

# ASCE

## AMERICAN SOCIETY OF CIVIL ENGINEERS SAN BERNARDINO & RIVERSIDE COUNTIES BRANCH LOS ANGELES SECTION , REGION 9-SINCE 1953

### PRESIDENTS MESSAGE

April 2013



There's the old adage "time flies when you're having fun". That seems to be true here. We have just gone by the first quarter of the calendar year and we are half way through the ASCE year. The Branch and the Younger Member Forum have accomplished a lot this year and we have a lot to finish the rest of this year.

We have had many great meetings so far this year. Coming up soon is our Annual Awards Meeting which we all look forward too. But before the meeting we need the nominations and selections of the project awards for the year.

Our categories this year are similar to years past with a minor clarification in one category. Our Civil Engineer of the Year has 3 categories, Private Sector Engineer, Public Sector Engineer and Young Civil Engineer of the Year. Also are the Outstanding Civil Engineering Project of the Year and the Civil Engineering Improvement Project of the Year awards. This year the Civil Engineering Improvement Project of the Year is redefined to include improvements to existing facilities or infrastructure.

Also this is the time of the year when we present the student scholarships. Scholarships are being offered by both the Branch and the Younger Member Forum.

This is our biggest event of the year and is always well attended. This is also a great time to be a meeting sponsor and the opportunity for advertising your company. See pages 10-12 for the application for project nominations and as always we look forward to seeing you at not only our Annual Awards meeting but also our regular monthly meetings.





The Woolworth Building is unusual among skyscrapers for having been financed in cash. Its owner was five and dime king, Frank W. Woolworth, who in 1910 commissioned architect Cass Gilbert to design a Gothic-style skyscraper to soar above City Hall Park on a full-block site on Broadway between Park Place and Barclay Street. The height and cost escalated from an estimated 625 feet and \$5 million to the final of 792 feet for \$13.5 million. The extensive foundations and wind-bracing necessary for a tall and slender tower and the elaborate terra-cotta exterior and sumptuous lobby desired by Woolworth helped to inflate the costs. Until recently, however, the building never had a mortgage--an unusual circumstance for any large commercial structure. When the Venator Group (formerly the Woolworth Corporation) announced on June 23, 1998 that it would sell the tower to the Witkoff Group for \$155 million, the building changed hands for the first time in its 85 year history.

Praised in 1913 for its "success of scale," the building remains a much admired structure. The cruciform plan of the ornate lobby evokes religious architecture; an extensive sculptural program graces the yellow marble interior, including medieval-style caricatures of Mr. Woolworth counting his dimes and of Gilbert cradling a model of the building. Gold tesserae and allegorical

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# April Meeting

## HOT Lanes Are Heating Up

***Tim Haile, PE***

***Managed Lanes Technical Services Leader  
RBF Consulting, a Michael Baker Company***

Managed Lanes (aka HOT Lanes aka Toll Lanes) are lanes in which operational strategies are implemented and managed in real time in response to changing conditions. Managed lanes are becoming the national trend in the transportation industry for managing congestion and alternative financing. Please join Tim Haile, Managed Lanes Technical Services Leader, for a brief introduction to managed lanes and projects nationwide.

**Date:** Wednesday, April 17, 2013

**Time:** 11:30am to 1:00pm

**Location:** Old Spaghetti Factory, 11896 Foothill Blvd.  
Rancho Cucamonga, Ca. 91730

**Cost:** \$25 members w/ RSVP  
\$30 non-members or no RSVP  
\$15 students

**Deadline:** Please reserve by April 10, 2013

**Additional Info:**

Brandon Reyes, P.E.

[breyes@rbf.com](mailto:breyes@rbf.com), (909) 974-4967

or

Kenneth Cox, G.E.

[cox@geoconinc.com](mailto:cox@geoconinc.com), (951) 304-2300



# Woolworth Building Continued

murals of Commerce and Labor cover the vaulted ceiling. The opening ceremonies on April 24, 1913 were as fantastic as the structure itself. President Wilson pressed a button in the White House that night and simultaneously lit up every interior floor and the exterior floodlights which illuminated the facade. It was during this same opening celebration that the Reverend S. Parkes Cadman provided the Woolworth Building with the epithet the "Cathedral of Commerce."

