

currents

SEEING THE
BIGGER
PICTURE
FOR

90
YEARS

 **carollo**[®]

PLUS —

An Intro to the Carollo
Construction Management Group

Carollo's New Office Openings:
Philadelphia and Ft. Myers

2023 Bryant L. Bench
Scholarship

EDITORIAL

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Welcome to **Currents** 2023 Volume 3—where we celebrate Carollo’s 90th anniversary!

In this issue, we highlight 90 years of seeing the bigger picture, our passion for the water industry, our dedicated employees, and the communities we have the pleasure of serving. Carollo is a pioneer in all things water—critical water infrastructure projects, innovating water treatment technologies, harnessing the power of AI and machine learning, and so much more.

Additionally, learn about our Construction Management and Operations Group. From CM services, to safety and operations support, this group of engineers, inspectors, and multi-disciplinary professionals are hyper-focused on helping you deliver your next construction project.

And finally, we highlight two new Carollo offices in Philadelphia, PA, and Ft. Myers, FL; and the 2023 recipient of the Bryant L. Bench scholarship.

Please reach out to me or the primary authors with any comments or questions. Have a happy, healthy, and safe holiday season and new year!

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AN INTRO TO CAROLLO’S CONSTRUCTION MANAGEMENT AND OPERATIONS GROUP



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CM GROUP HIGHLIGHTS

2018	2023
40 MEMBERS	127 MEMBERS

ADDITION OF **TWO NEW** SCHEDULING/CLAIMS PROJECT CONTROLS STAFF



2022 - 2023
National Safety Council
Perfect Record AND
Occupational Excellence AND
Industry Leader **AWARDS**

RANKED **32** in **ENR’s 2023 TOP 100**
CM-FOR-FEE FIRMS

WHAT WE DO

Introducing Carollo’s Construction Management (CM) Group—a dynamic team offering comprehensive construction management service. Comprising seasoned professionals adept at project planning, budgeting, scheduling, and quality control, our CM Group acts as the cornerstone for successful project execution.

We specialize in bridging the gap between stakeholders, ensuring seamless coordination, and compliance with design specifications and regulatory standards. From risk mitigation to issue resolution, our approach optimizes project outcomes, emphasizing quality, cost-effectiveness, and timely completion. At Carollo, our CM Group is your dedicated partner in transforming construction visions into successful realities.

Construction Management

- **Constructability and Usability:** We start by rolling up our sleeves and diving into the nitty-gritty—reviewing documents, fine-tuning designs, and assessing the bidding landscape to ensure a smooth project kickoff.
- **Construction Administration:** Our approach is hands-on, managing everything from submittals and RFIs to inspection reports and change orders. We keep things moving without unnecessary complications.
- **General and Special Inspections:** Our team is ready to tackle civil, structural, mechanical, and electrical inspections, ensuring that every aspect of construction meets our high standards.

Practical Safety Measures

- **Safety Plan Development and Review:** Before the heavy lifting begins, we lay the groundwork for safety through design reviews, spec development, and creating safety protocols that make sense for each project.
- **Program Safety Management:** We take a straightforward approach to safety, covering everything from prevention through design to auditing, leading indicator analysis, corrective actions, and contractor management.
- **Training Services:** Safety isn’t just a checklist; it’s an integral part of what we do. Our training covers essential areas like fall protection, personal protective equipment, confined space protocols, and electrical/arc flash safety.

Operations Support

- **Startup and Commissioning:** We offer startup services from reviews of test and startup plans, to seamless coordination of startup activities, and to implementation and execution through successful operation.
- **Operations Transition:** After the dust settles, our team can provide operator training services, plant optimization, and the development of operating plans and procedures. We partner with you every step of the process.
- **Contract Operations:** Our services extend to remote and on-site operations support, staff augmentation, and marathon testing support.



MIKE WARRINER, PE
CM OPERATIONS LEAD



GREG PARANA
NATIONAL SAFETY MANAGER



BEN ARMEL
NATIONAL OPERATIONS
MANAGER

SEEING THE BIGGER PICTURE FOR 90 YEARS

There's more to water than meets the eye—more than the science, more than the technology. There are the families and communities we serve, the ecosystems we protect, and the employees that embody what it means to be part of Carollo.



