRAE
- (3) Provide networking opportunities with professionals
- (4) Train students on how to run a successful student branch
- (5) Offer basic technical training and building tours

The CNY Chapter held a Smart-Start Weekend pilot event in April 2017 from funding received from the Chapter Opportunity Fund (\$4,750) and money raised from company sponsors (\$5,690). The intent of providing society level funding of \$75,000 annually to be divided between the 15 ASHRAE Regions is to incentivize Regions to include student focused programs at their annual CRC. Incentivizing Chapters will accelerate the program more rapidly throughout the Society. Based on expenses from the pilot event, it was determined that \$75,000 (\$5,000 for each Region) is appropriate funding.

The Smart-Start Weekend Ad-hoc Committees main objectives are to (1) maintain training information to provide to Region's on how to develop a Smart-Start Weekend event, and (2) to review the application process and distribute funding. The Central New York chapter has spoken with YEA, Student Activities, and Membership Promotion committees at the Annual Conference in Long Beach, and all the committees showed support of expanding the Smart-Start Weekend program. YEA and Student Activities have already nominated a representative on their committees at Long Beach to be their Smart-Start Weekend Program Liaison.

**Fiscal Impact:** \$75,000

**Vote:** The Student Activities Committee voted to defeat this motion as currently written (14-0-0-CNV)

**Comments from the Committee:** We are receptive to the ideas presented within the motion and further review in the future. However, we feel more research, whether through such means as an ad-hoc committee is required to determine:

### Action Item Summary

#### EXCOM Action Items:

Action Item	Person(s) Responsible	Due Date
Subcommittee assignments and conference call times	Adam/Subcommittee Chairs	July 2018
New Chair MBO's	Adam	Ongoing
Update the Student Activities MOP	Subcommittee Chairs and Consultant	January 2019

#### Centralized Training Action Items:

Action Item	Person(s) Responsible	Due Date
Review format and increase attendance for 2018	Centralized Training Subcommittee/Staff	June 2019

#### ABET Action Item:

Action Item	Person(s) Responsible	Due Date
Review outcome of proposed changes to accreditation criteria of HVAC&R engineering programs	ABET Subcommittee/staff	January 2019
Increase outreach to members to significantly increase the number of PEVs within ASHRAE membership with the possibility of an article in <i>Insights</i> .	ABET Subcommittee Chair	June 2019
Prepare a letter to ASCE requesting that ASHRAE be a Cooperating Society for Architectural Engineering Technology programs	ABET Subcommittee Chair/staff	January 2019
Follow up with ASHRAE's request to be a Cooperating	ABET Subcommittee Chair/staff	January 2019

Society for Mechanical Engineering and Mechanical Engineering Technology programs		
Reach out to Prof. Filza Walters to see if she is interested and pursue opportunities for her to serve as a PEV for ASCE or ASME	ABET Subcommittee Chair/staff	August 2018

K-12/STEM Action Items:

Action Item	Person(s) Responsible	Due Date
Increase the number of K-12 school visits	K-12/STEM Subcommittee	Ongoing
Promote STEM awards (Youth Outreach and Chapter K-12/STEM Leadership)	K-12/STEM Subcommittee	Ongoing
Encourage SA Chairs to complete online STEM activity report	RVCs	Ongoing
Develop new pop-pop steamboat STEM kit	K-12/STEM Subcommittee	January 2019

Post High Action Items:

Action Item	Person(s) Responsible	Due Date
Provide RVC's with information regarding inactive student branches so that they can encourage chapter follow up for reinstatement	Staff	October 2019
Finalize schedule for Atlanta student program	Post High Subcommittee/Staff	October 2018
Develop Post-High content for Student Zone	Post High Subcommittee/Staff	June 2019

Encourage collaboration between SMACNA and ASHRAE student branches	Post High Subcommittee/Staff	ongoing
Continuously improve marketing material for student members	Post High Subcommittee/Staff	ongoing
Develop questionnaire to send out to international groups to get feedback on program for students	Consultant	January 2019
Roll out ASHRAE version listserv to allow SBAs to communicate with each other to share ideas, programming, what worked and didn't etc.	Post High Subcommittee/RVCs/Staff	July 2018

Grants Action Items:

Action Item	Person(s) Responsible	Due Date
Improve Undergraduate Program Equipment Grant visibility amongst all members	Grants Subcommittee	Ongoing for 2018-19 round
Utilize FormSite for online application form	Grants subcommittee/Staff	August 2018
Investigate potential for travel grant/Leadership U type mentoring program for students	Grants subcommittee	January 2019

Design Competition Action Items:

Action Item	Person(s) Responsible	Due Date
Release 2020 Design Competition Details early	Design Competition Subcommittee/Staff	January 2019
Modify judging rubric to include	Design Competition	July 2018

additional clarification on scoring	Subcommittee	
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1) Subcommittee Reports

a) Executive Committee

Student Members

- The total number of student members as of May 31, 2018 is 7,593
  - May 31, 2017 is 8,093
  - May 31, 2016 is 7,213.
  - May 31, 2015 is 6,324
  - May 31, 2014 is 5,868.
- Review of all subcommittees were made.
- The Chair reviewed the status of this year's MBOs – see attachment A.
- The Student Activities MOP edits have been combined and will be reviewed.

b) Grants Subcommittee

- Subcommittee reviewed online application form and judging criteria for 2018-19 round
- The Grants subcommittee plans to investigate new grant opportunities with possible student travel grant or Leadership U type mentoring program for students.

c) ABET Subcommittee Report

- David Cassel provided an update on the Engineering Accreditation Commission and Mansour Zenouzi provided an update on the Engineering Technology Accreditation Commission.
- The program criteria have been submitted to the ABET Engineering Technology Accreditation Commission and will be on the agenda at their July 2018 meeting.
- A letter was sent by Jeff Littleton to ASME requesting that ASME invite ASHRAE to be a Cooperating Society for Mechanical Engineering and Mechanical Engineering Technology programs. The request is expected to be considered at their meetings in July 2018.
- In an effort to gauge interests among ASHRAE members, the subcommittee discussed the need to increase outreach to members to significantly increase the number of PEVs within ASHRAE membership with the possibility of an article in *Insights*.
- The subcommittee will develop some text about ASHRAE's involvement in ABET for the ASHRAE Student Zone website.
- The subcommittee discussed ASCE requesting that ASHRAE be a Cooperating Society for Architectural Engineering Technology programs. Brandemuehl will prepare a letter to ASCE requesting that ASHRAE be a Cooperating Society for Architectural Engineering Technology programs.
- It was discussed that there are no alternates for the ASHRAE representatives on EAC or ETAC. While the terms of the current representatives extend for two more years, it is time to start identifying prospective commissioners. Thomson will reach out to Prof.

Filza Walters to see if she is interested and pursue opportunities for her to serve as a PEV for ASCE or ASME.

d) K-12/STEM Subcommittee Report

- Staff provided an update on the activity report, kit requests, and K-12/STEM Chapter Leadership Awards
- The new Sling Pyschrometer STEM Kit is complete and will be tested at Centralized Training.
- New Pop-Pop Steamboat STEM Kit is being developed with Steve Sill (Reg I) leading.
- Continue to develop partnership with STEM Scouts.
- Sub-committee develop content for Centralized Training and CRC training to promote how the STEM Scouts partnership could work.
- The subcommittee discussed the development of additional kits while also continuing to focus on promoting youth outreach to regions/chapters

e) Post High Subcommittee Report

- Most student branch status reports have been submitted and RVC's will reach out to branches that have not submitted.
- Four nominations were reviewed for the SBA of the Year Award. The committee voted unanimously for Professor Balkrushna Shah from the Nirma University Student Branch in India.
- Subcommittee reviewed Chicago Student Program and proposed changes for the 2019 Winter Conference in Atlanta.
- Subcommittee will review and update Post-High content on Student Zone.
- Discussed possibility of allowing trade apprentices to be student members.
- SBA listserv has been finalized and will be sent to advisors to allow better communication.
- Student Membership
  - The total number of student members as of May 31, 2018 is 7,593 (6.18% decrease from May 2017)
  - Branches – 27 pending branches bringing the 2017-2018 total to 47 new branches

