

# NAAAEA E-Newsletter – August 2023



NATIONAL ARAB AMERICAN ASSOCIATION  
OF ENGINEERS & ARCHITECTS

# Contents of this E-Newsletter



## Contents of this E-Newsletter

1. President's Message
2. Webinar on 8/10/2023
3. NAAAEA Mission Statement
4. Announcements
5. Mentorship Program
6. Retiree List
7. University Professors List
8. Speakers List
9. Arab-Owned Companies List
10. Book of NAAAEA Policies
11. Educational Resources
12. Disaster and Emergency Relief Technical Committee
13. Grant for NAAAEA Chapters
14. Grant for Students Initiatives
15. NAAAEA Scholarship
16. Career Center
17. Article
18. Photo Article
19. Submit an Article
20. NAAAEA Executive Board Monthly Meetings
21. Current NAAAEA Executive Board
22. Sponsorship Opportunity
23. Current NAAAEA Sponsors
24. Current NAAAEA Chapters
25. Interested in forming a New NAAAEA Chapter
26. Policy and Guideline on How to Start NAAAEA Chapter in your State
27. Outstanding Student Award
28. Outstanding Young Engineer Award
29. Projects by NAAAEA
30. NAAAEA Virtual Visit to a Chapter
31. Sign up to our Email List
32. Contact us
33. Open Corner
34. End

# President's Message

Dear NAAAEA Chapter leaders and Chapter members:

The 2023 NAAAEA Annual Conference will be in around November 2023. Date and venue will be announced soon.

The Education Committee hosted a webinar on August 10, 2023. See following pages of this newsletter providing limited detailed about this 2-hour webinar. The recording is already on our website under **EDUCATION-WEBINARS**

NAAAEA has revamped the website (<https://nationalaaaea.org/>). Please visit the site to explore its current offerings.

We continued all the programs which were initiated by previous NAAAEA boards.

We introduced a new **“Grant for Students Initiatives”**, and we introduced a new **“NAAAEA Projects”**.

We also introduced new programs, this include **Mentorship** Program, **Retiree** List, University **Professors** List, **Speakers** List, **Arab-Owned** Companies List, and Book of NAAAEA **Policies**.

We established a **“Book of NAAAEA Policies”**. One of these policies is a **“Policy and Guideline on How to Start a Chapter in your State”**.

We also introduced two new Awards: **Outstanding Young Engineer Award**, and **Outstanding Student Award**.

All of the above programs, initiatives, policies, and awards are currently on the website (<https://nationalaaaea.org> )

All are encouraged to:

1. Consider joining a program or initiative
2. Nominate candidates for the Outstanding Student Award or the Young Engineer Award
3. Provide feedback on the website contents
4. Forward this E-Newsletter to your members and others and encourage them to participate
5. Recommend any other programs or initiatives. NAAAEA will investigate the feasibility of your recommendation and implement, if found feasible.

Looking forward to hearing from you.

Dr. Soliman Khudeira, Ph.D., S.E., P.E., F.SEI, F.ASCE  
NAAAEA President

A blue rectangular graphic with a white border containing the text "President's Message" in yellow, bold, sans-serif font.

President's  
Message

# Webinar on August 10, 2023

## 8/10/2023 Webinar Presentations

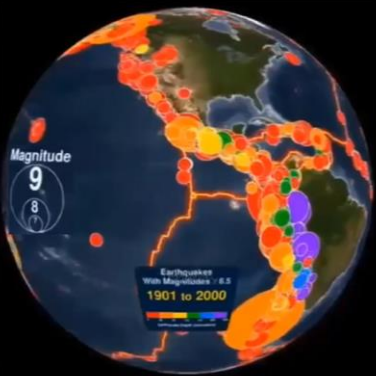
1. How can exam refresher classes assist you in passing the FE/PE exams:  
**Chris Miller and Nabeal Khatib, PE**
2. Turkiye-Syria 2023 earthquake:  
**Dr. Soliman Khudeira. PhD, PE, SE**
3. Enhance your career network via LinkedIn:  
**Hussam Alkhatib, PE**
4. Growing your engineering career:  
**Rami Asfahani, PE**
5. MSE Walls - geotechnical design and construction:  
**Dr. Hosam Salman, PhD, PE**
6. Build your own engineering library:  
**Nabeal Khatib, PE**

**NAAEA  
Webinar  
was on  
Thursday  
8/10/2023**

**The 2-hours recording is already on our website under EDUCATION-WEBINARS.  
See representative screen shots on the following pages from this webinar.**

# Screen shots from the NAAEA 8/10/2023 webinar


## Turkiye-Syria Earthquake



NAAEA Webinar  
Presented by: Soliman Khudeira, PhD, PE, SE




## Other Resources



**FE Reference Handbook (V10.3)**

Free digitally (main resource to pass the exam, the company uses only this resource in preparing clients)



**Practice Exams**

1. NCEES practice exam (a key exam to practice)
2. Other practice exams (i.e., School of PE)

## Turkiye-Syria Earthquake

**February 6, 2023, Earthquake**

- **7.8**-magnitude (Richter) earthquake
- Followed by **7.5**-magnitude earthquake and many aftershocks
- 240,000 buildings damaged or destroyed
- 60,000 deaths
- 110,000 injured
- 10 million affected
- 3 million homeless
- Damage is estimate to be over \$50B.

Mercalli Intensity	Shaking	Richter Magnitud
I	Not felt	1 to 2
II	Weak	2 to 3
III	Weak	3 to 4
IV	Light	4
V	Moderate	4 to 5
VI	Strong	5 to 6
VII	Very strong	6
VIII	Severe	6 to 7
IX	Violent	7
X	<b>Extreme</b>	<b>7 to 8</b>
XI	Extreme	8
XII	Extreme	8 to 9.5

The 2-hours recording is already on our website under **EDUCATION-WEBINARS**



# Screen shots from the NAAEA 8/10/2023 webinar

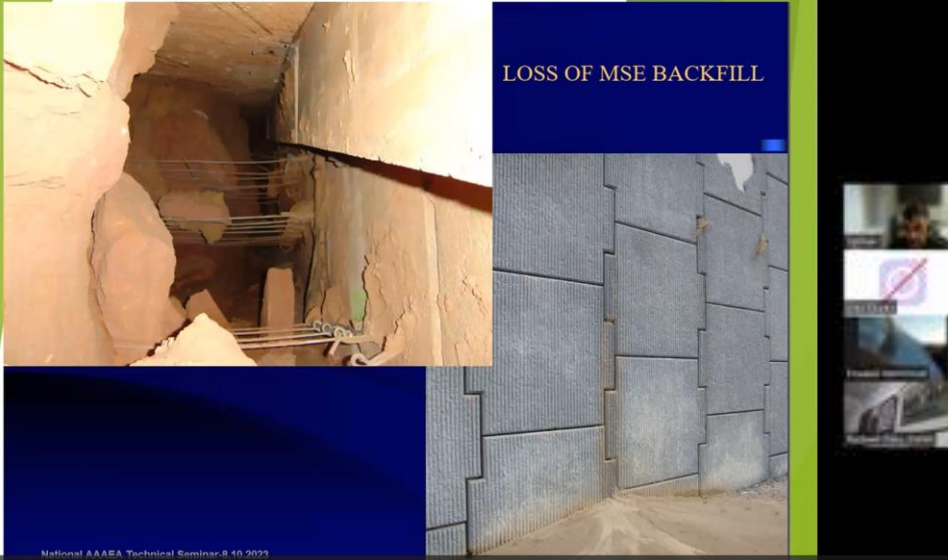
**Modern Methods to Resist Earthquake Forces**

1. Seismic Base Isolation
2. Seismic Energy Dissipation (Dampers):
  - a. Tuned Mass Dampers (TMD),
  - b. Tuned Liquid Dampers (TLD), and
  - c. Viscous Dampers
3. Carbon Fiber Reinforced Polymer (CFRP)
4. Performance Based Seismic Design (PBSD)

**1. Golden Gate Bridge - Built in 1933 without Seismic Isolation**




**LOSS OF MSE BACKFILL**



NAAEA Technical Seminar 8/10/2023

**Leveraging LinkedIn Recommendations**

Recommendations validate your skills and work ethic.



The 2-hours recording is already on our website under EDUCATION-WEBINARS

# Screen shots from the NAAEA 8/10/2023 webinar



**BOSSY TO OTHERS**

- Your task is to do A, B, C...
- Talk down to others
- Excluding team's opinion

**FIX:**  
**COMMUNICATION**


- Explain why your team's tasks are important and how it affects schedule of the project.
- Everyone is as important and as equal.
- There's always room for improvement especially what you do on a daily basis.

**CiorbaGroup**

## GROWING YOUR ENG. CAREER

**A RAMI ASFAHANI, PE (IL, IN, TX)**  
Project Structures Engineer

**CiorbaGroup**



## ENG. CAREER JOURNEY

**PROJECT MANAGER**

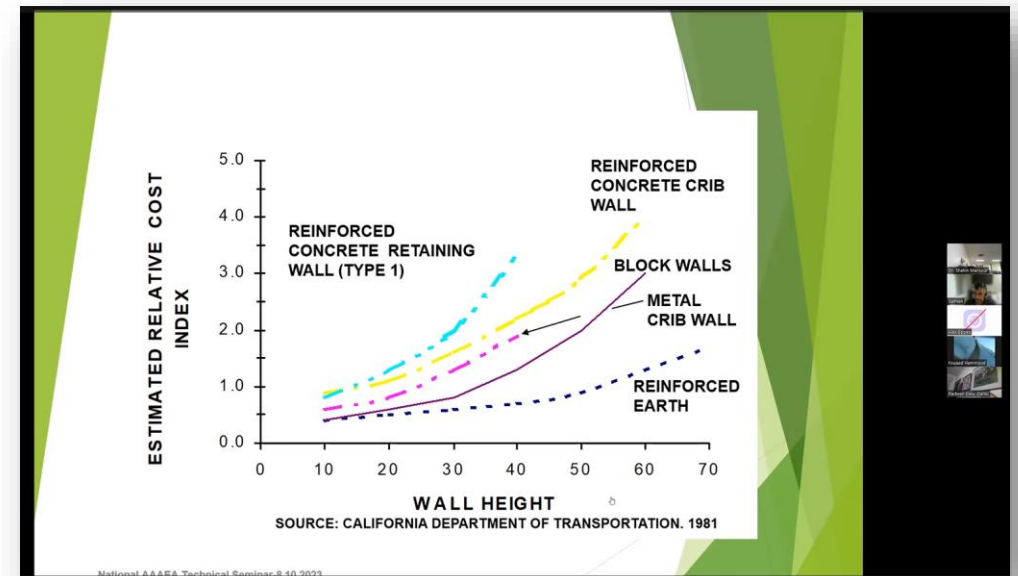
**SENIOR ENGINEER / PROJECT ENGINEER**

- Function as the Lead Structural Engineer or Project Manager on projects.
- Perform advanced structural analysis on complex projects.
- Provide mentoring and guidance to other design team members.
- Provide technical oversight and quality checking of deliverables.
- Coordinate with other disciplines on multi-discipline projects.
- 10 to 15 years experience.
- Last few years to ask questions, start to expect to have answers.
- The weird hair-cut phase.

