

INSIDE THIS ISSUE

President's Message

Fall Joint Society Mixer

2022 STEAM K-12

2022 EF2D

2022 Beach Clean-Up

Luncheon: New Location!

Luncheon Recaps

2022 Toy Drive

Job Postings

Membership

Palm Beach Branch QUARTERLY

PRESIDENT'S MESSAGE:

Hi ASCE Palm Beach Branch,

Fall is upon us, and the Holidays are just around the corner. I am very excited to serve the Branch as the President and am working with the Board and our committee chairs to keep our Branch active and engaged throughout 2023.

In October, we held the Board Installation at our monthly luncheon. Cristina Caceres from Kimley-Horn joined Justin Tagle, Kaitlin Townsend and myself to become the 2022-2023 ASCE Palm Beach Branch Board secretary. Tzufit Boyle did the honors of installing the Board while Past-President Vijay Mishra spoke to the luncheon attendees about using curtain walls to manage seepage in the Everglades.

This year we are putting in extra effort into our K-12 outreach. We have partnered with Rohi's Readery and have been leading monthly STEAM activities. We had Justin Tagle lead a Colorful Chemistry experiment sponsored by Chen Moore, and Maria Missena, FES Palm Beach President, led a paper airplane activity. We also held the Engineering Family Fun Day (EF2D) that we planned with the Society of Women Engineers (SWE) - South Florida chapter. Take a look at the great pictures and video in the newsletter and our social media platforms. We have many more events planned and would love to have our members volunteer!

The year is almost over and 2023 is just around the corner full of events and opportunities for our members. Please remember to renew your membership and take advantage of personal and company discounts through the ASCE Partner Program, Member-Get-A-Member, and younger professionals.

In January, we will continue our monthly luncheons with a presentation from Carolina Maran from the South Florida Water Management District. We will also have our first social of the year, a permeable pavers demo, and K-12 events.

Looking forward to seeing you at our Branch events!

Sincerely,



Phoebe Cuevas Molina, PE
President, ASCE Palm Beach Branch

2022 FALL JOINT SOCIETY MIXER

The ASCE Palm Beach Branch hosted its fall joint society mixer with AWRA and FES on October 27th at Stormhouse Brewing in North Palm Beach. The event was attended by over 40 members who enjoyed casual networking, live music, and lively ambiance.



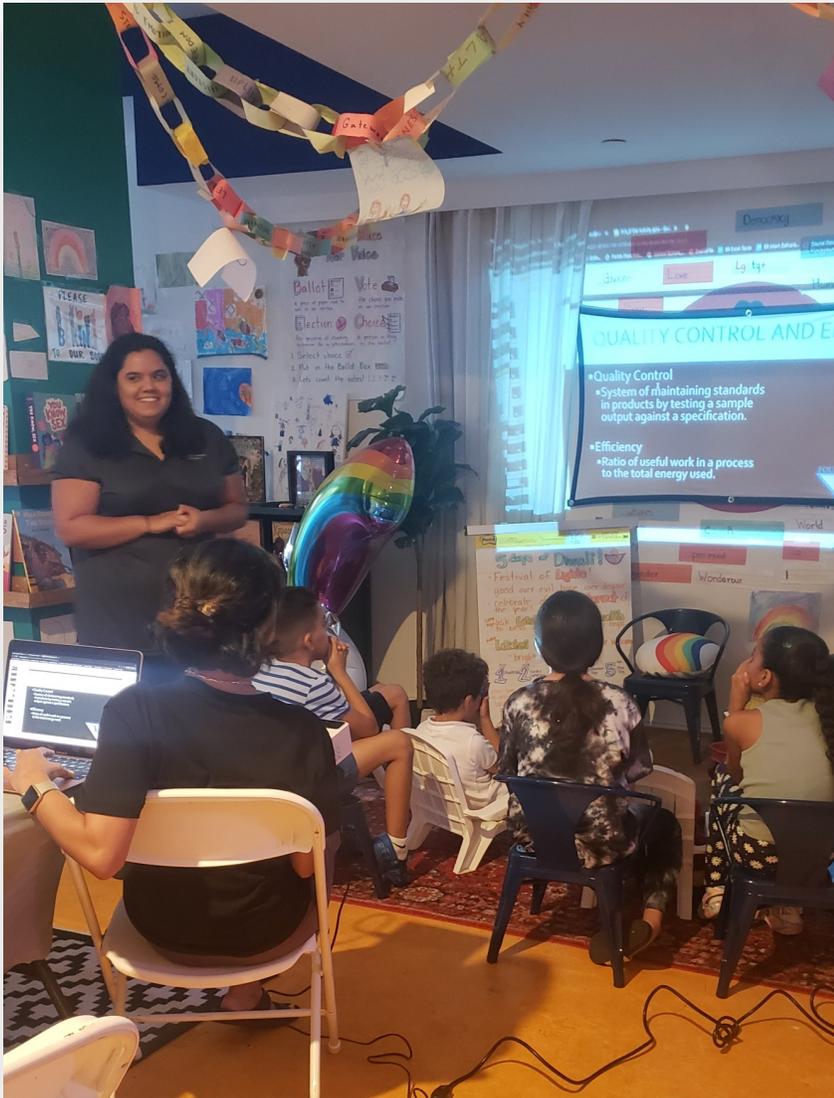
2022 STEAM K-12 EVENTS AT ROHI'S READERY

