

JOHN A. REIF, JR. DEPARTMENT OF CIVIL AND ENVIRONMENTAL ENGINEERING



Spring 2017 eNewsletter

Message from the Chair



This semester, the CEE Department lost a true ambassador, **Professor Eugene Golub**. Gene joined CEE in 1968. He will be missed and will always be remembered as a great administrator, educator, scholar and serviceman. He served as CEE Department Chairman for 11 years (1976-1988), and was instrumental in helping shape our department in the transition from NCE, a mainly teaching institution, to NJIT, a more comprehensive research technological university. He was a proponent of faculty governance and the involvement of faculty in departmental and institutional matters. He led the department by example by receiving the first major research grant on water supply modeling in New Jersey. Gene continued to be research active even up to a few months ago on our New Jersey Department of Transportation bridge scour research grant. He served in numerous public entities outside of NJIT that played a role in raising our stature in the State. Gene's contributions to undergraduate education are also noteworthy. Working with other CEE faculty, he was the first in the department to use technology to help students better learn mechanics. Gene was a "no nonsense" faculty member who had exceptional efficiency and time management skills.

As we move forward, we acknowledge that the achievements of the CEE department are powered by its people, the faculty, staff, students, alumni and friends who work together to engineer a better future for us all. Our faculty and staff continue to sustain exciting and significant contributions in the transportation, environmental and infrastructure areas of research, academics and service. Our students continue to utilize the edge in knowledge and learn the skills necessary for their success. I invite you to read through a few updates in our Spring CEE newsletter.

We welcome your support of the department's vision through involvement in our programs and invite you to join us for the **Annual CEE Commencement Ceremony at 1 pm on Tuesday, May 16 (RSVP: cee@njit.edu)**.

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Advisory Board

Representing a diverse cross section of civil and environmental engineering professionals, including design consultants, construction managers, contractors and attorneys.

Jerome F. Callagher, Jr., Esq., '80
Chair, Norris, McLaughlin, Marcus, PA

Ted Cassera, P.E., '72
Bowman Consulting

Anthony Castillo, P.E., '95 '02
SESI Consulting Engineers

David Good, P.E., '78, '92
Mueser Rutledge Consulting Engineers

NJIT Mourns the loss of Eugene Golub



Eugene Golub, professor of civil and environmental engineering for nearly 50 years, served as department chair for 11 years. He was very active in environmental issues, served on the NJ Water Supply Advisory Council, brought millions of dollars in funded research to NJIT and taught thousands of students.

He wore several different hats and remained active, on campus and off, making significant contributions and improvements to everything he worked on. Gene was elected to serve on the Township Committee in Freehold Township and even served as their Mayor.

His greatest joy was being a husband to Arlene, father to Brian Golub and his wife, Linda; Seth Golub and his wife, Caron; and Kimberly Urban and her husband, Robert; and grandfather to Emily, Jarrett, Jason, Justin and Lacie.

Students

Concrete Canoe

With materials donated by Ron Vaughn, Technical Services Director, Northeast Solite Corporation, the Concrete Canoe project team cast its boat and prepared for the regionals.

This year's design, affectionately named

Andre Grabenstein, LEED AP '95, The Martin Group

Tony DeJohn, P.E., P.P.
WSP Parsons Brinckerhoff

Careth Middleton, P.E., '93 '04
Tishman Construction, an AECOM Company

Rocco Palmieri, P.E., P.P., PLS '72,
'77, Partner Engineering and Science

Maurice Rached, P.E.
Maser Consulting

Ken Sisk, P.E., '95
Pizzarotti IBC

Joseph Stanley, P.E., P.P., '78, '85, Mott
MacDonald

Wei Wang, P.E., '95
Urban Tech

Michael Wright, P.E., P.P., PMP '79 Arora
and Associates, P.C.

Scholarships

The Advisory Board has created a scholarship fund to recognize civil engineering undergraduates students for their diligent preparation for professional licensure. Donating to this fund will ensure that your gift reimburses testing fees to students who successfully pass the Fundamentals of Engineering exam.

[▶ DONATE NOW](#)

Editors

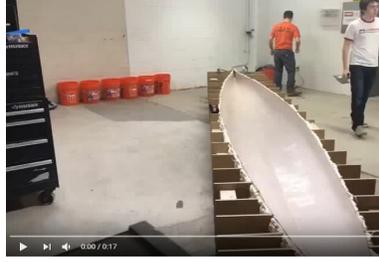
Cynthia Gincel
Tom Jaworski
Heidi Young

Special Thanks

Strategic Communications

Office of Alumni Relations

Faculty/Staff, Students & Alumni



[View Civil Students building the canoe](#)

Waste fractions of the expanded shale were also put to use by the American Water Works Team to create water filters, reducing the trash and waste generated by the canoe team!

Bedrock, is an ode to the '60s-era animated sitcom, **The Flintstones**.

New rules introduced this year by **ASCE** provided a significant challenge: to make concrete with a density less than water.

