

Student Activities Report to Members Council
From the meeting of January 28, 2017, Las Vegas, NV

Members Present

Russell Marcks, Chair
Bill Simpson, Vice Chair
Steve Sill, Region I
Ben Oliver, Region II
James Piscopo, Region III
Megan Tosh, Region IV
Janice Means, Region V
Eric Sturm, Region VI
Vaughn Nichols, Region VII
Chris Ahne, Region VIII
Kevin Ainsworth, Region IX
Adam Davis, Region X
Jared Larson, Region XI
Florentino Roson Rodriguez, Region, XII
Sam Hui, Region XIII
Michel Hayek, R-A-L
Mike Brandemuehl, ABET BOD
Mansour Zenouzi, ABET ETAC
Robin Bryant, SAC Consultant
Joe Chin, SAC Consultant
Mr. Erich Binder, BOD, ExO

Guest

Stephanie Mages
Chris Reilly
Kevin Summers
Adam Parker
Allison Kwok
Samad Gharehdaghi
Mitesh Kumar
Carrie Kelty
Caleb Haynes

Staff

Katie Thomson

Referred Motions

Wichita Chapter – Motion 4g (10/14/2016):

That ASHRAE Society explore options to become a national sponsor of Science Olympiad.

Background: Science Olympiad is a K-12 Science competition that was founded in 1982 in Delaware & Michigan and has grown to become the largest Science Competition in the United States with over 7,500 competing schools in all 50 states. Competitions begin with local invitational then begin in earnest at regional events before moving to State Tournaments and culminate in the top 60 teams competing in the National Tournament which is held at rotating Universities throughout the country.

Competitions consist of over 46 events in each tournament covering subjects such as engineering, robotics, physics, biology, chemistry, geology, etc. Many participants go on to careers in Engineering and other science related fields. Establishing the ASHRAE brand at K-12 level helps grow awareness of our industry in students who are already interested in science related activities and should help in getting a number of them to pursue the HVAC industry in college and beyond. Awareness is key at this age. With ASHRAE trying to expand its brand and be involved in STEM education this is a great program to become involved in. Sponsorships usually are made based on monetary donations but can also be made with partnership pledges of support such as volunteers. With the large base of ASHRAE members across the country the latter should be an easy way to help. Current National sponsors include: Lockheed Martin, DuPont, Texas Instruments and other companies like Ace Hardware and even organizations like the National Marine Society. There are many levels of sponsorships down to specific event sponsorships or even donations of prizes or scholarships.

Jennifer Kopach is a contact with the organization which is headquartered near Chicago, IL. Sean Miller of the Wichita Chapter has been involved in the regional, state and national levels of competitions for over 20 years and can help provide introductions to the National office if needed.

Fiscal Impact: Depends on level of sponsorship that ASHRAE is comfortable with after discussion with Science Olympiad.

Note from Members Council Staff: According to the website, the Science Olympiad is U.S. only and is run state-by-state or region-by-region: <https://www.soinc.org/background>. Apparently Science Olympiad is just starting to reach out for support and seems to be doing so at the local level, mostly with Science Olympiad alumni: https://www.soinc.org/support_so. Perhaps ASHRAE Chapters could become involved at the local level. It may be possible for chapters to use the Chapter Opportunity Fund for this type activity.

Response to Members Council: **MOTION Passed 15-0-0, CNV**

Committee Response: The sub-committee endorses the motion and has asked staff to explore the sponsorship options available

Argentina Chapter – Motion 4n (10/14/2016):

That the Student Activities Committee translate the (1) student branch manual for operation, (2) instructions how to become a student branch advisor (SBA), (3) instructions about how to fill out the forms and apply to become an SBA, (4) “what supporting documentation is required to be produced and sent with the application,” into the Spanish and Portuguese languages, and posted on the ASHRAE website, beginning July 1, 2017.

Background: We are a global society and we need to continue to serve the needs to our global community and make it easier to communicate to our prospective members. Student members are our future. Our growth is very big in the Latin American demographic so we need to make it easier to SBA’s to apply and understand their job description. This makes it easier for SBA’s in South America and Europe that speak Spanish and Portuguese who are not fluent in English and/or to apply for their position, especially when they are not already ASHRAE members.