**MANAGER +**

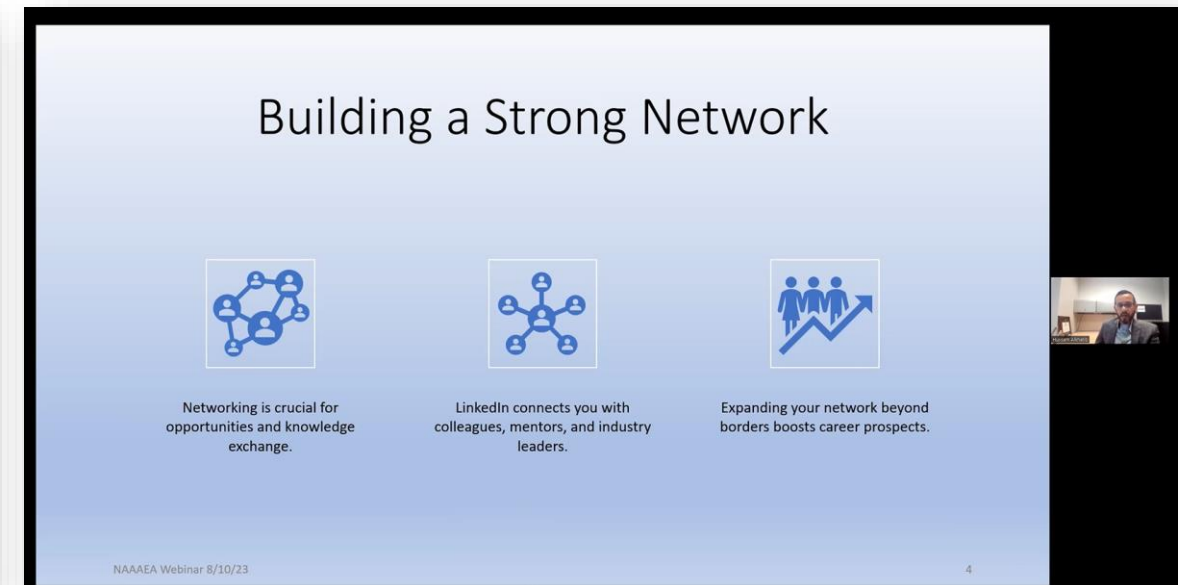
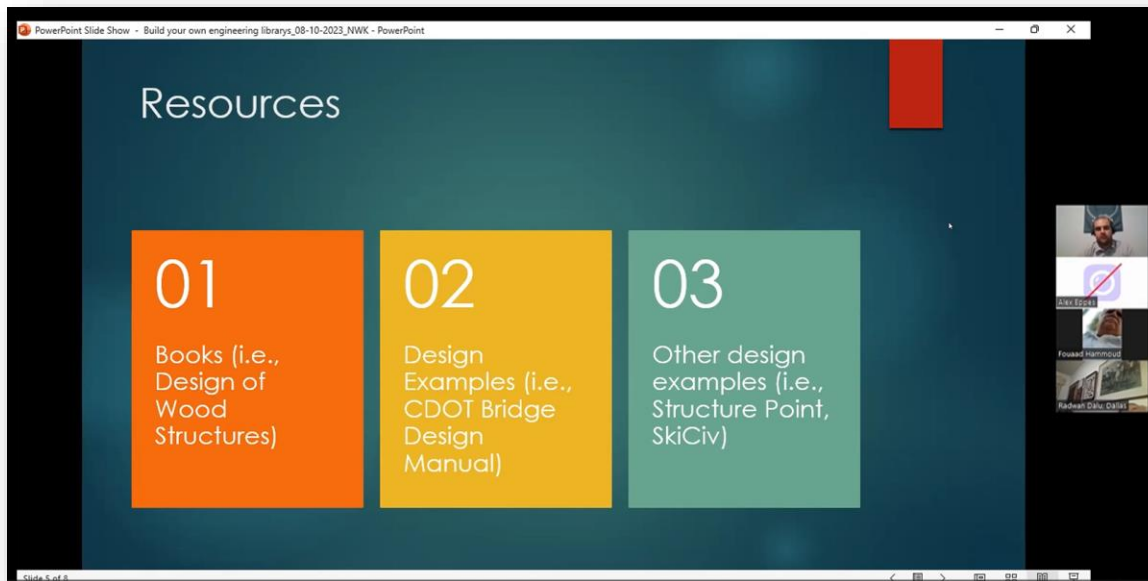
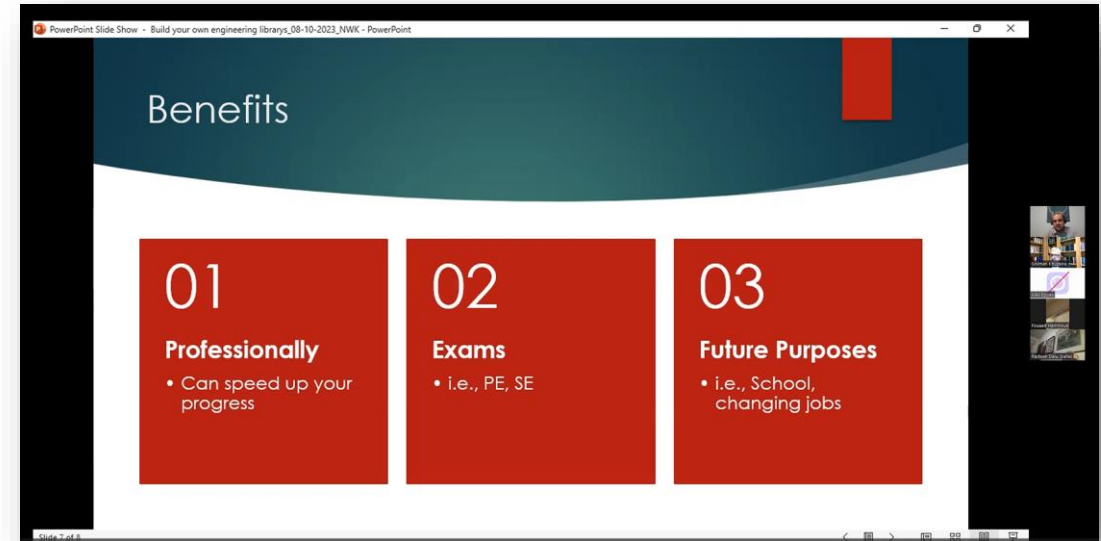
**DISCIPLINE / REGIONAL MANAGER +**

- Technical writing for proposals
- More geared towards sales and regional manager roles.
- Not part of the conversation today.
- 15+ years of experience.



The 2-hours recording is already on our website under EDUCATION-WEBINARS

# Screen shots from the NAAEA 8/10/2023 webinar



The 2-hours recording is already on our website under EDUCATION-WEBINARS



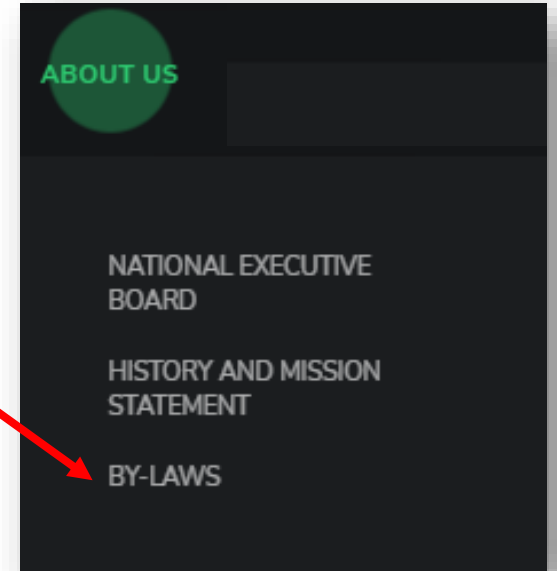
## NAAAEA Mission

## NAAAEA Mission Statement

NAAAEA is a professional Arab American association dedicated to help, strengthen, empower and inspire its members for excellence. NAAAEA promotes and advocates the Arab American Engineers, Architects and Information Technology professionals in the United States, by providing career and educational enhancement programs, technical exchange, fellowship, and community service. NAAAEA is a non-profit, non-political and non-religious Professional Association.

For more information, see the NAAAEA Bylaws (<https://nationalaaaea.org/>)  
On the “ABOUT US” tab

Screen shot from the Website



# Announcements

## National AAAEA Scholarship

Application deadline: **October 15, 2023.**

Apply at <https://nationalaaaea.org/scholarship-application/>

**The Education Committee** will be hosting a webinar in **August 2023**. The topic is on Career Advancement and also project presentations. Date and speakers will be announced soon. Please let us know if you would like to be a speaker and/or add another topic.

## Grant for Students Initiatives

This NAAAEA Grant Program has been developed to assist AAAEA students to advance their initiatives into the application stage.

Apply at <https://nationalaaaea.org/grant-for-student-initiatives/>

## Grant for NAAAEA Chapters

This NAAAEA Grant Program has been developed to assist to assist the local chapters in growing and promoting their activities. Apply at <https://nationalaaaea.org/grant-program/>

## Outstanding Student Award

Apply or Nominate others. See website <https://nationalaaaea.org/grant-program/> for more details

## Outstanding Young Engineer Award

Apply or Nominate others. See website <https://nationalaaaea.org/grant-program/> for more details



Announcements

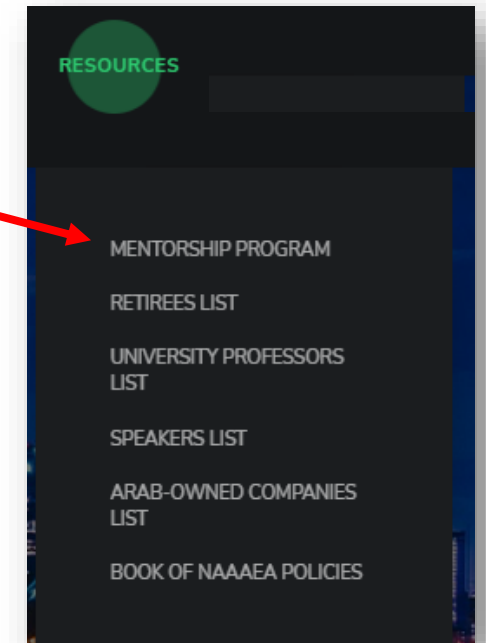
NAAAEA Resources:  
**Mentorship Program**

## Mentorship Program

The purpose of the NAAAEA **Mentorship Program** is to gather names of members who are interested in becoming a mentor to students and to those in the professional practice.

If you are interested in volunteering in the Mentorship Program, please visit <https://nationalaaaea.org/> and enter your information the “Resources” tab.

