



Shaping Tomorrow's  
Built Environment Today

# Centralized Training Student Activities

## **Introduction and Overview**

Kellie Huff, Phoenix, AZ  
Student Activities Chair



# Code Of Ethics

- In this and all other ASHRAE meetings, we will act with honesty, fairness, courtesy, competence, inclusiveness and respect for others, which exemplify our core values of excellence, commitment, integrity, collaboration, volunteerism and diversity, and we shall avoid all real or perceived conflicts of interests.

## Diversity Commitment

- ASHRAE is committed to providing a welcoming environment. Our culture is one of inclusiveness, acknowledging the inherent value and dignity of each individual. We proactively pursue and celebrate diverse and inclusive communities understanding that doing so fuels better, more creative and more thoughtful ideas, solutions and strategies for the Society and for the communities our Society serves. We respect and welcome all people regardless of age, gender, ethnicity, physical appearance, thought styles, religion, nationality, socio-economic status, belief systems, sexual orientation or education.



# Today's Agenda

- Introductions
- Overview
- K-12
- Post-High
- Grants
- Design Competition
- Student Branches
- Running Reports
- PAOE
- Awards
- Best Practices/Important Dates
- Resources
- Wrap Up



# Welcome and Introductions

First, some virtual housekeeping items:

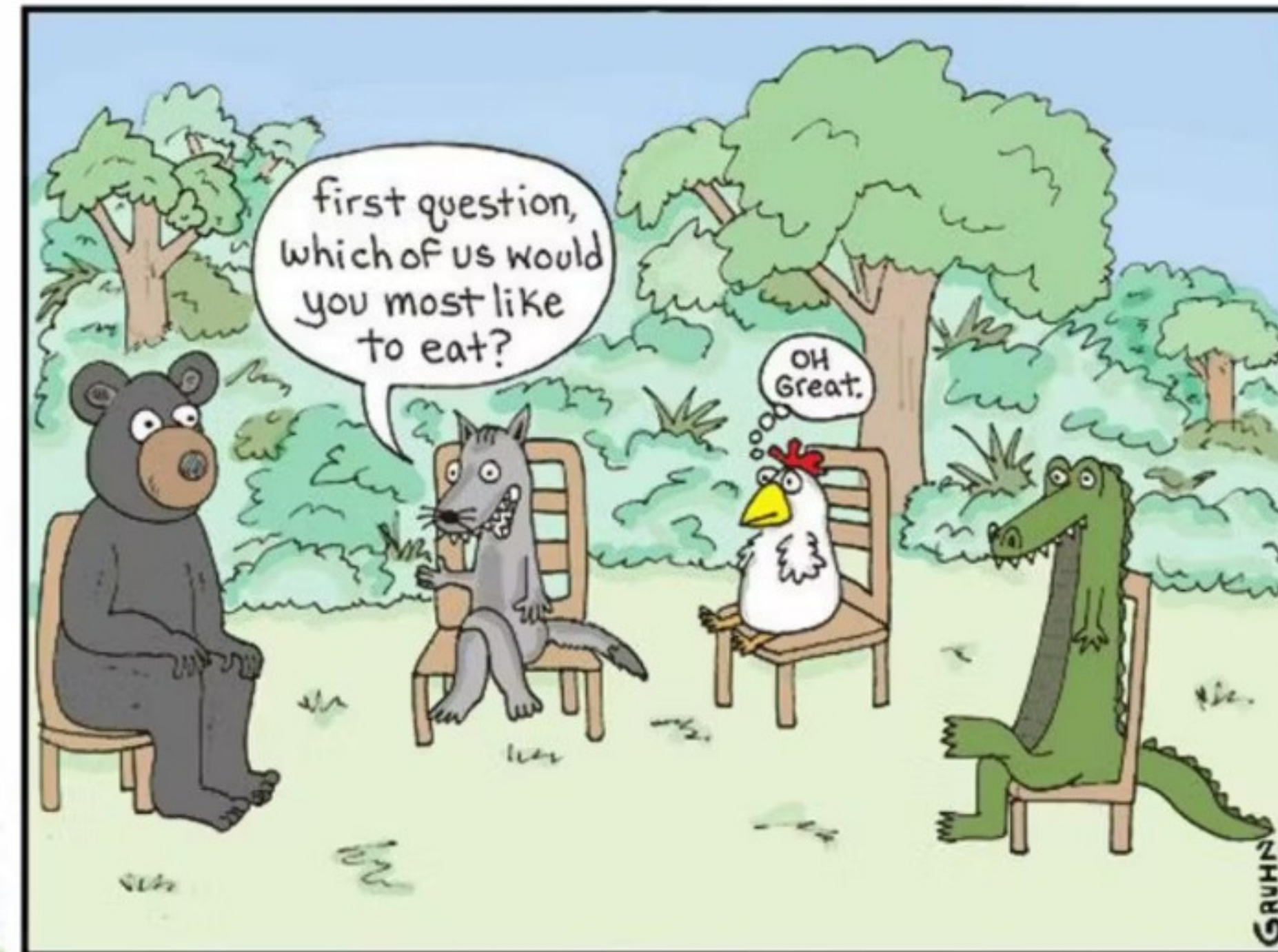
- This is being recorded
- Everyone will be muted
- Interactive!



Now, let's get to  
know each  
other!

[www.menti.com](https://www.menti.com)

3629 9418



Ice breakers in the wild



# Introduction



***Kellie Huff***  
***Chair,***  
***Student Activities***  
***Committee***  
kellie@region.org



***Shaun Nienhueser***  
***Vice Chair,***  
***Student Activities***  
***Committee***  
shaun.nienhueser@hdrinc.co  
m



# Regional Vice Chair

## REGION I

**Ashley Keller**  
*K-12 Sub  
Committee Chair*



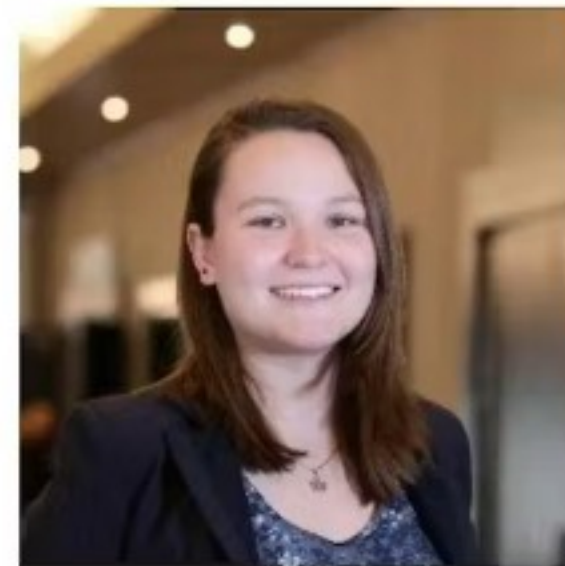
## REGION IV

**Natalie MacDonald**  
*Post High*



## REGION II

**Elizabeth Primeau**  
*Post High Sub  
Committee Chair*



## REGION V

**Bob Snow**  
*Design Comp Sub  
Committee Chair*



## REGION III

**Andy Hobson**  
*Post High*



## REGION VI

**Kevin Summers**  
*Grants Sub  
Committee Chair*





# Regional Vice Chair

## REGION VII

***Nancy McBee***  
***K-12 Sub***  
***Committee***



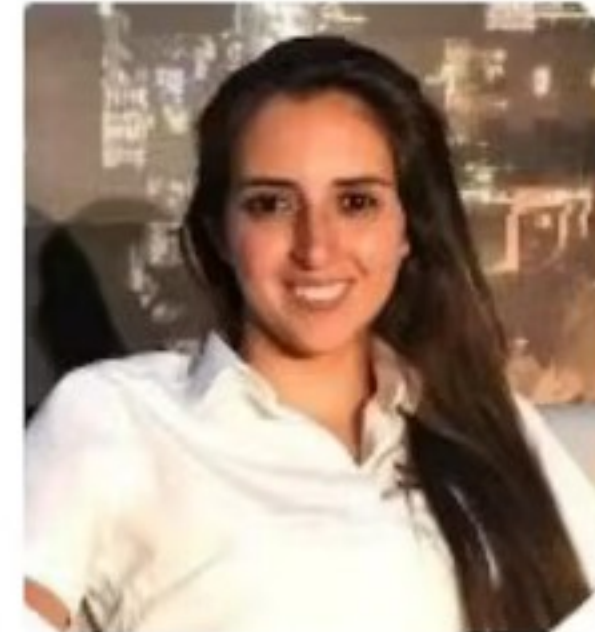
## REGION X

***Omar Rojas***  
***Grants Sub***  
***Committee***



## REGION VIII

***Jacky Hay***  
***K-12 Sub***  
***Committee***



## REGION XI

***Justin Albo***  
***Post High Sub***  
***Committee***



## REGION IX

***Corey Chinn***  
***Design Comp Sub***  
***Committee***



## REGION XII

***Juliana Trigo***  
***Grants Sub***  
***Committee***





# Regional Vice Chair

## REGION XIII



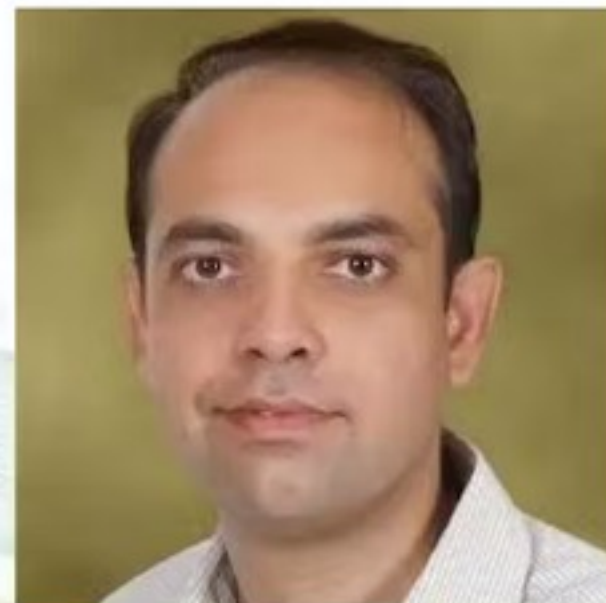
***FJ Wang***  
***Design Comp Sub***  
***Committee***

