

Concrete Industry Foundation Journal 2018



THOMAS COSTIGAN
Humanitarian Fellow
Medal



CASIMIR BOGNACKI, PE,
FACI
James Anderson
Distinguished Service Award

**The
2018
Honorees**



CONGRATULATIONS TO THE
2018 CONCRETE INDUSTRY FOUNDATION
HONOREES

THOMAS COSTIGAN

Cross Country Construction, LLC

CASIMIR BOGNACKI

The Port Authority of New York & New Jersey



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The Concrete Industry Foundation Annual Report 2018

Message from the President

“Invest in Education for the Concrete-Built Environment”

Hall of Fame

HUMANITARIAN FELLOW MEDAL

James Anderson
Jay Badame
Irwin G. Cantor
Louis J. Coletti
Joseph DePaola
Vincent J. DeSimone
John M. Dionisio
Alfred G. Gerosa
Joseph D. Goldreich
James E. Halpin
Francis J. Lombardi
Francis J. Principe
Dominick M. Servedio
Dr. Charles J. Thornton
Richard L. Tomasetti
Joseph Scalamandre
Joseph Mizzi
Thomas Costigan

JAMES ANDERSON DISTINGUISHED SERVICE AWARD

John Brunetti
Charles DeBenedittis
John M. Dionisio
Joseph A. Ferrara
Samuel C. Florman
Reginald D. Hough
Ira A. Levy
Francis J. Lombardi
Alfonso Lopez
William S. Phelan
Lee J. Principe
Christopher O. Ward
D. Thomas Ruttura
Casimir Bognacki

LIFETIME ACHIEVEMENT AWARD

John Brunetti
Vincent J. DeSimone



**JERRY PARNES
CIF PRESIDENT**

It is with much thanks and gratitude that I join with you in honoring our 2018 Concrete Industry Foundation Scholarship winners and our Humanitarian Fellow and James Anderson Distinguished Service award winners.

Only a short while ago, last September, we held our second annual Foundation awards dinner. This year, we took advantage of a change in the Concrete Industry Board’s schedule of events to move the Foundation’s third annual fundraising dinner to May. In coordination with the CIB, we plan to keep the May date for all future Foundation dinners.

I thank everyone for their generosity last year in helping the Foundation achieve an almost \$50,000 increase in its inviolate funds. Through your contributions and a generous endowment by the DeSimone family, in honor of their father, Vincent, we were able to increase our annual scholarships to 12 recipients and contribute additional funds to the Carpenters Union and Urban Assembly. Our honorees are first-class representatives of our engineering and

construction professions.

We honor Thomas Costigan, founder of Cross Country Construction, LLC, and our Humanitarian Fellow Medal award recipient, for his dedication to the construction industry and serving as an active leader in trade associations. He also spends much time helping the youth of his community. Casimir Bognacki, our James Anderson Distinguished Service Award recipient, recently retired head of the Port Authority of New York and New Jersey Material Engineering Laboratory, has been actively involved in teaching professionals throughout the metropolitan area all about concrete.

And most significant, we honor our scholarship winners. We also, regretfully, acknowledge the loss of our industry’s dear friend and colleague, Irwin Cantor. He was the founder of Cantor Associates, which became Cantor and Seinuk and now is part of WSP, an international engineering company.

The Concrete Industry Foundation is proud to be providing scholarships to 12 engineering, architecture, and construction students who are attending colleges and universities in the New York Metropolitan Area and appreciate the establishment of a second Manhattan College Scholarship in honor and memory of Vincent DeSimone by the DeSimone family. Since 1993, we have awarded 169 scholarships for \$2,000 each, for a total of \$338,000.

The Foundation continues to support interns who remain active in firms such as Engineered Devices Corporation, Future Tech Consultants, Inc., and DeSimone Consulting Engineers. We will be working hard this year to establish a dedicated list of companies that will readily accept interns recommended by the Foundation.

Since inception, the Foundation has provided 15 grants for the union training/apprentice program. This year, we contributed to the Carpenter’s Union training programs and honor the memory of a union member, Chris Sayers, who unfortunately lost his life way too soon (See story, page 27).

This past year we moved on to support research on Fire Resistance of Reinforced Concrete Structures with High Strength Rebar. We are also proud to provide, once again, a \$3,000 contribution to the Urban Assembly, which runs private public schools for underprivileged students.