Screen shot from the Website



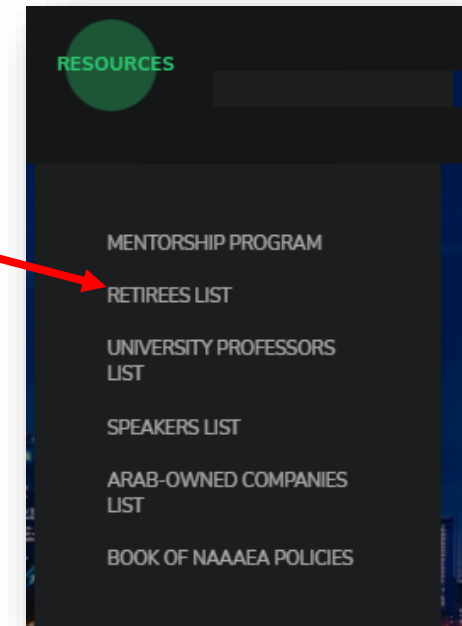
## NAAAEA Resources: Retirees List

## Retirees List

The purpose of the NAAAEA **Retiree List** is to gather names of members who are interested in becoming a mentors to students. The list will also serve as a Resource to those who are in the professional practice.

If you are interested in adding your name to the Retiree List, please visit <https://nationalaaaea.org/> and enter your information the “Resources” tab.

Screen shot from the Website





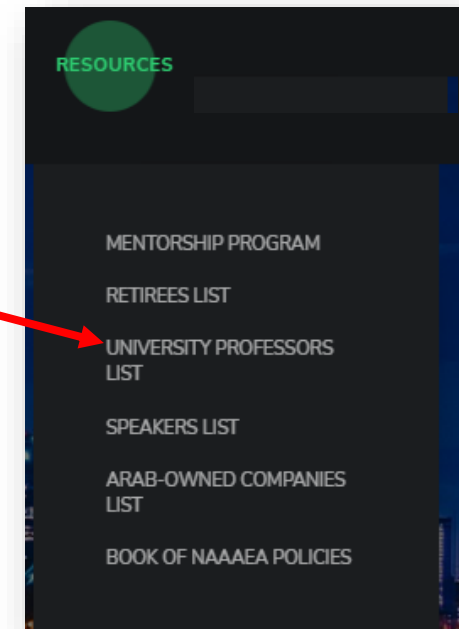
NAAAEA Resources:  
**University Professors List**

## University Professors List

The purpose of the NAAAEA **University Professors List** is to gather the names of Arab Professors. The goal is to foster future cooperation among the professors on the list.

If you are interested in adding your name to the **University Professors List**, please visit <https://nationalaaaea.org/> and enter your information the “Resources” tab.

Screen shot from the Website



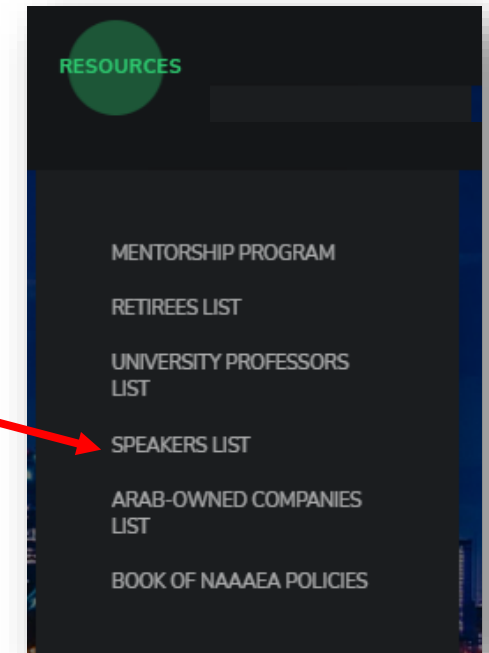
## NAAAEA Resources: Speakers List

## Speakers List

The purpose of the NAAAEA **Speakers List** is to gather names of Arab speakers who are willing to present their areas of expertise in webinars and conferences.

If you are interested in adding your name to the Speakers List, please visit <https://nationalaaaea.org/> and enter your information in the “Resources” tab.

Screen shot from the Website



## NAAAEA Resources:

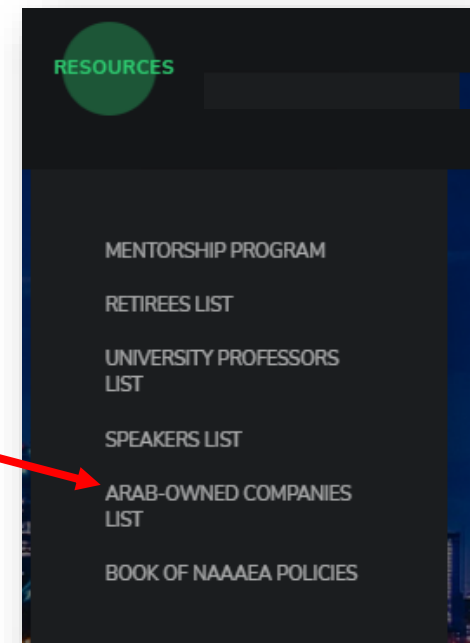
### Arab-Owned Companies List

## Arab-Owned Companies List

The purpose of the **Arab-Owned Companies List** is to foster cooperation among the owner of the companies.

If you are interested in adding your company name to the Arab-Owned Companies List, please visit <https://nationalaaaea.org/> and enter the information in the “Resources” tab.

Screen shot from the Website



NAAAEA Resources:  
**Book of NAAAEA  
Policies**

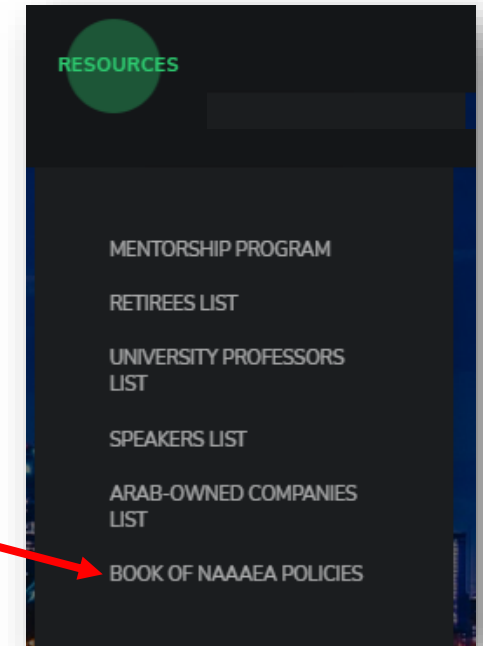
## Book of NAAAEA Policies

The purpose of the **Book of NAAAEA Policies** is to provide these policies as a template for the chapters to use if they wish to use any of them.

See <https://nationalaaaea.org/> website under “RESOURCES”.

**If your Chapter is interested in a specific policy** that is not currently on NAAAEA website, please contact NAAAEA (<https://nationalaaaea.org/contact-us/>) to prepare the policy and share with all Chapters to use.

Screen shot from the Website





# Educational Resources

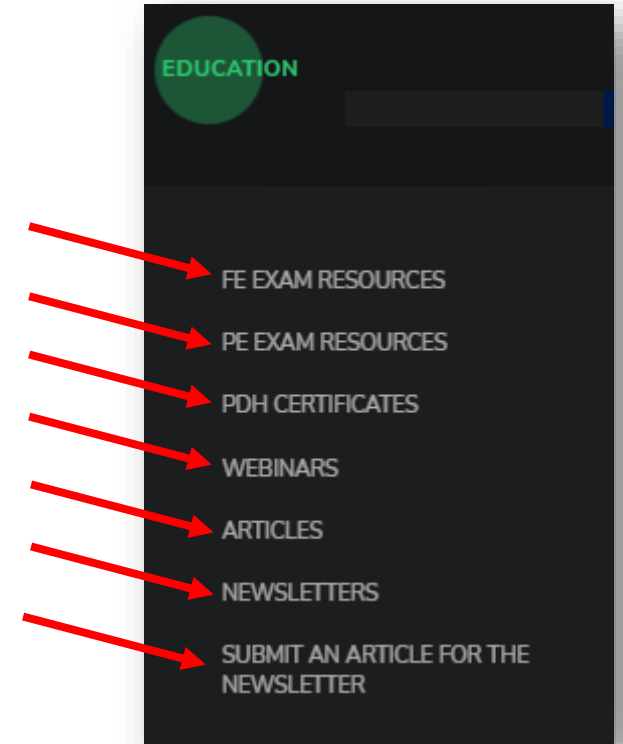
NAAAEA has various educational-related resources. See <https://nationalaaaea.org/> website under “EDUCATION” tab.

The current Educational Resources include:

- FE Exam Resources
- PE Exam Resources
- PDH Certificates
- Webinars
- Articles
- Newsletters
- Submit an Article for the Newsletter

**If your Chapter is interested in a specific educational materials** (classes, webinar, PDH topics, etc.) that are not currently on NAAAEA website, please contact NAAAEA (<https://nationalaaaea.org/contact-us/>) to prepare the materials and share with all Chapters.

Screen shot from the Website



Educational Resources

# Disaster and Emergency Relief Technical Committee

## Disaster and Emergency Relief Technical Committee

Volunteer to be part of the **NAAAEA Disaster and Emergency Relief Technical Committee**

Simply send an email to [info@nationalaaaea.org](mailto:info@nationalaaaea.org), or via NAAAEA website <https://nationalaaaea.org/contact-us/>

This committee was established by NAAAEA in response to the Syria-Turkiye earthquake. However, the plan is to have the committee ready to address future similar events

## Grant for NAAAEA Chapters

# Grant for NAAAEA Chapters

The NAAAEA Grant Program has been developed to assist the **chapters** in growing and promoting their activities.

### Eligibility

All NAAAEA chapters are eligible to submit a grant application.

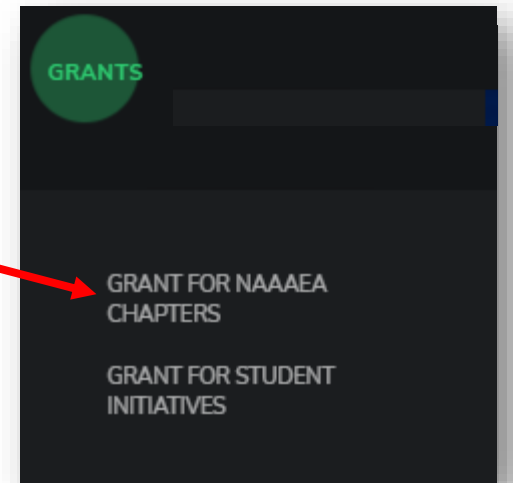
### Amount of the Grant

Specify the amount you are requesting for the program or the project. Provide a brief break down of the requested amount. NAAAEA will award grant(s) based on the availability of funds.

### Apply at

<https://nationalaaaea.org/grant-program/>

Screen shot from the Website



## Grant for Students Initiatives

This NAAAEA Grant Program has been developed to assist **AAAEA students** to advance their initiatives into the application stage.

### Eligibility

All NAAAEA chapter Students are eligible to submit a grant application.

