

Student Activities Report to Members Council
From the meeting of January 23, 2016, Orlando, FL

Members Present

Joe Chin, Vice Chair
Russell Marcks, Vice Chair
Steve Sill, Region I
Robyn Ellis, Region II
Stephanie Mages, Region III
Megan Tosh, Region IV
Janice Means, Region V
Jason Atkisson, Region VI
Vaughn Nichols, Region VII
Bill Simpson, Region VIII
Kevin Ainsworth, Region IX
Michael Nafzgar, Region XI
Robin Bryant, Region, XII
Sam Hui, Region XIII
Hassan Sultan, R-A-L
William Murphy, ABET BOD
Amir Karimi, ABET EAC
Filza Walters, ABET TAC
Mr. Erich Binder, BOD, ExO

Guest

Bill Walter
Mike Brandemuehl
Atilla Biyikoylu
Bahadirhon Tari
Francis Lacharite
Chris Kelly
Christian Robledo
Kevin Bauer
Kevin Summers
Karine Leblanc
Edward Tsui
Mark Miller
Fiona Martin
Nohad Bouolani
Saleh Elzein
Bogram Setty
Jordan Miller
Alijandro Rivas
Junke Wang
Oluwaseyi Ogunsola
Jennifer Leach
Chris Gray
Tiffany Abruzzo
Dunstan Macaulay

Staff

Katie Thomson

Referred Motions

Region II (Hamilton Chapter) – Motion 14 (11/5/2015)

That Society enrich the SmartStart Program (SSP) by adding reduced conference fees to the current reduced membership fees. Target SSP conference fee would be \$25 to \$100 for the first 3 years after graduation.

Background: Student membership fees are only \$25, then later they get reduced fees being recent graduates as a transition period (Smart start program). Student conference fee is \$25 as well, applying the same concept, reduced fees for recent graduates as a transition period is requested to be added to SmartStart Program. The Smart Start Program allows recent graduates to pay a reduced membership fee for the first three years (\$20, \$74, \$95 respectively). The target from the program is to encourage student members to stay involved early in their professional career years while maintaining a more recent-graduate friendly fee for membership. Retaining these young members for further years by showing them what ASHRAE can do for them, what ASHRAE really is and utilizing their energy seems like a missed resource. ASHRAE is not only the Handbook they get in the mail, one trip to an ASHRAE Society conference would be much more beneficial enriching their knowledge, their ASHRAE experience and retain them for further years. To encourage these recent graduates, a reduced fee of \$25 to \$100 is requested for the ASHRAE Society conferences for the first three years after graduation.

Fiscal Impact: Increase Conference attendees but for lower fees, possibly increasing revenue.

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

Committee Response: The sub-committee endorses the motion. It was discussed that this could be tied to a YEA-Student mentorship where the recipient of the reduced rate would be assigned a student member to mentor during the conference.

Region XII (Argentina Chapter) – Motion 16 (11/5/2015)

That ASHRAE translate the SmartStart membership program into Spanish and Portuguese, starting 1/1/16.

Background: Many Spanish speaking members need to be able to understand this form in their native language.

Fiscal Impact: None.

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

Committee Response: Sub-committee confirms requested action is complete but advises that the documents should also be posted under the student and general membership pages

Region I (Connecticut Chapter) – Motion 29a (11/6/2015)

That the following responsibility be added to Section 2.6, Student Activities Chair, of the Manual for Chapter Operations:

- xii. Collaborate with the Membership Promotion Committee and Young Engineers in ASHRAE Committee to contact and encourage graduating student members to continue their membership through the SmartStart program. Contact graduating students toward the end of the college school year, preferably in March or April, prior to graduation.

Background: The success of transferring Student members to the Associate member grade through the SmartStart program is communicating to students the benefits and membership savings offered through this program. Adding this responsibility to the Student Activities (SA) Chair will promote this communication. Contacting graduating students in March or April, prior to graduation is imperative in maintaining contact with students in the event their registered email address is their school email address. Upon graduation, student members may not have access to their student email account. Also, Section 2.11, Membership Promotion Committee, Part L and Section 2.19, Young Engineers in ASHRAE (YEA) Committee, Part D of the MCO highlights this collaboration. Adding this text to Section 2.6 completes the directive for all three Chairs to collaborate with each other.

Fiscal Impact: Increase membership dues collected. Exact fiscal impact is undetermined.

Secretary's Note: Student Activities Committee to determine if wording in statement is correct to fit the committee's need before publishing in the Manual for Chapter Operations. (Make any edits needed.)