## 2013 REPORT CARD for \*\*\* america's INFRASTRUCTURE

### The Grades Are Out!

The new ASCE 2013 Report Card for America's Infrastructure is now available at [www.infrastructurereportcard.org](http://www.infrastructurereportcard.org) and as a tablet and phone app on the iTunes and [Google Play](#) stores.

Every four years, ASCE issues the Report Card which evaluates conditions and investment needs for major sectors of infrastructure — including roads, bridges, drinking water systems, ports, mass transit, and the electric grid. This year's Report Card covers 16 infrastructure categories, and it's being released as a digital application that includes videos, interactive maps, and other multimedia tools. For the first time, the 2013 Report Card provides information for all 50 states, including examples of initiatives and innovations that are making a difference. For example, Oklahoma created a plan to replace or rehabilitate over 950 structurally deficient bridges between 2013 and 2020. Philadelphia implemented a program to improve resiliency and address combined sewer overflows using green infrastructure, capable of capturing water from all but the most severe storms.



Be the first to get the new Report Card at [www.infrastructurereportcard.org](http://www.infrastructurereportcard.org), and just as importantly, share the grades in your social and professional networks via [Facebook](#), [LinkedIn](#), and [Twitter](#)! We hope everyone will be able to use this great product to get even more people involved in the conversation around our nation's infrastructure.

## BOARD OF DIRECTORS 2012-2013

### President

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**US Army Corps  
of Engineers®**  
Los Angeles District

The U.S. Army Corps of Engineers, Los Angeles District is looking for a Supervisory Civil Engineer (Structural). The Los Angeles District provides civil works and military engineering support to Southern California, Nevada, Arizona, and parts of Utah. The Los Angeles District Headquarters is located in downtown Los Angeles. Interested applicants are encouraged to apply at [www.usajobs.gov](http://www.usajobs.gov)

For all Federal employees serving on a career or career-conditional appointment the Job Announcement Number is: WTKC13523232862427

For all other U.S. Citizens the Job Announcement Number is: WTKC13523232862411D

The Announcement Period is Monday, April 01, 2013 to Sunday, April 14, 2013

For more information about the U.S. Army Corps of Engineers, Los Angeles District please click the following link:

<http://www.spl.usace.army.mil>



**Your San Bernardino/Riverside ASCE Branch  
has joined social media!**

ASCE San Bernardino/Riverside is announcing we have joined the social media network Twitter to expand and enhance our communication and outreach with our professional engineering network.

**Please follow us on twitter @ASCESBRIV**

Feel free to check us out, give us a follow,  
and spread the word!

**WHEN IT'S  
OVER, IT'S  
OVER!  
DON'T  
WORRY.  
ASCE YMF  
STILL LOVES  
YOU.**



**ASCE**  
LOS ANGELES SECTION  
YOUNGER MEMBER FORUM

# PE BOOTH, HAPPY HOUR & SOCIAL EVENT

FOR MORE INFO ON HOW TO BECOME AN ASCE MEMBER, CONTACT:

LOS ANGELES: PHILLIP DAVIES  
[PHILLIP.DAVIES@HATCHMOTT.COM](mailto:PHILLIP.DAVIES@HATCHMOTT.COM)

ORANGE COUNTY: RAVI SHAH, P.E.  
[RAVI.SHAH@HDRINC.COM](mailto:RAVI.SHAH@HDRINC.COM)

SAN BERNARDINO-RIVERSIDE:  
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SOUTHERN SAN JOAQUIN:  
KARL SCHWARTZ, P.E.  
[KSCHWARTZ@BSKINC.COM](mailto:KSCHWARTZ@BSKINC.COM)

VISIT [WWW.ASCELASECTION.ORG](http://WWW.ASCELASECTION.ORG) TO  
CONNECT TO ALL OF THE YMF'S

**WHEN: FRIDAY, APRIL 12, 2013**  
**MEMBERSHIP BOOTH**

**WHERE: POMONA FAIRPLEX**

**TIME: LUNCH 12-1PM**

**POST PE EXAM SOCIAL EVENT**

**WHERE: WAREHOUSE PIZZA**

**2340 D STREET**

**LAVERNE, CA 91750**

**TIME: AFTER THE PE EXAM (5-8PM)**

**COST: FREE**

**WHO: EVERYONE IS INVITED... ESPECIALLY  
TEST TAKERS**

FOR MORE INFO, CONTACT MELISSA BARBOSA, SB/R YMF PRESIDENT  
ELECT AT [MBARBOSA@CI.AZUSA.CA.US](mailto:MBARBOSA@CI.AZUSA.CA.US) OR (626) 488-2797

# Popsicle Stick Bridge Competition

By: Mai Son, P.E.