Fiscal Impact: Cost of translation estimated at \$5,000.

Committee Response: The sub-committee endorses the motion and understands the need for the documentation to be translated. SAC questions the stated cost and have asked staff to explore the costs involved and the budget available. Dependent upon those costs and budget, it may not be possible to complete translation by July 1.

Chennai Chapter – Motion 4q (10/14/2016):

That Society apports a specific part of the Student Project and Scholarship fund to the Student chapters of RAL.

Background: ASHRAE spends a significant amount for Student projects and scholarships. RAL has the highest growing student community in ASHRAE.

The Academic year in most of the countries of RAL are slightly different from that of the USA. Hence the timelines and also the criteria specified are not suitable for the students in these countries. Hence the move to apportion a specific part of the grant to students of RAL. Criteria suitable to student chapters of RAL to be framed and decided by DRC and his/her team. This will benefit a large student community of RAL which would not only popularize & HVAC & R but also help the industry to attract best students to join.

Fiscal Impact: Nil.

Committee Response: The committee needs further information regarding this motion. As it’s currently written, the intent is not clear. The committee would like the Chennai chapter to reword the motion using the ASHRAE verbiage to clearly state what student project means, what apportion of it should be allocated to RAL, and what role the DRC and student chapters would have. Also, since scholarship money is not within the purview of SAC, we request that the scholarship committee review that portion of this motion.

Central Indiana Chapter – Motion 4d (10/14/2016):

That the SmartStart Program be expanded to all postsecondary graduates within one year of their graduation.

Background: The goal is to entice new graduates to join ASHRAE and become lifelong members.

Fiscal Impact: Estimating 500 new members would join per year which would provide approximately \$101,000 of additional membership revenue per year once they are paying the regular Associate Membership dues. There are approximately 5,000 student members. We estimate we could obtain 10% in new SmartStart members.

Note from Members Council Staff: It was noted that students tend not to join ASHRAE after graduation. Perhaps by offering the SmartStart Program, ASHRAE could possibly maintain a student's membership for life.

Response to Members Council: **MOTION Defeated 0-17-0, CNV**

Committee Response: The Student Activities Committee does not recommend expanding the SmartStart program to recent graduates who were not Student Members of ASHRAE. The SmartStart program is an incentive for students to join ASHRAE prior to graduation & encourages their membership. The SAC also understands that many student members view the SmartStart program as a 'reward' of sorts for being involved with ASHRAE during their collegiate years. Expanding the program to those who were never student members would eliminate the incentive to join and the perception of gratitude by Society for their student service.

This committee does, however, acknowledge that this is not the first time a motion requesting this expansion has come to Members Council. There are many members of our industry who do not learn about ASHRAE until after they have graduated college and want the opportunity to participate in SmartStart while they are still a recent graduate & struggling to pay full member dues. Affiliate membership does not give them the opportunity to volunteer or receive the Handbook and these members are disadvantaged relative to their peers who had awareness of ASHRAE in college. It is our recommendation the YEA Committee explore options to address the needs of these young members outside of modifying membership grades and options.

Argentina Chapter – Motion 4m (10/14/2016):

That Members Council addresses the membership application process for Student Branch Advisors, beginning July 1, 2017.

Background: This motion will use the existing membership application that is already available in multi-language format, and adds an SBA option. It will make it easier for SBA's to apply for their position; the SBA will need to fill out this application; provide the required documentation; and mail or email to HQ for approval. This motion is intended to simplify the process.

It should be noted that the existing process is not working; especially when SBA's are not already ASHRAE members. It is difficult and time consuming for prospective SBA's to make international telephone calls, especially when they are "out-of-country" and non-native English speaking to make arrangements to start a student branch. One thing we forget sitting in the USA that when we leave the borders of the USA, an international phone call, even if we use a toll free number can cost a member up

to \$1-2.00 per minute; when you are a prospective SBA, that can be an obstacle. This motion will streamline our procedures and allow the process to work better.

