

Palm Beach Branch QUARTERLY

2023 | Q1

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PRESIDENT'S MESSAGE:

Hello ASCE Palm Beach Branch,

The year started and we have all been very busy at work. Our Branch has followed suit and we continue to hold multiple events to keep you engaged. We started the year with our January Luncheon and Demo on Permeable Pavers by Belgard in Riviera Beach.

In February, we participated in the Legislative Breakfast and held our monthly luncheon on Water Resiliency in South Florida presented by Carolina Maran from the SFWMD. We also led three K-12 events: the Balloon Racecar activity at Rohi's Readery, the E-Week Event at the Hagen Ranch Library, and kicked off this year's Bridge Competition for middle and high school students.

Our March Luncheon was Modeling Green Stormwater Infrastructure with ICPR presented by Pete Singhoffen. The Solid Waste Authority led the STEM activity at Rohi's Readery by teaching participants to make recycled paper.

We have many opportunities for our members and their companies to volunteer and reach out to future engineers. Please lookout for those events and let us know which activity you can help out with!

Thank you for supporting your ASCE Branch!

Sincerely,



Phoebe Cuevas Molina, PE
President, ASCE Palm Beach Branch

2023 STEAM K-12 EVENTS

E-WEEK

For Engineering Week, (E-week) ASCE Palm Beach partnered with Sara Schandelson from Hagen Ranch Library to host its annual E-Week event. This year, students participated in a gumdrop dome activity, watched the movie "Dream Big", and had a question-and-answer session with Justin Tagle, ASCE Palm Beach Branch vice president and Tzufit Boyle, ASCE Florida Section past president.



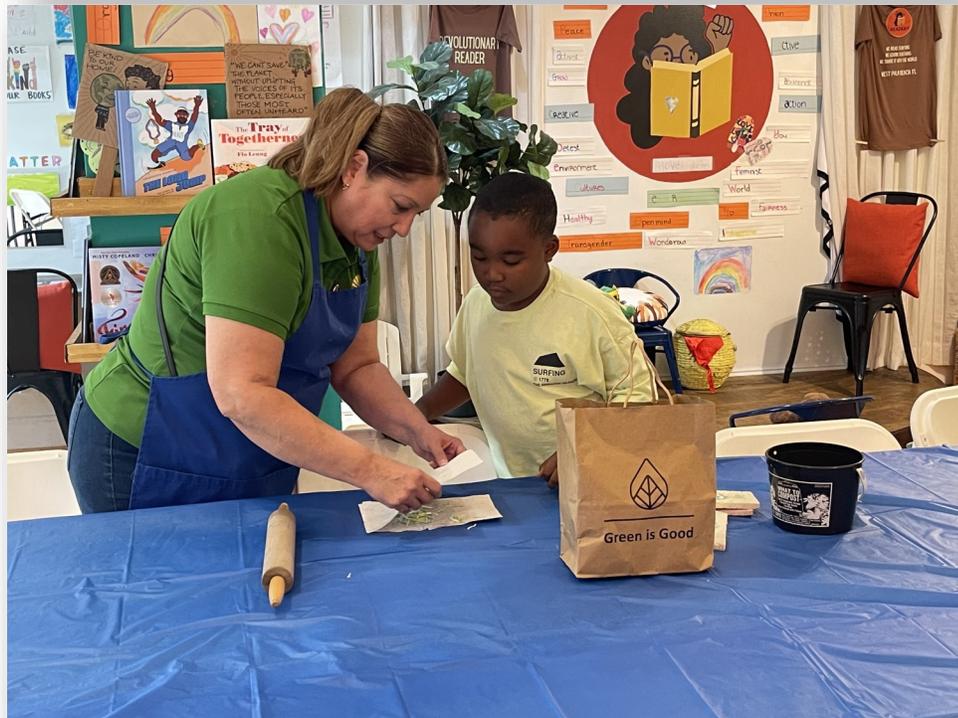
2023 STEAM K-12 EVENTS AT ROHI'S READERY

ASCE Palm Beach Branch Continues to volunteer monthly at Rohi's Readery, a children's bookstore that is located in 600 S Rosemary Square, suite 162. Pictured below, Chen-Moore and Associates volunteered in hosting the STEAM activity for February with balloon powered race cars.



2023 STEAM K-12 EVENTS AT ROHI'S READERY

Pictured below, is the March event with Solid Waste Authority at Rohi's Readery. The featured activity included paper making with recycled materials.