### Amount of The Grant

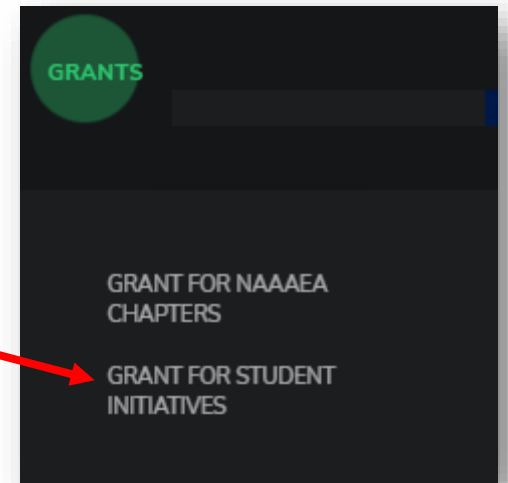
Specify the amount you are requesting for the program or the project. Provide a brief breakdown of the requested amount. NAAAEA will award grant(s) based on the availability of funds

### Apply at:

<https://nationalaaaea.org/grant-for-student-initiatives/>

Grant for  
Student Initiatives

Screen shot from the Website





# NAAAEA Scholarship

The NAAAEA scholarship was established by the National AAEA and is presented to an Undergraduate or Graduate students in the areas of Engineering, Architecture, and Computer Science.

## AMOUNT

At least one scholarship will be awarded annually in an estimated amount of at least \$1,000.

## ELIGIBILITY REQUIREMENTS

The NAAAEA scholarship is available to student members of who are attending an accredited university in the USA and must be a student-member in any one of the NAAAEA Chapters.

Apply at:

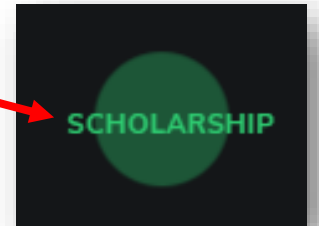
<https://nationalaaaea.org/scholarship-application/>

Application deadline: **October 15, 2023**



NAAAEA Scholarship

Screen shot from the Website



## Career Center

## Career Center

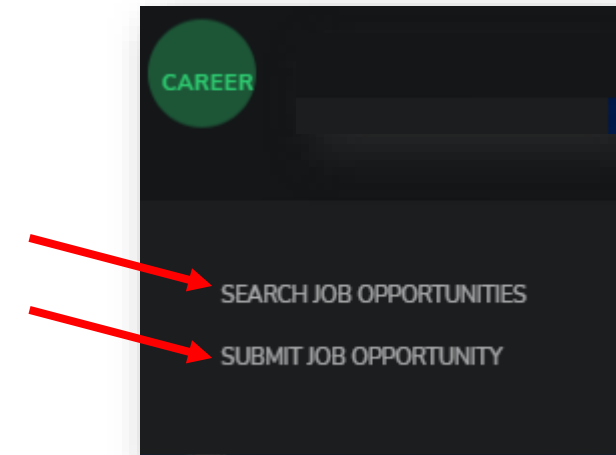
The National Career Center is one of the NAAAEA programs that strive to provide the members with services, programs, and resources to advance their career to the next level.

This tab include:

- **Search for Opportunity**, and
- **Submit Job Opportunity**

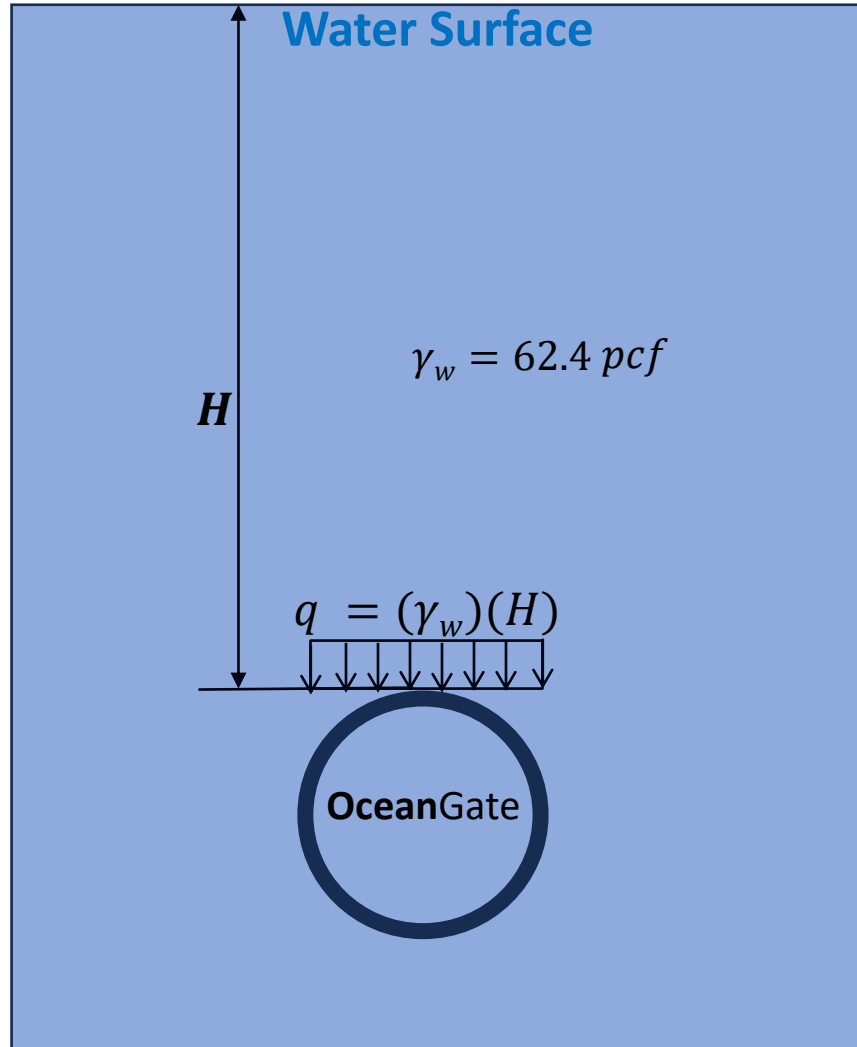
See <https://nationalaaaea.org/> website under “CAREER”.

Screen shot from the Website



# Article - Titanic Tourist Submersible – OceanGate

On June 22, 2023, the OceanGate's Titan submersible went missing shortly after descending toward the Titanic wreckage. After days of search, crews found debris from the vessel's exterior on the ocean floor and determined a "catastrophic implosion" occurred that killed all passengers on board.



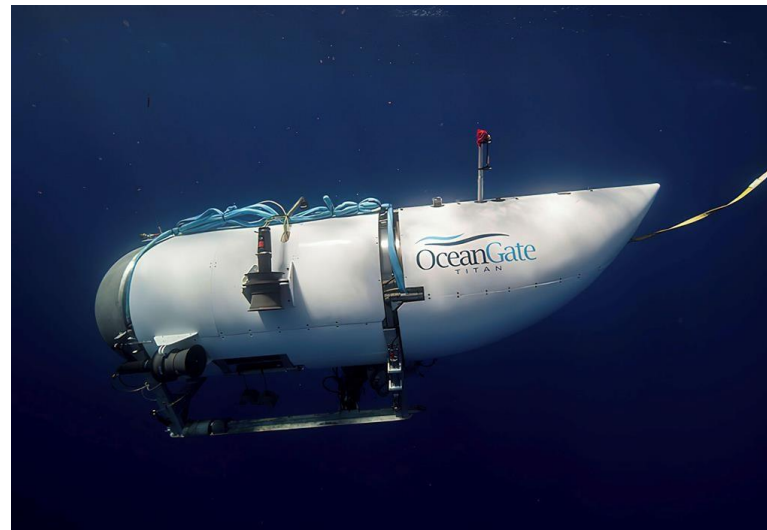
$H$  = Depth of the submarine below water surface = 4,000 meters = 13,120 feet

$\gamma_w$  = Density of water = 62.4 pound per cubic feet (pcf)

$q$  = Water pressure on the submarine in pound per square inch (psi)

$q = (\gamma_w)(H) = (62.4 \text{ pcf})(13,120 \text{ ft}) = 818,688 \text{ psf} = 5,685 \text{ psi}$

Compare this very high pressure on the OceanGate to other pressures: pressure on vehicle tire (32 psi), pressure on water mains (60 psi), high-pressure on gas mains (1,200 psi), atmospheric pressure at sea level (14.7 psi).



# Article – Context Matters (Context Sensitive Solution)

## Introduction

During World War II, fighter planes would come back from battle with bullet holes.

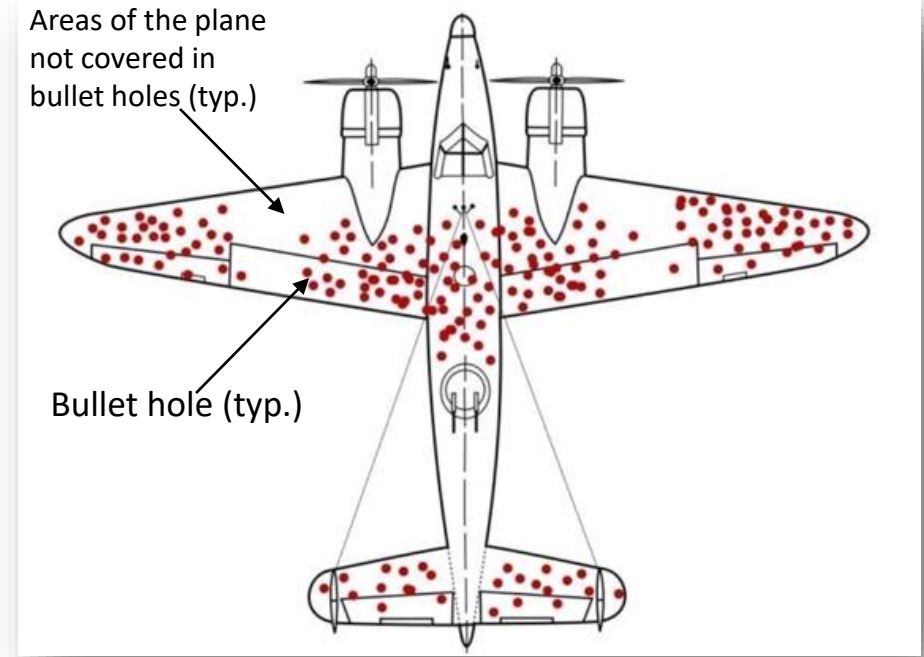
## Data Collection and Solution

The Allies found the areas that were most commonly hit by enemy fire, and they decided to strengthen the most commonly damaged parts of the planes to reduce the number that was shot down.

A mathematician, Abraham Wald, pointed out that there was another way to look at the data. Perhaps the reason certain areas of the plans were not covered in bullet holes was that planes that were shot in those areas did not return. **This insight resulted in the armor (additional steel plates) being installed on the part of the plane where there were no bullet holes.**

## Conclusion and Recommendations

- . The story behind the data is more important than the data itself.
- . The reason behind why we are missing certain data may be more meaningful than the data we have (context matters)
- . Take the time to do research to get past the headlines.
- . Take the time to do the research to understand the situation with the available data.





