

under the surface

MARINE ENGINEERING & CONSTRUCTION EXPERTS



The Castle Group
Innovation in action

W.J. Castle P.E. & Associates
Hydro-Marine Construction
Simplified Bridge Systems

company News

Visit us at IABMAS 2010

This year's International Association for Bridge Maintenance and Safety (IABMAS) Conference will be held in downtown Philadelphia at the Loews Hotel from July 11-15.

Where You Can Find Us:

- The Castle Group will be exhibiting at booth #23 from July 11-13.
- The Castle Group will also be presenting a paper on our Roebling Bridge Rehabilitation Project on Tuesday, July 13th at 11:00 am during Special Session 24: Steel Bridge Rehabilitation. This will be held in Room Washington A at the Loews Hotel.



For More Information On This Conference:

- Visit www.iabmas.atlss.lehigh.edu
- Contact Melissa Stein at mstein@wjcastlegroup.com
- Call The Castle Group at 800-644-4713

We look forward to seeing you at IABMAS!

Rick Parisi Presents at FHWA Conference

Rick Parisi, Project Engineer at The Castle Group, presented Castle's prefabricated bridge design/build of Interstate Pipeline & Storage Bridge at the 2010 FHWA Bridge Engineering Conference in Orlando, FL on April 9th.

Official Newsletter of The Castle Group: Volume 4



HYDRO-MARINE CONSTRUCTION Assists Atlantic City Electric in Submarine Cable Repairs

Summer is here, which for most New Jerseyans means packing up their bags and taking a weekend trip to the Jersey shore to enjoy the sun and take a swim in the cool ocean water. While the divers here at Hydro-Marine Construction (HYDRO) love their fair share of beach excursions, they don't limit their shore swimming to the hot summer months. This past January, HYDRO divers plunged into the frigid waters of Ocean City, New Jersey near the Beesley's Point Bridge to assist Atlantic City Electric in locating and repairing a damaged submarine power cable.

There was approximately 500 to 600 feet of damaged 25KV submarine cable lying under the ground. One of the biggest challenges of this project was actually finding the buried submarine cable, as there was no exact map of where the cable was located, and cables are usually buried anywhere from four to nine feet underground. The only resources we possessed were the original drawings,

which were 30 to 40 years old. To locate the break in the cable, Atlantic City Electric had to send a high frequency sound through the cable, while HYDRO divers used a Cable Finder to locate the exact point of the break.

"Working with Atlantic City Electric workers was a pleasure. Our employees learned a great deal from them on how to locate a fault section of submarine cable."

- Bill Castle, Vice President -
Operations of Hydro-Marine
Construction, Co.

Buoys were then placed to mark the spot of the damaged cable, while divers jetted the channel bottom material around the cable to

Continued page 3

SJ25 Award



On June 10th, Hydro-Marine Construction, Inc. was recognized as one of South Jersey's 25 fastest growing companies at

The Merion in Cinnaminson, NJ. The South Jersey 25 Program, organized by the Philadelphia Business Journal and Rowan University, recognizes the fastest-growing private companies in Camden, Burlington, Gloucester, Ocean, Cumberland and Cape May counties. This is our second year receiving this award.

ACEC Award



On March 18th, W.J. Castle, P.E. & Associates, P.C. was honored with the ACEC 2010 Distinguished Award for the Roebling Bridge Replacement at the 39th Annual Engineering Excellence Awards held at Rutgers University.

Temple University Engineering Seminar Series

On April 23rd, Bill Castle was invited to Temple University Engineering Seminar Series to present W.J. Castle, P.E. & Associates, P.C.'s Quay Pier Rehabilitation Project to undergraduate and graduate engineering students and faculty. This seminar was hosted by Temple's Department of Civil and Environmental Engineering.



Highlighting NJ Projects



North Jersey, Sussex County
Project: Engineering Design Services for Sub-Structural Rehabilitation of County Bridge K03 Route 607 over the River Styx in the Borough of Hopatcong

Client: County of Sussex
Description: W.J. Castle performed a detailed underwater inspection of the bridge and tested the integrity of the existing fiberglass jackets. After inspection, we will be developing options for the County to strengthen the bridge as well as lengthen the bridge life span.



