

# Palm Beach Branch QUARTERLY

2023 | Q2

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# PRESIDENT'S MESSAGE:

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Hello ASCE Palm Beach Branch,

This quarter we held our biggest event, the Engineers in Government Night. It was a great night for honoring our award winners, hearing from FDOT District 4 Director of Transportation, Steve Braun, PE and connecting with our fellow members.

In the last months, we had great speakers talk to us about green stormwater infrastructure, the lead and copper replacement rule, the role of the delegated engineer, and corrosion of reinforcing steel in concrete. Our members were engaged and asked many questions. We also participated in multiple K-12 events: career day at Palms Springs Elementary, Cub Scout Engineering advancement, and STEM activities at Rohi's Readery including daylight in a bottle.

Please lookout for upcoming emails, social events and volunteering. 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 ENGINEERS IN GOVERNMENT NIGHT

On March 26th, 2023, ASCE celebrated it's annual Engineers in Government Night. The event was kicked off with a headline presentation by FDOT District Four Director of Transportation Development, Steve Braun, P.E. The awards ceremony followed, with this year's winners shown below. Congratulations to all winners!



Denise Palmatier, P.E.  
Engineer of the Year



Vijay Mishra, P.E.  
Government Engineer  
of the Year



Nitesh Goli, E.I.  
Young Engineer of the  
Year



STA-3/4 Cell 1A, 2A, and 3A  
Inflow Energy Dissipators  
Project of the Year



Clematis Streetscapes  
Sustainable Project of the  
Year



Engenuity Group, Inc.  
Employer of the Year



## 2023 EIGN Award Winners

# 2023 ENGINEERS IN GOVERNMENT NIGHT



Pictured above is guest speaker, Steve Braun, P.E. delivering his presentation.



Pictured above are Justin Tagle, P.E. (left) vice president of ASCE Palm Beach, alongside this year's Life Members, Jose Gomez P.E., Peter Read, P.E., Peter Aquart, P.E., and Tzufit Boyle, P.E. ASCE Florida Past President.



Pictured above are this year's scholarship recipients Sonia Moshfeghi, Mallory Thomas and Saul Bilancieri with Nick Musick, our Scholarship Program Chair, and Justin Tagle, P.E.



Pictured above are members in attendance at this year's EIGN. Thank you for joining us in honoring the civil engineers employed in public government and in private practice for the contributions that they've made.





# 2023 ENGINEERS IN GOVERNMENT NIGHT





# MONTHLY LUNCHEONS: LOCATION REMINDER

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



# INTRODUCTION TO GREEN STORMWATER INFRASTRUCTURE SOLUTIONS

For the April Luncheon, Jessica Bruso from Ferguson Waterworks, gave the presentation titled "Introduction to Green Stormwater Infrastructure Solutions". Ferguson Waterworks green infrastructure team supports municipalities, landscape architects, and design engineers implement stormwater management using green infrastructure practices. These specialized products manage volume, and in some cases reduce nutrients like nitrogen, phosphorus, and bacteria. The products are space efficient, high performance, versatile, cost appropriate, and easy to maintain. Bruso discussed four categories of products for the presentation: Space Efficient Storage, Filters and Screens, Media and Biofiltration, and Alternative Surfaces.



**Speaker Bio:** Jessica Bruso is the Green Infrastructure BMP Specialist covering Florida. Jessica obtained her Master's degree in Biology from Florida Atlantic University. She taught college biology, anatomy & physiology, and environmental science classes for over a decade. After a volunteer role as the Chair of the Sustainability Committee for the City of Cocoa Beach, she entered the stormwater world as the Stormwater Utility Manager for the City of Cocoa Beach. She started working for Ferguson Waterworks in 2022 to expand her reach and to help implement green stormwater infrastructure projects across Florida. Jessica serves on the education committee for the Florida Stormwater Association. She lives in Cocoa Beach with her twin boys and two cats. She is passionate about the environment, enjoys the outdoors, and is on an outrigger canoe team.



# LEAD AND COPPER REPLACEMENT RULE

At the May Luncheon, presenters Nikolina Trifonova and James Barton, P.E. gave the presentation titled "Lead and Copper Replacement Rule". The Lead and Copper Replacement Rule (LCRR) is a nationwide requirement for all Community Water System (CWSs) and Non-Transient Non-Community Water System (NTNCWSs) to present a detailed inventory on all service lines and ownership. The inventory shall include the system and customer owned portions for all service lines in the distribution system and determine their material. Florida Technical Consultants (FTC) has discussed detailed inventory templates and their current and past efforts on assisting multiple clients with acquiring and processing all available data to satisfy LCRR.