MONTHLY LUNCHEONS: LOCATION REMINDER

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!

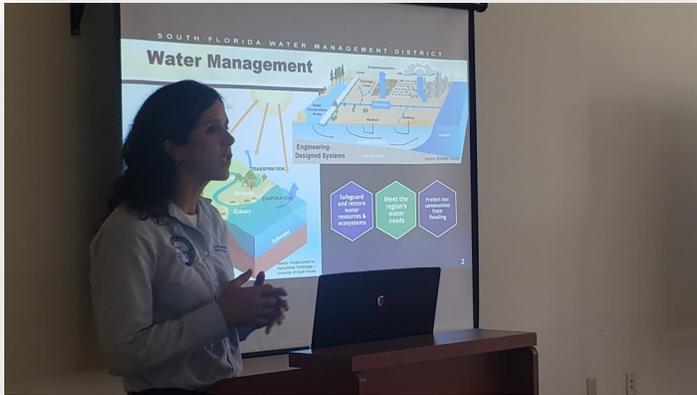


PERMEABLE PAVERS DESIGN FOR STORMWATER MANAGEMENT

On January 26th, Belgard hosted the ASCE Palm Beach Branch at the Riviera Beach Marina. Attendees were exposed to a presentation on the design and benefits of permeable pavers. The presentation gave recent examples of permeable pavement systems, design criteria, and maintenance. The presentation ended with an on-site demonstration of the permeable paver system in place at the Riviera Beach Marina.



SFWMD RESILIENCE EFFORTS SEA LEVEL RISE & FLOOD RESILIENCY PLAN & C&SF STUDY



For the February Luncheon, the South Florida Water Management District's (SFWMD) Dr. Carolina Maran, P.E. presented on resilience efforts, sea level rise, and flood resiliency plan & C&SF study. SFWMD is strongly committed to addressing the impacts of climate change, including rising sea levels, changing rainfall and flood patterns. The current District Resiliency efforts, under the leadership of Dr. Maran, focus on assessing how sea level rise and extreme events, including flood and drought events, happen under current and future climate conditions, and how they

affect water resources management. The presentation discussed how the District is making significant infrastructure adaptation investments that are needed to successfully implement its mission of safeguarding and restoring South Florida's water resources and ecosystems, protecting communities from flooding, and ensuring an adequate water supply for all of South Florida's needs.

As part of the District's commitment and ongoing efforts, alongside local governments, stakeholders, and communities in the region, the District is developing its Sea Level Rise and Flood Resiliency Plan. The plan, updated annually, is the first District initiative to compile a comprehensive list of priority resiliency projects with the goal of reducing the risks of flooding, sea level rise, and other climate impacts on water resources and increasing community and ecosystem resiliency in South Florida.

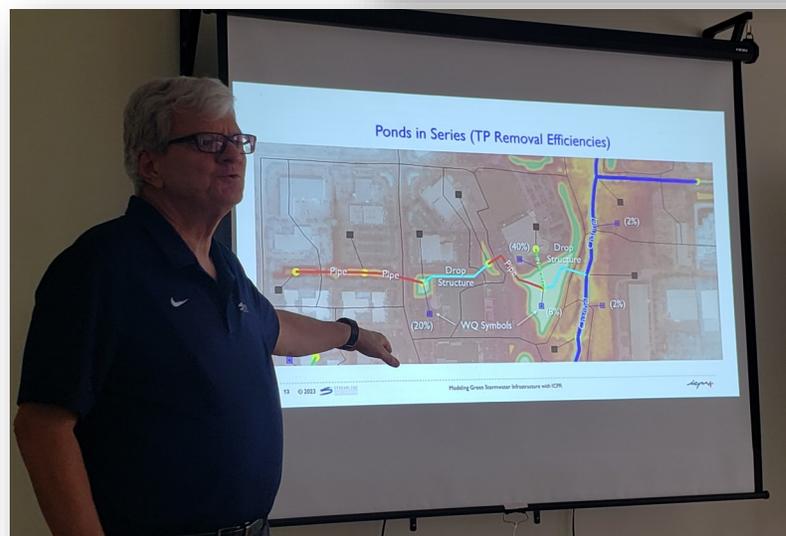
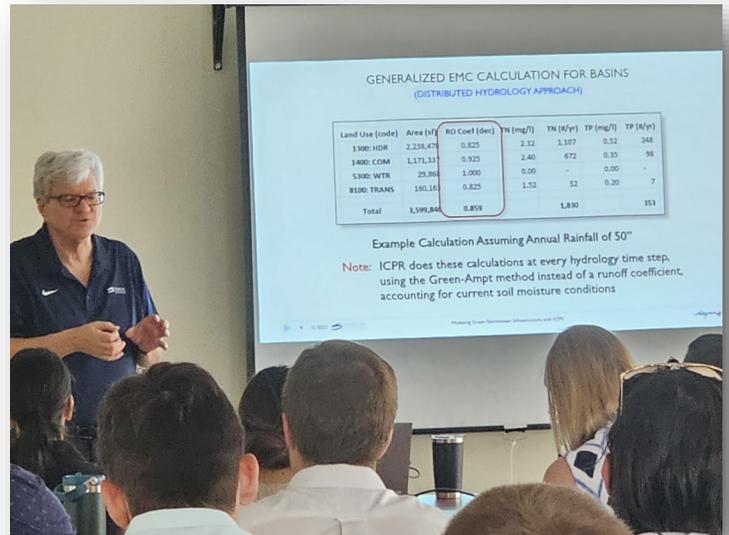