## REGION XIV



***Alkis Triantafyllopoulos***  
***Design Comp Sub***  
***Committee***

## REGION RAL



***Yash Shukla***  
***Grants Sub***  
***Committee***



# Regions

Region	Chapter #	Chapter	Region	Chapter #	Chapter	Region	Chapter #	Chapter	Region	Chapter #	Chapter	Region	Chapter #	Chapter	Region	Chapter #	Chapter
I	001	BOSTON	III	027	HAMPTON ROADS	VI	054	SAINT LOUIS	VIII	154	SOUTH TEXAS	X	144	SIERRA DELTA	XII	142	SINGAPORE
I	003	RHODE ISLAND	III	028	RICHMOND	VI	055	MADISON	VIII	155	MEXICO CITY	X	155	TRI COUNTY	XII	143	HONG KONG
I	004	CONNECTICUT	III	029	LEHIGH VALLEY	VI	107	NE WISCONSIN	VIII	166	MONTEREY	XI	017	MANITOBA	XII	149	MALAYSIA
I	006	LONG ISLAND	III	125	LA CROSSE AREA	VI	115	MISSISSIPPI VALLEY	VIII	173	GUADALAJARA	XI	018	SOUTHERN ALBERTA	XII	157	TAIWAN
I	007	NEW JERSEY	III	134	ANTHRACITE	VI	123	CEADAR VALLEY	VIII	208	NORTHWEST ARKANSAS	XI	019	INLAND EMPIRE	XII	167	PHILIPPINES
I	008	NEW YORK	IV	029	NORTH PIEDMONT	VII	055	LOUISVILLE	IX	053	KANSAS CITY	XI	020	NORTHERN ALBERTA	XII	170	THAILAND
I	009	NORTHEAST	IV	030	SOUTHERN PIEDMONT	VII	056	MEMPHIS	IX	072	EL PASO	XI	021	BRITISH COS. LMBIA	XII	183	INDONESIA
I	010	CENTRAL NEW YORK	IV	031	SOUTH CAROLINA	VII	057	BIRMINGHAM	IX	074	UTAH	XI	022	JAPAN	XII	194	SOUTH KOREA
I	011	ROCHESTER	IV	032	ATLANTA	VII	058	MOBILE	IX	075	NEBRASKA	XI	023	PUGET SOUND	XII	195	MACAO
I	012	NIAGARA FRONTIER	IV	097	GREENVILLE	VII	059	NEW ORLEANS	IX	076	WICHITA	XI	102	OREGON	XII	196	HELLENIC
I	013	CHAMPLAIN VALLEY	IV	106	TRIANGLE	VII	060	BATON ROUGE	IX	077	NEW MEXICO	XI	122	DANUBE	XII	207	PORTUGAL
I	014	TWIN TERS	IV	113	CHARLESTON	VII	061	MISSISSIPPI	IX	093	SOUTH DAKOTA	XI	145	SPAIN	XII	210	CYPRUS
I	015	BI-STATE	V	038	CLEVELAND	VII	068	NASHVILLE	IX	127	BLACK HILLS AREA	XI	139	IRELAND	XII	211	UK MIDLANDS
I	016	GRANITE STATE	V	039	COLUMBUS	VII	069	EAST TENNESSEE	IX	131	BIG SKY	XI	172	SAUDI ARABIA	XII	212	UK SOUTH-EAST
II	013	QUEBEC	V	040	CINCINNATI	VII	114	TENNESSEE VALLEY	IX	135	IDAHO	XI	034	ARGENTINA	XII	213	ISRAELI
II	014	MONTREAL	V	041	DAYTON	VII	128	BLUEGRASS	IX	148	PIKES PEAK	XI	036	CHILE	XII	214	INDIA
II	015	OTTAWA VALLEY	V	042	TOLEDO	VII	130	NORTHWEST FLORIDA	IX	150	COZASKS	XI	064	WESTERN INDIA	XII	215	SAUDI ARABIA
II	016	TORONTO	V	043	CENTRAL INDIANA	VII	133	EVANSVILLE	X	081	SACRAMENTO VALLEY	XI	110	PARAGUAY	XII	216	LEBANON
II	017	HAMILTON	V	044	DETROIT	VII	192	WESTERN MICHIGAN	X	082	GOLDEN GATE	XI	111	AFGHANISTAN	XII	217	WESTERN INDIA
II	018	HALFAY	V	045	AKRON/CANTON	VII	065	NORTHERN INDIANA	X	083	SAN JOAQUIN	XI	112	AFGHANISTAN	XII	218	WESTERN INDIA
II	019	LONDON	V	046	DALLAS	VII	066	FORT WAYNE	X	084	SOUTHERN CALIFORNIA	XI	113	AFGHANISTAN	XII	219	WESTERN INDIA
II	020	WINDSOR	V	120	MINNESOTA	VII	067	WISCONSIN	X	085	HOUSTON	XI	114	AFGHANISTAN	XII	220	WESTERN INDIA
III	021	PHILADELPHIA	VI	048	WISCONSIN	VII	068	ILLINOIS	X	092	CENTRAL OKLAHOMA	XI	115	AFGHANISTAN	XII	221	WESTERN INDIA
III	022	CENTRAL PENNSYLVANIA	VI	049	ILLINOIS	VII	069	CENTRAL ILLINOIS	X	101	NE OKLAHOMA	XI	116	AFGHANISTAN	XII	222	WESTERN INDIA
III	023	PITTSBURGH	VI	050	MINNESOTA	VII	070	MINNESOTA	X	102	FORT WORTH	XI	117	AFGHANISTAN	XII	223	WESTERN INDIA
III	024	BALTIMORE	VI	051	MINNESOTA	VII	071	MINNESOTA	X	103	WEST TEXAS	XI	118	AFGHANISTAN	XII	224	WESTERN INDIA
III	025	NATIONAL CAPITAL	VI	052	MINNESOTA	VII	072	MINNESOTA	X	104	EAST TEXAS	XI	119	AFGHANISTAN	XII	225	WESTERN INDIA

REGION XI

102 ANCHORAGE

REGION X

108 HONOLULU

REGION XII

196 SANTIAGO

REGION XI

015 EDMONTON

REGION VI

016 CALGARY

REGION IX

127 RAPID CITY

REGION X

084 LOS ANGELES

REGION VIII

061 SAN ANTONIO

REGION VII

062 SAN ANTONIO

REGION IV

063 SAN ANTONIO

REGION III

064 SAN ANTONIO

REGION II

065 SAN ANTONIO

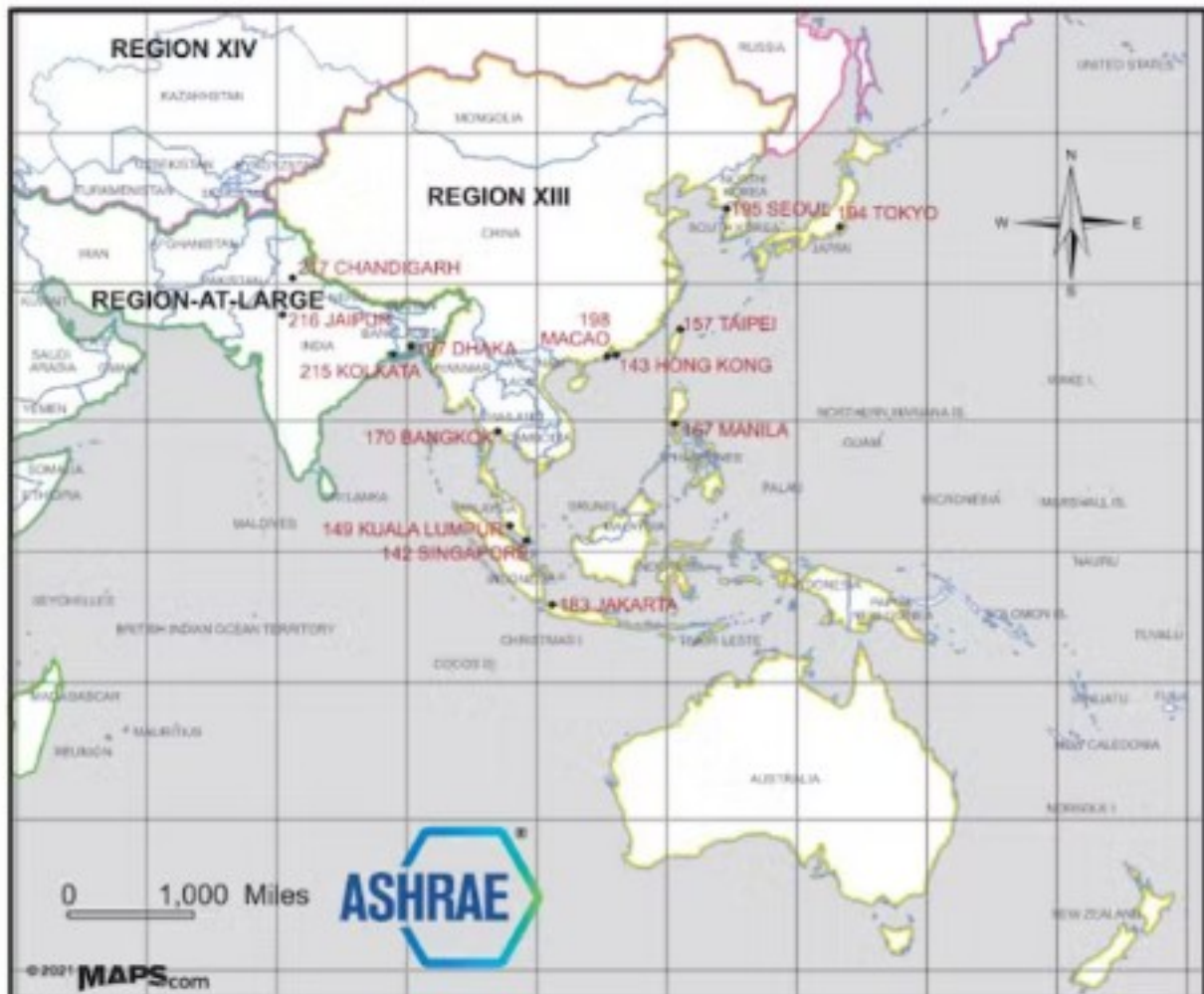
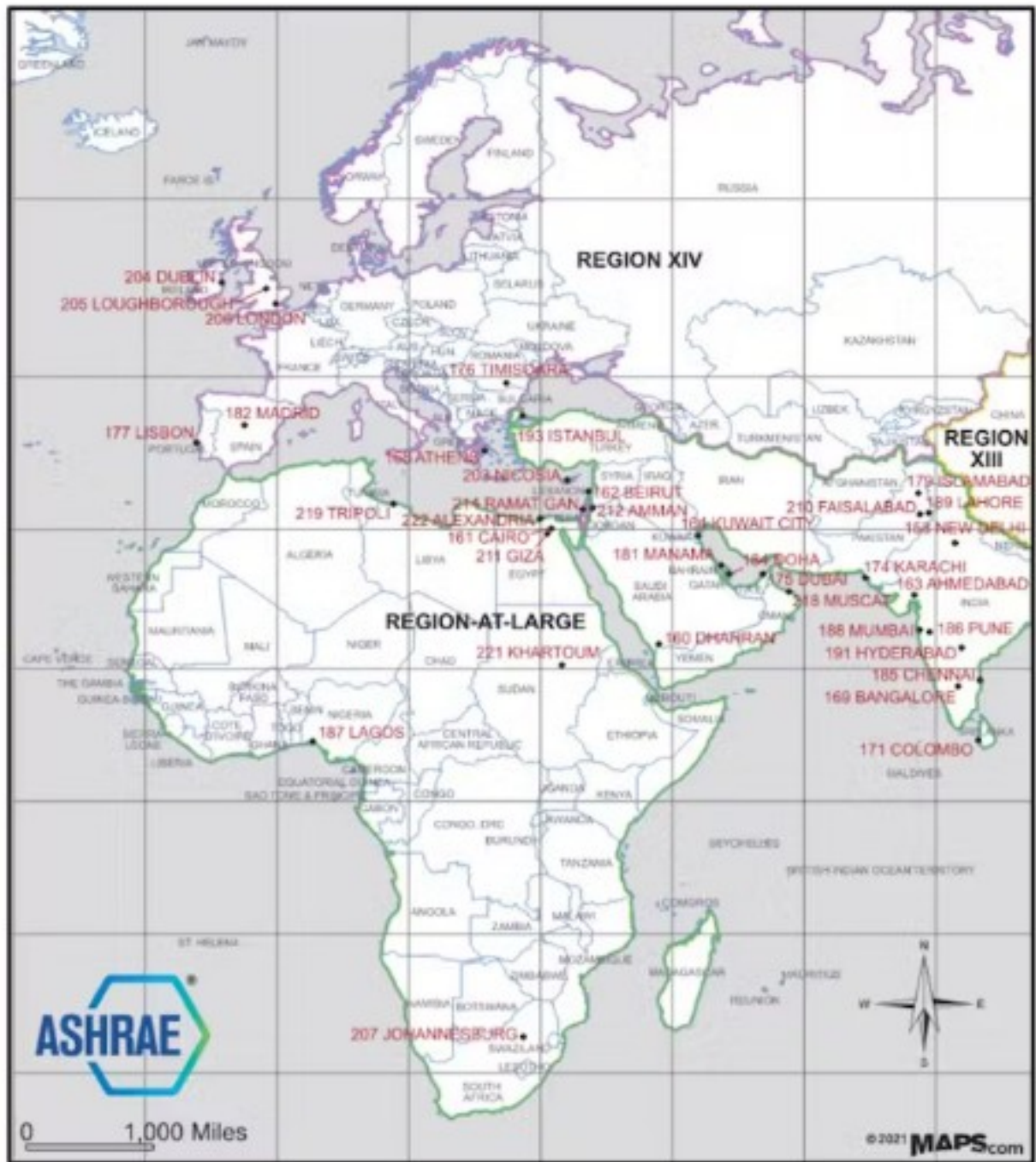
REGION I