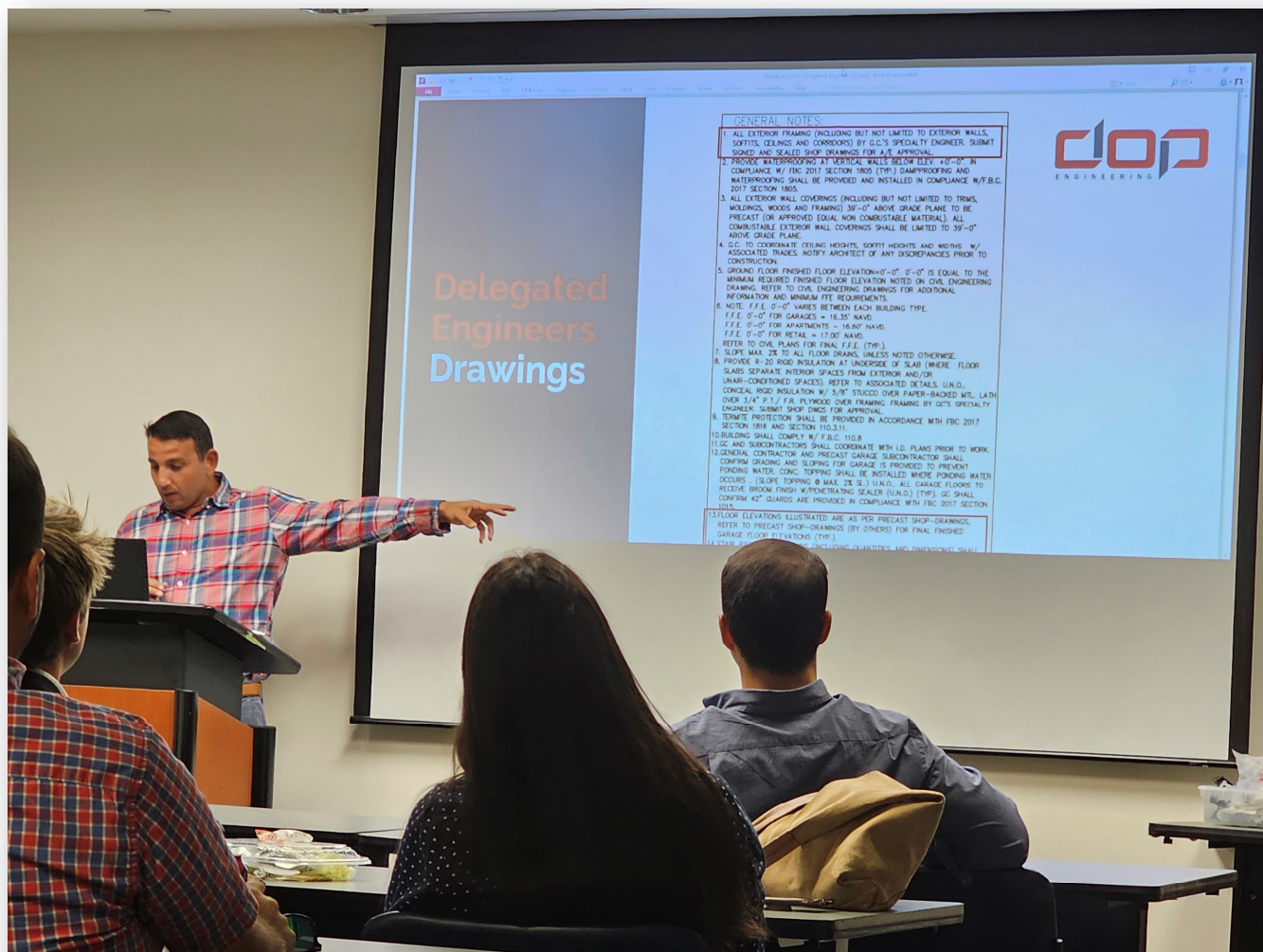
**Speaker Bios:** Nikolina Trifonova has her degree in Engineering and is a Lead and Copper Project Coordinator for Florida Technical Consultants. Nikolina has over six years of engineering experience, hydraulic modeling and intermediate GIS knowledge. Nikolina worked on utility design projects, bidding assistance, and hydraulic modeling throughout her career. She has experience in water resources, sanitary sewer systems, utilities, and land development. Nikolina has broad GIS knowledge and has performed data collection, tracking, and analysis for multiple municipalities. Her experience in the engineering field assists with her ability to understand the client's needs and give practical solutions.