After months of research, hard work, preparation and dedication, the students wait in nervous anticipation to see how much weight their bridges could support. The loading begins! 10, 50, 100, 250 pounds...the bridge is still intact! 350, 450, 550 pounds...the bridge is still holding strong. 650, 750...800 pounds...! The bridge is still managing to support the weight. 850...870...880...881...882...883 pounds...and then the bridge snaps. Approximately 1 pound of popsicle sticks and glue skillfully designed and constructed was able to support a whopping 883 pounds! AMAZING! While the goal is to construct the strongest Popsicle Stick Bridge given the criteria, the Popsicle Stick Bridge Competition was also designed to encourage the development of problem solving skills and to promote collaborative team work and effective communication skills.

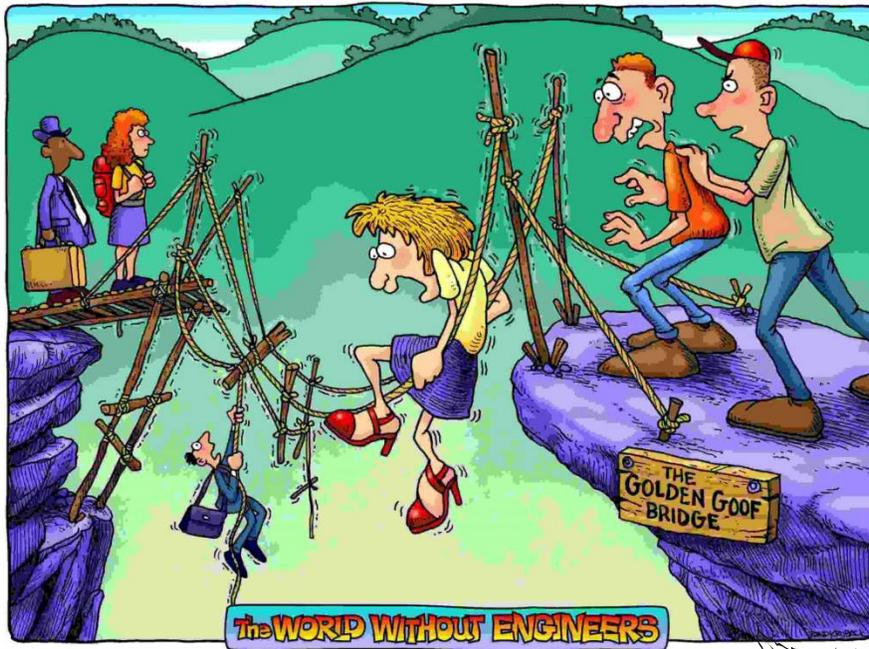
The 19th Annual Popsicle Stick Bridge Competition was held on Saturday, February 26th at the Los Angeles Union Station. With approximately 46 teams registered and close to 100 volunteers, the Los Angeles Union Station was buzzing with over 360 participants – parents, teachers, students and volunteers combined. Each team consisted for 2 to 4 students. The students were encouraged to work together to design and creatively construct a popsicle stick bridge that would fit inside a 36” long, 10” high and 5” wide box. In addition, the students were tasked with writing a technical paper and preparing for a 5 minute presentation detailing the design and construction process and the problems encountered.

Congratulations to all of the students for all of their hard work!



Summit High School Students, 2nd Place in Technical Paper Category and 2nd Place in New Competing Schools Category

Cartoon By: Rand Kruback



*Lighter Side*

## Introduction to WQMP updates for Riverside County

By: Julianna Gonzalez

The local San Bernardino/Riverside County ASCE Branch and YMF had the opportunity to host a WQMP update training seminar for Riverside County. The event was a great success! Leading up to the January 28<sup>th</sup> seminar, we had a very positive response from our membership and filled the first class quickly. As such, we decided to add a second class on February 13<sup>th</sup> which drew a full room as well. It was clear from the response of our membership, good mix of public and private workers, and all the positive feedback, that there is a need to stay current with the ever changing State laws regarding land development and redevelopment in Riverside county.