Our funding continues to be supported primarily by the generosity of our underwriters, memorial tributes, benefactors, patrons, contributors, event attendees and sponsor firms. We are excited to announce we are approaching \$850,000 in inviolate funds, which will allow us to fund more scholarships and our other programs in the future. We appreciate your support and hope you will continue to contribute to the Concrete Industry Foundation Fund.

Thank you very much for your continued support. Please consider contributing, using the “Invest in Education for the Concrete-Built Environment” form at the back of this Annual Report and visit our website at www.cif.org for continued updates on our wonderful programs.

Mission Statement

“To ensure funding for education and research to foster and expand an enduring concrete-built environment.”

About the Concrete Industry Foundation, Inc.

Officers and Directors

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Casimir Bognacki
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Antonio S. Limbardo

EMERITUS

Lynn P. Carroll
Francis J. Lombardi
Mike Mota

The Concrete Industry Foundation (CIF), Inc., now in its 25th year, was originally established in 1993, became a foundation in 2005 and continues as an independent and freestanding 501(c)3 foundation. The CIF is dedicated to education that contributes to the concrete-built environment. Its work is supported by contributions from the design and construction industry. Significantly, contributions come from those leaders involved in the many phases of concrete design and production.

The Foundation traditionally presents two annual industry recognition awards to acknowledge the leadership roles taken by individual members of our community that further our industry through continuing education. The Foundation’s Humanitarian Fellow Medal is presented “for dedication to the industry, community, and society (resulting) in outstanding benefit to future generations.” The James Anderson Distinguished Service Award for Education is awarded “to acknowledge exceptional service to the education of future members of our industry.”

In addition, the Concrete Industry Foundation has established and continues to support an annual grant in union apprentice programs. This is done on a rotational schedule for all trades that have a direct association with concrete construction. The CIF affirms its support of the trade unions’ apprentice programs and readily acknowledges that a high level of training is a most important vehicle in supplying our industry with trained craftspersons. These grants recognize one of labor’s significant contributions both to education and to the industry.

The Concrete Industry Foundation is built on the concept of Volunteerism. It has no paid staff. It is a totally volunteer effort involving the considerable and diverse talents of dedicated senior professionals. They all share a common bond: a desire to aid future generations of bright, talented, motivated, and equally dedicated future leaders.

Since 1996, when CIF awarded its first scholarships, each award has been funded and continues to be funded without touching the Foundation’s inviolate principal. While always looking ahead, the Concrete Industry Foundation’s focus is also on the student experience today.

Make your commitment. Invest in education for the concrete-built environment by filling out the form on page 50 of this report.

Thank You to CIF's 2017 Sponsors & Supporters

NOTE: These are the 2017 sponsors. The sponsors for the 2018 dinner were not complete as of presstime.

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Concrete Industry Board
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Stephen V. DeSimone
in memory of
Vincent J. DeSimone
Vincent J. DeSimone
in memory of Dominick
& Josephine DeSimone
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Antonio S. Limbardo
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Francis J. Principe (Estate)
Lee J. Principe (Estate)
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of Virginia Anne Principe
Thornton Tomasetti, Inc.,
in memory of Abe Gutman

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*(*Total of all contributions in an individual's memory)*

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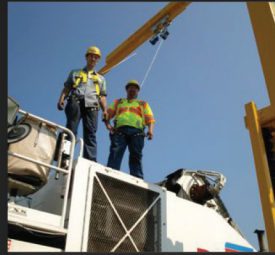
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Gus Erlemann
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Lee Principe
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Jack Weber



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Congratulations Concrete Industry Foundation's 2018 Honorees