066 SAN ANTONIO

REGION AT-LARGE

067 SAN ANTONIO

Region	Section Name	Location	Sponsoring Chapter	Region	Section Name	Location	Sponsoring Chapter
I	No Chapter Sections			X	Redwood Empire	Napa, CA	Southern California
II	No Chapter Sections			XI	Southern Interior	Kelowna, BC, CAN	British Columbia
III	Shenandoah	Shenandoah, VA	Roanoke	XII	Willamette	Portland, OR	Alaska
IV	Macon	Macon, GA	Atlanta	XIII	Sarasota-Bradenton	Sarasota, FL	Florida West Coast
V	Myrtle Beach	Myrtle Beach, SC	Charleston	XIV	Costa Rica	San Jose, CR	Florida West Coast
VI	Savannah	Savannah, GA	Charleston	XV	Coconut Beach	Coconut Beach, FL	Region XII
VII	Hickory	Hickory, NC	Charleston	XVI	Panama	Panama, PAN	Region XII
VIII	Northern	Traverse City, MI	Western Michigan	XVII	Santa Cruz de la Sierra	Santa Cruz de la Sierra, BOL	Region XII
IX	Northern Lights	Fargo, ND	Minnesota	XVIII	Kuching	Kuching, Sarawak, MYS	Malaysia
X	Rochester	Rochester, MN	Rockford	XIX	Guam	Tamuning, GUM	Philippines
XI	Rockford	Rockford, IL	Rockford	XX	Penang	Penang, MYS	Malaysia
XII	No Chapter Sections			XXI	Myanmar	Yangon, MMN	Region XIII
XIII	Cancun	Cancun, MEX	Mexico City	XXII	Vietnam	Ho Chi Minh, VNM	Thailand
XIV	Queretaro	Queretaro, MEX	McAllen, TX	XXIII	Scotland	Glasgow, Scotland	Region XIV
XV	Rio Grande Valley	McAllen, TX	South Texas	XXIV	UK-Northern	Thessaloniki, GRC	Region XIV
XVI	Lincoln	Lincoln, NE	Big Sky	XXV	Amanavathi	Vijayawada, Andhra Pradesh, IND	ASHRAE Decan
XVII	Great Falls	Great Falls, MT	Big Sky	XXVI	Abuja	Abuja, NGA	ASHRAE Nigeria
XVIII	Bozeman	Bozeman, MT	Big Sky	XXVII	Ghana	Accra, GHA	ASHRAE Nigeria





# What is your home Chapter?

118 Answers

Central Arizona

2

Mississippi

Philadelphia

Ottawa Valley

Connecticut

IV

Memphis!

Connecticut



# What is your home Chapter?

118

Answers

Hawai'i

British Columbia (Canada)

Puget Sound

Idaho Chapter

Northeastern Oklahoma

Rochester NY Chapter

St. Louis

orange Empire

Manitoba



# What is your home Chapter?

118

Answers

Triangle

Alamo Chapter!

Illinois

Central Arizona

VI

SoCal

Boston

Hamilton Ontario

Tucson Chapter



# What is your home Chapter?

118

Answers

Vancouver island

Austin, Tx

Caricom

Long Island

ASHRAE Triangle (Raleigh Durham)

Halifax

Chicagoooo

Minnesota

Salt Lake City



# What is your home Chapter?

118

Answers

St. Louis!

Socal chapter California

KANSAS CITY!

Region XI, Chapter 145

Utah

Nebraska

Regina, Sk.

Central Iowa

Illinois



# What is your home Chapter?

118

Answers

Niagara Frontier

Bahrain

Vancouver Island VI

Southern Piedmont Region 4

Louisville

Jordan Chapter - RAL

Region XI, Chapter 145, Vancouver  
Island (VI)

Toronto

Baton Rouge



# What is your home Chapter?

118

Answers

South Texas Chapter

Pikes Peak

Alaska Chapter - 144

Arlington, VA

Twin Tiers chapter (upstate NY)

Hellenic Chapter - Region XIV

X

XI

Region 1



# What is your home Chapter?

118

Answers

IX

RAL

Region x

II

Region I

XI

I

Region 2

XI



What is your home Chapter?

118

Answers

VI!

VIII

VIII

IX

VI

XI

XII

6

V



**What is your home Chapter?** **118** Answers

9

11

X11

Region I

VI

IX

region vi

XI

XI



# What is your home Chapter?

118

Answers

XI

iii

XI

XI

XI

XI

XI

XI

XI



# What is your home Chapter?

118 Answers

XI

XI

XI

XI

XI

XI

No

YES

No



# What is your home Chapter?

118

Answers

No

No,

Giving out scholarships

Outreach

GIVING BACK

Get inspiration from other chapters

Student branch support

Garden and preserve food

Watch horror movies



# What is your home Chapter?

118

Answers

get kids interested in stem careers  
early (especially girls)

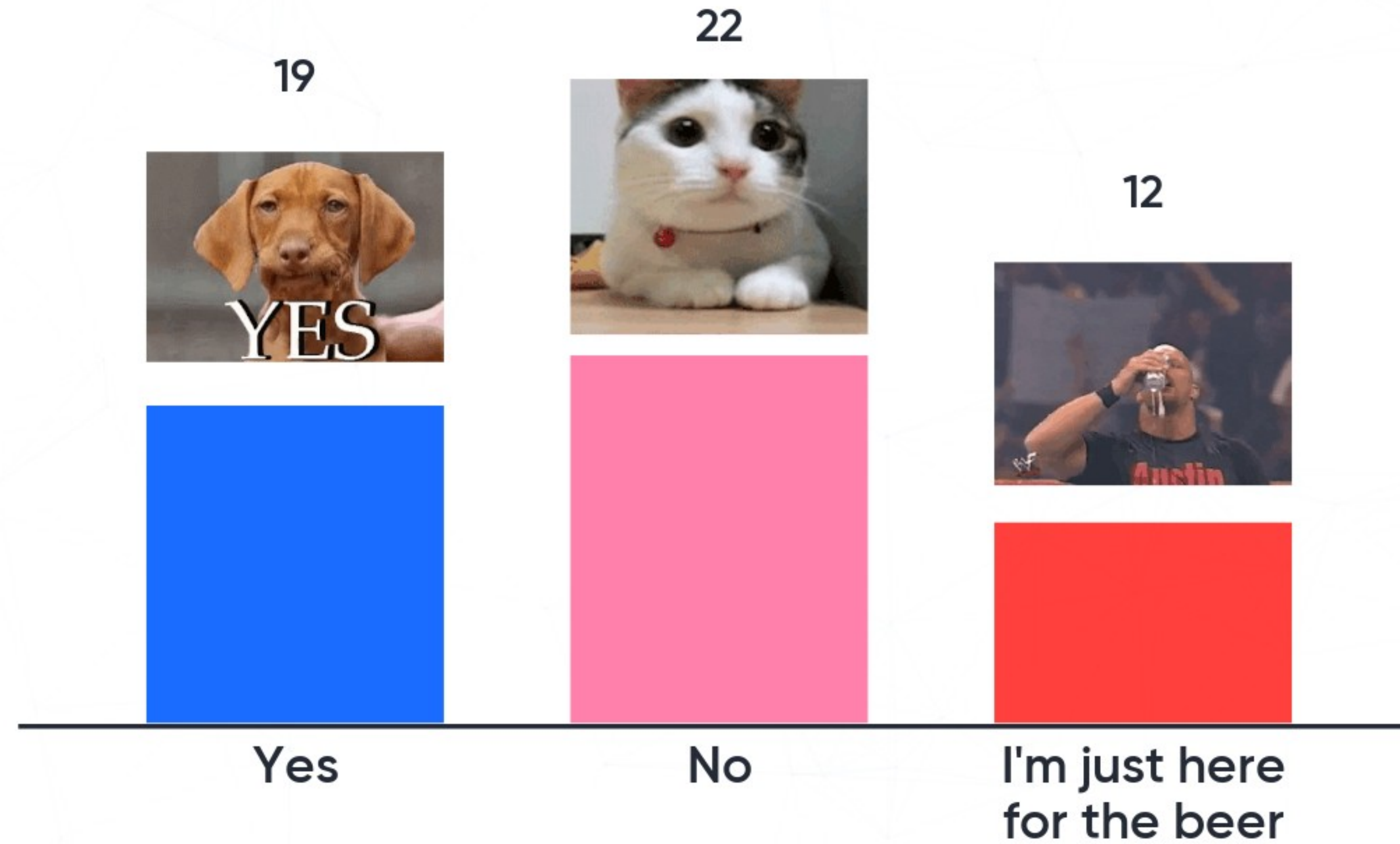


# What is your region?

ii    vii    4    iv    vi    7    iii  
region vi    xi    1    x    6  
region xii    nine    xii    8    five    x on top    ix  
region x    xiv    indiana



# Is this your first year as SA Chair?





# Reason you're involved with Student Activities





## Something you're hoping to learn today 34 Answers

What do I do?

How to do it all!

Better define my role

getting more engagement

Resources

K-12 ideas

see if I can keep it going

Learning how student grants work

Engagement



## Something you're hoping to learn today 34 Answers

Resources

How to replace me

How to grow student membership?

Ideas

steal ideas

For serving better

Learn more about the role and how to do it well!

More ideas

Resources



## Something you're hoping to learn today 34 Answers

Start student branch

Recruiting

How to handle student needs better

Grants and Scholarships

How to gain engagement from students

Improving SBs

Growth

how to involve local colleges/universities that do not have a chapter

Play sports



## Something you're hoping to learn today

34 Answers

Disc golf

Hiking and cooking

Play chess

Restaurants

Paddleboard fishing

Fishing

Hang with friends



# What you like to do in your free time

41

Answers

Hockey

Beer

Run

Ski

Golf

Hike

rock climb

Concerts!!!

Dogs



# What you like to do in your free time

41

Answers

Boat, camp, golf

baking

Soccer

Outdoor with family

sleep

Sports pickle ball

PLANTS

what free time?

Crossfit



# What you like to do in your free time

41

Answers

Eat

Rock climb

Golf

coaching

Improv

Bike

Fish and hunt

Volunteer, bike ride

what free time?