# Photo Article - Hardanger Suspension Bridge - Norway

- The longest suspension bridge in Norway
- Cost: \$600 million
- The bridge is 1,380 meters (4,530 ft) long
- The main span is 1,310 meters (4,300 ft) long
- The vertical clearance above water is 55 meters (180 ft)
- The towers are 200 meters (660 ft) above sea level
- Two vehicle lanes
- Separate lane for pedestrians and cyclists
- The traffic volume is 2000 vehicles per day.
- The main span is one of the longest suspension bridges in the world



## Submit an Article or a Photo Article

All are invited to submit an article to be published in the NAAAEA Newsletter. The article will also be uploaded to the NAAAEA website.

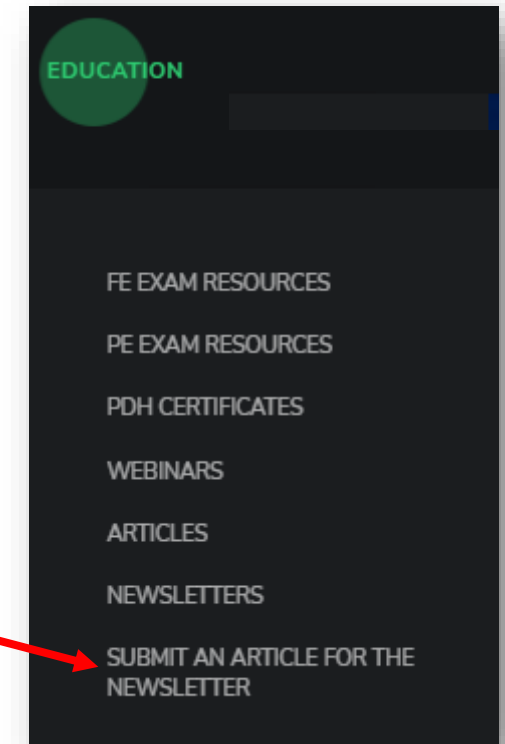
Technical articles related to the following fields are encouraged: Engineering (all disciplines), Architecture, and Information Technology.

Other topics are also encouraged, this include: leadership skills, time management skills, how to encourage volunteerism in not-for-profit organizations, etc.

Submit your article at <https://nationalaaaea.org/> website under "EDUCATION" tab "SUBMIT AN ARTICLE FOR THE NEWSLWTTTER"

Submit and Article

Screen shot from the Website



## 2023 NAAAEA Executive Board Monthly Meetings

Below is the 2023 schedule of the NAAAEA National Executive Board (NEB) Monthly Meetings. All are encouraged to contact us at <https://nationalaaaea.org/contact-us/> and show interest in **attending a board meeting**. The purpose of your attendance is to provide **feedback** to NAAAEA and let us know your **needs**.

### Schedule of NAAAEA Executive Board Monthly Meetings

#	Monthly Meeting from 7:00 pm to 8:00 pm CST (Last Thursday of the Month)
1	1/26/2023
2	2/23/2023
3	3/30/2023
4	4/27/2023
5	5/25/2023
6	6/29/2023
7	7/27/2023
8	8/31/2023
9	9/28/2023
10	10/26/2023
11	11/30/2023 - Thanksgiving day
12	12/28/2023



## 2023 NAAAEA National Executive Board (NEB) names and Contacts

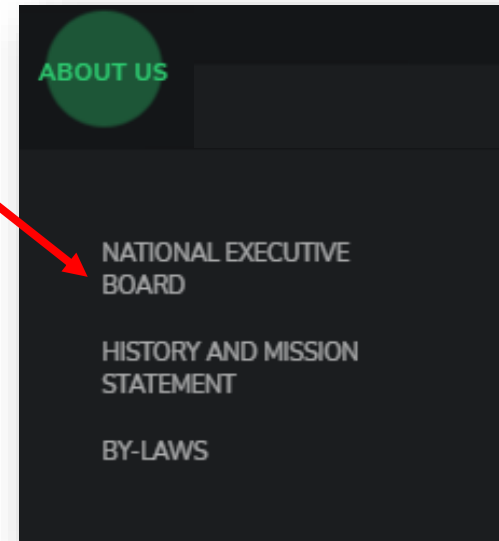
Contact us. Let us know **your needs**

### 2023 NAAAEA National Executive Board (NEB)

#	2023 NEB members	Chapter	NEB Position	Email
1	<b>Dr. Soliman Khudeira, PhD, SE, PE</b>	IL	President	Soliman.Khudeira@iit.edu
2	<b>Abder Rahman Ghouleh, PE</b>	IL	Vice President	arghouleh@gmail.com
3	<b>Nabih Hussein, PE</b>	TX/Houston	Secretary	nabihhussein@gmail.com
4	<b>Hussam Alkhatib, PE</b>	IL	Treasurer	hussam.alkhatib@graef-usa.com
5	<b>Rami Asfahani, PE</b>	IL	IT Committee Chair	ramiasfahani@gmail.com
6	<b>Nabil Khatib, EIT</b>	CO	Education Committee Chair	nabeal.khatib@yahoo.com

<b>BOD</b>	<b>Dr. Hosam Salman, PhD, PE</b>	TX	BOD Chair	Hosam.Salman@wsp.com
------------	----------------------------------	----	-----------	----------------------

Screen shot from the Website



# Sponsorship Opportunity

The National AAAEA (NAAAEA) is a non-profit organization, and it is IRS Tax Exempt under Section 501(c)(3).

NAAAEA has nine (9) Chapters in various States in the USA. NAAAEA and its Chapters have an impressive track record of technical seminars, E-newsletter, professional engineering conferences, social networking events, introduction to the Fundamentals of Engineering (FE) Exam, introduction to the Principles and Practice of Engineering (PE) Exam, introduction to the Structural Engineering (SE) License Exam, tutoring programs for the SAT and ACT tests for high school students, a scholarship program for college students, Grants for college student initiatives, and Awards to students and professionals programs.

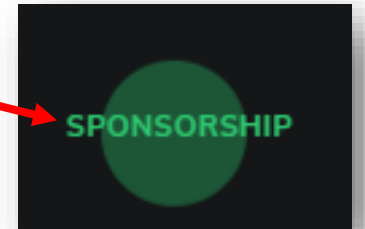
Sponsorship  
Opportunity

**Benefits of Sponsorship:** Sponsorship benefits include:

- Your company logo & name will be displayed on the home page of the National AAAEA Website with an active link to your company website
- Your company logo & name will be included in the NAAAEA E-Newsletter
- You can advertise job postings on the NAAAEA website and thru email.
- Your company logo & name will be recognized and displayed at the annual NAAAEA National conference

**Amount:** \$1000 – For a full year of benefits

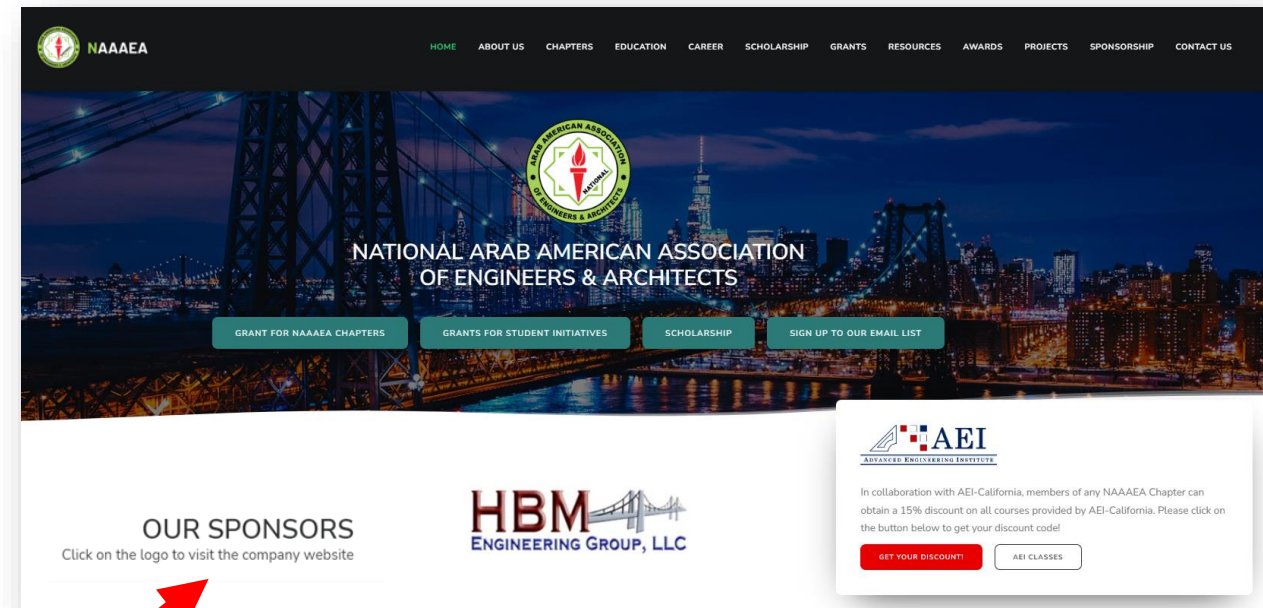
Screen shot from the Website



# Current NAAAEA Sponsors



## Screen shot from the home page of the Website



Current  
NAAAEA  
Sponsors

# Current NAAAEA Chapters

NAAAEA has currently nine Chapters listed below and shown on the map below.

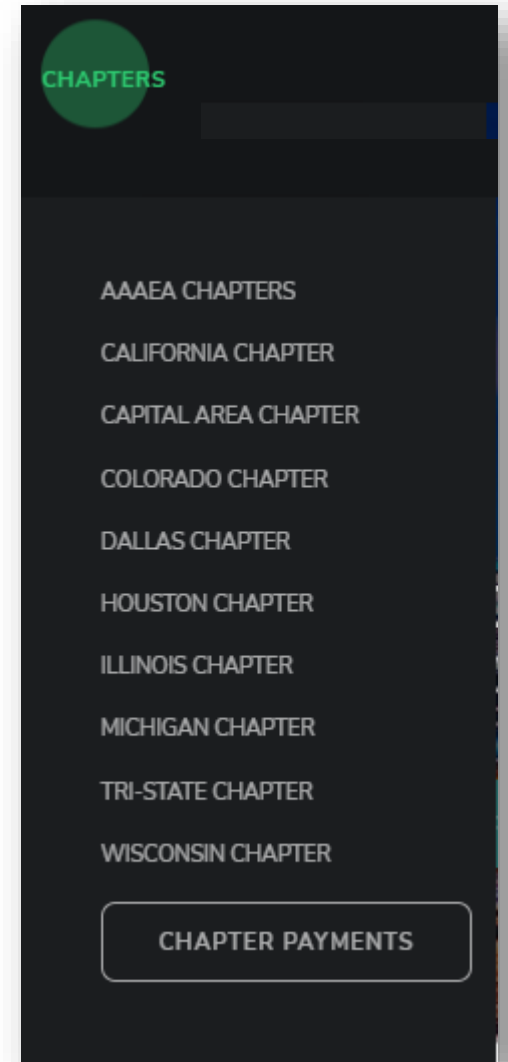
Click below on the chapter link shown below to visit the Chapter's website.