The morning session of the presentation included a history of the WQMP document, common mistakes made by engineers preparing a WQMP, and highlighted key sections in the Counties guidance document to aid in preparing a sound WQMP. The afternoon session focused on an example of how to analyze a site for LID application, what works and what doesn't, and real world examples. The instructors Lisa Skutecki and Dan Cloak did a great job answering all of the questions that came up during and after the presentation. In addition, Riverside County Flood Control also made a Santa Ana Watershed representative available to answer specific questions regarding the permit that were asked. Overall the professional workshop was a great success!

For those interested in the presentation, it can be found at: <http://dancloak.com/>. We plan on having more training in the future, so look out for those flyers.





# ASCE

LOS ANGELES SECTION  
San Bernardino-  
Riverside Branch  
YOUNGER MEMBER FORUM

## Technical Tour Palm Springs Aerial Tramway

Did you know that there is an aerial tramway located in Palm Springs that was constructed in rugged Chino Canyon on the north end of Palm Springs? Did you know that the Tramway was originally constructed in 1963 and modernized in 2000? Did you know that the Tramway is the world's largest rotating tramcar? Did you know that the Tramway was designated as a historical civil engineering landmark by ASCE-Los Angeles Section?

If you did not know any of the above facts, then this technical tour is for you!! We have an opportunity to see many components and also ride on this engineering marvel. The tour will consist of a ride up the mountain, a view of the powerhouse, control room, as well as the other topics many don't realize are a part of the Tramway like septic and water.

Note: This tour is open to a maximum of 20 people, please RSVP early.

**When:** Friday, May 10, 2013

**Where:** Palm Springs Aerial Tramway

**Address:** One Tram Way,  
Palm Springs, CA 92262

**Time:** 9:30 am–Noon

**Primary Contact:** Mark Swanson

**Required:** Closed-toe Shoes

**Cost:** \$25 members

\$30 non-members

It is recommended that attendees bring a sweater or a jacket. In May, it may be in the 90's in Palm Springs, but the temperatures drop 30-40 degrees when at the top of the mountain.



If you have any questions, email or call.  
Please confirm attendance by Friday, April 26, 2013.

Contact: Mark Swanson, P.E.  
SB/RIV YMF Vice President  
Phone 909-802-0587  
E-mail: mswanson@aei-casc.com

**DO NOT MISS OUT ON A VIEW LIKE THIS!!**

**AMERICAN SOCIETY OF CIVIL ENGINEERS**  
San Bernardino & Riverside Counties Branch  
2012-2013 Annual Outstanding Achievement Awards



The San Bernardino & Riverside Counties Branch of the American Society of Civil Engineers has an annual awards program to recognize local outstanding projects and engineers. Nominations must be postmarked by May 31, 2013. Award winners will be notified by June 11, 2013 and the awards luncheon will be held at a location TBD in late June. Mail completed nomination forms and support information to:

Matthew Addington, P.E., P.L.S.  
P.O. Box 1545  
Guasti, CA 91743  
(909) 477-2710  
[matthew.addington@cityofrc.us](mailto:matthew.addington@cityofrc.us)

All nomination forms and supporting documents are the property of the San Bernardino & Riverside Counties Branch and may be used at the Branch's discretion. Submittals shall not be returned to the applicant. For additional information, please contact Matthew Addington.

*The Branch has established the following awards for 2012-2013:*

**Civil Engineer of the Year: Private, Public (Government) & Young**

The Civil Engineer of the Year Award recognizes individuals who best exemplify the civil engineering profession. The nominees shall be worthy of acknowledgement through their exemplary professional conduct, reputation, achievement, and contribution to the image of the civil engineer. There will be up to three awards given out: Private Civil Engineer of the year, Public Civil Engineer of the year and Young Civil Engineer of the year.