James Barton, PE is the president and owner of Florida Technical Consultants. His background experience covers all program components with 20 years' experience in engineering design and project management of water, sanitation and stormwater programs. These include water resources, infrastructure, rehabilitation, GIS implementation, environmental engineering, utilities and road construction. James has routinely integrated GIS technology with engineering, developing software tools to assist in system modeling, design, and construction administration. Since becoming an ESRI authorized GIS Trainer in 2003, he has provided training to over 75 students in various organizations and disciplines. His specialty is training for people specializing in utilities, public works and engineering as well as providing training for people with fire, police and city and county administrations.



# THE ROLE OF THE DELEGATED ENGINEER

In May, our younger members met for the Younger Member Group Luncheon. The speaker, Gordon DiBattisto, P.E. presented "The Role of the Delegated Engineer." In this presentation, he discussed the crucial role that delegated engineers have in ensuring the safety and efficiency of any construction project. The presentation also explored the responsibilities and duties of a Delegated Engineer, including their collaboration with architects, contractors and other professionals in the industry, and how their role helps to ensure compliance with Florida Codes. The presentation provided listeners with a better understanding of the essential role a Delegated Engineer plays in delivering safe, reliable and high-quality projects.



**Speaker Bios:** Gordon DiBattisto, P.E. graduated From Florida State University in 2010 with a degree in Civil Engineering. Gordon Started his career in the geotechnical / Construction Material Testing industry, where he was involved in many HHD culvert replacement projects, "All Aboard Florida" corridor study (Brightline), amongst others. After his Geotech and CMT career he started providing engineering design and consultation for structural components of buildings. Such components include Glass Curtain wall designs, Product Development for building envelope products, Misc Metal designs (Aluminum building facades, Parking garage screens, and canopy structures). Gordon was born and raised in South Florida and is licensed in Florida and over 10 other states.

# CORROSION OF REINFORCING STEEL IN CONCRETE & STRATEGIES FOR MITIGATION

At the June Luncheon, Jorge Costa, P.E. discussed factors affecting corrosion of infrastructure, including reinforced concrete. The presentation covered corrosion initiation, progression and failure of structures affected by corrosion. Measurement techniques to help identify corrosion and the root causes were covered, as well as available technologies and strategies for corrosion avoidance, mitigation and control.



**Speaker:** Jorge Costa has dedicated his entire professional career to understanding corrosion phenomena and their effect on infrastructure. Jorge has extensive experience in corrosion evaluations and condition assessments, engineering, cathodic protection, marine corrosion, concrete deterioration, materials investigation, repair & rehabilitation design, and research engineering & testing. Jorge has participated in important projects in various sectors, including electric power generation, transmission & distribution, and transportation infrastructure, energy, and marine. Jorge is a US Patent holder and has authored numerous articles and technical papers related to corrosion protection and infrastructure service life.

He frequently lectures at industry venues, professional organizations, and universities on corrosion assessments, corrosion avoidance and mitigation, and infrastructure service life.

Jorge holds a bachelor's in science in Ocean Engineering from Florida Atlantic University.



# YOUNG MEMBER LEADERS PRESENTATIONS

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**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 POSTING

### **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](http://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.



### NOW HIRING

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# IS YOUR COMPANY HIRING?

**Post your open positions on the  
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**Cost: \$50 per job posting, free for  
municipalities. Please make checks  
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INTERESTED OR NEED MORE INFORMATION?  
CONTACT [ASCEPALMBEACH@GMAIL.COM](mailto:ASCEPALMBEACH@GMAIL.COM)

# ASCE MEMBERSHIP

CLICK ON IMAGES TO LEARN MORE!

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## 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

### PRESIDENT

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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)

## 2022-2023 Committee Chairs

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### WEBMASTER CHAIR

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### CHAPTER PRESIDENT

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