Thomas Costigan

The Humanitarian Fellow Award

Casimir Bognacki, PE, FACI

The James Anderson Distinguished Service Award

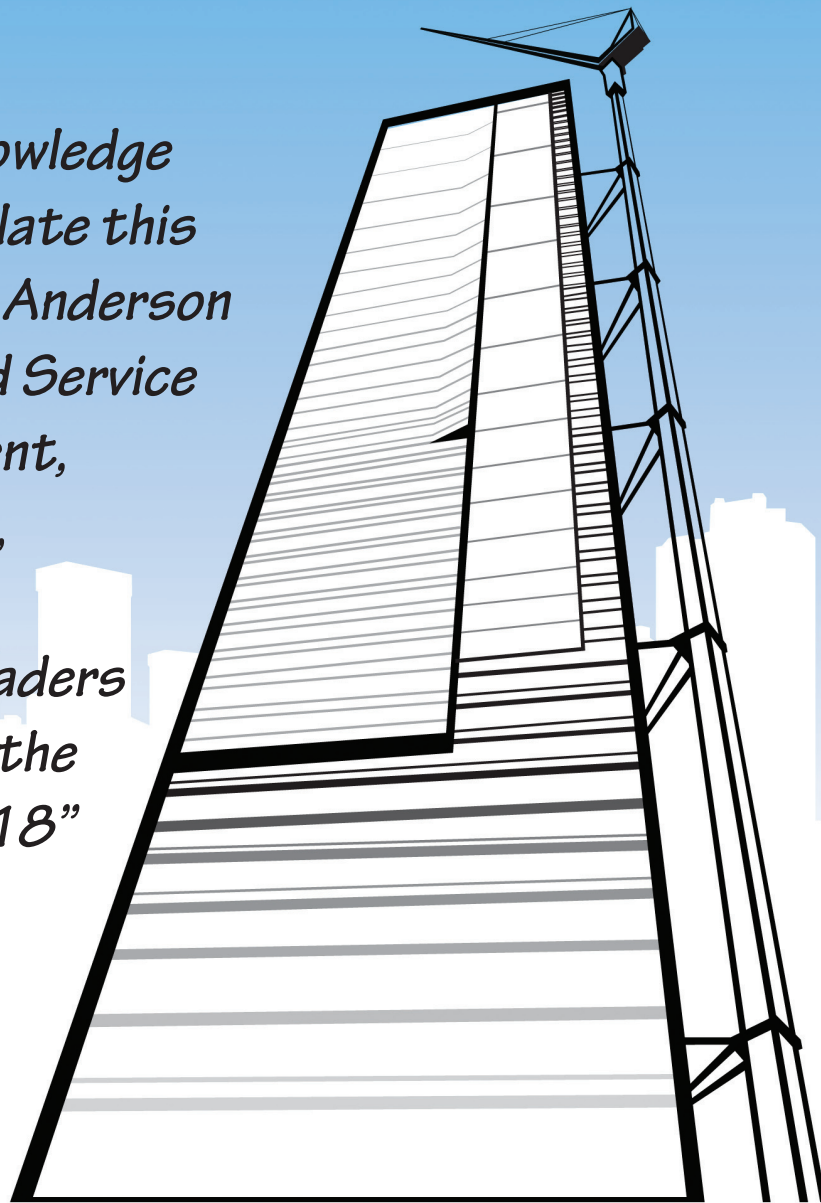
And the "Class of 2018" Scholarship Winners

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Cross Country Construction, LLC, congratulates its owner, Tom Costigan, on being honored with the Concrete Industry Foundation's 2018 Humanitarian Award

We also acknowledge and congratulate this year's James Anderson Distinguished Service Award recipient, Cas Bognacki, as well as our industry's Leaders of Tomorrow, the "Class of 2018" scholarship winners



Cross Country Construction LLC

Humanitarian Fellow Medal

Thomas Costigan

Owner / Cross Country Construction LLC

Tom Costigan is the owner of Cross Country Construction, LLC, a reinforced concrete superstructure subcontracting firm doing business in the New York City Metropolitan area. The firm, which he started in 2004 with a home equity loan, has grown from a company with 10 employees to one with more than 600 employees and a weekly payroll in excess of \$1.8 million.

Cross Country's construction volume has grown from a company doing between one- and two-million-dollar projects to one with current contracts valued in excess of \$350 million.

The company is involved in building some of the tallest structures on the New York City skyscraper scoreboard and for some of the most prominent names in the New York City real estate market. These include two current projects for Related Properties: the 70 story, 930-foot high 15 Hudson Yards, and the 52-story, 750-foot-tall 55 Hudson Yards.

There also is a current project for Avalon Bay: the 35-story, 1865 Broadway, and one for Vornado Realty Trust: the 72-story, 950-foot-tall 220 Central Park South. Other notable Cross Country clients include Sidney Fetner Associates, The Durst Family, The Gotham Organization, TF Cornerstone, Rose Associates, The Jack Parker Organization, Levine Builders, The Brodsky Organization and many others.