In the heart of the arid Southwest, Carollo Engineers had its humble beginnings. The year was 1933, during the challenging economic climate of the Great Depression. It was then that our founder, John Carollo, forged a visionary partnership with engineers Sam Headman and Ben Ferguson, and founded Headman, Ferguson, and Carollo. The foundation of our values was laid in those trying times—a commitment to hard work, unwavering dedication to quality engineering, and a relentless focus on serving our clients.

In the decades since, we have designed resilient systems that have withstood the tests of time, supplied water for growing cities, and engineered cutting-edge treatment plants that protect our environment.

Today, our footprint stretches across North America, as we tackle the ever-evolving challenges of water management and resilience.

But our work is not done. As we celebrate our 90th Anniversary with pride and gratitude, we are also propelled by this milestone to keep reaching for an even better future for us all.

It doesn't get any bigger than that.



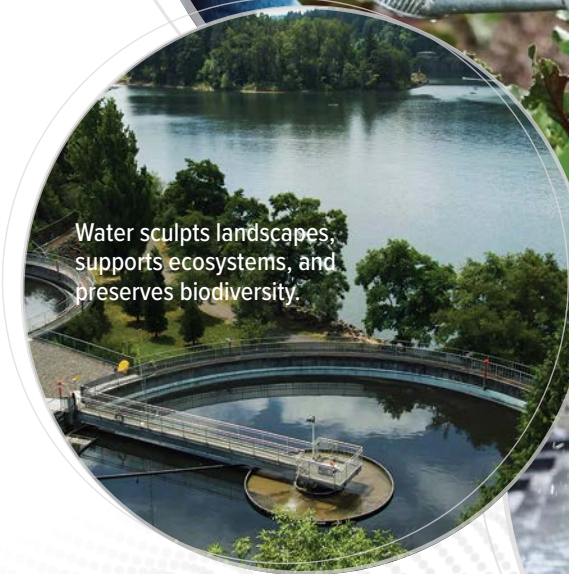
SCAN TO SEE OUR 90TH ANNIVERSARY VIDEO.



Water has a profound impact on our world—on public health and recreation and urban and economic growth.



Water fuels agriculture and industry, driving our economy.



Water sculpts landscapes, supports ecosystems, and preserves biodiversity.



Water is a source of recreation and relaxation, enhancing our overall well-being.



1933
Headman, Ferguson, and Carollo is founded

1942
Designed the first water treatment plant in El Paso, Texas



1962
Designed the first desalination plant to serve as a US city's sole source of drinking water



1997
Established the Carollo Research Group—pioneering and validating many innovations like UV disinfection and CFD modeling



A Common Passion

We've had the privilege of partnering with our clients to deliver some of North America's most critical water projects. These partnerships have pushed the boundaries of what's possible in water management, ensuring that communities thrive and ecosystems flourish.

Engineering Resilience

Carollo designed the largest earthquake-resistant ductile iron pipe project in North America, providing additional safeguards for California's water supply.



Advising a Mega Expansion

Carollo is the trusted Owner's Advisor overseeing the expansion of a 320 mgd water treatment plant—the largest progressive design-build project in the US.



Our journey is more than the sum of its parts; it's a testament to the power of collective effort and shared vision.

That shared vision has transformed the landscape of water management and continues to drive positive change for future generations.

Revolutionizing Water Purification

Carollo is the visionary designer behind the El Paso Advanced Water Purification Facility, pioneering the first-of-its-kind direct-to-distribution direct potable reuse system in the United States.



World's Largest Reuse Program

Carollo is providing program management services for the world's largest potable water reuse program, a monumental endeavor that will supply 100% recycled water to the residents of Los Angeles.



2009

Completed a Bay Area WWTP renewable energy expansion, helping the agency become one of the first net energy-positive utilities in the world



2013

Performed a water quality study for the first-ever direct potable reuse plant in the U.S., demonstrating for the first time that DPR is safe



2016

Established the Carollo Cares community outreach program, inspiring a new generation of water professionals



2017

Served as the prime consultant for the One Water LA 2040 Plan, a first-of-its-kind program that is building resilience into every aspect of Los Angeles's water management strategy



Our story is not just about water; it's about people.

It's about the thousands of dedicated Carollo employees, from the field to the lab and the office, who share a common passion for making a difference. They are the heart of our success, the driving force behind the transformations we create every day. That's why we empower our employees to think beyond boundaries, to shape the future of water management and resilience, and carry Carollo's rich legacy forward.