Speaker: Carolina Maran, Ph.D., P.E.

Carolina Maran, Ph.D., P.E. is the District Resiliency Officer with the South Florida Water Management District. In her role, she is responsible for coordinating resilience efforts across federal, state, regional and local agencies, advancing scientific research and data analysis to ensure the District's resiliency planning and projects are founded on the best available science; and, developing and implementing comprehensive resiliency goals to mitigate and adapt to the challenges facing the District's infrastructure from sea level rise and other climate change impacts. Carolina has nearly 20 years of experience working on water resources planning, management, and regulation; water and climate resiliency; water allocation rules and conflict resolution; hydrologic and hydraulic modeling, decision support systems and GIS. She holds a Ph.D. in Civil and Environmental Engineering - Water Resources from Colorado State University and a Master's Degree in Water Resources Engineering from Parana Federal University in Brazil. Currently, she serves on the Florida Water and Climate Alliance Steering Committee, Southeast Florida Regional Climate Compact Steering Committee, and on the Board of Directors of South Florida Hydrologic Society and the Resilient Utility Coalition. Mom of two incredible boys, Carolina enjoys watching them play little league baseball and visiting new places with her family.

MODELING GREEN STORMWATER INFRASTRUCTURE WITH ICPR

In the March Luncheon, Pete Singhofen, P.E. presented “Modeling Green Stormwater Infrastructure with ICPR”. Green stormwater infrastructure (GSI) is an approach to managing stormwater runoff in ways that mimic the natural environment as much as possible, using plants, soils, and stone to filter and manage stormwater more effectively. It is a distributive approach where various best management practices (BMPs) are strategically placed throughout a basin rather than concentrated in a single location. These can include rain gardens, bio swales, interceptor trees, pervious pavement, underground storage and infiltration galleries, and green roofs, among many others. The presentation demonstrated how ICPR can be used to model not only the hydrology and hydraulics of these systems but also water quality aspects such as pollutant load removal efficiencies. The new ICPR water quality module is based on event mean concentrations (EMC) for basin runoff and tracks constituents throughout the drainage network. It allows water quality assessments on a watershed-scale where literally hundreds of BMPs can be integrated into a single model allowing innovative and holistic solutions to both flooding and water quality issues. The model setup for a few individual GSIs was demonstrated and then a comprehensive roadway redevelopment project was presented with an integrated system of dozens of interconnected GSI



Speaker: Pete Singhofen, P.E. is the founder of Streamline Technologies, Inc. and the original developer of the widely used ICPR stormwater modeling software. He has been a water resources professional for more than 40 years specializing in physically based integrated modeling of large-scale surface and groundwater systems.

YOUNG MEMBER LEADERS PRESENTATIONS

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

**Javi Marrero
Javieris.Marrero@kimley-horn.com**

CITY OF LAKE WORTH BEACH

JOB POSTINGS

ENGINEER – WATER UTILITY

City of Lake Worth Beach Florida, Lake Worth Beach, FL, US

This is a Full-Time, Exempt position with an annual salary of \$82,000.00 - \$110,000.00. The individual in this position will work at the Water Treatment Plant located at 301 College Street, Lake Worth Beach, FL 33460.