Region	Student Branch	Chapter	Location
XIV	Dublin Institute of Technology (DIT) Student Branch	Ireland	Dublin, Ireland
III	Pittsburgh Technical College (PTC) Student Branch	Pittsburgh	Oakdale, PA
XI	University of Washington Bothell Student Branch	Puget Sound	Bothell, WA
XII	Universidad del Valle (Univalle) Student Branch	Colombia	Cali, Colombia
XII	Escuela Politecnica Nacional Student Branch	Ecuador	Quito, Ecuador
RAL	Jayawantrao Sawant College of Engineering (JSCOE) Student Branch	Pune	Hadapsar, India
XII	Universidad Politecnica Salesiana (UPS) - Cuenca Student	Ecuador	Cuenca, Ecuador



	Branch		
RAL	Bhartiya Skill Development University (BSDU) Student Branch	India	Jaipur, India
XII	Facultad de Ingeniería de la Universidad de Buenos Aires (FIUBA) Student Branch	Argentina	Buenos Aires, Argentina
XII	Goias Student Branch	Brasil	Anapolis, Goias, Brasil
XII	Guayaquil Student Branch	Ecuador	Guayaquil, Ecuador
XIV	Nebrija University Student Branch	Spain	Madrid, Spain
XIV	Universidad Politécnica de Madrid (UPM) Student Branch	Spain	Madrid, Spain
RAL	Swedish College of Engineering and Technology - Rahim Yar Khan (SCET - RYK)	Central Pakistan	Rahim Yar Khan, Pakistan
XIII	Lyceum of the Philippines University-Cavite Student Branch	Philippines	General Trias, Cavite, Philippines
XIV	TEI of Sterea Ellada Student Branch	Hellenic	Psachna, Greece
XII	ArchTech – Labaut SP Student Branch	Brasil	Sao Paulo, Brazil
XII	ING Universidad de Chile Student Branch	Chile	Santiago, Chile
XIII	Rizal Technological University Student Branch	Philippines	Mandaluyong City, Philippines
VIII	Houston Community College Student Branch	Houston	Houston, TX
RAL	HVAC Karabuk Student Branch	Turkish	Karabuk, Turkey
XII	Electromecanica Bolivia Student Branch	Argentina	Santa Cruz, Bolivia
XIII	University of Macau Student Branch	Macao	Taipa, Macau, China
XII	Volcano Student Branch	Brasil	Guatemala City, Guatemala
RAL	National Institute of Technology Srinagar Student Branch	India	Srinagar, India
RAL	Government Advance Technical Training Centre (GATTC) Peshawar Student Branch	Northern Pakistan	Peshawar, Pakistan
RAL	Birla Institute of Technology (BIT) Student Branch	ASHRAE Falcon	Ras-Al-Khaimah, United Arab Emirates

### Design Competition Subcommittee Report

- 63 Design Competition projects were submitted this year.
  - Design Calculations – 31
  - System Selection – 8
  - ISBD – 16
  - Applied Engineering Challenge - 8
- 33 Design Competition submissions were judged at Society Level with six considered as Rising Stars. The Winners of each category were selected and will be notified in early August.

- Information for the 2019 Design Competition has been published on the website.
- Discussed outreach to several schools who have placed well several years in a row. These schools and faculty advisors should be congratulated and encouraged to submit for other competitions.
- The 2019 competition website was reviewed and it was agreed that the judging rubric and previous winning reports would be removed to encourage creativity in future submissions. The registration form will also be updated to ask registrants to enter team name to better track teams that are registered.
- The goal is to release the 2020 Design Competition information in January 2019 with discussions ongoing regarding location and building type. The subcommittee is awaiting feedback from President-elect regarding the scope for the Applied Engineering Challenge.

**Attachment A**

<b>2017-2018 MBO's Student Activities Committee</b>			
<b>Bill Simpson, Chair</b>			
<b>MBO #</b>	<b>Description</b>	<b>Who</b>	<b>Due</b>
<b>1</b>	<b>Improve committee member involvement and committee operations</b>	All	
	a. Each member (RVCs and Vice Chair) shall complete MBOs and then measure against their MBO at the winter meeting and by continuing reports		October 2017 <i>Ongoing</i>
<b>2</b>	<b>Expedite publication of Design Competitions</b>	Design Comp and Consultant	
	a. Complete all 2019 design competitions in collaboration with incoming society president's theme and publish to website in time for southern hemisphere school year		Winter Meeting 2018 <i>Complete</i>
	b. Investigate feasibility of live, head to head competition possibly for AEC		Summer Meeting 2018 <i>Complete</i>
<b>3</b>	<b>Continue to grow the Grants program</b>	Grants	
	a. Increase number of grant applications by 5%		Winter Meeting 2018 <i>Complete</i>
	b. Investigate new opportunities to expand the Undergraduate Program Equipment Grant		Summer Meeting 2018 <i>Ongoing</i>
<b>4</b>	<b>Increase the number of K-12 school visits</b>	K-12/STEM	
	a. 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 by performing a hands-on activity		Ongoing
	b. Consider development of new STEM Kits		Summer Meeting 2018 <i>Complete</i>
	c. Clarify relationship with STEM Scouts		Winter Meeting 2018 <i>Complete</i>
	d. Increase number of K-12/STEM Leadership Award recipients to 14 chapters		Summer Meeting 2018 <i>Complete (12)</i>