Fiscal Impact: None.

Note from Members Council Staff: The online application has the SBA checkbox but the application is not in Spanish.

Response to Members Council: The post-high subcommittee proposed that a solution to this motion would be to use FormSite to create an SBA membership application similar to the process for SmartStart membership. An action item was assigned to staff and this should be complete by July 1, 2017.

Action Item Summary

EXCOM Action Items:

Action Item	Person(s) Responsible	Due Date
Start looking for successors in subcommittee chair positions and send the names to Russ	Committee Chairs	June 2017
Develop RVC SA training and CRC training	Centralized Training Subcommittee/Joe Chin	June 2017

Grants Action Items:

Action Item	Person(s) Responsible	Due Date
Review application form and scoring rubric guidelines	Grants Subcommittee/Staff	June 2017

Develop guidelines for application and scoring rubric to provide clarity	Student Activities Committee/ Staff	December 2017
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ABET Action Item

Action Item	Person(s) Responsible	Due Date
Identify the ASHRAE body to approve proposed updates to program criteria	Brandemuehl and Binder	June 2017
Identify ASHRAE student branches affiliated with academic programs for which ASHRAE has ABET program responsibility	Zenouzi and Thomson	June 2017
Develop a Forum for the Long Beach meeting program to solicit Society input and to explore the broader issues of accreditation in the HVAC industry	Brandemuehl	June 2017
Explore an article in Insights or the Journal to solicit Society input.	Brandemuehl	June 2017

K-12/STEM Action Items:

Action Item	Person(s) Responsible	Due Date
Promote STEM kits to Chapters	K-12/STEM Subcommittee	Ongoing
Make improvements to Student Zone	K-12/STEM Subcommittee/Staff	June 2017
Raise awareness of ASHRAE's K-12/STEM activities and encourage chapters to complete activity report	Student Activities Committee/Staff	Ongoing

Continue to explore gamification	Chris Ahne/Staff	Ongoing
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Post High Action Items:

Action Item	Person(s) Responsible	Due Date
Deactivate branches that do not submit annual report	Staff	June 2017
Develop an online SBA membership application form via FormSite	Staff	June 2017
Review post high material/website and make improvements	Post-High subcommittee/Staff	June 2017

Design Competition Action Items:

Action Item	Person(s) Responsible	Due Date
Finalize 2018 Design Competitions	Design Competition Subcommittee	May 2017
Ensure the 2018 competition information (drawings and OPR) is uploaded to the website by July 1st.	RVCs/Staff	July 2017
Release the 2019 design competition information early to allow southern hemisphere schools to compete	Design Competition Subcommittee and Student Activities Consultant	January 2019

1) Subcommittee Reports

a) Executive Committee:

Student Members

- The total number of student members as of December 31, 2016 is 8,246. (12.8% increase)
 - December 31, 2015 is 7,312
 - December 31, 2014 is 6,072
 - December 31, 2013 is 6,271
 - December 31, 2012 is 6,143
 - December 31, 2011 is 6,482
 - December 31, 2010 is 6,315
- *These numbers are of active students and students in grace
- Centralized training will be held at the same location as MP CT on the Sunday of the Annual Meeting.
- RVC training material is being developed along with CT and CRC materials.

b) Grants Subcommittee

- 46 applications have been submitted.
- Budget for this year is \$128,000. In that budget the top 2 schools travel expenses must be included.
- 5 Judges scored the applications, the top 26 schools out of 46 will receive a grant not exceeding \$5,000 for a total of \$118,200 out of \$201,508 requested from the 46 applicants.
- Some applications had questionable expenses so staff will ask for clarification. If they cannot make the project work with the cut backs, then then an alternate from a list of reserves will be chosen.
- The grants will be announced in February and the subcommittee agreed to invite the two top schools (Ryerson University and Oklahoma State University) to the next winter meeting to give presentations to the students attending.
- Continuous improvement of the scoring rubric for grants and application form
- Implement strategies for raising the profile of grants, increasing the number of applications.
- Develop guidelines for application and scoring rubric to provide clarity on what is allowed and how to evaluate the applications.