In October, Justin Tagle, ASCE Palm Beach Branch Vice President, led the monthly STEAM activity at Rohi's Readery, sponsored by Chen-Moore and Associates. Students learned about environmental engineering by identifying acids and bases through a Colorful Chemistry experiment.



2022 STEAM K-12 EVENTS AT ROHI'S READERY

In November, Maria Missena, FES president, led the monthly STEAM activity at Rohi's Readery. Students learned how to create paper airplanes and participants received a book titled Let's Fly this Plane! by Amaka Amalu, PE.



2022 ENGINEERING FAMILY FUN DAY

SWE and ASCE Palm Beach helped to host this year's Engineering Family Fun Day (EF2D) at Dreher Park in West Palm Beach. Children were able to work on 10 engineering activities including: slime, LED greeting cards, ice cream, marker robots, chocolate asphalt, gum drop domes, boats, hurricane proof structures, balloon race cars, and guessing the engineer. Special thanks to all of the volunteers and this year's EF2D sponsors: Kimley-Horn, Universal Engineering, Chen-Moore, Civil Design, Inc., Erdman Anthony, and Branch member Nitesh Goli.

Kimley»Horn



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2022 BEACH CLEAN-UP

ASCE Palm Beach held a beach clean-up at McArthur Beach State Park on Saturday, Nov. 19th.

We would like to thank all the volunteers who came out and helped to clean up the beach as well as Erdman Anthony for sponsoring the beach picnic!



MONTHLY LUNCHEONS: NEW LOCATION!

We are holding our monthly luncheons in person at the SWA Multi-purpose building. Please see below for how to enter from High Ridge Rd. We look forward to seeing you at our next luncheon!



SEPTIC-TO-SEWER CONVERSIONS

Our September luncheon presentation was provided by Suzanne Dombrowski, P.E. and Safiya Brea, P.E. of Chen-Moore and Associates on Septic to Sewer conversions in the state of Florida. Septic to Sewer conversion projects are occurring throughout the State of Florida to protect coastal waters, rivers, and springheads from unintended wastewater discharge from septic systems. The presentation reviewed current and proposed regulations as they relate to the protection of these waterbodies, different options for abandoning septic systems and connecting to sewer systems, permitting, and funding sources. The presentation also reviewed case studies from around the State.



Ms. Dombrowski Bio: Suzanne Dombrowski, P.E., ENV SP is a Principal Engineer and Palm Beach Office Leader with CMA. She holds a bachelor's degree in civil engineering and a master's degree in engineering with a specialization in civil engineering from the University of Florida. Ms. Dombrowski has managed a wide range of municipal utility, drainage, and roadway projects from the planning stages throughout construction. She also designs the site civil improvements for both public and municipal facilities.