Tom is an active member of the Cement League, and he is intimately involved in all union trade contract negotiations with the unions that provide labor to the hi-rise industry, including but not limited to The District Council of Carpenters, Concrete Laborers, Cement Masons, Metallic Lathers, and Operating Engineers. Tom's family has been involved in union construction arena for more than 50 years.

The climate in the New York City construction world is rapidly changing to an unregulated, non-union model, and Tom is committed to challenging and compelling these unions to reform antiquated work rules and fringe benefit packages so as to keep excellent paying jobs in New York City that command good working conditions, security for retirement, and health care for the hardworking men and women in the New York City hi-rise market.

Tom, who said he is honored to have been selected for the Concrete Industry Foundation's Humanitarian Fellow Medal, acknowledges that this honor has only been made possible because his father, James Costigan, began X.L.O. Concrete Corporation nearly 50 years ago. X.L.O. was at one time among New York City's premier reinforced concrete superstructure firms.

Tom holds a Bachelor's of science degree in civil engineering from Villanova University, where he was an All-American boxer. He and Susan, his wife and best friend of more than 33 years, are the parents of six grown children. He spent 18 years coaching Little League baseball, softball, and youth soccer while his children were growing up. In his spare time, he enjoys fly-fishing, playing the guitar, listening to music, and working out.



Congratulations all Honorees, especially our friend Cas Bognaki.



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James Anderson Distinguished Service Award



Casimir Bognacki, PE, FACI

Chief of Materials Engineering
Port Authority of New York & New Jersey

Casimer “Cas” Bognacki began his professional career in June 1972 with American Electric Power Service Corporation and advanced to the position of supervising engineer in December 1982, where he was responsible for a staff of engineers. During this time, Cas was in charge of civil and geotechnical projects, from initial studies through construction. He also was responsible for the design of foundations, drainage systems and roads, preparing construction specifications and drawings, and the administration of construction contracts.

In 1983, Cas joined The Port Authority of New York and New Jersey’s Engineering Department as a staff services engineer in the Materials & Research Division, responsible for supervising field and laboratory geotechnical work. In January 1986, he was promoted to supervising engineer, in charge of overseeing all of the inspection and testing functions in the Materials Engineering Division. In January 1998, Cas was promoted to the position he held when he retired earlier this year: chief of materials engineering, responsible for the testing and inspection of construction materials.

Recently at the Port Authority, Cas and his staff were responsible for testing and inspecting all concrete, steel, masonry, soils and aggregate, fireproofing and firestopping materials at the World Trade Center site for Tower One, the Memorial, the Transportation Hub, and the Vehicle Security Center. The high-strength concrete mixes used at the World Trade Center set a new standard for these mixes in New York City.

Cas has been quite active in the American Concrete Institute and was made a Fellow (FACI) of ACI in 1998. He received the ACI Chapter Activities Award for the work he had done with the New Jersey Chapter of ACI and the Certifications Awards for conducting the certification programs at the NJ Chapter and the Concrete Industry Board (CIB). He is past chairman of ACI Committee 214, “Evaluation of Tests Results Used to Determine the Strength of Concrete.” He is also a voting member of ACI committees: 121, “Quality Assurance Systems for Concrete;” 211, “Proportioning Concrete Mixtures;” 212, “Chemical Admixtures;” 304, “Measuring, Mixing, Transporting, and Placing Concrete;” and 562, “Evaluation, Repair, and Rehabilitation of Concrete Buildings”.

Locally, he is the past president of the NJ Chapter ACI and was the Concrete Industry Board’s president in 2011-2012. He is currently chairman of the committee that is responsible for updating the concrete section of the New York City Department Of Buildings Code. The CIB presented Cas its Industry Leader Award in 2001. In 2012, Cas was honored by receiving the Lifetime Achievement Award from the NJ Chapter of ACI and the Concrete Producers and Aggregate Suppliers in New Jersey for his work in the concrete industry. In 2012, he was also recognized by the American Society of Concrete Contractors as one of the five most influential people in the concrete industry.

Cas received his bachelor’s and master’s degrees in civil engineering from the Brooklyn Polytechnic Institute. He took graduate courses in construction materials at Purdue University. He is a registered Professional Engineer in New York.