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

Committee Response: The sub-committee endorses this motion. The timeline of March and April should be revised to state "two to three months prior to the Universities graduation dates" to address students that are graduating mid-year.

Region IV (Atlanta Chapter) – Motion 30(11/6/2015)

That ASHRAE Staff shall notify the Regional Vice Chair – Student Activities of the respective region whenever a scholarship application is received for that region effective February 1, 2016.

Background: Currently, the RVCs are not notified about scholarship applications that the Foundation has received within their region. Most regions have specific scholarships endowed that they want to award to applicants from their region. If the RVCs know that there is an applicant from their region, the RVCs can make additional efforts to assure their scholarship is awarded. Without being notified about the applicants, scholarships may not be awarded, such as Region IV's Bennie Bootle was not awarded in 2014-2015.

Fiscal Impact: There is no fiscal impact.

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

Committee Response: Sub-committee endorses the motion. The SA committee will have a representative attend the Scholarship Trustees meeting.

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 Joe	Committee Chairs	Complete
Centralized training subcommittee to develop a CRC program that supports CT rather than simply repeat the same information	Centralized Training Subcommittee	June 2016

Grants Action Items:

Action Item	Person(s) Responsible	Due Date
Review application form and scoring rubric guidelines	Grants Subcommittee/Staff	June 2016
Raise profile of grants to increase number of applications	Student Activities Committee/ Staff	December 2016

ABET Action Item

Action Item	Person(s) Responsible	Due Date
Ensure the ETAC and EAC commission seats are filled.	Staff	March 2016

K-12/STEM Action Items:

Action Item	Person(s) Responsible	Due Date
Promote STEM kits to Chapters	K-12/STEM Subcommittee	Ongoing
Compile information for the SA Best Practice/ Guidelines into a single page or double sided guide	Stephanie Mages and Robin Bryant	June 2016
Make improvements to Student Zone	K-12/STEM Subcommittee/Staff	June 2016
Explore options for K-12/STEM Plenary Speaker	Staff	June 2016
Raise awareness of ASHRAE's K-12/STEM activities	Student Activities Committee/Staff	Ongoing

Post High Action Items:

Action Item	Person(s) Responsible	Due Date
Deactivate branches that do not submit annual report	Staff	June 2016
Review post high material/website and make improvements	Post-High subcommittee/Staff	June 2016

Design Competition Action Items:

Action Item	Person(s) Responsible	Due Date
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Finalize 2017 Design Competitions	Design Competition Subcommittee	May 2016
Set dates for deadlines	Design Competition Subcommittee	Complete
Ensure the submissions are uploaded on the website by July 1st.	RVCs/Staff	July 2016

1) Subcommittee Reports

a) Executive Committee:

Student Members

- The total number of student members as of December 31, 2015 is 7,312. (24.5% increase)
 - 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
 - December 31, 2009 is 5,730
- *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.

b) Grants Subcommittee

- 38 applications have been submitted.
- Budget for this year is \$115,000. In that budget the top 2 schools travel expenses must be included.
- 5 Judges scored the applications, the top 24 schools out of 39 will receive a grant not exceeding \$5,000 for a total of \$111,067 out of \$161,797 requested from the 38 applicants.
- The grants will be announced in February and the subcommittee agreed to invite the 2 top schools (Sinclair Community College and University of Oregon) 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.

c) ABET Subcommittee Report

- William Murphy noted the change in the ABET board structure and the meeting logistics and reviewed the current status of the succession list for ABET representatives.
- Nominations have been submitted for the EAC and ETAC commissions. Murphy will complete his term on the ABET board at the October 2016 meeting, when Brandemuehl will come onto the board of delegates, with O'Neal as the board alternate.
- Amir Karimi and David Cassel reported on their activities in the past year.

d) K-12/STEM Subcommittee Report

- The K-12 STEM Leadership Award needs to be revised to have the requirements be the officers and the K-12 STEM Champion in lieu of SA chair.
- The K-12/STEM Subcommittee recommended to Honors and Awards that the Youth Outreach Award be given to Eric Heinrich.
- The committee discussed that the due date for the Youth Outreach award shall be revised to December 1.
- Stephanie Mages and Robin Bryant to compile information for the SA Best Practice/ Guidelines into a single page or double sided guide.
- Possible speakers for the Plenary were discussed. The subcommittee asked for staff support in securing an engaging STEM speaker.
- \$1,000 of the Student Activities budget will be used to promote the STEM kits.
- Discussed website improvements for the Student Zone
- PAOE recommendations were made and partnerships improvements were discussed.
- Continuous improvement to promoting K-12/STEM activities at Regional and Chapter levels.