# What you like to do in your free time

41

Answers

Walking

Disc Golf, mountain bike

Work on cars

Game, board or video

Hang with Friends

Tennis

Paddle Board

Exercise

Family and friends



# What you like to do in your free time

41

Answers

play chess

Fishing

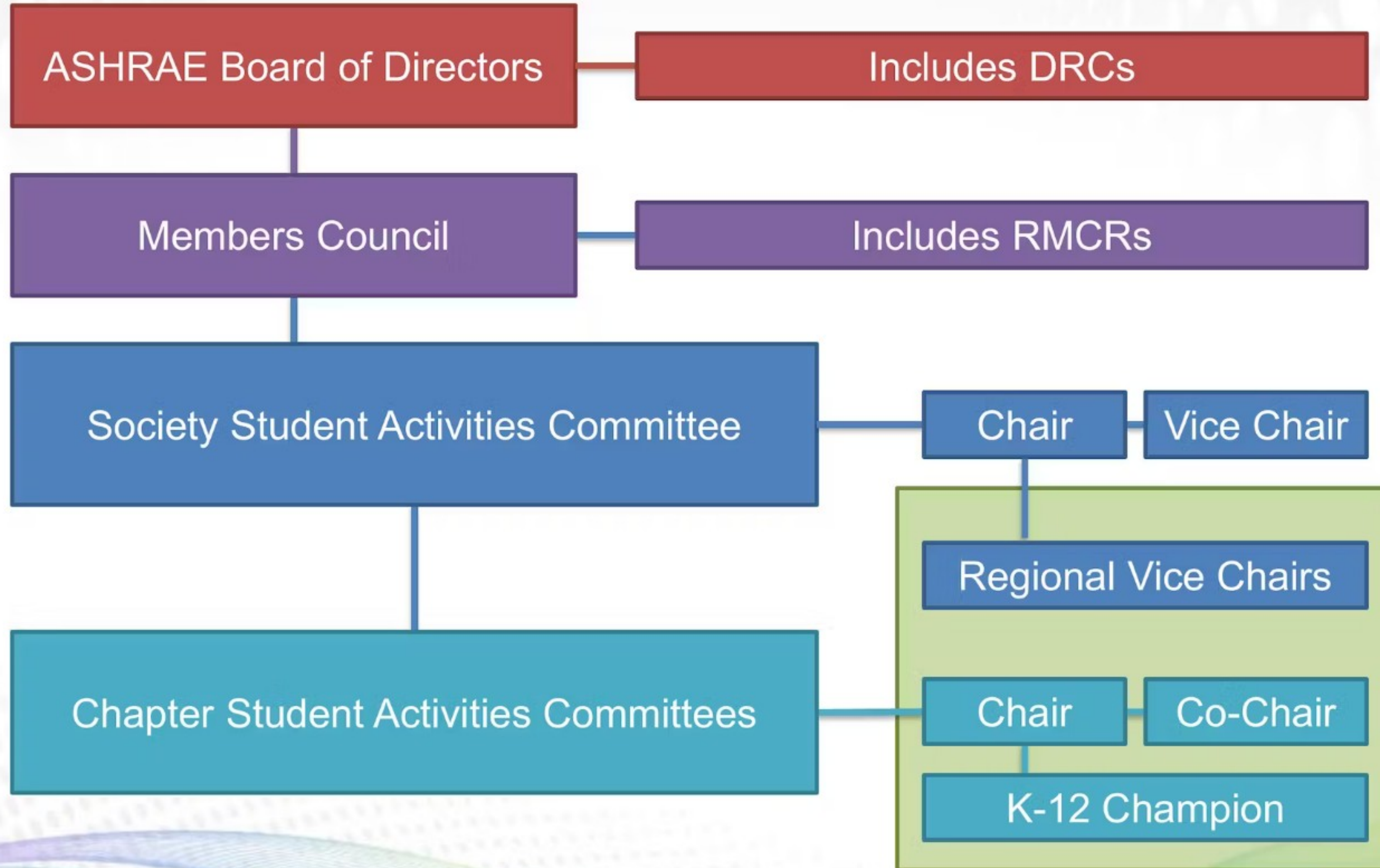
Sail

Hockey and Tennis

Paddleboard Fishing



# SA Organization Chart





# Purpose of Student Activities

## Objectives

- Encourage K-12 students, to pursue studies relating to STEM (Science, Technology, Engineering, and Math), with a focus on encouraging girls in STEM
- Encourage Post-High students to consider HVAC&R and related fields of study
- Encourage Graduates to continue their involvement with ASHRAE



# Purpose of Student Activities

## Methods of Connecting With Students

- K-12/STEM Outreach
- Scholarships
- Grants
- Design Competition
- Job Opportunities/Networking
- Smart Start Program



K-12

TRIVIA TIME!

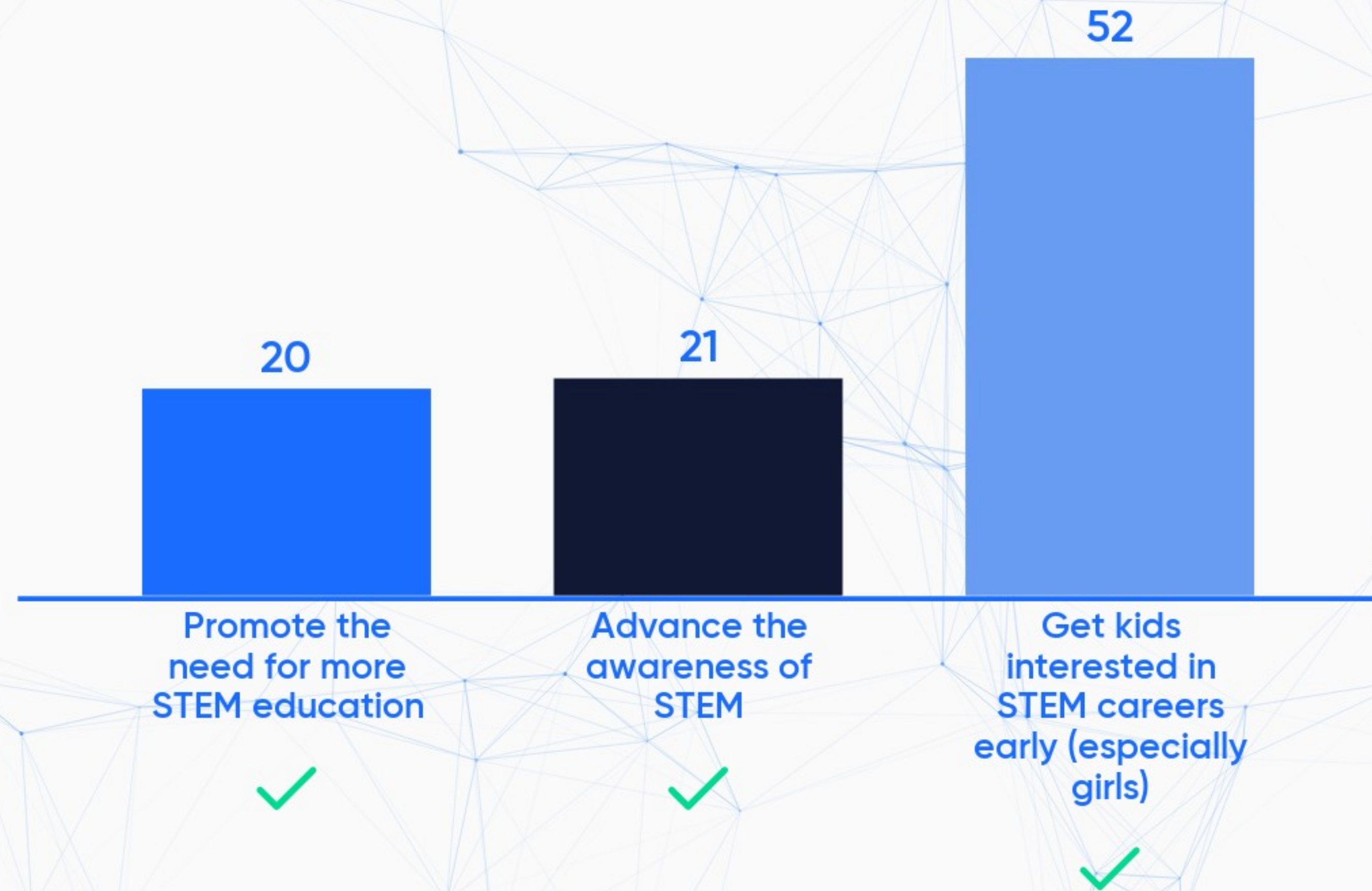


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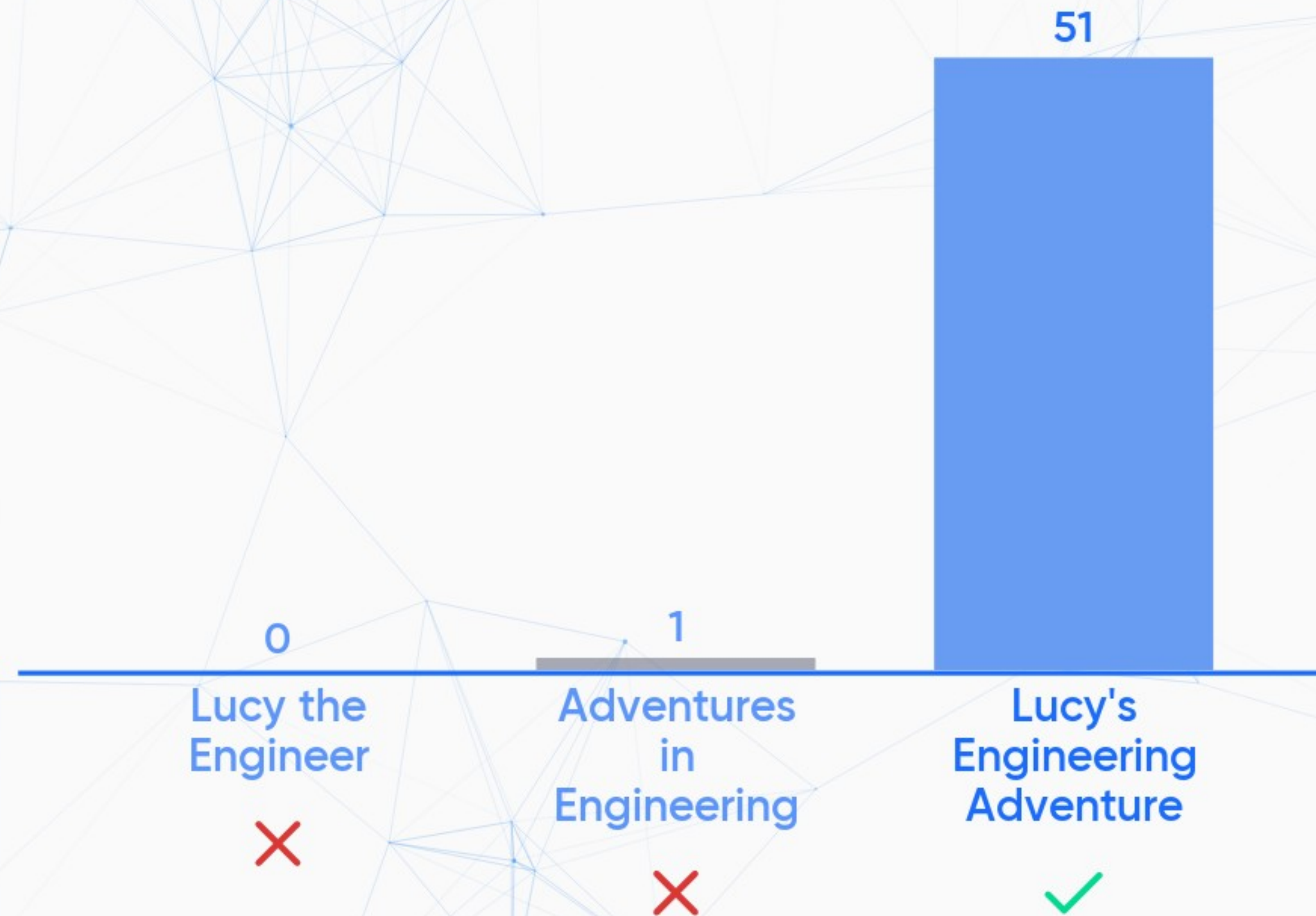