- [California Chapter](#)
- [Capital Area Chapter](#) (DC, VA, MD)
- [Colorado Chapter](#)
- [Dallas Chapter](#)
- [Houston Chapter](#)
- [Illinois Chapter](#)
- [Michigan Chapter](#)
- [Tri-State Chapter](#) (NY, NJ, CT)
- [Wisconsin Chapter](#)

A link to each Chapter is also provided on NAAAEA website <https://nationalaaaea.org/> under the "CHAPTERS" tab.



Screen shot from the Website



Current NAAAEA  
Chapters

## Interested in Forming a New NAAAEA Chapter?

If you are interested in forming a new NAAAEA Chapter, or if your existing organization wants to be a Chapter of NAAAEA, please contact us at <https://nationalaaaea.org/contact-us/>

Note: All NAAAEA Chapters must comply with NAAAEA By-Laws. [Click here](#) to learn more about NAAAEA By-Laws.

Click on the link below to download “How to Start NAAAEA Chapter in Your State”:  
<https://nationalaaaea.org/wp-content/uploads/2022/08/How-to-Start-an-NAAAEA-Chapter-in-your-State.pdf>

Forming a New  
NAAAEA Chapter



Map showing the current NAAAEA nine chapters. See <https://nationalaaaea.org/> website under the “CHAPTERS” tab for a link to each chapter website

### Screen shot from the Website

If you are interested in forming a new NAAAEA Chapter, or if your existing organization wants to be a Chapter of NAAAEA, please **Contact us**.

Note: All NAAAEA Chapters must comply with NAAAEA Mission. [Click here](#) to learn more about NAAAEA By-Laws.

HOW TO START NAAAEA CHAPTER IN YOUR STATE

# Policy and Guideline on How to Start NAAAEA Chapter in your State

## Follow the following steps and guidelines

1. Review the NAAAEA By-Laws. Specifically see “ARTICLE II – CHAPTERS, RULES AND REGULATIONS”. The NAAAEA bylaws can be found online <https://nationalaaaea.org/> under the “ABOUT US” tab.
2. For a chapter to be formed, a group of at least 10 Arab American Engineers, Architects, or Information Technology professionals need to show interest in forming a chapter of NAAAEA (per Article II, Section 2 of the By-Laws)
3. The 10 professionals need to submit a petition to NAAAEA requesting to be recognized as a Chapter in their geographical area of the United States.
4. After NAAAEA approve the Chapter, the group needs to form a not-for-profit organization and register it in their State.
5. The group will need to apply for their own 501 (c)(3) designation from the Internal Revenue Service.

## Other Action items:

1. Elect officers from the group
2. Draft your own By-Laws (the National Board can assist)
3. Contact NAAAEA to provide you with your AAAEA State Logo
4. Establish a website (the National Board can assist)
5. Conduct monthly meetings
6. Establish Student Chapters in Universities in your state

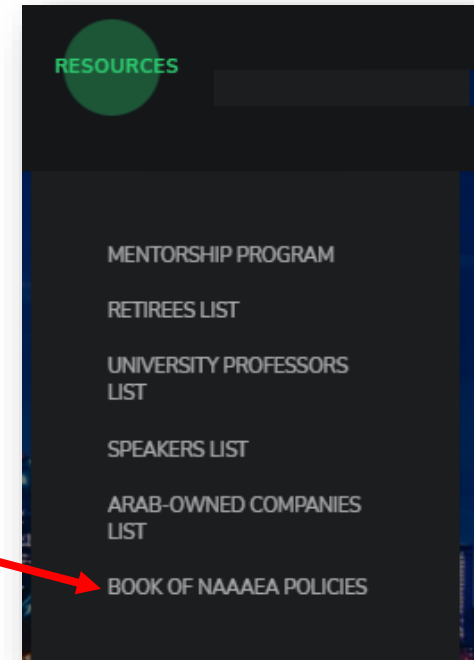
## NAAAEA Resources:

1. Visit <https://nationalaaaea.org/> web site and utilize the available resources
2. Contact NAAAEA for any of your needs
3. We can meet with your group or via Zoom or in person where possible to assist in your formation or to answer any questions

The Policy “How to start a Chapter” is available on the website [https://nationalaaaea.org](https://nationalaaaea.org/) in the “Chapters” tab

**NAAAEA  
Resources:  
Start a New  
Chapter**

Screen shot from the Website



# Outstanding Student Award

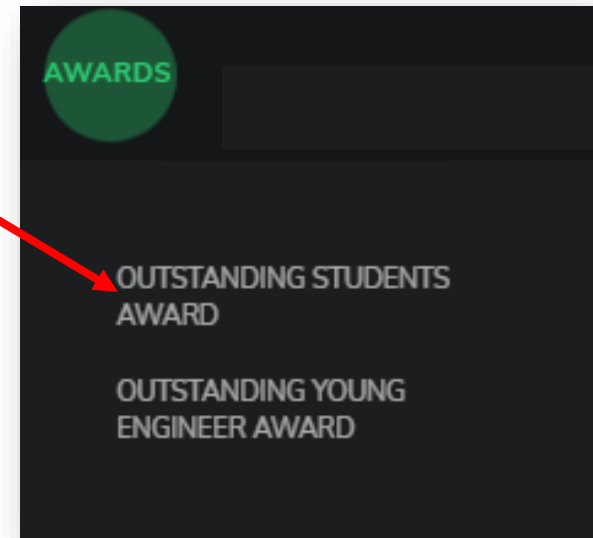
This NAAAEA **Outstanding Student Award** has been developed to encourage college students, who are members of any Chapter of NAAAEA, to be active with AAAEA and other professional associations, to volunteer their time with their community activities, and to be accomplished students at their university.

## ELIGIBILITY

All AAAEA student members aged **35** or younger who is recognized by colleagues for his/her outstanding achievements, are eligible to submit for this award. Nomination could be by the applicant, or by others who are familiar with the applicant involvements and accomplishments

See <https://nationalaaaea.org/> website under "AWARD" to apply for this Award or to nominate someone.

Screen shot from the Website





# Outstanding Young Engineer Award

This NAAAEA **Outstanding Young Engineer Award** has been developed to encourage young AAAEA members to be active with AAAEA and other professional organizations, obtain professional licensed early in their career, and encourage volunteerism in community activities.

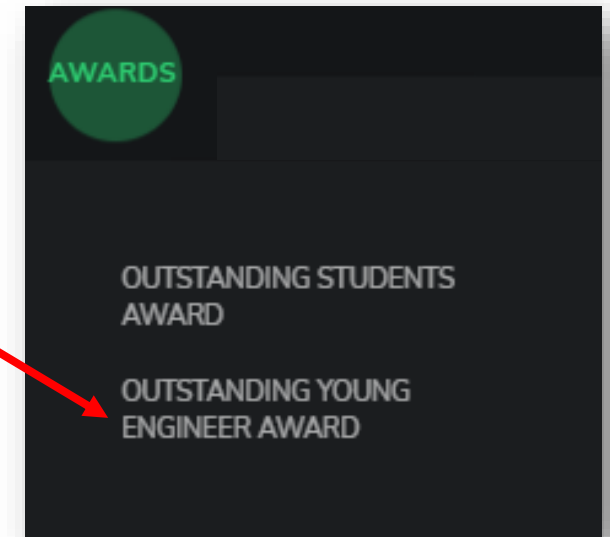
## ELIGIBILITY

All AAAEA members aged **40** or younger who is recognized by colleagues for his/her outstanding achievements, are eligible to submit for this award. Nomination could be by the applicant, or by others who are familiar with the applicant involvements and accomplishments

See <https://nationalaaaea.org/> website under "AWARDS" to apply for this award

Awards:  
**Outstanding  
Young Engineer  
Award**

Screen shot from the Website



# Projects by NAAAEA

The NAAAEA **Projects Program** is developed to provide technical assistance and initiate new projects in areas throughout the world, but especially in the Middle East. This program is modeled after the **Engineers Without Borders (EWB)** programs. However, the NAAAEA projects will be mainly in the Middle East, since EWB does not appear that they have projects in the Middle East.

## WHAT IS NEEDED FROM ALL

1. NAAAEA members (students or practicing engineers) are encouraged to show interest in this program. You can enter your information in the NAAAEA website (in the "PROJECTS" tab) and we will contact you once we have enough members that show interest in this program.
2. Company owners and other sponsors are encouraged to contribute funds and/or technical expertise.
3. You can contact agencies in the Middle East and encourage them to submit their project needs to NAAAEA. NAAAEA will investigate the feasibility of the project and implement, if found feasible.

## TYPE OF POTENTIAL PROJECTS

1. Clean water infrastructure/treatment/purification
2. Water collection and distribution
3. Sustainable/renewable energy
4. Pedestrian bridges
5. Sustainable housing
6. Sustainable heating and cooking facilities utilizing efficient energy sources
7. Education and training
8. Sanitation infrastructure
9. Other projects, as suggested by NAAAEA community, or as requested by the needed area

See <https://nationalaaaea.org/> website under "PROJECTS" to participate in this program



Projects by  
NAAAEA

Screen shot from  
the Website



## NAAAEA Virtual Visit to a Chapter

The NAAAEA Board have been visiting the chapters virtually.

### The purpose of these visits:

1. Brief the chapter leadership on the current NAAAEA programs
2. Solicit feedback on these NAAAEA programs
3. Answer questions about NAAAEA
3. Identify your Chapter's needs and how NAAAEA can help
4. Any other related topic your board want to discuss

The Chapter can either schedule a septate meeting for this visit or allocate 30 minutes for NAAAEA at your next monthly board meeting.

**All Chapters are encouraged to contact NAAAEA to schedule a date and time for the virtual visit. NAAAEA will then arrange the meeting platform and send the Zoom invite.**