Each nominee must be an ASCE National member and a member of the San Bernardino & Riverside Counties Branch. The nominee must work and/or reside within the boundaries of the Branch for a minimum of 18 months prior to the award. Young Civil Engineer Awards nominees must be 35 years of age or younger as of the postmark date identified herein. Past recipients of these awards are not eligible.

Selection of the Civil Engineer of the Year Awards shall be based on the following criteria; education and professional qualifications such as degrees held, projects completed, patents, publications, presentations, and teachings, professional qualities including society affiliations, offices held, leadership skills, professional conduct, reputation for service, character, integrity, contribution to the image of the civil engineer through community service, volunteer work, public education, honors and awards.

All applications for the Civil Engineer of the Year Awards shall include the following (total application packet limited to five pages); completed award program entry form, description of how the individual meets the above listed criteria (two page limit), biography or resume (one page limit), copies of the newspaper or journal articles and other supporting information, if applicable.

**Outstanding Civil Engineering Project Award**

This award acknowledges outstanding examples of civil engineering achievement. Local projects shall be considered for their innovation, uniqueness, complexity, and benefit to society. Any civil engineering project currently in use and completed within the previous 18 months is eligible. The project must be located within the boundaries of the San Bernardino & Riverside Counties Branch. Each project will be evaluated on the following criteria; innovative design and/or construction benefit to the community, project complexity and/or challenges, impact on physical environment, unique operation or maintenance, aesthetics.

All applications for the Outstanding Civil Engineering Project Award shall include the following; completed award program entry form, description of the project and how it meets the above listed criteria (two page limit), at least one color photograph or color photocopy of the project, copies of the newspaper or journal articles about the project, if applicable.

**Outstanding Civil Engineering Project Improvement Award**

This award acknowledges examples of outstanding civil engineering achievement for improvement of existing facilities. Local projects shall be considered for their innovation, uniqueness, complexity, and benefit to society. Any civil engineering project currently in use and completed within the previous 18 months is eligible. The improvement must be to increase capacity of the original facility or to bring existing systems into compliance with current regulations. The project must be located within the boundaries of the San Bernardino & Riverside Counties. Any project that previously received the award for Civil Engineering Project Improvement Award is not eligible for nomination for any subsequent improvements. Each project will be evaluated on the following criteria; innovative design and/or construction benefit to the community, project complexity and/or challenges, impact on physical environment, unique operation or maintenance, aesthetics.

All applications for the Outstanding Civil Engineering Project Improvement Award shall include the following; completed award program entry form, description of the project and how it meets the above listed criteria (two page limit), at least one color photograph or color photocopy of the project, copies of the newspaper or journal articles about the project, if applicable.

(NOMINATION FORM ATTACHED)

Please complete one form for each nomination.

CIVIL ENGINEER OF THE YEAR: PRIVATE / GOVERNMENT / YOUNG (circle one)

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

Title: \_\_\_\_\_

Employer: \_\_\_\_\_

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

Phone: \_\_\_\_\_ e-mail: \_\_\_\_\_

On a separate sheet of paper, please provide the following information about the nominee; education and professional registration, work experience, professional and society affiliations, patents, publications and presentations, community service and public education, honors and awards.

OUTSTANDING CIVIL ENGINEERING PROJECT

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

Project Address or Location: \_\_\_\_\_

Project Owner Name or Company: \_\_\_\_\_

Contact Person: \_\_\_\_\_

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

Phone: \_\_\_\_\_ e-mail: \_\_\_\_\_

On a separate sheet of paper, please provide the following information on how the project meets the criteria for this award. Consider all phases of the project, including planning, design, construction, and operation maintenance. Describe any special features, innovations, and challenges. Include information on the environmental impacts and public benefits of the project, a color photograph of the project and any articles from trade journals or newspapers about the project.

OUTSTANDING CIVIL ENGINEERING PROJECT IMPROVEMENT

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

Project Address or Location: \_\_\_\_\_

Project Owner Name or Company: \_\_\_\_\_

Contact Person: \_\_\_\_\_

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

Phone: \_\_\_\_\_ e-mail: \_\_\_\_\_

On a separate sheet of paper, please provide the following information on how the project meets the criteria for this award. Consider all phases of the project, including planning, design, construction, and operation maintenance. Describe any special features, innovations, and challenges. Provide information on how the project merges with the original facility. Include information on the environmental impacts and public benefits of the project, a color photograph of the project and any articles from trade journals or newspapers about the project.