# What is the purpose of K-12 Outreach?



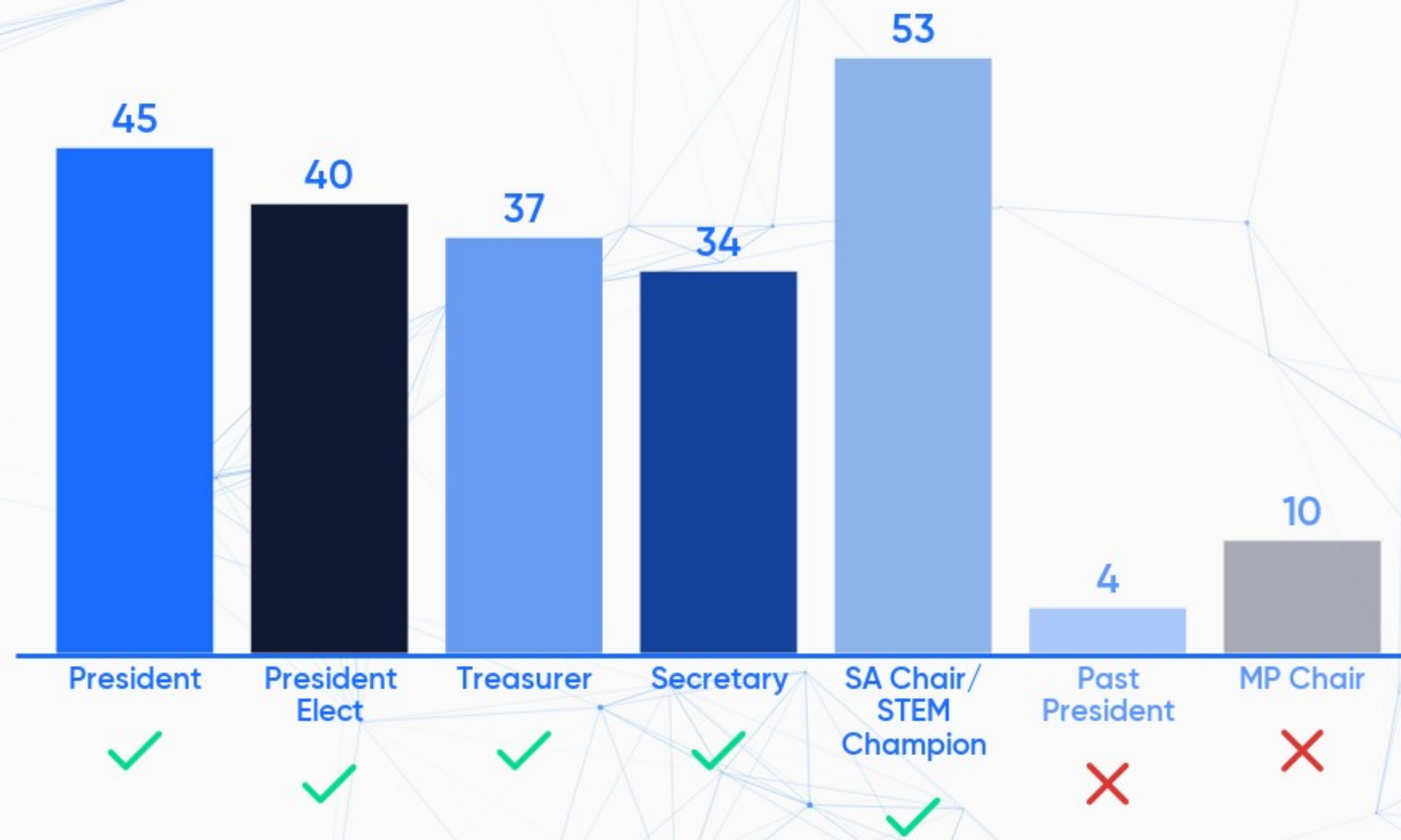


# What is the name of ASHRAE's first children's book?





# Select all the positions required to participate in a K-12/STEM activity to receive the leadership award





# K-12 Review

- K-12 students are often unaware of what STEM careers (particularly Engineering) are all about
- Use of STEM Kits
- K-12/STEM Activities
  - Classroom Visit
  - Take a Child to Work Day
  - Science Fair Judging
  - DiscoverE (Engineers Week)
  - Facility Tours
- High School Design Competition



# K-12/STEM Leadership

## **Required Chapter Participants:**

- President
- President Elect
- Vice President (if applicable)
- Treasurer
- Secretary
- Student Activities Chair or K-12/STEM Champion

**Submission Deadline: June 30**



# K-12/STEM Leadership

## Resources:

- Basecamp: Letter to Teachers
- Basecamp: Fundamental Structures Kit
- [ashrae.org/students](http://ashrae.org/students)
  - Exothermic / Endothermic Kit
  - Pressure Drop Kit
  - Sling Psychrometer Kit
  - LEGO Write-up
  - Classroom Materials (pencils, posters, rulers, etc.)
  - Aquarium Video



# K-12 Breakout Session

## **Topic:**

Brainstorm Outreach ideas for K-12/STEM  
Leadership Award



# Outreach Ideas

31

Answers

ACE Mentors

Partner with other organizations-stem scouts,  
engineers of America etc

Science fair judging

Lucy's Adventure book donation to public  
school systems

Engineering fairs

STEM Fairs

Career fair

Angela - Tag Team with other organizations

do student tours



# Outreach Ideas

31

Answers

Science fair judging

partnering with other organizations

Reading Lucy's adventure to classrooms

coordinate with other local organizations

Lucy's Engineering Adventure!!!

Utilize current relationships with facility directors to arrange tours of various facilities

School mechanical tours

Book donations

Lego building challenge



# Outreach Ideas

31

Answers

Science museum

ASHRAE at STEAM Day at school

STEM Kits

Parent involvement and volunteering

student engineering presentations for career opportunities

Middle school career days

Example equipment sizing for classroom G4

Promote inter student activities events and job internship hunting when going to school or returning to a different state or country

Partner with other stem organizations. Ie. TechGirlz, stemscouts,



# Outreach Ideas

31 Answers

25

25\$

all of the above

Robotics



# Post High

TRIVIA TIME!



[www.menti.com](https://www.menti.com)

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# How much is a Student Membership?



Free



\$25/year

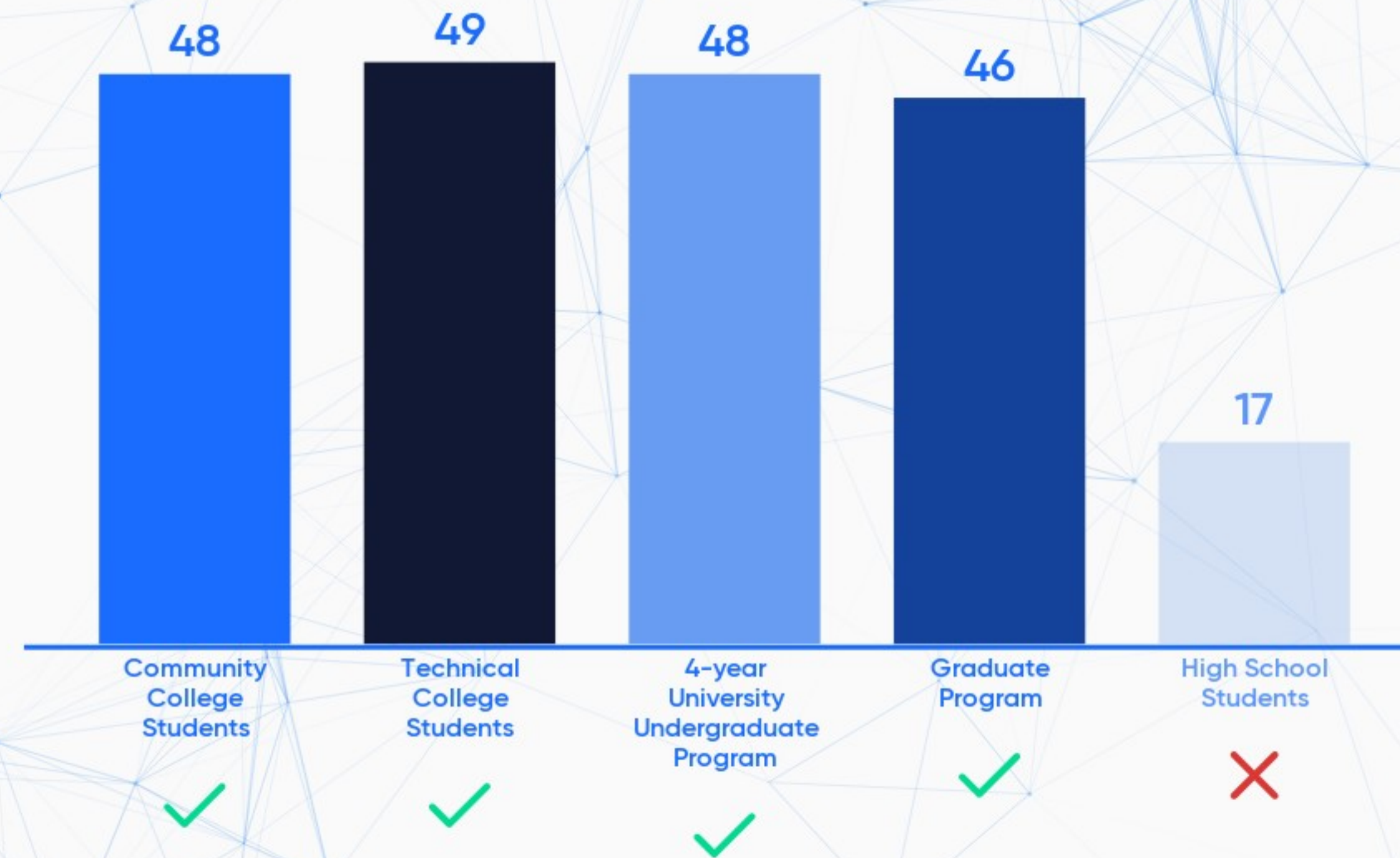


\$120/year





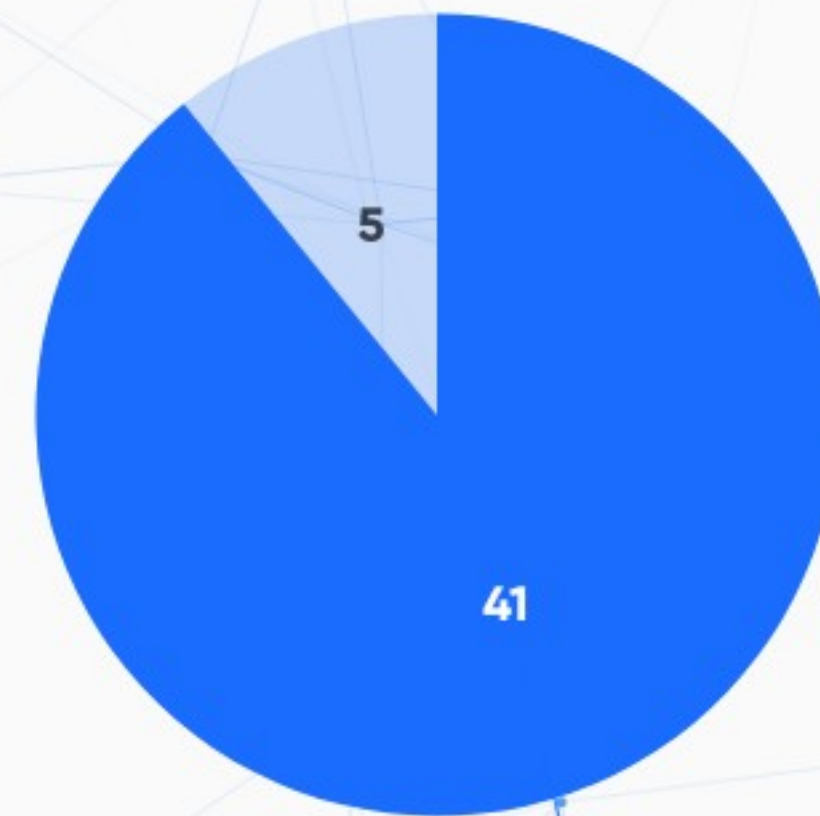
# Who is eligible for the student membership?