E. Post High Subcommittee Report

- The Student Program for the Winter Meeting is Attachment A.
- The Subcommittee voted 5-0-3 to recommend that the full SA committee recommend Ather Siddiqui to the Honors and Awards committee for receipt of the Student Activities Achievement Award.
- Student branch status and financial reports which are deemed mandatory for a branch to be considered "active" will be enforced this year. This will improve the information of active/inactive branches.
- All Post-High material to be reviewed and improvements to website regarding how to establish a new student branch.

Student Membership

- a. Total Numbers – 7,312 (includes students in grace) as of December 31, 2015
- b. Branches – 22 New Branches 2016-2017

Region	Student Branch	Location	Sponsor Chapter
RAL	Amity University	Uttar Pradesh, India	India
XII	Federal Center of Technological Education Celso Suckow da Fonseca (CEFET Maracana)	Rio di Janeiro, Brazil	Brazil
XIII	Swinburne University of Technology	Sarawak, Malaysia	Malaysia
XIII	Tarlac State University	Tarlac, Philippines	Philippines
VI	University of Missouri	Columbia, MO	St Louis
RAL	University of Petroleum and Energy Studies (UPES)	Uttarakhand, India	India
RAL	Poornima College of Engineering	Jaipur, India	India
RAL	Istanbul Arel University	Istanbul, Turkey	Turkish
XIII	Adamson University	Manila, Philippines	Philippines
RAL	Marmara University	Istanbul, Turkey	Turkish
V	University of Evansville	Evansville, IN	Evansville
RAL	National Institute of Technology, Karnataka (NITK)	Surathkal, India	Bangalore
RAL	Quaid-e-Awam University College of Engineering, Science & Technology (QUCEST)	Larkana, Pakistan	Pakistan
XI	Shoreline Community College	Shoreline, WA	Puget Sound
XI	Spokane Community College	Spokane, WA	Inland Empire
XI	Oregon State University	Corvallis, OR	Oregon
XII	CLIMA University of Santiago, Chile (USACH)	Santiago, Chile	Chile
RAL	MIT College of Engineering	Pune, India	Pune
RAL	COMSATS Institute of Information Technology	Islamabad, Pakistan	Northern Pakistan

RAL	Fauji Foundation Technical Training Center	Rawalpindi, Pakistan	Northern Pakistan
RAL	TEI (Technological Educational Institute of Western Macedonia) of Western Macedonia	Kozani, Greece	Hellenic
XIII	Harbin Institute of Technology	Harbin, China	

Design Competition Subcommittee Report

- 120 students have registered for the Design Competition (Up from 106 at this time last year)
- Approximately 75 schools are represented.
- Representatives from the 14 winning teams attended the 2016 Winter Meeting Student Program to accept awards.
- The sub-committee reviewed the current progress of the writing of the 2017 Design Competition. Dates were set by the subcommittee to ensure the submissions are uploaded on the website by July 1st.
- The sub-committee can incorporate the Presidential Theme but incorporating request of the incoming President for using the BEQ is going to be difficult. The AEC was designed for students to be creative and work a design that can be built or utilized.
- The sub-committee reviewed some of the questions received for the 2016 competition and discussed how to incorporate these questions back into the 2017 competition for increase clarity of the competitions.

Other Business

- A. ASHRAE Developing Leader Award; to create a way for a young, ASHRAE member to differentiate themselves from the crowd. Student Activities, YEA and Membership Promotion discussed this award and will further the development.
- B. The Chair reviewed the status of this year's MBO's (attachment B).
- C. The 2015-2016 PAOE points were discussed by the committee and revisions in attachment C.

Attachment A: 2016 Student Program

Sunday, January 24



Student Tour (\$10 ticket)
Orange County Convention Center
2:30 – 4:30

The Orange County Convention Center (OCCC) is the largest LEED Gold Certified convention center in the world and the primary public convention center for the Central Florida region. The center currently ranks as the second largest convention center in the United States. The OCCC consists of two buildings joined together by a covered pedestrian sky-bridge. Solar panels on the roof of the South Concourse provide 1 MW of power.

Join us for a mini-seminar and facility tour that will give participants a quick look at the massive scale of equipment required to run the OCCC. With over 7.1 million square feet of building space, it takes a lot to keep 1.4 million visitors comfortable during the 200 client events hosted here each year. The tour will be broken into four groups of 30.