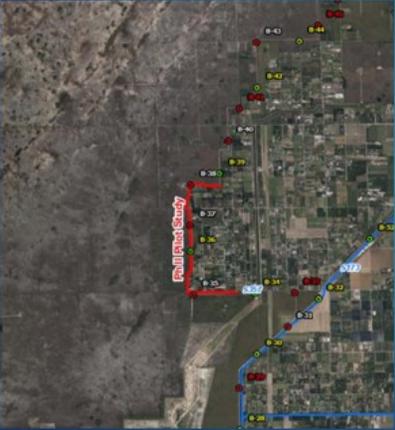
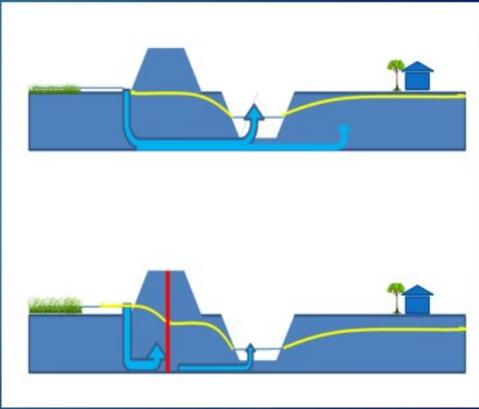
Ms. Brea Bio: Safiya Brea, P.E., LEED AP is a Principal Engineer and Broward Office Leader with CMA. She holds a bachelor's degree in civil engineering from the University of Florida. Ms. Brea has managed a wide range of municipal utility, drainage, and roadway projects from the planning stages throughout construction. Ms. Brea has overseen the design and construction of hundreds of millions of dollars of water and wastewater improvements throughout Broward County.

CURTAIN WALLS: A GEOTECHNICAL SOLUTION OF WATER RESOURCE PROBLEM IN SOUTH FLORIDA

In October, Vijay Misha, P.E. gave a presentation on curtain walls as a geotechnical solution for water resource problems in Florida. Restoring the Everglades and Florida Bay hinges on increasing water levels in the Everglades National Park while simultaneously managing the resulting seepage. South Florida Water Management District is advancing an initiative to implement a curtain wall project in South Dade to manage the resulting seepage. The presentation discussed the design and construction of the first 2.3 miles of seepage wall along 8.5 SMA in Miami Dade county and next 5-mile phase of the project.



Characteristics of Curtain Walls

Speaker: Vijay Mishra P.E.

Vijay Mishra received his master's and bachelor's degrees in Civil Engineering from University of Central Florida and SGSITS Indore respectively and is a licensed professional engineer in Florida. He has over 17 years of experience in Government and Engineering Consulting. Mr. Mishra's professional experience includes engineering design and construction of Stormwater Treatment Area (STA) and Flow Equalization Basins (FEB), pump stations, roadways, gas pipelines, buildings, water control structures and related works. In addition to his involvement as 2019 President of the ASCE Palm Beach Branch, Mr. Mishra serves as an advisor to Florida Atlantic University Senior year projects and industry practitioner advisor to ASCE FAU student chapter.

HORIZONTAL DIRECTIONAL DRILLING: HDD OVERVIEW AND BEST PRACTICES

In the November Luncheon, Daniel Davila, P.E. gave a presentation at Florida Atlantic University on Horizontal Directional Drilling. The presentation was given as a joint society effort by ASCE Palm Beach Branch and Broward Branch. The presentation provided an overview of Horizontal Directional Drilling (HDD) which is a steerable, trenchless method of installing underground pipe, conduit, or cable along a prescribed bore path by using a drilling rig. This presentation gave an overview of the basic understanding of large diameter HDD, information for designing horizontal drilling projects, and valuable tips for minimizing risk during construction.

Speaker: Daniel Davila, P.E. is the Director of Water and Sewer for Chen Moore and Associates. He has a Civil Engineering degree from the University of Florida and has worked on large scale utility infrastructure projects in Florida, the Dominican Republic, Panama, Saudi Arabia and Peru. He has designed over a hundred miles of pipeline



infrastructure for projects funded by the World Bank and the Inter-American Development Bank to bring water and sanitation infrastructure to developing countries.



He has worked with private and public clients that range from utility owners, private developers, municipalities, counties, and federal agencies. Mr. Davila has an expertise in large diameter pipelines including replacement and rehabilitation of infrastructure via Trenchless Technologies having worked on dozens of horizontal directional drills, pipe bursting, slip lining and swage lining projects in Florida and abroad.



He is an active member of the American Society of Civil Engineers (ASCE), Florida Engineering Society (FES), North American Society for Trenchless Technology (NASTT) & Design-Build Institute of America (DBIA).

2022 TOY DRIVE TO BENEFIT AVDA



**THE ASCE PALM BEACH BRANCH
IS ACCEPTING
TOY DONATIONS FOR AVDA**

Aid to Victims of Domestic Abuse, INC. (AVDA) is a non-profit organization with a mission to promote violence-free relationships and social change by offering alternative choices to end violence and domestic abuse.