# When collecting student's contact information, what is the most important for future contact?

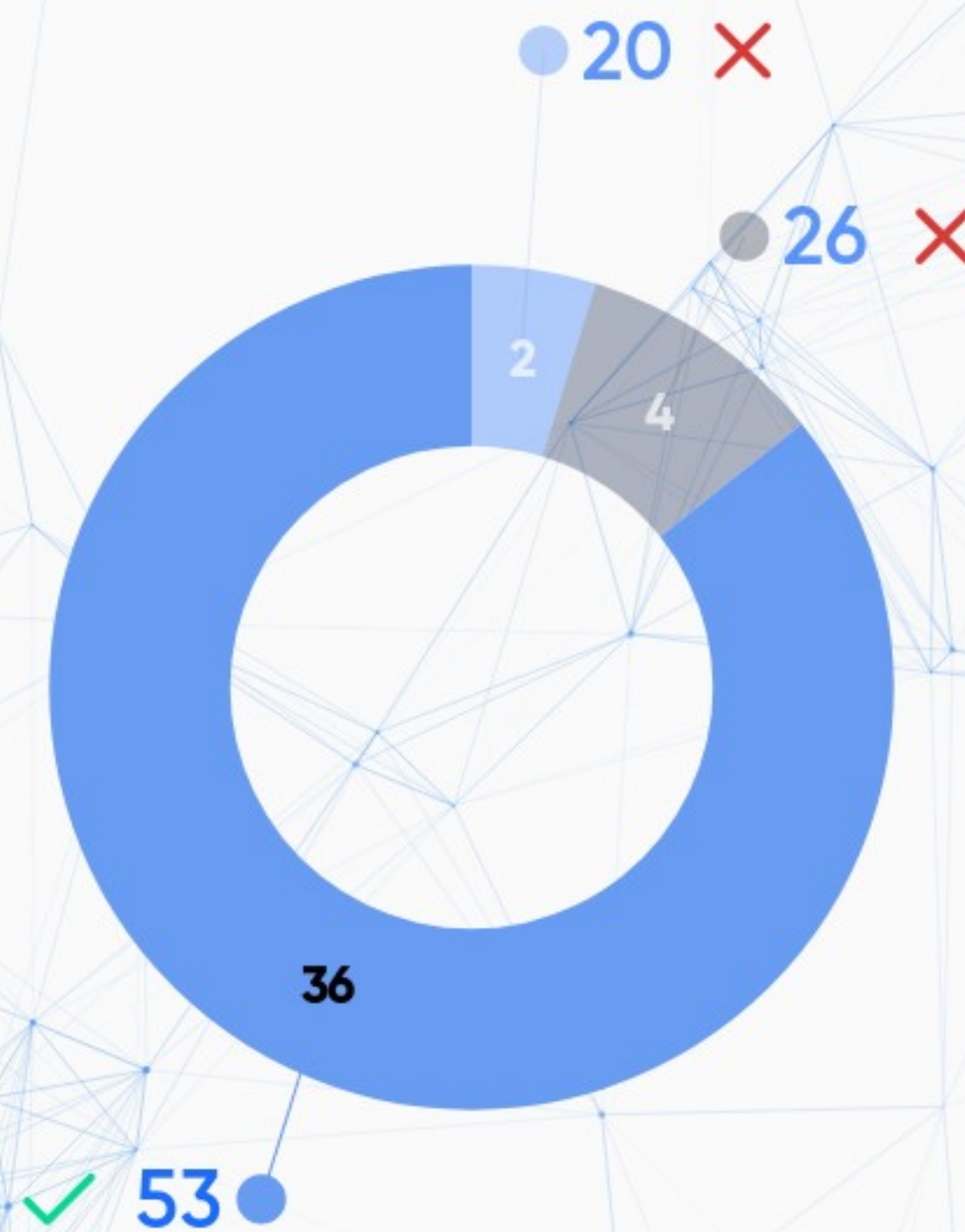
✗ Zodiac Sign



● Alternate email (not school email) ✓



# How many Society scholarships are available this year?





# How many student members are required to start a new student branch?



5



1

12





# Post-High Review

Purpose of a Student Branch is to be “home base” for all post high opportunities:

- Design Competitions (More discussion later)
- FE Exam Preparation
- Grants (More discussion later)
- Internship / Job Opportunities
- Leadership Positions in the student branch
- Resume Boosting
- Scholarships
- Technical Knowledge
- Travel
- Networking with Chapters



# Student Membership

**Cost: only \$25/year!**

## **Who can be a Student Member?**

- Anyone over the age of 18 who is enrolled in a:
  - Community College
  - Technical College
  - 4-year University Undergraduate Program
  - Graduate Program
- Currently, High School students are not eligible for Membership



# Structure of a SB

- President
- Vice President
- Secretary / Treasurer
- Student Branch Advisor
- Student Activities Chapter Chair
- SA Regional Vice Chair (RVC)
- SA Staff Liaison






# Establishing a SB

## Requirements:

- 10 Student Members of ASHRAE
- Student Branch Advisor
- Officers
- Submit form



**NEW STUDENT BRANCH REQUEST**

Name of new Student Branch: \_\_\_\_\_

Local Chapter: \_\_\_\_\_

College, University, or Technical Institute: \_\_\_\_\_

City: \_\_\_\_\_

State/Province/Country: \_\_\_\_\_

Months Branch Meetings will be held: \_\_\_\_\_

Month of Annual Meeting: \_\_\_\_\_

Student Branch Advisor Contact Information:

Name: \_\_\_\_\_

ASHRAE Membership ID: \_\_\_\_\_

Business Address: \_\_\_\_\_

Business Phone: \_\_\_\_\_

E-mail Address: \_\_\_\_\_

\_\_\_\_\_  
Signature of Student Branch Advisor

\_\_\_\_\_  
Date

**STUDENT PETITIONERS**  
(10 minimum required. If there are more than 15 members please attach an additional sheet)

	Name (please print)	ASHRAE Membership ID	Email address
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			

Branch Officers

President: \_\_\_\_\_

Vice President: \_\_\_\_\_

Treasurer/Secretary: \_\_\_\_\_

**Return to:**  
ASHRAE/Assistant Manager of Student Activities  
1791 Tullie Circle, NE, Atlanta, GA 30329  
Phone: (404) 636-8400; Fax: (404) 321-5478; E-mail: [stjameson@ashrae.org](mailto:stjameson@ashrae.org)



# Reactivating a SB

- 5 Student Members of ASHRAE
- Student Branch Advisor
- Officers
- File Annual Report
- Send Email

## General Information

**Student Branch**

**Address**

**City**

**State**

**Zip**

**Country**

**Phone**

**Fax**

**Email**

**Website**

**Student Branch Advisor**

**President**

**Vice President**

**Secretary/Treasurer**

**Committees**

**Number of Student Members**

**Sponsoring Chapter**

## List Branch activities planned for this year

**Spring**

**Fall**

**ABET accredited HVAC&R related programs**

## Student branch advisor information

**Faculty Advisor**

**Title**

**Phone**

**Address (if different from above)**

**City**

**State**

**Country**

**Phone**

**Fax**

**Email**

**Dues**

**Other Income**

## Expenditures

**Printing**

**Speakers**

**Films**

**Other**

**Postage**

**Telephone**

**Other**

**Comments**

Submit



# Maintaining a SB

- Filing Annual Report
- Conduct Meetings
- Handle Finances
- Integrate with Chapter
  - K-12/STEM Activities
  - YEA Events
  - Chapter Meetings





# Retention

- Maintain Contact Information
  - Alternate e-mail addresses
  - University and home (parent's) mailing addresses
  - Cell phone
- Organize Student events with local Chapter
- Industry connection is critical to instilling a higher value and level of connection to ASHRAE
- Work with Branch Advisors



# SmartStart Program

- 3-year program that allows Student Members to transfer to Associate Members at significantly reduced rates.
- Pricing: \$25, \$90, \$120 (3-year savings of over \$500)
- Voting rights
- Ability to serve as Committee Chair / BOG
- Free Handbooks



# Scholarships

## 53 Society Scholarships Available for 2023-2024!!

- [Undergraduate Engineering Scholarships](#) (Annual Application Deadline: December 1)
- [University-Specific Scholarships](#) (Annual Application Deadline: December 1)
- [ASHRAE Society Chapter Scholarships](#) (Annual Application Deadline: December 1)
- [Regional Scholarships](#) (Annual Application Deadline: December 1)
- [Engineering Technology Scholarships](#) (Annual Application Deadline: December 1)
- [High School Senior Scholarships](#) (Annual Application Deadline: May 1st)
- [Freshman Engineering Scholarship](#) (Annual Application Deadline: May 1st)

[www.ashrae.org/scholarships](http://www.ashrae.org/scholarships)

**Depending on your chapter and region, there may be more scholarships offered**



# Winter Conference

**2024 ASHRAE WINTER CONFERENCE**  
**JANUARY 20-24, 2024**  
**CHICAGO, ILLINOIS**

**AHR Expo**  
**JANUARY 22-24, 2024**  
**McCormick Place Convention Center**



# Post High Breakout Session

**Topic:**

Brainstorm events and opportunities to help student branches

**Topic:**

Share ideas on how to build student branch membership

**Topic:**

Scholarships



# Grants

TRIVIA TIME!



[www.menti.com](https://www.menti.com)

3629 9418

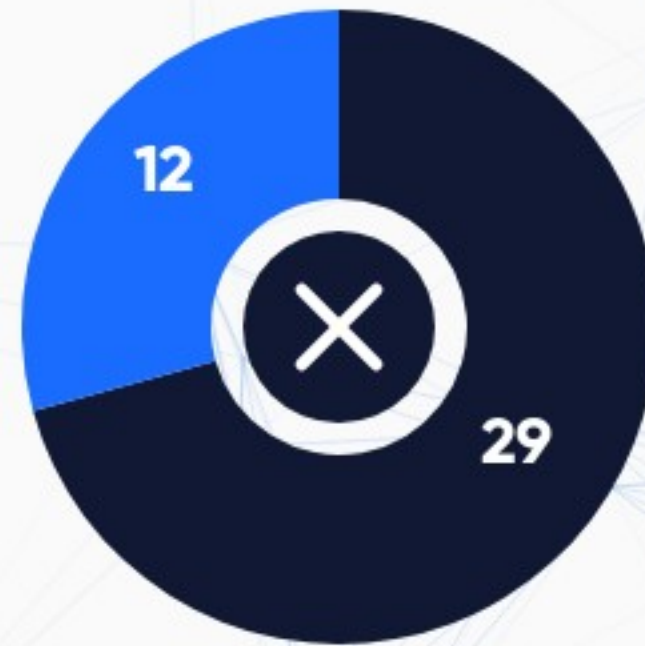


# Which one is true?

● ✓ ● ✕



Grants provide  
funding for  
projects



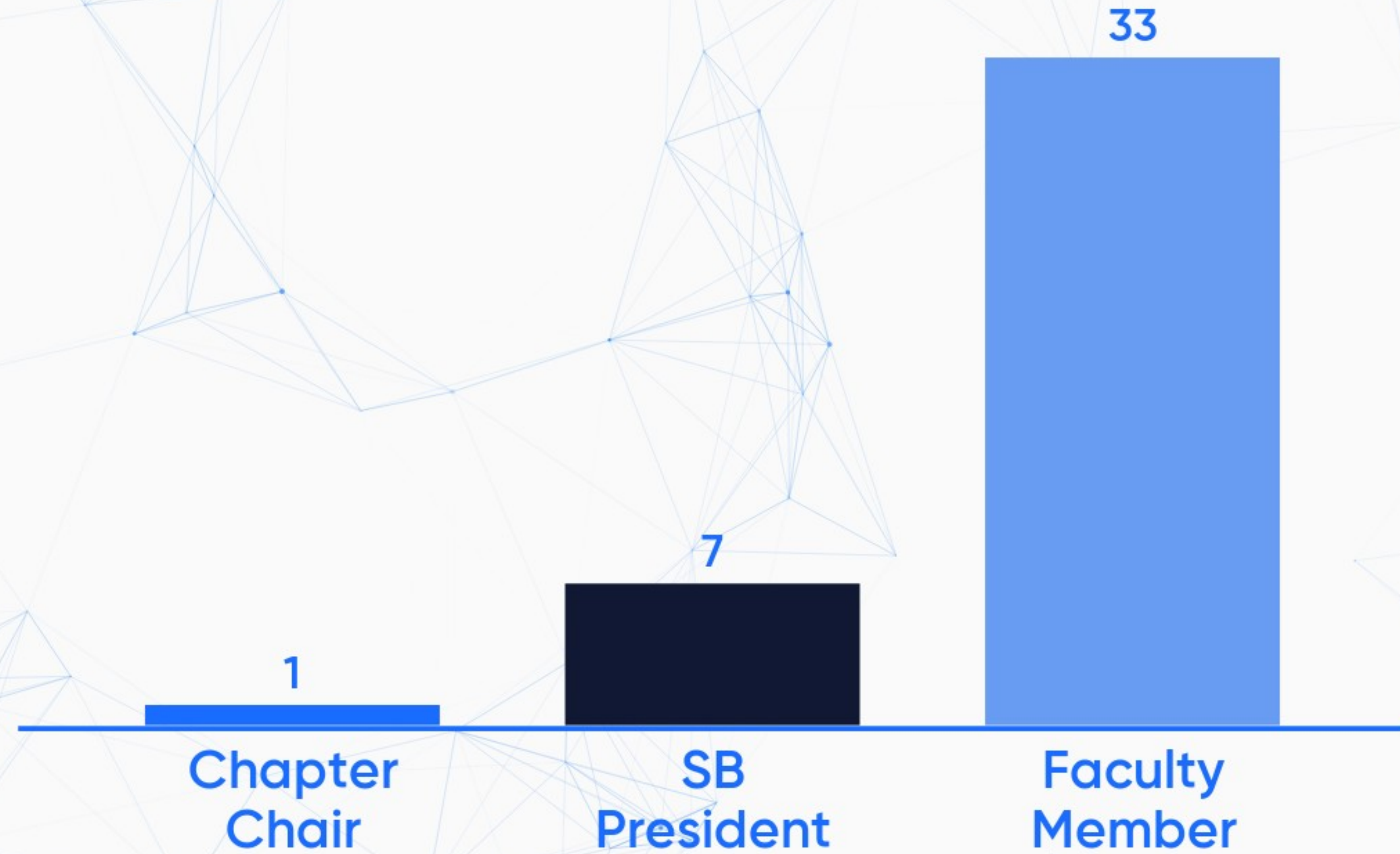
Grants provide  
funding for  
students tuition