**NAAAEA Virtual  
Visit to a Chapter**

# Sign up to our Email List

Sign Up to  
Our Email List



Go to <https://nationalaaaea.org>

On the Home page, Click on **“Sign up to our Email List”**

# Contact Us

Contact  
NAAAEA



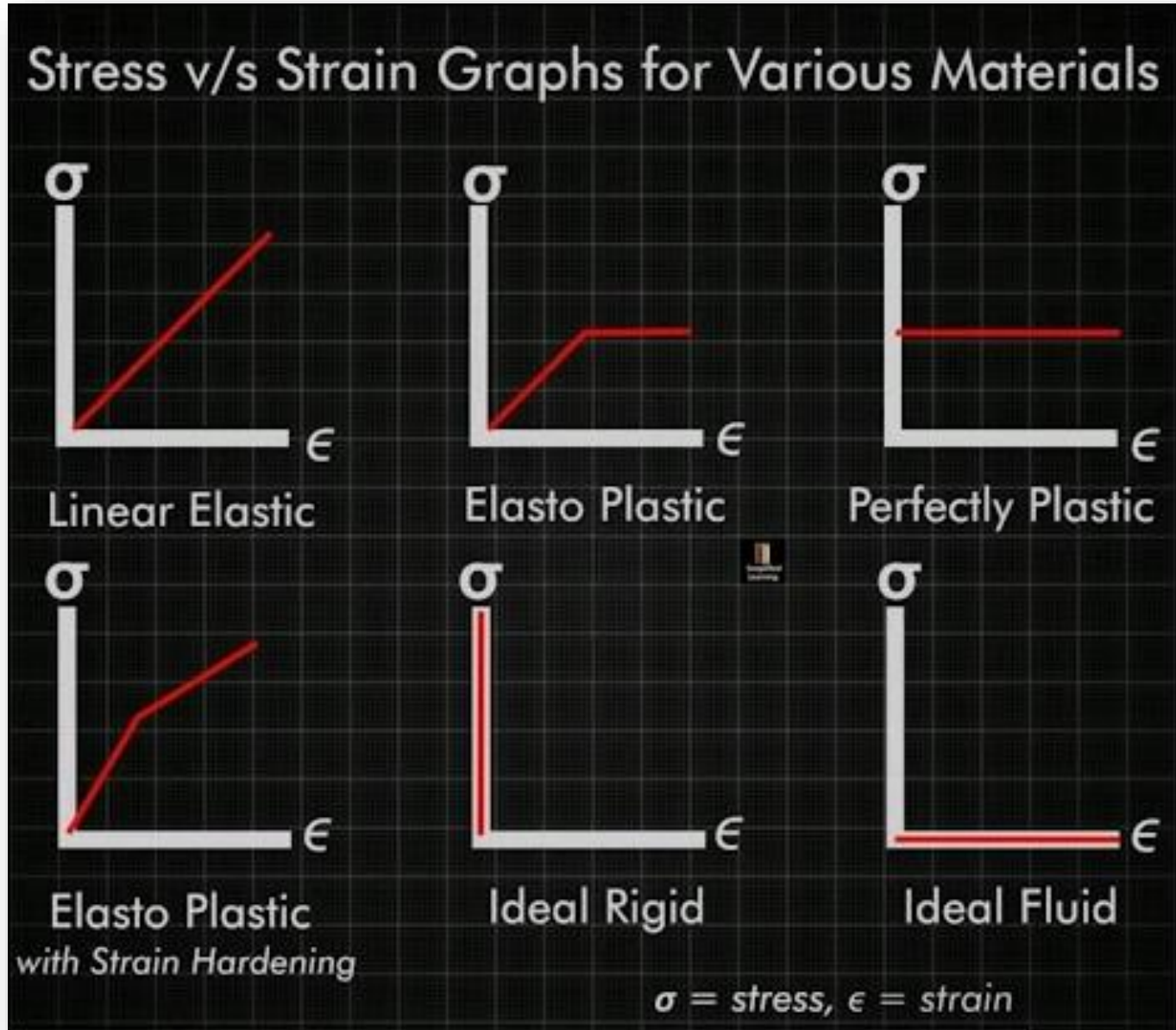
Go to <https://nationalaaea.org>

On the Home page, Click on **“Contact Us”**



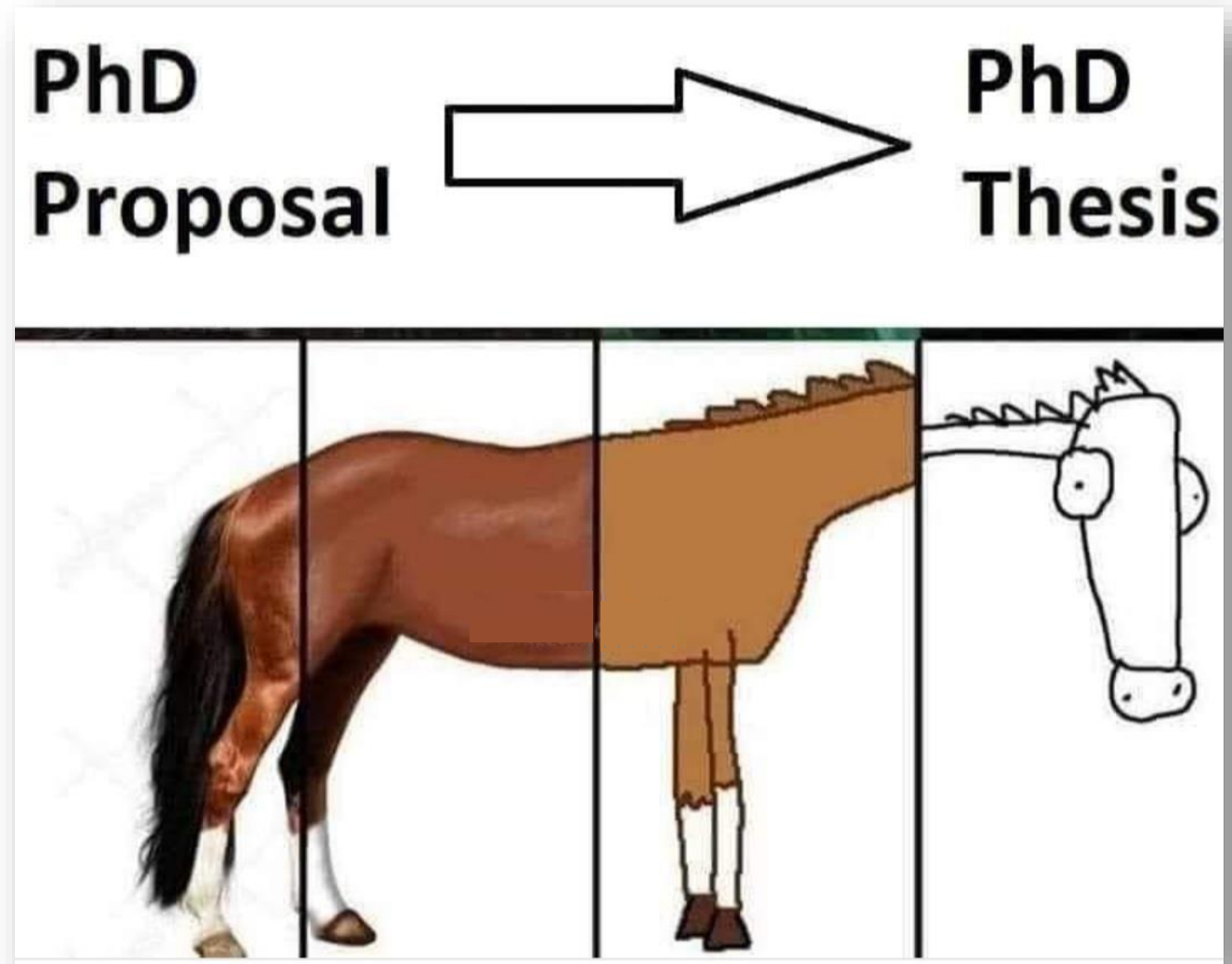
# Open Corner

Open  
Corner



# Open Corner

Open  
Corner





# Open Corner

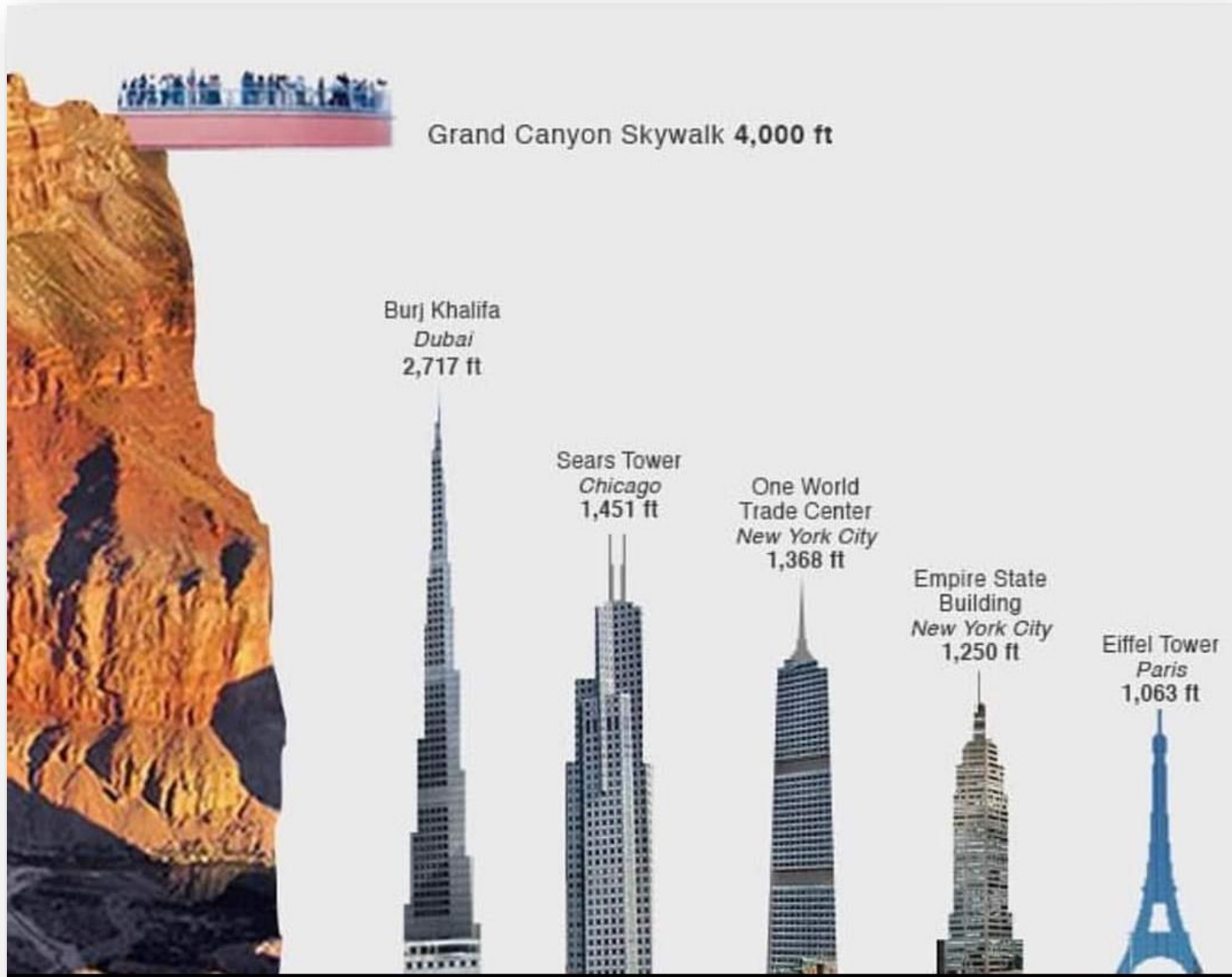
## How Tilted are the Planets?

Open  
Corner



# Open Corner

Open  
Corner



# Open Corner

Open  
Corner

AS I LOOK BACK  
ON MY LIFE, I REALIZE  
THAT EVERY TIME I  
THOUGHT I WAS BEING  
**REJECTED**  
FROM SOMETHING GOOD,  
I WAS ACTUALLY  
BEING RE-DIRECTED  
TO SOMETHING BETTER.

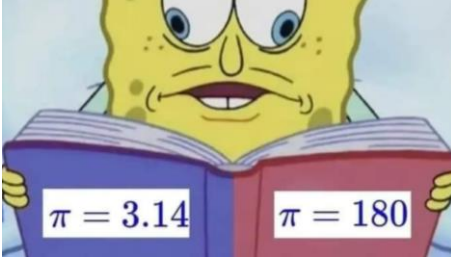
# Open Corner

Open  
Corner

“Education is not the learning of facts, but the training of the mind to think!”