CONGRATULATIONS

Thomas Costigan

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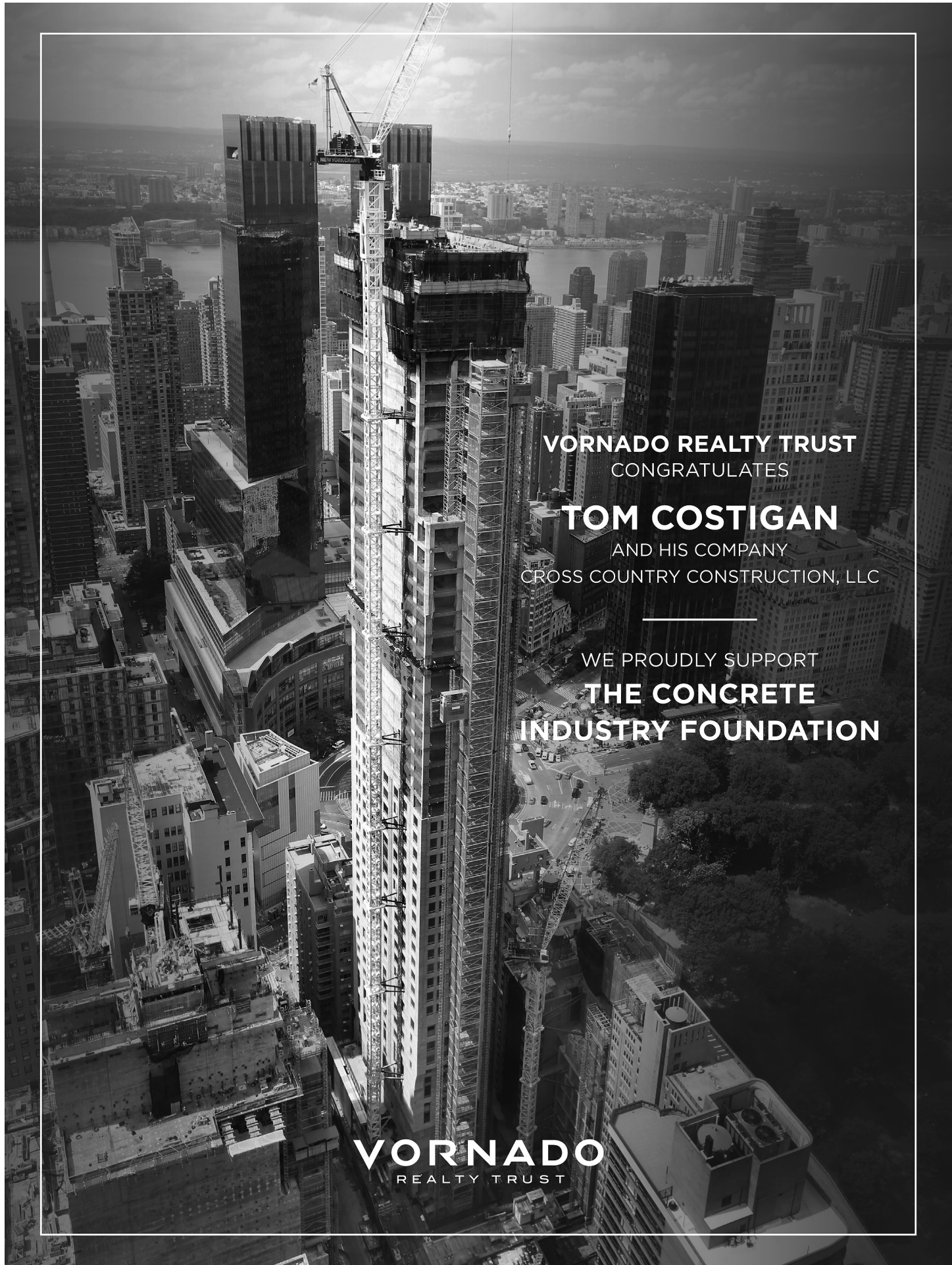
Casimir Bognacki, PE, FACI