Grants provide  
funding for  
student housing

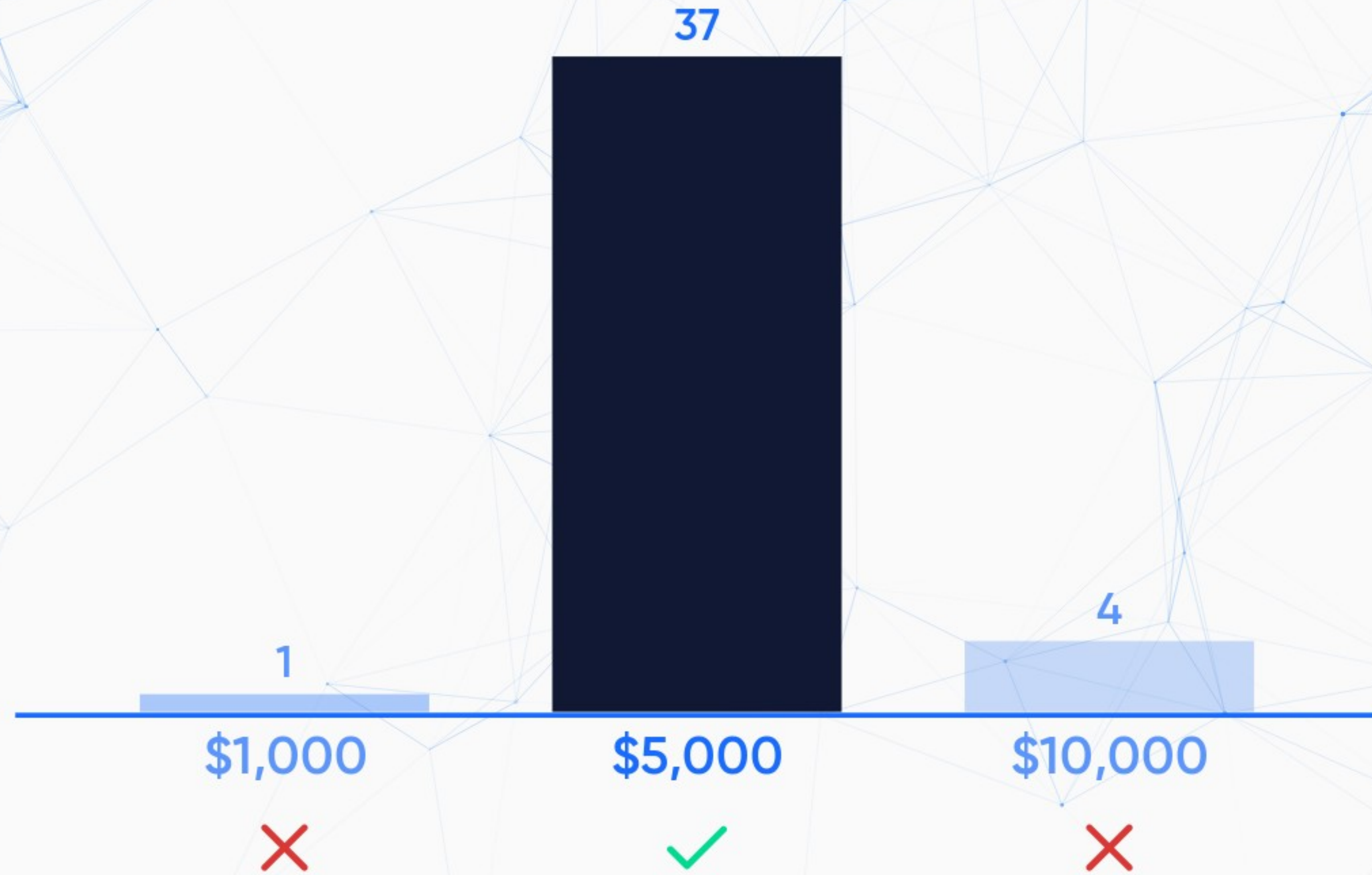


# Who is responsible for applying?





# What is the maximum funding amount?





# Grants Review

## **What is the Undergraduate Program Equipment Grant?**

- The *ASHRAE Undergraduate Program Equipment Grant Program* provides grants to engineering, technical and architectural schools worldwide with the goal of increasing student knowledge, learning and awareness of the HVAC&R industry through the design and construction of senior projects.
- Grants up to \$5,000 are to be used to fund equipment and supplies for projects at Universities and 2-year technical schools that focus on ASHRAE-related topics.
- Full directions and requirements can be found at <https://ashrae.org/studentzone/scholarshipsandgrants>



# Grants Review

## Who can apply for the Grant?

- Grant application must be submitted by the faculty member(s) responsible for the project

## What is funded by the Grant?

- Funds used to fund equipment and supplies for senior project or 2 year technical school projects
- Computer hardware not funded (special software is covered)
- University overhead and faculty or student salaries will not be funded.



# Grants Review

- **What Dates do I need to know of for Grants?**
  - Applicants will receive notification by March 2<sup>nd</sup>
  - An unaccepted project proposal may be revised and re-submitted the following year.
  - Funds for successful Grant applications are available after August 1<sup>st</sup>.



# Grants Review

## How can SA Chairs help promote the Grants?

- Email blast to schools in the area with student branches (faculty)
- Reach out to schools with applicable programs
- (Seek out schools and faculty who should be applying)
- Grant recipients to do poster sessions or “table top” at Chapter Meeting



# Grants Breakout Session

**Topic:**

Discuss the grants program, review the criteria, and discuss any questions about promoting this to your student branches



# Design Competition

TRIVIA TIME!



[www.menti.com](https://www.menti.com)

3629 9418



# What are the three categories for this year's Design Competition?





# If a school has very limited exposure to HVAC, which category should they pick?



HVAC Design Calculations



HVAC System Selection



Setty Family Foundation Net Zero Energy Design





# Which category can graduate students join?

3

HVAC Design Calculations



1

HVAC System Selection



36

Setty Family Foundation Net Zero Energy Design



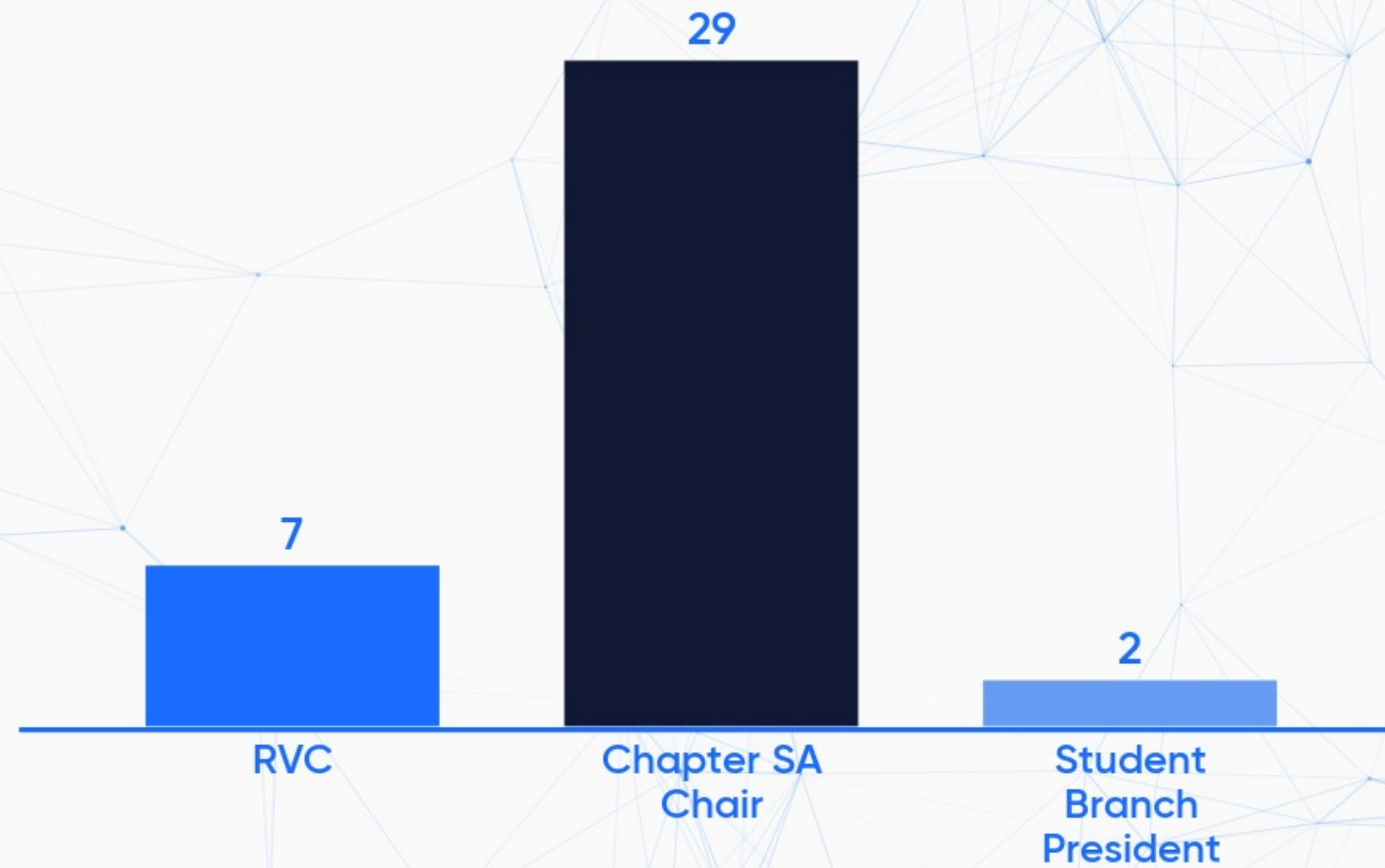


# How long is the cycle for the design competition? (Start to finish)





# If there are more than one submission per chapter , who is responsible for judging?





# Design Competition Review

- 3 major categories of the Design Competition
  - HVAC Design Calculations
    - Intended for schools with a limited exposure to HVAC and/or technology schools with limited engineering exposure
  - HVAC System Selection
    - Intended for schools with a deeper exposure to HVAC
  - Setty Family Foundation Net Zero Energy Design
    - Intended for schools with a deep exposure to integrated building design and high performance buildings
- Applied Engineering Challenge
  - Focused on the design of a new or modified system using components from an existing HVAC unit that is at the end of its useful life to create an energy efficiency retrofits or recycled product.



# Design Competition Review

- Each category has 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup> & “Rising Star” awards
- Students from all over the world can participate including technology and architectural schools. They do not have to be ASHRAE Student Branches
- Its purpose is to promote ASHRAE (and the HVACR industry) to as wide a spectrum of students as possible
- ASHRAE recommends that the project groups consist of at least two members from an undergraduate engineering or architecture curriculum for the HVAC Design Calculations or HVAC System Selection and at least three members (architecture or construction, mechanical and electrical) for the Net Zero competition. Team members can be from multiple colleges. All team members must be enrolled during the semester/term in which they contribute to the design.