c) ABET Subcommittee Report

- The subcommittee has been tasked with developing updates to the ASHRAE program criteria for "Air Conditioning, Refrigerating, Heating and Ventilating Engineering Technology and Similarly Named Programs", which have not been revised in the memory of anyone associated with the subcommittee.
- Mansour Zenouzi and David Cassel reported on their activities in the past year.

d) K-12/STEM Subcommittee Report

- The K-12/STEM Subcommittee recommended to Honors and Awards that the Youth Outreach Award be given to James Martin. The award needs to be promoted by RVCs to ensure one nomination per region next year.
- Honorary Student Membership Cards are being developed for volunteers to leave with students after a school visit.
- Discussed website improvements for the Student Zone for ASHRAE members and K-12 students.
- Continuous improvement to promoting K-12/STEM activities at Regional and Chapter levels.
- Remind chapters to assign a K-12/STEM Champion as indicated on CIQ (MBO Item)
- In an effort to rename the K-12 subcommittee to better reflect our global mission, we ask RVCs from RAL, Region XII, and Region XIII to poll chapter SACs to ask the following questions.
 - How would you describe or what name do you have for education from typical ages 5-18.
 - Does your nationality have an alternative to STEM (Science, Technology, Engineering, Math)? Please provide details of name or focus.
- Continue to explore gamification by scheduling a web meeting with Stride Academy, Erich Binder, Steve Comstock, and Joyce Abrams. The meeting would have a demo of the software, expectations by both parties, and next steps.

E. Post High Subcommittee Report

- The Student Program for the Winter Meeting is Attachment A.
- There were zero nominations for the Student Activities Achievement Award. RVCs need to promote the award more next year.
- Student branch status and financial reports which are deemed mandatory for a branch to be considered “active” will be enforced again this year. This will improve the information of active/inactive branches.
- BEQ course has been developed and RVCs should recommend Student Branches who could pilot the course at their university.

Student Membership

- a. Total Numbers – 8,246 (includes students in grace) as of December 31, 2016
- b. Branches – 31 New Branches

Region	Student Branch	Location	Sponsor Chapter
RAL	Marathwada Mitra Mandal's College of Engineering (MMCOE), Pune	Pune, India	Pune
XII	Belo Horizonte	Belo Horizonte, Minas Gerais, Brazil	Brasil

XII	AR ASH SUSTENABLE		Argentina
VI	Illinois Institute of Technology	Chicago, IL	Illinois
RAL	Annamalai University	Chidambaram, India	Chennai
XII	LEED 1	Buenos Aires, Argentina	Argentina
RAL	University College of Engineering, Nagercoil	Nagercoil, India	Chennai
RAL	University of Bahrain	Essa Town, Bahrain	Bahrain
RAL	Heriot-Watt University Dubai	Dubai, UAE	ASHRAE Falcon
X	University of California, Davis	Davis, CA	Sacramento Valley
XII	Universidad Nacional de Avellaneda (UNDAV)	Buenos Aires, Argentina	Argentina
RAL	Amity University Dubai	Dubai, UAE	ASHRAE Falcon
I	Binghamton University	Binghamton, NY	Twin Tiers
XIII	Technological and Higher Education Institute of Hong Kong (THEi)	Hong Kong, China	Hong Kong
XIII	Far Eastern University (FEU) Institute of Technology	Manila, Philippines	Philippines
IX	Ozarks	Springfield, MO	Ozarks
RAL	Rajagiri School of Engineering and Technology	Chittethukara, India	Chennai
XIII	Technological Institute of the Philippines- Quezon City	Manila, Philippines	Philippines
XII	Porto Alegre	Porto Alegre, Brasil	Brasil
V	Indiana university - Purdue University, Indianapolis (IUPUI)	Indianapolis, Indiana	Central Indiana
RAL	Manipal University Jaipur	Jaipur, India	India