**OUR DONATIONS WILL PROVIDE GIFTS FOR FAMILIES TO "SHOP"
IN THEIR ANNUAL HOLIDAY "STORE" - AT NO COST**

Holiday Wish List

New, Unwrapped Toys
(no violent toys or books please)

Gift Cards (see below)

Suggested Vendors: Hot Topic, Urban Outfitters, Forever 21, Box Lunch, Barnes and Noble, Sephora, Ulta Beauty, Foot locker, Claire's, Game Stop, Francesca's, Van's, H&M, Lulu's, Old Navy, Target, Bath and Body Works, Walmart, Ross, Marshalls, Xbox, Playstation, TJ Maxx, Amazon, Best Buy, Dicks Sporting Goods

THANK YOU FOR YOUR GENEROSITY!

Suggested Values: \$25 - \$100

More information: 561-265-3797

If you or your organization would like to participate, we are accepting **new unwrapped toys (no weapons or violence) and/or gift cards by December 14th**

Donations can be brought to:

Erdman Anthony - 5405 Okeechobee Boulevard, Suite 200 West Palm Beach

Kimley Horn - 1920 Wekiva Way, Suite 200, West Palm Beach

Chen Moore and Associates - 500 S Australian Ave, Suite 850 West Palm Beach

Radise: 4152 W Blue Heron Blvd. Ste 1114, Riviera Beach

YOUNG MEMBER LEADERS PRESENTATIONS

**We are looking for presenters for our future
Young Member Leaders Presentation Series!
Interested in presenting?**

**Nick Bragaia at
Nick.Bragaia@ghd.com**

**Or
Fatima Devia at
FDevia@Pennoni.com**

PALM BEACH COUNTY ENGINEERING & PUBLIC WORKS DEPARTMENT, TRAFFIC DIVISION

- **Project Coordinator I** – search for Project Coordinator I in the Engineering and Public Works/Traffic Engineering Department

[Job Opening - PBCJobs \(palm-beach.fl.us\)](#)

Performs entry-level engineering work in the coordination of Palm Beach County (PBC) Engineering and Public Works Traffic Engineering projects. Prepares traffic signal plans for construction by County Traffic Operations and outside contractors utilizing computer-aided drafting and design (CADD). Designs signal plans of intersections including traffic volumes, signal heads, signs, signal phasing diagrams, pole tabulations, pavement markings, signing plans and geometric plans. Requires the ability to interpret construction plans, provide cost estimates, and read as-built signal and lighting plans. Reviews signal and lighting plans as required to ensure plans are in compliance with PBC standards and requirements. Administers construction projects and participates in field measurements and inspections.

QUALIFICATIONS:

Bachelor's Degree in Civil Engineering. Equivalency: Unrelated Bachelor's Degree in a related Engineering field AND one (1) year of experience in traffic signal/lighting design or writing engineering specifications.

- **Professional Engineer**- search for Professional Engineer in the Engineering and Public Works/Traffic Engineering Department

[Job Opening - PBCJobs \(palm-beach.fl.us\)](#) [Job Opening - PBCJobs \(palm-beach.fl.us\)](#)

Coordinate traffic signal modifications and traffic control system facilities with consultants and other agencies. Review all traffic signalization and street lighting plans and interact with consultants. Review and approve traffic signal project scope and fee. Provide review comments on traffic signals and control systems on road construction, permit, Florida Department Of Transportation and municipal projects. Prepare costs estimates for capital improvement projects. Make recommendations for traffic signal modification. Review traffic signal shop drawings for construction projects. Answer questions from public and all staff. Guide professional and technical subordinate staff. Assist Director and managers in performing other duties that require high level of responsibility and decision making as requested.

QUALIFICATIONS:

Licensed as a Professional Engineer (P.E.) in the State of Florida OR a Bachelor's Degree in Civil/Traffic/Transportation Engineering or closely related field; minimum of four (4) years of experience in professional traffic engineering. Equivalency: Master's Degree in Civil Engineering and two (2) years of related experience.

Necessary Special Requirement: Licensed as a P.E. in the State of Florida or the ability to obtain licensure by endorsement within 11 months of hire.