In addition, this position offers:

- Vacation and Sick Leave Accruals
- 14 Paid Holidays
- City of Lake Worth Beach Medical Benefits that include Life Insurance, Dental and Vision coverage Retirement Plan

SUMMARY:

As a Licensed Professional Engineer (PE), the employee will perform independent professional and technical engineering work requiring application of standard engineering principles and procedures independently, perform complex engineering work requiring application of standard techniques, procedures, and criteria in carrying out a sequence of related engineering tasks. Exercise judgment in decision making related to the selection of engineering techniques, alternatives, procedures, and criteria. Thorough knowledge of engineering principles, procedures, and practices applied in planning, location, design, construction, and operation in water, wastewater and stormwater, as well as appropriate industry standards (e.g., environmental, state and county permitting, etc) and regulatory requirements.

ESSENTIAL DUTIES AND RESPONSIBILITIES:

Reviews plans for contracted improvement projects by consulting engineering firms.

- Prepares engineering analyses of some difficulty and prepares specifications, process studies, research investigations, and reports.
- Coordinates new utility service and installations with developers, engineers and property owners.
- Responds to utility availability requests and easement consent form requests
- Reviews site plan submittals for water, sewer and drainage compliance, and attends Site Plan Review Committee meetings and development pre-application meetings.
- Reviews building and right of way permits for water, sewer and drainage compliance.
- Coordinates utility conflicts with other agencies, including Palm Beach County, FPU, AT&T and other municipalities as well as other City of Lake Worth Beach Departments.
- Coordinates compliance of current water use permit and future water use plan with South Florida Water Management District.
- Maintains Water and Sewer Approved Products List, and evaluates submittals from vendors for consideration.
- Coordinates all system changes and improvements with GIS department, and updates water and sewer utilities information and projects for website.
- Assists with development of department policies, procedures and design standards
- Evaluates Water Production, Water Treatment, Water Distribution, Regional Sewer, Local Sewer Collection, Local Sewer Pumping, Stormwater Collection and Stormwater Treatment systems for adequacy and long term goals and objectives.
- Inspects construction work in progress to determine whether proper materials, safety provisions and workmanship are used and compliance with plans and specifications.
- Assists with the development and implementation of the Water Utility Emergency Management Plan and serves as essential staff.
- Personal contacts include other engineering personnel, customers, contractors, and suppliers requiring the cultivation and maintenance of effective business relationships.

CITY OF LAKE WORTH BEACH

JOB POSTINGS

(cont'd)

- Assists in representing organization interests to a variety of outside groups.
- Assists in preparing departmental budget estimates by assembling and preparing data, reports, and cost estimates.
- Performs other duties as assigned.
- Administratively manage small to medium sized capital improvement design and construction projects for water, sewer and stormwater infrastructure.
- Maintain the water utilities hydraulic water, sewer and stormwater models.
Requires negotiating skills and diplomacy.

Complexity and Magnitude of Assignments

Perform assignments, which involve design plans, investigations, process studies, specifications, surveys, structures, or equipment with increasingly more complex features and aspects.

Written and Verbal Communication Skills

Write effective letters and reports, responses to regulatory agencies with associated documentation and complete basic forms. Independently research and prepare reports. Be capable of persuasive written and verbal arguments. Speak effectively in one-on-one situations and to small groups.

Continuing Education and Development

Maintain currency in assigned engineering discipline, regulatory and other related knowledge by reviewing industry standards and innovations.

EDUCATION AND EXPERIENCE:

Bachelor of Science in Civil, Environmental, Mechanical or Chemical Engineering degree from an Accreditation Board for Engineering and Technology (ABET) accredited educational institution. Minimum 5 years applicable engineering work experience.

COMPUTER SKILLS:

Apply basic computer skills (Microsoft Office Suite) and ability to produce the following: AutoCad Drawings, Basic GIS Maps, PowerPoint Presentations, Technical Reports, Letters/ Public Notices, Excel spreadsheets of varying complexity.

CERTIFICATIONS AND LICENSES:

Valid Florida driver's license

PE: Professional Engineer license in the State of Florida.

FEMA NIMS Certifications in 100, 200, 300, 400, 700 and 800 (may be completed at start of employment)

Apply online: www.lakeworthbeachfl.gov click on "Jobs"

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.



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**Post your open positions on the
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**Cost: \$50 per job posting, free for
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INTERESTED OR NEED MORE INFORMATION?

CONTACT ASCEPALMBEACH@GMAIL.COM

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**JW MARRIOTT
GRANDE LAKES ORLANDO**

[CLICK HERE TO REGISTER](#)

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).

2022-2023 Branch Officers

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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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