(The following must be completed with each nomination)

THIS NOMINATION HAS BEEN SUBMITTED BY:

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

Title: \_\_\_\_\_

Employer: \_\_\_\_\_

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

Phone: \_\_\_\_\_ e-mail: \_\_\_\_\_

All nomination forms and supporting documents are the property of the San Bernardino & Riverside Counties Branch and may be used at the Branch's discretion. Submittals will not be returned.

# SCHOLARSHIP ANNOUNCEMENT

The American Society of Civil Engineers San Bernardino-Riverside Counties Branch and the Younger Member Forum (YMF) are offering three (3) \$1000 scholarships and two (2) \$500 scholarships to California State Polytechnic University, Pomona (CPP) and California Baptist University (CBU) Civil Engineering students for the 2013-2014 academic year. The scholarship will be awarded to the recipients during the San Bernardino-Riverside Counties Branch Awards Luncheon. The actual amount of the award will be given as a check to the recipients after proof of enrollment for the upcoming Quarter/Semester is provided to the Branch/YMF Treasurer.

Applicants must be sophomores, juniors or non graduating seniors during the 2013-2014 academic year. Applicants must be an active member of the Student Chapter and must be a National Member of ASCE to be considered for the award. There is a 2.75 GPA requirement for this scholarship.

## **Application Package**

The application package shall include a copy of your transcripts (unofficial will be accepted) and a statement (**1000 word maximum**) answering the following:

- a) Why you chose a career in civil engineering?
- b) How your education, extra curriculum activities and involvement in ASCE will help you in your professional civil engineering career?
- c) How you plan on contributing back to your community?
- d) Why do you think you should receive this scholarship?

## **Application Package Deadline**

The application package must be received by **April 19, 2013** to be considered. If you have any questions, please contact Sarah Watrous at [snwatrous@gmail.com](mailto:snwatrous@gmail.com) or Rafael Contreras at [rcontreras@ci.vernon.ca.us](mailto:rcontreras@ci.vernon.ca.us).

## **Application Package Submittal**

CPP Students to: Sarah Watrous at [snwatrous@gmail.com](mailto:snwatrous@gmail.com)

CBU Students to: Rafael Contreras at [rcontreras@ci.vernon.ca.us](mailto:rcontreras@ci.vernon.ca.us)

The electronic file can be either in Microsoft word or .pdf format.

The American Society of Civil Engineers San Bernardino-Riverside Counties Branch and the Younger Member Forum appreciate this opportunity to assist the Civil Engineering students at CPP and CBU and welcomes the participation of the Student Chapter members in this and other ASCE activities.

# Professional Directory

**HDR**

Guillermo (Bill) Flores Jr., P.E.  
Water Resources Project Manager

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Bill.Flores@hdrinc.com

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Fax (951) 320-7301

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email: dennis@helderengineering.com  
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www.mooteco.com

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Applicant Design Services Construction Management Dry

Available space

~~~~~

Please see contact information below to have your companies business card displayed here.

If you'd like to have your business card or company information listed in the Professional Directory, Please Contact: The Branch Treasurer, John B. Rogers at 951.698.1830, or email at jrogers@cleengineering.com

# March 2013

- April 12** PE Booth at Pomona Fairplex and Happy Hour at Warehouse Pizza Laverne
- April 17** Branch General Meeting at Old Spaghetti Factory Rancho Cucamonga
- May 10** YMF Tech Tour at Palm Springs Aerial Tramway

## Membership Information

Type of Membership and Annual Dues (National)

|                          |                                                                                                              |
|--------------------------|--------------------------------------------------------------------------------------------------------------|
| <b>Students:</b>         | Free                                                                                                         |
| <b>Associate Member:</b> | \$50 year of baccalaureate Degree and first year after, Then incremental increases to \$205 over five years. |
| <b>Member:</b>           | \$205 annually                                                                                               |
| <b>Affiliate:</b>        | \$205 annually                                                                                               |
| <b>Section</b>           |                                                                                                              |
| <b>(Branch) Dues:</b>    | \$45/year                                                                                                    |

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