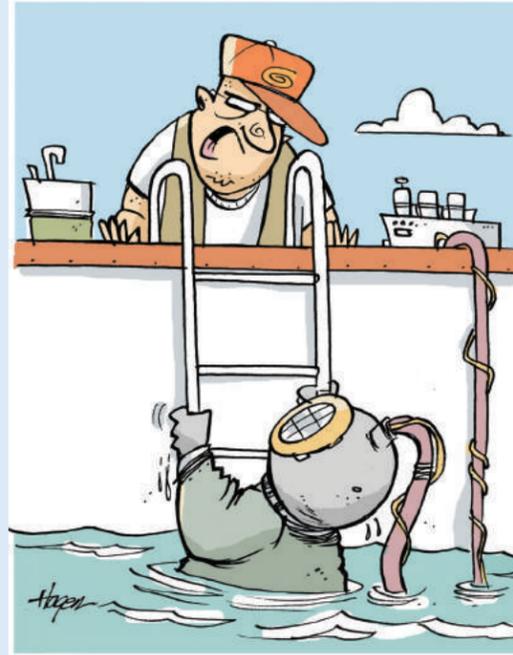
Central Jersey, Mercer County
Project: Engineering Services for Repair of Trenton Marine Terminal for Department of Inspections

Client: City of Trenton
Description: W.J. Castle is designing the replacement of a collapsed section of seawall along the Delaware River. WJC has performed a site survey to assess the extent of the collapse and developed the repair design.



South Jersey, Camden County
Project: Engineering Design Services for the Replacement of the Bridge 4C-7 on West Park Boulevard (CR641) from Crystal Lake Avenue (CR636) to Cuthbert Boulevard (CR643).

Client: Camden County Department of Public Works
Description: W.J. Castle performed the detailed inspection of Bridge 4C-7. We are developing a repair/rehabilitation scheme to save the arch culvert/bridge and saving the County money by avoiding a full replacement.



WELL FOR CRYING OUT LOUD, WHY DIDN'T YOU DO THAT WHEN I ASKED YOU?!!

Recently Featured In

The Castle Group has recently been featured in the following publications:



Underwater Magazine
 May/June 2010 Issue
 Page 41



Camden County Advantage
 Spring 2010 Issue
 Page 27



Philadelphia Business Journal
 June 11th Special Supplement
 Pages B6-B7



Iron & Steel Technology
 July Issue
 Page 182

To see these articles in electronic format, please visit www.wjcastlegroup.com/news-pressreleases.html

HYDRO-MARINE CONSTRUCTION Assists Atlantic City Electric in Submarine Cable Repairs

Continued from Cover



attach the slings/rigging. Cranes were then used to pull the underwater cable to the surface and anchor it onto the barge. What made this process even more difficult was the severe winter weather, as most faults usually occur in late fall or early spring, not in the dead of winter.

Above the surface, HYDRO and Atlantic City Electric crews worked busily from HYDRO's barge, providing the manpower, equipment, and expertise to repair any breaks or damages to the submarine power cables. For each break in the cable that was found, workers repaired it by cutting out the faulty section and then splicing in a new section of cable. As soon as the cable repair started, work was required to be performed 24 hours a day, seven days a week until all repairs were completed.

Once the cable was fully repaired, it was then placed back on the channel

bottom and re-buried by jetting. The actual repair of the cable took approximately two to three weeks and during that time no AC Electric customers were without power. The entire project was completed by late February, including mobilization and demobilization of all equipment and personnel. Working directly with Atlantic City Electric personnel helped to shorten the overall project time.

"Working with Atlantic City Electric workers was a pleasure," said Bill Castle, Vice President – Operations of HYDRO. "They were extremely knowledgeable, efficient, and easy to work with along every step of the project. Our employees learned a great deal from them on how to locate a faulty section of submarine cable. We are very thankful for this opportunity to have worked with such a proficient team."

4 Questions WITH Janet Castle



What do you do at The Castle Group, and how did you get to that position?

I serve as President of Hydro-Marine Construction and am involved in a wide variety of Hydro's day-to-day office and field operations. I also assist with operations of Hydro's affiliates, W.J. Castle & Associates and Simplified Bridge Systems. My history with the Companies began as a CAD operator with W.J. Castle and while Hydro was in its infancy, I personally performed all accounting functions including payroll, AR, AP, billing, etc. as well as administrative oversight of Company financials and insurance. Having such a diverse background has helped to develop me into the leader I am today.

What is the most important lesson you have learned since owning your own company?

Lesson 1: Healthy working relationships between team members, leadership and staff, is key to the overall success of individuals and the company.

Lesson 2: No one person can do it alone; therefore each person's contribution is as valuable as the next.

What one piece of advice would you offer women who are pursuing careers in engineering and construction?

Most importantly, be yourself and be confident. If at times you are struggling to be confident, fake it! Most likely you'll be the only one who knows you're faking. Don't be intimidated by men in business settings. I have found the majority of men respect women's professional input. My husband Bill has been my biggest encourager and has always shown respect for my work. So it's no surprise that his influence has affected my opinions on these issues.

What is it about Hydro-Marine Construction that sets it apart from other construction companies?

We have an advantage over other diving companies because of our close work with CASTLE engineers. This helps our clients get the best; a well built product, built with a knowledge of the best design possible. Also, we have our own staff of commercial divers. Many other marine contractors never get wet; we do!