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Questions?
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ASHRAE Winter Conference Student Program

January 23-27, 2016




Student Guide		ASHRAE 2016 Winter Conference	
Saturday, January 23	Sunday, January 24	Monday, January 25	Tuesday, January 26
<p>1:30 – 3:00 Student Welcome & Orientation Orlando III</p> <p>Joe Chin and Bill Simpson 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 members will provide further insight into the conference.</p> <p>3:15 – 5:00 Plenary Session Orlando III</p> <p>Laura Schwartz, White House director of events for the Clinton Administration, appears regularly as an international television commentator. At the plenary she will speak about how giving back today can make a difference in your world and in your organization.</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>5:00 – 6:30 Student/YEA Mixer Orlando III</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, SeaWorld (\$55 ticket) Students are encouraged to attend.</p>	<p>ASHRAE Student Program Orlando III</p> <p>7:30 – 8:30 Career Counseling <i>(Limited, by reservation only)</i></p> <p>9:00 – 9:15 Student Program Overview</p> <p>9:15 – 9:30 Welcome from Society President David Underwood</p> <p>9:30 – 9:45 CBSE/ASHRAE Graduate of the Year Award/Student Branch Advisor of the Year Award/ASHRAE-CAR Award</p> <p>9:45 – 10:00 Grant Presentation</p> <p>Stirling Engine Micro CHP, University of Windsor: Sara Athasan, Nam King</p> <p>10:00 – 10:45 Technical Talk by Susanna Hanson, Trane Application Engineer</p> <p>10:45 – 11:30 Group Activity</p> <p>11:30 – 12:15 Lunch</p> <p>12:15 – 12:30 Grant Presentation:</p> <p>Development of a laboratory solar refrigerator, University of Algarve: Claudia Nunes, Lauren Bento</p> <p>12:30 – 1:30 Panel Discussion/Words of Wisdom</p> <p>1:30 – 1:55 Design Competition Awards, facilitated by Michael Nafzgar and Joe Chin</p> <p>1:55 – 2:30 Student Tour: Bill Simpson & Megan Soutwell</p> <p>Student Tour (\$10 ticket) Orange County Convention Center 2:30 – 4:30</p>	<p>Recommended Technical Sessions</p> <p>8:00 – 9:30 Seminar 21: Demand Response Using Variable Refrigerant Flow Systems</p> <p>9:45 – 10:45 Seminar 28: Introduction to Biomass Heating and Hydronics for Young Engineers</p> <p>11:00 – 12:00 Seminar 34 (Sponsored by Student Activities): Hydronic Systems: Doing More With Less</p> <p>2:15 – 3:45 Seminar 36: HVAC Pumps: New ECM Motor and Control Technologies</p> <p>Student Branch Activities</p> <p>10:00 – 12:00 Student Congress Lake Down B 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 Lake Down A 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 Seminar 38: Cooling with the Sun: Solar PV Cooling</p> <p>9:45 – 11:00 Technical Paper Session 5: Building Modeling Simulation</p> <p>11:15 – 12:45 Seminar 51: Electronic Cigarettes: An Emerging Issue for ASHRAE</p> <p>1:00 – 3:00 Seminar 53: Fellows Debate: Commissioning Is Not Part of the Construction Contractor's Turnover Package</p> <p>3:15 – 4:45 Seminar 54: Cold Climate Building Design Guide Best Practice</p> 

Attachment B: MBO's

2015-2016 MBO's Student Activities Committee – Joe Chin , Chair			
MBO #	Description	Who	Due
1	Create a Sustainable Design Competition	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-15
	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
2	Increase the number of K-12 school visits	K-12	Ongoing
	a. Promote the STEM Champion chapter position in the student activity team through 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 through 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.		
3	Improve Senior Undergraduate Project Grant Program visibility amongst all members	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

4	Increase number of new student branches with the 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.		
5	Increase Student retention to 7.5%	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 improved the quality of service to our members		Complete
	c. Improve communication and coordination trough conference call and annual meeting with YEA and membership committee		Ongoing
	d. Strongly promote smart start program to the student present to the Student program at the winter meeting in order to retain involved student and measure the impact of this activity on retention		Winter meeting
6	Manage the effectiveness of the Student Activities Committee	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.		

Attachment C: PAOE Recommendations

Remove the maximum points on K-12 Activities

Add 25 Points for Youth Outreach award nomination

Revise “Points doubled for 6-8th grade activities” to “Points doubled for 5th-8th grade activities”

Add 25 Points for assigning a K-12/STEM Champion by October 1 (assigned by RVC)