Several generations have had a hand in building our company.



From civil improvements to charitable giving, we're passionate about serving our communities.



Carollo Cares is an employee-led initiative focused on inspiring young people and promoting STEAM education.



SEE MORE FROM OUR 90TH ANNIVERSARY CELEBRATIONS!

“For nine decades now, this company and its employees have helped meet the water-related needs of cities and municipalities across the nation. We have made a very real, tangible difference in the lives of communities, and that is a heritage we can all be justifiably proud of. It is the legacy we carry in our company genes.”

B. Narayanan
B. Narayanan, CEO



2017
Created Water ARC®, Carollo's applied research center, linking lab innovation to real-world application

2018
Established the Employee Leadership program—inspiring and empowering current and future leaders at Carollo



2022
Collaborated with an international team to evaluate AI and machine learning in making water purification more efficient



2022
Established our 50th office—the first office outside the continental US in Vancouver, Canada

ANNOUNCING Two New Offices

Carollo Engineers is pleased to announce the opening of two new offices, in Philadelphia, PA, and Fort Myers, FL.



Philadelphia

The new office, located in proximity to the firm’s established locations in northern New Jersey, New York City, and Washington D.C., is poised to deliver cutting-edge water solutions tailored to meet the unique challenges of the Philadelphia Metropolitan Area and Greater Pennsylvania, Delaware, and Southern New Jersey.

“Our decision to establish a presence in Philadelphia stems from our commitment to better serve our clients and partners in the Mid-Atlantic region and advances our ambition to be the best water consulting firm,” said Carollo Client Service Director Michael J. MacPhee. “This expansion allows us to harness the local talent pool and collaborate closely with clients to deliver innovative and sustainable water solutions.”

Coinciding with the opening of the Philadelphia office, Carollo added three esteemed water professionals, all with over 20 years of experience in the planning, design, and construction of water and wastewater treatment facilities and linear infrastructure.

The addition of this office underscores Carollo’s dedication to fostering strong client relationships, promoting technological advancements, and driving positive environmental impact across communities.



JASON
MARIE, PE



MILISSA
HIRST, PE



JILL
MARIE, PE

Fort Myers

Carollo has opened a new office in Fort Myers, Florida, to better serve municipal and private sector clients in the region. This location marks Carollo’s eighth office in the state.

“We are proud and honored to have successfully completed more than 120 projects and designed over \$340 million in water and wastewater facilities for Lee and Collier Counties throughout the past 20 years” said Senior Client Service Manager Laura Baumberger. “This new office reflects our continued dedication to partnering with clients in Southwest Florida.”



Continuing our
legacy of serving
Southwest Florida

BRYANT L. BENCH SCHOLARSHIP

Carollo awarded its 8th Bryant L. Bench Scholarship to **BAHAREH TAJDINI** during the prestigious Scholarship Recognition Event at AWWA’s Annual Conference & Exposition (ACE) in June 2023

The **Bryant L. Bench Scholarship**, established in honor of Carollo’s Water Practice Director, Bryant Bench, recognizes innovative contributions to improving drinking water quality. Eligible applicants pursuing a master’s degree in water engineering-related fields have the opportunity to receive a one-time \$10,000 award to advance their education.

Bahareh, a PhD candidate at the Colorado School of Mines, exemplifies the scholarship’s spirit. With a bachelor’s degree in chemical engineering from the University of Tehran, and a master’s degree in water resources and environmental engineering, Bahareh’s research focuses on health risks related to *Legionella* and adenovirus in wastewater, as well as PFAS treatment using sorption-based processes in potable reuse and drinking water applications.

In her future pursuits, Bahareh aims to continue advancing PFAS treatment solutions and developing high-capacity adsorbents during her graduate and post-doctorate research endeavors.

Congratulations, Bahareh!



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SHARE US!**



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**In Pennsylvania, this symbol means
*water for life.***



Now, so does this.



800.523.5826 / carollo.com

Carollo Engineers is now in Pennsylvania.

Throughout the Keystone State, hex signs are a common sight. So are countless streams, rivers, lakes, and ponds. At Carollo, we understand the importance of clean water—it's been our sole focus for 90 years. Now, we can bring our innovative and resilient water solutions to Philadelphia, Pittsburgh, and every community in between.