	e. Complete “gamification”		Winter Meeting 2018 <i>Complete</i>
<b>5</b>	<b>Increase collaboration with and exposure to our growing international student membership</b>	Post High and Consultant	
	a. Investigate opportunities to incorporate President Olesen’s initiative for collaboration between student branches in North America and beyond.		Summer Meeting 2018 <i>Ongoing</i>
	b. Investigate feasibility for international student program		Summer Meeting 2018 <i>Complete</i>
<b>6</b>	<b>Continue to engage students and grow student membership</b>	Post-High and Vice Chair	
	a. Increase the number of new student branches by 8%		Summer Meeting 2018 <i>Complete</i>
	b. In collaboration with MP and YEA, determine appropriate metrics for tracking student conversion and establish a growth goal		Summer Meeting 2018 <i>Ongoing</i>
	c. Maintain student branch status reporting at greater than 90% and review reports		Summer Meeting 2018 <i>Ongoing</i>
<b>7</b>	<b>Develop student-friendly area on ASHRAE’s Student Zone website</b>	K-12/STEM and Post-High	
	a. Develop K12/STEM area		Summer Meeting 2018 <i>Complete</i>
	b. Develop Post-High area		Summer Meeting 2018 <i>Ongoing</i>
<b>8</b>	<b>Increase understanding and exposure of ASHRAE accreditation program</b>	ABET	
	a. Increase ASHRAE PEVs		Summer Meeting 2018 <i>Ongoing</i>
	b. Review and develop new program criteria for college level HVAC programs		Summer Meeting 2018 <i>Complete</i>
<b>9</b>	<b>Provide more quality training for SA chairs</b>		

	a. Increase SA chair attendance at Centralized Training by 20% - Vice Chair	Vice Chair	Summer Meeting 2018 <i>Incomplete (no change)</i>
	b. Track SA chair attendance at CRC training – Vice Chair w/Consultant	Vice Chair w/ Consultant	Summer Meeting 2018 <i>Complete</i>
	c. Implement recently developed CRC training	Consultant	Summer Meeting 2018 <i>Complete</i>
	d. Investigate feasibility for international Centralized Training	Vice Chair w/ Consultant	Summer Meeting 2018 <i>Ongoing</i>
<b>10</b>	<b>Improve opportunities for Post-High students</b>	Post-High w/Vice Chair and Consultant	
	a. Remodel Student Program to integrate with general ASHRAE conference schedule with top quality programs and presenters		Winter Meeting 2018 <i>Complete</i>
	b. Review Central NY SmartStart Program and investigate expansion beyond Region I, II, III with possible integration to CRC		Winter Meeting 2018 <i>Ongoing</i>
	c. Monitor success of Adapt Building EQ pilot programs and promote to Student Branches		Summer Meeting 2018 <i>Complete</i>
<b>11</b>	<b>Develop relationships with synergistic societies</b>	Consultant	
	a. Pilot collaborative relationship with SMACNA		Winter Meeting 2018 <i>Ongoing</i>
<b>12</b>	<b>Improve recognition of ASHRAE volunteers</b>		
	a. Get at least 5 nominations for SBA of the Year	Post-High	Summer Meeting 2018 <i>Complete (4)</i>
	b. Get at least 5 nominations for Youth Outreach – K12/STEM	K-12/STEM	Winter Meeting 2018 <i>Incomplete</i>
	c. Get at least 5 nominations for Student Activities Achievement Award	Post-High	Winter Meeting 2018 <i>Incomplete</i>