XII	Valencia College	Orlando, FL	Central Florida
VI	College of Dupage (COD)	Glenn Ellyn, IL	Illinois
RAL	Government College of Technology (GCT) Swabi	Swabi, Pakistan	Northern Pakistan
RAL	Karunya University	Tamil Nadu, India	Chennai
RAL	Faiz-ul-Islam Training Institute Faizabad	Rawalpindi, Pakistan	Northern Pakistan
RAL	University of Engineering and Technology Kala Shah Kaku (UET KSK)	Lahore, Pakistan	Central Pakistan
RAL	Faiz-ul-Islam Training Institute Faizabad	Lahore, Pakistan	Central Pakistan
RAL	Rochester Institute of Technology (RIT)- Dubai University	Dubai, UAE	ASHRAE Falcon
RAL	British University in Egypt	Cairo, Egypt	Cairo
XIII	Taylor's University	Subang Jaya, Malaysia	Malaysia

Design Competition Subcommittee Report

- 200 students have registered for the Design Competition (Up from 120 at this time last year)
- Approximately 140 schools are represented.
- Representatives from the 14 winning teams attended the 2017 Winter Meeting Student Program to accept awards.
- The sub-committee reviewed the current progress of the writing of the 2018 Design Competition. Dates were set by the subcommittee to ensure the submissions are uploaded on the website by July 1st.
- The sub-committee will explore incorporating developing economies into the AEC.
- The sub-committee will attempt to release the 2019 design competition information early enough (by January 1) to allow southern hemisphere schools to compete.

Other Business

- A. The Chair reviewed the status of this year's MBO's (attachment B).
- B. The 2017-18 PAOE points were discussed by the committee and revisions are in attachment C.

Attachment A: 2017 Student Program



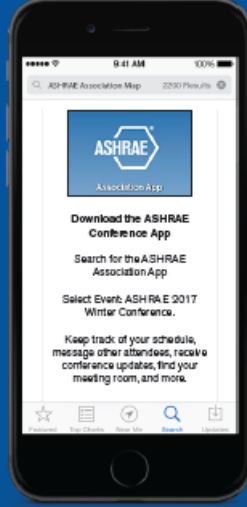
**A Mini JUMPathon:
Jump Start Your Innovation**

Sunday, January 29
Mini JUMPathon
(no charge but space is limited)
2:00 - 3:00

The U.S. Department of Energy (DOE) JUMP initiative invites you to the ASHRAE Mini JUMPathon, held in conjunction with the Student Program. Innovators will brainstorm on solutions to interesting technical challenges facing the building HVAC&R industry today. These solutions, upon commercialization, could realize significant energy savings and enhanced comfort in buildings.

Through JUMP, DOE and some of its national laboratories are engaging with industry partners to develop crowdsourcing campaigns to gather ideas that address specific technical challenges and accelerate the next generation of energy-efficient building technologies. During the JUMPathon, the JUMP team will be on-site to facilitate discussions around solutions for the calls for innovation and demonstrate use of the JUMP platform. At the end of the JUMPathon, innovators will be encouraged to register and submit their ideas.

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Questions?
Katie Thomson
Assistant Manager of Student Activities
kthomson@ashrae.org