“The best teachers are those who show you where to look, but don't tell you what to see”

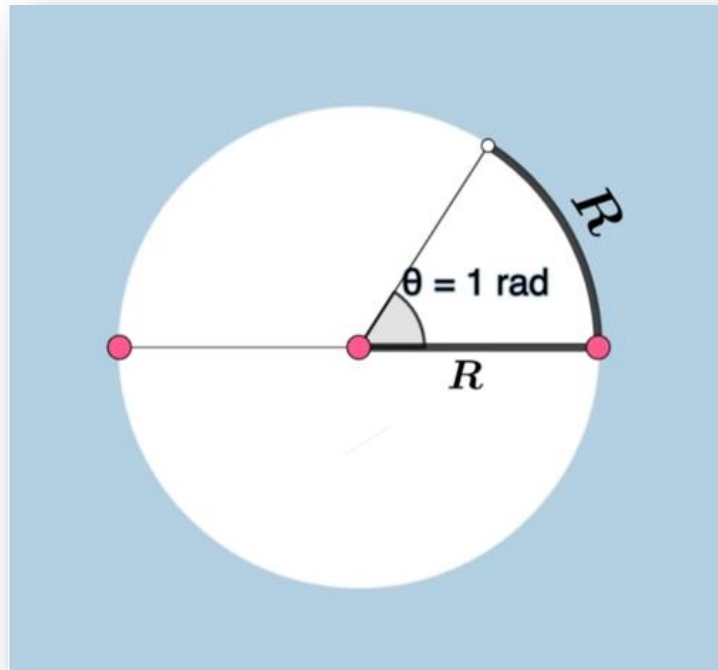
# Open Corner



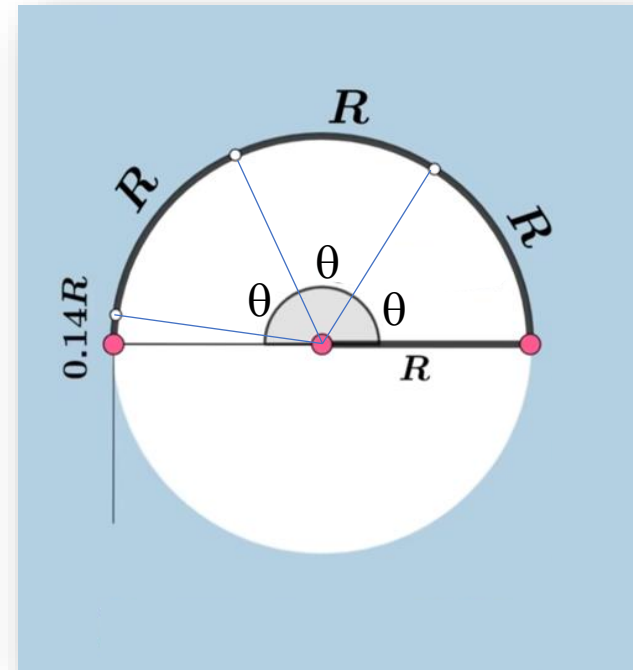
Why is  $\pi$  (rad) = 180 (degrees) ?

Why is  $\pi = 3.14$  (rad) ?

Open  
Corner



An angle ( $\theta$ ) that is 1 rad is defined as the angle that has an arc length =  $R$  (as shown above)



180 degrees = (1 rad + 1 rad + 1 rad + 0.14 rad) = 3.14 rad =  $\pi$



# Open Corner

why  $\pi = 3.14159265358979323846264338327950288419716939937510582097494\dots\dots\dots$ ?

$\pi$  have been calculated to 31 trillion digits!!!

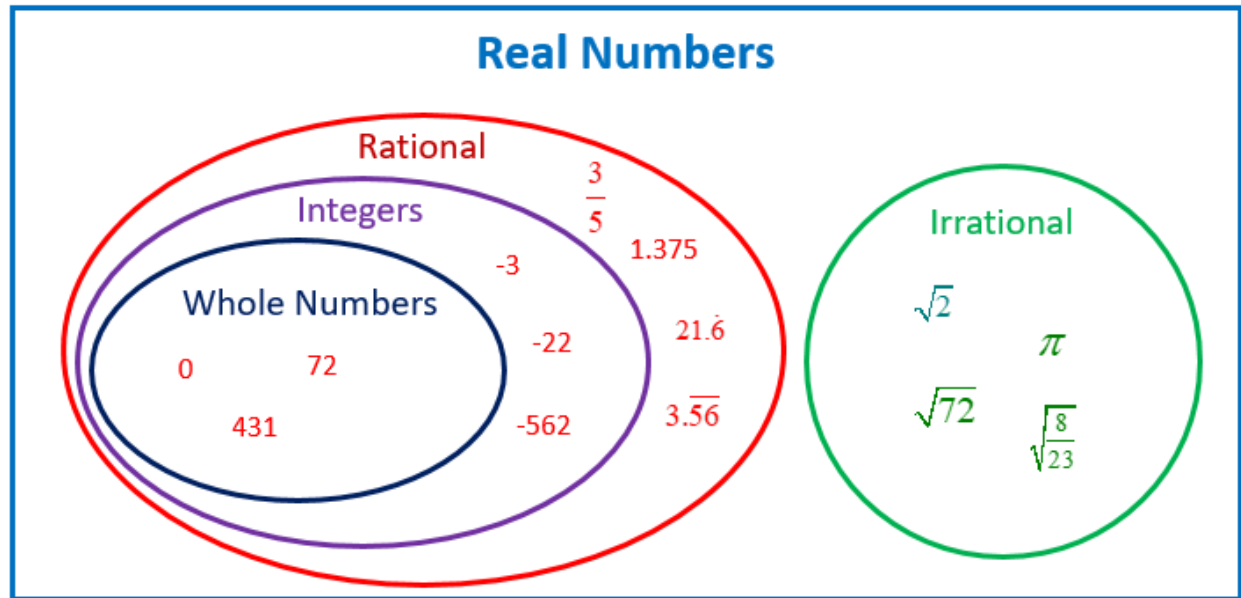
$$\pi = \frac{\text{Perimeter (circumference)}}{\text{Diameter}} = \frac{2\pi R}{2R} = 3.141592653589793238\dots\dots\dots$$

**Irrational Number:** Any real number that cannot be written as a ratio (p/q) of two integers

Example of **irrational** number is  $\sqrt{7}$ .

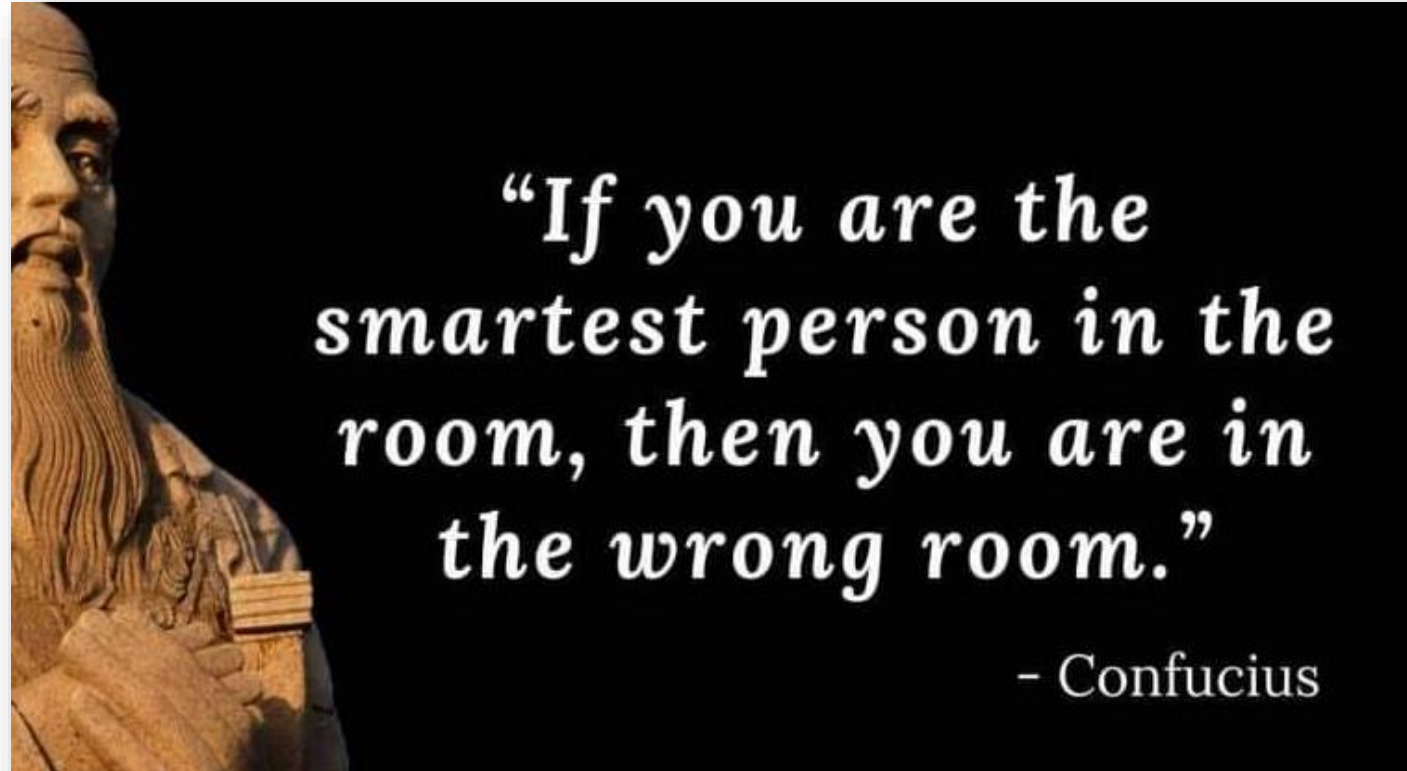
Example of **irrational** numbers:  $\pi = 3.14115926\dots\dots$  because the numbers do not terminate, and these numbers are not repeating.

Example of **rational number**: 0.33333333 is a rational number because the pattern of 3's after the decimal repeat infinitely. This means that the number can be converted into the fraction  $p/q = 1/3$ .



# Open Corner

Open  
Corner





# Open Corner

Open  
Corner

## Type of minds vs. topics discussed

A minds..... talk about ideas

B minds..... talk about events

C minds..... talk about people

D minds..... talk about the “nothings”

# The Evolution of Education

Open  
Corner

1970



Calculate the surface area of the object.

1985



Calculate the surface area of the rectangle.

2000



Calculate the surface area of the rectangle, multiplying the length by the width.

2010



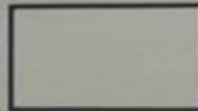
Choose the correct answer.  
What is the surface area of the rectangle?  
 4000  
 600  
 800000

2015



Choose the correct answer.  
What is the surface area of the rectangle?  
 Michael Jackson  
 Canada  
 600  
 Breakfast

2018



Color the rectangle with the color you prefer.

End

| [www.nationalaaaea.org](http://www.nationalaaaea.org) | [info@nationalaaaea.org](mailto:info@nationalaaaea.org) |