PALM BEACH COUNTY ENGINEERING & PUBLIC WORKS DEPARTMENT

ASCE

ISSUED: 8-22-22

CLOSES: OPEN

Re-advertised

Position: **PROFESSIONAL ENGINEER**

Salary: \$81,533 Annually, negotiable depending on qualifications
 Department: Engineering and Public Works/Roadway Production
 Location: 2300 N. Jog Road, WPB
 Hours: 8:00 A.M. to 5:00 P.M., Monday - Friday

Plans, coordinates, reviews and approves the work of professional and technical staff in the Roadway Production Division. Conducts special engineering studies involving road alignment, roads and drainage, and design projects. Coordinates design field adjustments as needed during construction of Palm Beach County (PBC) roads, bridges, pathways and drainage improvements to reduce construction costs, eliminate or reduce construction conflicts. Prepares cost estimates for roadway design and for construction of roadways, bridges, pathways and drainage projects. Prepares reports and recommendations for the consideration of administrative superiors, boards, and committees. Provides professional guidance and direction to developers and consultants who seek advice or guidance for the proper development of their projects. Reviews Land Development permit applications for utilities and right-of-way. Reviews and approves construction shop drawings for non-standard construction items on PBC roads. Reviews and comments on or approves designs and construction plans done by Engineering Consultants for roads, bridges, pathways and drainage improvements in relation to Federal, State, County and project specific standards and criteria, and field conditions. Supervises professional and technical staff in the preparation of plan designs, cost estimates and specifications, traffic signal timing, sequences, geometric alignments and computations, and in the review of zoning petitions, site plans and various permit applications. Requires both independent professional judgment and decision-making of considerable difficulty.

The Palm Beach County Board of County Commissioners provides an excellent benefits package, including medical, dental and life insurance as well as vacation and sick leave, tuition reimbursement and participation in the Florida Retirement System.

QUALIFICATIONS:

Licensed as a Professional Engineer (P.E.) in the State of Florida OR a Bachelor's Degree in Civil Engineering; minimum of four (4) years of experience in professional engineering with emphasis on roadways and highways. Equivalency: Related Master's Degree and three (3) years of related experience.

Necessary Special Requirement: Licensed as a P.E. in the State of FL OR ability to obtain State of FL P.E. licensure within 11 months of hire.

PREFERENCE FOR EXPERIENCE: As a P.E. in the State of FL working on roadways and highways; in structural and/or drainage design; working with local government agencies or Florida Department of Transportation (FDOT); working with FL Green Book, FDOT Standard Specifications for Road and Bridge Construction, FDOT Roadway and Traffic Design Standards, and/or American Association of State Highway and Transportation Officials (AASHTO) Green Book.

NOTE: It is not necessary to submit another application for this position if you applied 3/7/22 – 4/1/22 or 4/4-8/22.

Visit www.pbcgov.jobs for job description and to apply online. May upload any Veteran's Preference documentation to online application (No e-mail applications/resumes accepted). **Online Applications are accepted until filled. EO/AA M/F/D/V, Drug Free Work Place; All employees of Palm Beach County may be required to work before, during and/or after a natural or man-made disaster or hurricane.**

CHEN MOORE AND ASSOCIATES



CAREER OPPORTUNITIES



Chen Moore and Associates, Inc. (CMA) has employment opportunities for civil engineering staff in our West Palm Beach office. Candidates should be able to efficiently plan and organize workload, demonstrate success working with a team of professionals, a commitment to quality, good communication skills, and a positive work ethic. The engineer(s) will work in the design team for a variety of infrastructure improvement projects.



NOW HIRING

- Project Engineer
- Senior Civil Engineer/Project Manager

visit and apply at [chenmoore.com/careers](https://www.chenmoore.com/careers)



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- Flexible Work Schedules
- Work-From-Home Flexibility
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- Mentorship Program
- Professional Societies
- Community Engagement
- Cellular Phone

IS YOUR COMPANY HIRING?

**Post your open positions on the
ASCE website and newsletter!**

**Cost: \$50 per job posting, free for
municipalities. Please make checks
payable to 'ASCE Palm Beach Branch'**

INTERESTED OR NEED MORE INFORMATION?

CONTACT ASCEPALMBEACH@GMAIL.COM

ASCE MEMBERSHIP

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10 FREE PDHs

2022-2023 PALM BEACH BRANCH BOARD



Pictured left to right: Tzufit Boyle (ASCE Florida Section Past President) Phoebe Cuevas Molina (President), Justin Tagle (Vice President), Kaitlin Townsend (Treasurer), and Cristina Caceres (Secretary).

The board would like to wish all members a happy holiday season! ❄️

2022-2023 Branch Officers

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Palm Beach Branch

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33416

Please verify/update your
mailing/email
information with

ASCE National
Headquarters

at

1-800-548-2723 (ASCE)

or

[http://www.asce.org/
membership](http://www.asce.org/membership)

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www.fla-asce.org

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