2017 Winter Conference Student Program
Jan. 28 - Feb. 1
Las Vegas, NV




Saturday, January 28	Sunday, January 29	Monday, January 30	Tuesday, January 31
<p>1:30 – 3:00 Student Welcome & Orientation Augustus III/IV</p> <p>Russell Marks and Megan Tosh will explain what to expect while at the conference, and break down the technical sessions so you will know exactly which ones to attend. A panel of YEA (Young Engineers in ASHRAE) members will provide further insight into the conference.</p> <p>3:15 – 5:00 Plenary Session Palace IIB/III</p> <p>Award-winning rocket scientist, Adam Steltzner is recognized as one of NASA's most brilliant engineers and most unique individuals. At the plenary, he will speak about the power of human curiosity, the importance of fostering a culture of collaborative innovation and proves that with the "right kind of crazy," we can significantly expand boundaries and achieve the impossible.</p> <p>The Plenary Session also features presentations from the Honors and Awards programs, including the First Place winners of the Student Design Competition.</p> <p>8:00 – 6:30 Student/YEA Mixer Augustus III/IV</p> <p>Mix and mingle with ASHRAE YEA members, meet new friends, gain insight into life after college, and enjoy free food & drinks.</p> <p>6:30 – 8:30 Welcome Party, Caesars Palace (\$75 ticket)</p> <p>Students are encouraged to attend.</p>	<p>ASHRAE Student Program Milano I-IV</p> <p>9:00 – 9:15 Student Program Overview</p> <p>9:15 – 9:30 Welcome from Society President Tim Wentz</p> <p>9:30 – 9:45 CIBSE/ASHRAE Graduate of the Year Award/ASHRAE-CAR Award</p> <p>9:45 – 10:00 Grant Presentation <i>Campus Audit Squads for Energy (CASE) Studies, University of Oregon: Nis Tjahjono & Sang Pham</i></p> <p>10:00 – 10:45 Thinking Like an Engineer and Societal Challenges by Victor Goldschmidt, Professor Emeritus at Purdue University</p> <p>10:45 – 11:30 Group Activity</p> <p>11:30 – 12:15 Lunch</p> <p>12:15 – 12:30 Grant Presentation <i>Civil Control Training Boards, Sinaloa Community College: Paul Hawkins & Kenneth Woolan</i></p> <p>12:30 – 1:30 Panel Discussion</p> <p>1:30 – 2:00 Design Competition Awards, <i>fast-track: Steve SF & Russell Marks</i></p>	<p>Recommended Technical Sessions</p> <p>8:00 – 9:30</p> <ul style="list-style-type: none"> Seminar 20: Fresh Insights On Building Automation: A Seminar By The YEA Group <p>9:45 – 11:00</p> <ul style="list-style-type: none"> Seminar 31: Zero Net Energy Buildings: Modeled Predictions And Outcomes <p>11:00 – 12:00</p> <ul style="list-style-type: none"> Conference Paper Session 12: IAQ In The Airline Industry Seminar 34: What Fire And Safety Engineers Have Learned Since The MGM Grand Fire In Las Vegas And What Are Present Day Fire And Life Safety Codes And Applications <p>Student Branch Activities</p> <p>10:00 – 12:00 Student Congress Florentine II</p> <p>A chance for student branch officers to provide guidance on future programs and events, and suggestions to improve membership benefits.</p> <p>10:00 – 12:00 SBA Congress Florentine I</p> <p>Student Branch Advisors are invited to discuss student activities with Regional Student Activities Chairs.</p>	<p>Recommended Technical Sessions</p> <p>8:00 – 9:30</p> <ul style="list-style-type: none"> Seminar 35: Considerations In Hydronic Heating System Design And Performance <p>9:45 – 11:00</p> <ul style="list-style-type: none"> Seminar 42: Saving Water (And Energy) With Solid Geothermal Design And Operation <p>11:15 – 12:45</p> <ul style="list-style-type: none"> Conference Paper Session 16: Building Operation And Performance With Sustainability In Mind College Of Fellows Debate: Codes And Standards Help, Alternatively, Do They Inhibit Excellence? <p>1:30 – 3:00</p> <ul style="list-style-type: none"> TC14 Special Seminar: Want A Cutting Edge Career? Be In Control! An Open Session For YEA Members. 

Attachment B: MBO's

2016-2017 MBO's Student Activities Committee Russell Marcks, Chair			
MBO #	Description	Who	Due
1	Review Design Competition	Student Design	
	a. Develop new Applied Engineering Challenge project and incorporate the Presidential Theme.		Winter Meeting 2017
	b. Review / Modify the 'Openness' of the AEC		Winter Meeting 2017
	c. Determine a general judging process for the AEC		Summer Meeting 2017
2	Increase the number of K-12 school visits	K-12	
	a. Promote the STEM Champion chapter position in the student activity team through RVC (at CRC)		Continuing
	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 by performing a hands-on activity		Continuing
	c. Continue development of STEM Activity kits		Continuing
	d. Clarify relationship with STEM Scouts and develop relationship if appropriate		Deactivated
	e. Make connections with at least one other organization with STEM related activities in each Region to create a partnership and combined effort		Continuing