CEE Students Sweep 1st Place at AWWA Competitions

Every year, the NJ Section of the **American Water Works Association (AWWA)** runs a **student filter building competition** to encourage innovation, engineering and design of water filters to treat environmental pollutants.

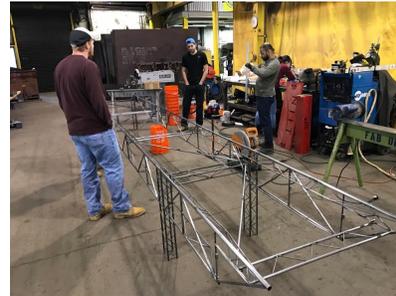
We are proud to announce that CEE students Matthew Misko, Jared Wagner, and Siying Wang won **1st Place** on February 25 at the **Middlesex Water Company**.



Additionally, the **NJ AWWA** hosted a student day on March 22 at their annual conference in Atlantic City, where CEE students swept 1st place in the undergraduate and graduate categories in the **student research poster contest**. [View a list of NJIT winners](#).

Congratulations to all!

Steel Bridge



The **Steel Bridge Team's** co-captains, Whittier Hua and Ankur Patel, led the design, analysis, and construction phases of the bridge. The cantilever structure required the team to consider positive and negative bending in the bridge and sequencing effects during load testing.

The captains instituted a "boot camp" to help younger members learn more about the design and analysis process and pass on knowledge to future leaders of the team.

Research

Driving Simulators have gained great attention in recent years as powerful tools to support highway safety and operational assessments from the perspective of drivers. NJIT procured a high-fidelity driving simulator to enable a research team, led by Dr. Joyoung Lee, to evaluate a wide spectrum of cutting-edge **Intelligent Transportation Systems** and **Transportation Systems Management & Operations** applications. [Read more](#)



Driving Cockpit

Alumni



Kristina Ippolito '13, a project engineer, with Judlau Contracting in New York City, is featured in an exhibit about women in the engineering profession. Read about Kristina and other women described as "Modern Day Rosies" at [Women Can Build](#).

The **Women Can Build** exhibit can be viewed at:

NYC Dept of Transportation, Art Display Cases, Water Street, at Gouverneur Lane and Pearl Street

Running until May 15, the exhibit displays work by Pulitzer Prize-winning photographer Deanne Fitzmaurice and historic photographs from the Library of Congress highlighting original WWII-era "Rosie the Riveter" manufacturing workers.



Muhammad Elgammal '12, an agreement project manager for Port Authority of NY & NJ, is a member of the Newark Liberty Airport Redevelopment Team and is recognized as one of the country's [New Faces of Civil Engineering](#).

Muhammad's passion for engineering started at a young age with five engineers in his family. He encourages middle and high school students in the Future City and ACE Mentor Programs. He serves as an adjunct professor and is the chair of the Young Alumni Association at NJIT.

Muhammad is also featured as the [Port Authority's Rising Star in Civil Engineering](#).

Achievements

Newark College of Engineering Salute to Engineering Excellence



Student **Andrea Cano**, won two awards: **CEE Department Outstanding Senior** and **Madame Mao Outstanding Female Engineering Student**.
Andrea with **Taha Marhaba** (left) and **Zen Whang**.

More than 200 alumni, faculty, staff, students and friends of the **Newark College of Engineering** celebrated their continued commitment to engineering education at the **19th Annual Salute to Engineering Excellence**, held on March 9 at the Highlawn Pavilion in West Orange.

Congratulations to the Department of Civil and Environmental Engineering honorees **Andrea Cano**, **Jerome F. Gallagher** and **Rocco P. Palmieri**, who received awards at this event.



Alumni **Jerome F. Gallagher, Jr., '80** (left) winner of the **NCE Spirit Award** with **Robert Cohen**.



Rocco P. Palmieri, '72, '77 (left) winner of the **Outstanding Alumni Award** with **Ted Cassera**.

Faculty



Infrastructure engineers face two monumental challenges in the 21st century: how to assess the structural health of thousands of roads, bridges and tunnels that may not have been inspected in decades, and how to repair and rebuild them to last in a dramatically changing world. Civil engineers Matthew Adams and Matthew Bandelt have joined forces to attack both problems with a one-two punch. [Read More](#)

Spotlight

Bayonne Bridge Navigational Clearance Project



At an estimated cost of \$1.3 billion, the **Bayonne Bridge Navigational Clearance** project, dubbed as the "**Raise the Roadway**" project is more than sixty percent complete. Using segmental construction techniques, this major infrastructure project will allow much larger, more efficient shipping vessels to enter Newark Bay. The lower roadway was permanently closed in February 2017, with traffic moved to the newly constructed elevated roadway.

[View](#) the Port Authority of New York/New Jersey planning video.
[View](#) project milestones and a construction time-lapse video.

Staff

Meet our new staff member

In February, Cynthia Gincel joined the CEE team as our Administrative Coordinator after completing a one-year assignment with the Center for Injury Biomechanics at NJIT. Prior to joining NJIT, she served as an office manager at Wiley Publishing in the company's Technology Project Management Group. Cynthia has extensive experience in web and email marketing, event planning and financial reporting.



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