# The Process

- Teams need to register with ASHRAE
  - Due Dates (timeline):
  - Teams must submit by May 4<sup>th</sup>, 2023
  - Local chapters must judge first level by May 18<sup>th</sup>, 2024 – **THIS IS YOU!**
  - Region judging is done by SAC RVC – completed by June 8
  - Society judging is completed by June 24
  - Winners are announced Monday, August 1<sup>st</sup>, 2024



# DC Breakout Session

**Topic:**

Discuss the different challenge requirements and questions you may have. Brainstorm ideas to promote to and support students



# Running Chapter Reports

Student Activities Chairs (along with Membership Promotion Chairs and Chapter Presidents) have access to reports to run Student Member data.

Why is this important?

- Know what Students are in your Chapter
- Find out which Students are approaching expiration (so you can encourage renewal)
- Find out which Students are graduating (so you can promote Smart Start)
- Obtain Student Member contact info



# Running Chapter Reports

Things to remember:

- The reports include the personal data for Members and should be kept in a secure place.
- The reports should not be posted in a place accessible to the general public.
- The data should only be used for ASHRAE purposes.
- The data provided is what was provided by the Member.



# PAOE

The Presidential Award of Excellence (PAOE) sets goals for the Society in the key areas of membership, meeting attendance, education, research promotion, and energy management (technical support to public agencies). Meeting these objectives is essential if ASHRAE is to fulfill its commitment to serve its Members.



# PAOE

- Goals established annually by the incoming Society President
- Reporting is done online in the 'Secure Chapter Volunteer Activity' section
- Collection of tasks with associated point values
- Means of recognition for the work you do
- Quality improvement tool – measure progress
- Minimum score is 500 points
- PAR is 800 points



# PAOE

## STUDENT ACTIVITIES CATEGORY 2023-24 PAOE

MINIMUM: 500 POINTS		PAR: 800 POINTS
<b>Presidential Initiatives:</b>		
SA1	10 points; (500 points maximum)	For each student attending a Chapter Program or Technical Tour where the topic aligns with the current <b>Presidential Theme and Focus</b>
SA2	100 points; (500 points maximum)	For each Chapter Program presented by a student member at a Chapter Meeting based on alignment with the current <b>Presidential Theme and Focus</b>
SA3	25 bonus points	If a K 12 activity is promoting diversity, equity, and inclusion in engineering
SA4	25 bonus points	If a post high activity is promoting diversity, equity, and inclusion in engineering
<b>K-12/STEM Activities</b>		
SA5	50 points; (add any bonus points)	For each K-12/STEM Activity. Then, add any bonus points
SA5.1	25 bonus points	If the activity is held jointly with another organization (i.e. Boy Scouts, Girl Scouts, NAWIC, AIA, ACE Mentorship, etc.)
SA5.2	25 bonus points	For each National Engineers' Week activity or equivalent non US activity
SA5.3	10 bonus points; (100 points maximum)	If a K 12/STEM activity uses ASHRAE Resources such as the STEM Kits or the ASHRAE Children's book
SA5.4	50 points; (300 points maximum)	For each ASHRAE 3D Highschool Modeling Competition entered
<b>Post-High Activities</b>		
		<b>STUDENT MEMBERSHIP:</b>
SA6.1	50 points; (50 points maximum)	If net student membership as of April 1 for the chapter exceeds that of previous year
SA6.2	10 points; (500 points)	For each current student member that renews their ASHRAE student membership
SA6.3	50 points; (no maximum)	For each student member that transfers from student member to Associate member via SmartStart
SA6.4	50 points; (50 points maximum)	For tracking student members permanent contact information (cell phone, personal email, LinkedIn, etc.)
		<b>GENERAL STUDENT ACTIVITIES:</b>
SA6.5	50 points; (300 points maximum)	For each ASHRAE Student Design Competition, bEQ, AEC or Student Paper entered
SA6.6	50 points; (no maximum)	For each National Engineers' Week activity or equivalent non US activity
SA6.7	25 points; (25 points maximum)	For promoting Society or Regional level scholarships to Student Branch Advisors and/or students through e-mail, social media or in person
SA6.8	50 points; (150 points maximum)	For each student that submits an application for a Society level scholarship
SA6.9	25 points; (no maximum)	For each student member attending the Winter Conference Student Program
SA6.10	10 points; (100 points maximum)	For each student member that attends a local chapter meeting
SA6.11	5 points; (50 points maximum)	For each student member that attends a regional ASHRAE meeting or CRC
SA6.12	100 points; (no maximum)	For establishing a new student branch or reactivating an inactive student branch
		<b>CHAPTER MEMBER ENGAGEMENT IN STUDENT ACTIVITIES:</b>
SA6.13	25 points; (200 points maximum)	For each post high school activity in which one or more chapter member participates, excluding Student Branch Advisor participation.
SA6.14	20 points; (40 points maximum)	For each meeting between a chapter member and a faculty of engineering college or tech school for the purpose of establishing a student branch
SA6.15	25 points; (50 points maximum)	For each chapter activity with student branch (e.g. Student Night meetings, technical programs, technical tours)
SA6.16	25 points; (25 points maximum)	For any chapter member mentoring a team (e.g. ASHRAE Grant or Design Competition) excluding Student Branch Advisors.



# Society SA Awards

## **Student Activities Achievement Award**

- Due December 31
- Presented at Plenary of the Annual Conference.

## **Student Branch Advisor of the Year**

- Due May 31
- Presented at Plenary of the Winter Conference

## **Youth Outreach Award**

- Due December 31
- Presented at Region X CRC

## **K-12/STEM Leadership Award**

- Due June 30
- Presented at Region X CRC



# Region SA Awards

## **Student Branch of the Year**

- Due June 30
- Presented at Region X CRC

## **Student Member of the Year**

- Due June 30
- Presented at Region X CRC

## **Best Student Activities Chair**

- Presented at Region X CRC

## **K-12/STEM Champion**

- Presented at Region X CRC



# Society Awards

## **EK Campbell Award**

- Outstanding service in teaching
- Due Mid December
- Plaque and \$10,000 honorarium

## **Homer Adams Award**

- Current or former graduate student engaged in a research project within the past two years
- \$5,000 and a certificate



# Breakout Session

## **Topic:**

Discuss and deep dive the reports and PAOE points



# Best Practices Guide – Post High

June  
July

1. **Attend Centralized Training** in conjunction with the Society Annual Summer Conference in June.
2. Recruit help. Enlist YEA and other chapter members as speakers for student meetings and to mentor students during design competition.
3. Create list of current Student Branches and identify Student Branch Advisors (SBAs).
4. Contact SBAs to introduce yourself and schedule a meeting for August/September.
5. Create list of potential Student Branches.

Aug.  
Sept.

1. **Conduct planning session** with Student Activities Regional Vice Chair, (SA-RVC).
2. **Attend Chapters Regional Conference (CRC)** (Fall CRC Regions).
3. Develop MBO with Chapter President and K-12/STEM Champion and submit to SA-RVC.
4. Coordinate with your CTTC / Programs Chapter Chair to schedule one Student Activities themed Chapter Meeting with students.
5. Meet with SBAs to discuss plan for the year. If possible, meet with SB student leadership.
6. Plan dates to attend student branch meetings.
  - a. Arrange a tour of mechanical systems in interesting building on or near campus.
  - b. Determine interest in a shadow program with local employers.
  - c. Discuss: Society & Chapter scholarships, Design Competitions, Chapter Programs - Student Nights, K-12 Interaction, Student Branch Status Report, SmartStart Membership Program, & Student Program at Society Winter Conference.



# Best Practices Guide – Post High

Oct.  
Nov.

1. Advertise & remind: Society and local scholarships.
2. Advertise & Remind: Society Undergraduate Grants - Due December 1st.
3. Advertise & Remind: Society Undergraduate Scholarships - Due December 1st.
4. Visit campuses to help SBAs recruit students emphasizing opportunities in our industry.
5. Help students **fundraise for travel to Society Winter Conference**.
  - a. Request chapter and regional funds if available.
  - b. BOOK HOTELS EARLY!!! You can always cancel them.

Dec.  
Jan.

1. Society Undergraduate Scholarships - check student zone for due dates.
2. Form a chapter scholarship review committee. If such a committee exists, recruit new members if necessary.
3. Remind SBAs and students of chapter, regional, and society scholarship deadlines.
4. **Bring students to Student Program** at Society Winter Conference.

Feb.  
March

1. Conduct joint E-Week activity (K-12) with Student Branch.
2. Recruit SA Chair replacement if you don't plan to continue in your role as SA Chair.
3. **Award Chapter Scholarships**.

April  
May

1. **Attend CRC** (Spring CRC Regions).
2. Conduct Exit Interviews with Student Branch leaders.
3. Student Branch Status Report due.
4. **Nominate SBA of the Year** (due in June).





# Best Practices Guide – K-12

June  
July

1. **Attend Centralized Training** in conjunction with the Society Annual Summer Conference in June.
2. **Recruit Help. Enlist K-12/STEM Champion.** In smaller chapters, this may be the same person as the SA Chapter Chair. Chapter members, members with children, and retired members are great resources.

Aug.  
Sept.

1. **Conduct planning session** with Student Activities Regional Vice Chair, (SA-RVC).
2. **Attend Chapters Regional Conference (CRC)** (Fall CRC Regions).
3. Develop MBO with Chapter President and K-12/STEM Champion and submit to SA-RVC.
4. Coordinate with your CTTC / Programs Chapter Chair to schedule one Student Activities themed Chapter Meeting with K-12/STEM activity example.
5. Check regulations for school volunteer requirements.
6. Call your community/ schools to schedule your K-12 visits.
  - a. Teachers appreciate speakers and also will have contacts for other teachers.
  - b. Local school districts: talk to a STEM or Sustainability coordinator.
  - c. Scout Organizations: badge programs for STEM (e.g.: GS It's Your Planet Love it Badge).
  - d. Local after school programs: Boys and Girls Clubs, YMCA, etc.
  - e. Established Programs need judges (e.g.: Math Counts, First Tech Challenge, & VEX).



# Best Practices Guide – K-12

Oct.  
Nov.

1. Call Schools and schedule K-12 visits.
2. Use ASHRAE website, home-schooling web sites, and teacher's websites that will give you age and time appropriate ideas about connecting with your audience.
3. **Demonstrate K-12/STEM activity at Chapter Meeting** to recruit volunteers for classroom visits.
4. Get supplies for your visit. Request chapter and regional funds if available.

Dec.  
Jan.

1. **Perform K-12 visits.**
2. Things to take into consideration: Talk about how engineers help people live better lives.
  - a. By middle school, kids are making decisions that will ultimately determine whether they enter a technical or non-technical careers. (e.g. Math is hard or fun).
  - b. By third grade girls lose interest in STEM related fields and are influenced towards the arts. Presenting ASHRAE and STEM at this time is very important.
  - c.  $\text{Age} \times 2 = \text{attention span}$ . Plan your presentation accordingly.
  - d. Kids are smarter than you think they are! Don't talk down to them.
  - e. K-2 should be scheduled later in the year.
  - f. Abide by local school rules regarding outside visitors and interaction with students.

Feb.  
March

1. **Conduct joint E-Week activity.**
2. Perform K-12 visits.
3. Recruit Student Branch members to help with the above.

April  
May

1. **Attend CRC** (Spring CRC Regions).
2. Perform K-12 visits.
3. Recruit K-12/STEM Champion replacement if not returning.





# Resources

- Student Zone Website
- Basecamp
- Newsletter
- LinkedIn
- Facebook
- Your RVC
- Katie!



# Breakout Session

## **Topic:**

Live demo of the website and where to find resources

## **Topic:**

Any other questions about Student Activities with time remaining



# Wrap Up

- Any region specific questions, use your RVC as your resource
- [Students@ashrae.org](mailto:Students@ashrae.org)

Questions?