3	Improve Senior Undergraduate Project Grant Program visibility amongst all members	Grants	
	a. Highlight and promote the Grants program by inviting two grant recipients to present at the Winter Conference Student Program		Winter Meeting 2017
	b. Identify and test new, creative ways to increase student contact of Grant program		Continuing through 2016-2017
	c. Concentrate on promoting the grants program to two-year schools		Winter Meeting 2017
4	Increase number of new student branches with a goal of one new or reactivated branch per region	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.		September 2016
	b. Review the current materials available to SA chairs to help with establishing new branches. Discuss with chairs that have recently established branches and have them provide feedback on any additional materials or information that may be required		Winter Meeting 2017
5	Increase Student retention to 7.5%	Post High	Ongoing
	a. Work with MP to determine tracking process with SmartStart (i.e.: Exit Interview) to help define the number of students that transfers vs. graduates.	Post High with MP	Summer Meeting 2017
	b. Continue to collaborate with YEA and MP. Communication and coordination through conference calls and face to face meetings at the winter and annual meeting with YEA and membership committee		Continuing through 2016-2017
	c. Review current promotional material (including posters and video) and develop new material that will be attractive to students.	Post High K12	Winter Meeting 2017

	d. Along with MP and YEA, complete the "Developing Leader Path" to assist young and new members with their involvement in ASHRAE		Continuing through 2016-2017
6	Student Activities Committee General	Committee	Ongoing
	a. Each member (RVCs and Vice Chair) shall complete MBOs and then measure against their MBO at the winter meeting and by continuing reports		August 2016
	b. Ensure current branches submit their reports		May 2017
	c. Modify K-12 Subcommittee name including various awards, etc.	K-12	Winter
	d. Work with ABET subcommittee to better integrate them into SAC and to recruit more ASHRAE PEVs	SAC Post High ABET	
	e. Promote ASHRAE to other degree programs such as Architectural, Arch Eng, Civil, Construction Mgt, Energy, etc.	Post High	Continuous
	f. Promote HVAC industry and better support Community College and Technical school involvement	Post High K-12	Continuous
	g. Promoting BEQ throughout colleges & universities via Design Competitions, etc.	Post High Dsgn Comp	Continuous
	h. Promote all SA Awards to Chapters through RVC (at CRC). Concentrate on K-12/STEM Leadership Award and Youth Outreach Award and raise the level of awareness	All	Continuing
	i. Complete the Student Branch Advisor / Student Branch Officer Best Practices guide	Post High	Winter Meeting 2017
	j. Review and develop new program criteria for college level HVAC programs	ABET	Winter Meeting 2018

7	Training	Excom	Summer meeting
	a. Review the effectiveness of the newly developed SA centralized training. Modify the presentation and training as required		Continuous
	b. Consider two tracks for CT (New vs. Returning)		Winter Meeting 2017
	c. Increase the attendance at SA Centralized training by 30%. This will require support from the DRCs & RVCs to stress the importance of the training the SA Chair		Summer Meeting
	d. Redefine the CRC training to have a more hands on and applied format customize to each region.		Consultant assigned to review

Attachment C: PAOE Recommendations

- 50 points for conducting a joint K-12 STEM activity with representatives of other societies. (50 points per joint activity, 300 points maximum)
- 50 points for sponsoring a student member to attend the ASHRAE Winter Meeting (300-point maximum)
- Change all occurrences of “K-12” in the K-12 category to K-12/STEM
- Provide description of the K-12/STEM Leadership Award: * This is a pass through award presented at the CRC by the RVC-SA. Criteria for the award is for all Chapter Officers plus the K-12/STEM Champion to attend and participate in at least one K-12/STEM event. If the chapter does not have a K-12/STEM Champion, then the SAC chair must attend.