Chief of Materials Engineering
Port Authority of New York & New Jersey

Thomas Costigan

Owner
Cross Country Construction, LLC

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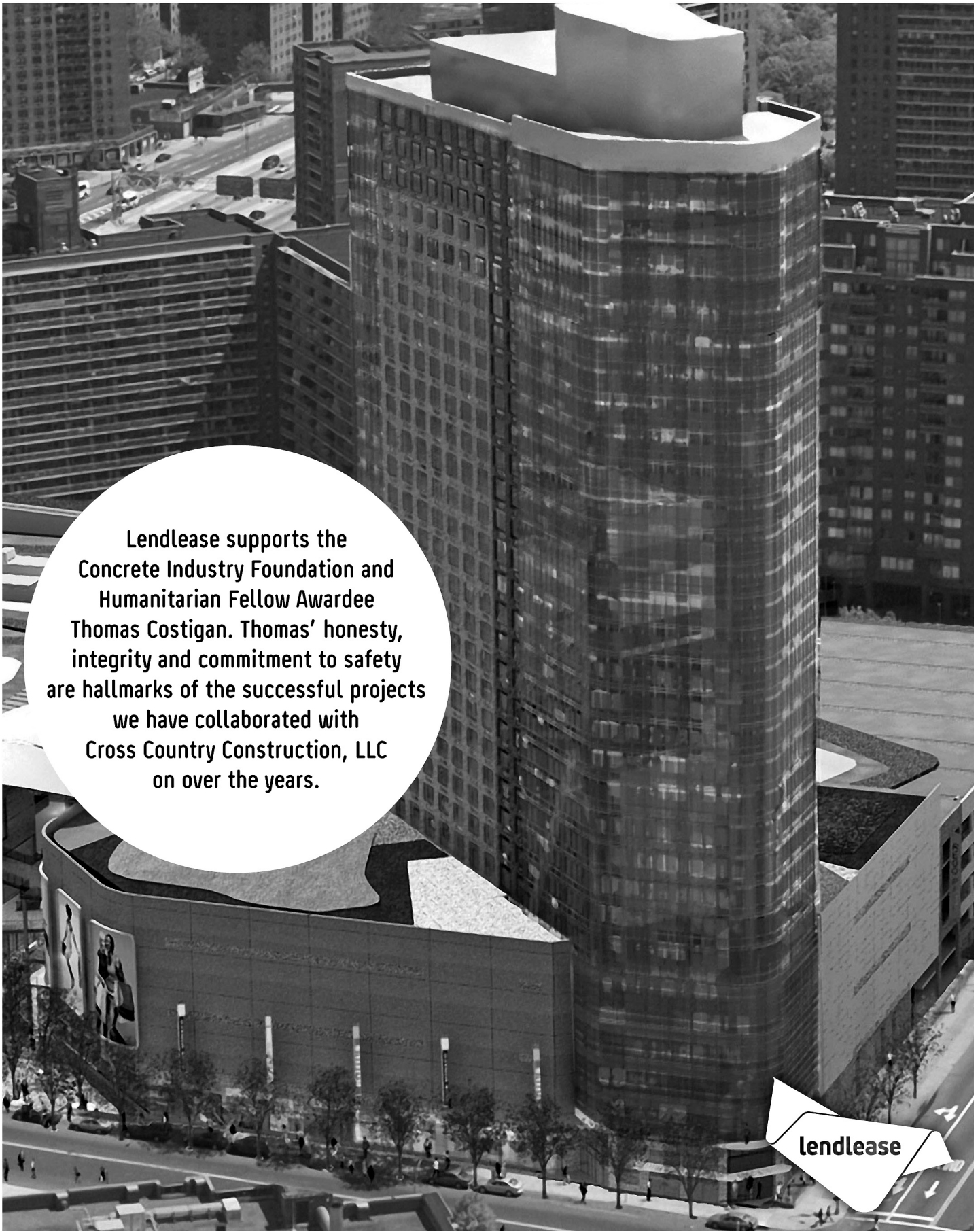


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TOM COSTIGAN
AND HIS COMPANY
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Lendlease supports the Concrete Industry Foundation and Humanitarian Fellow Awardee Thomas Costigan. Thomas' honesty, integrity and commitment to safety are hallmarks of the successful projects we have collaborated with Cross Country Construction, LLC on over the years.

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Congratulations Tom Costigan, Owner of Cross Country Construction LLC, recipient of the Humanitarian Service Medal

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Thomas Costigan on receiving the Humanitarian Fellow Award and
The Class of 2018 Scholarship Winners.



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We join in honoring Casimir Bognacki,
Thomas Costigan & The "Class of 2018"
Scholarship Winners



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CONGRATULATIONS TO HONOREES

CAS BOGNACKI

TOM COSTIGAN

& 2018 SCHOLARSHIP RECIPIENTS

From your friends at NJ ACI

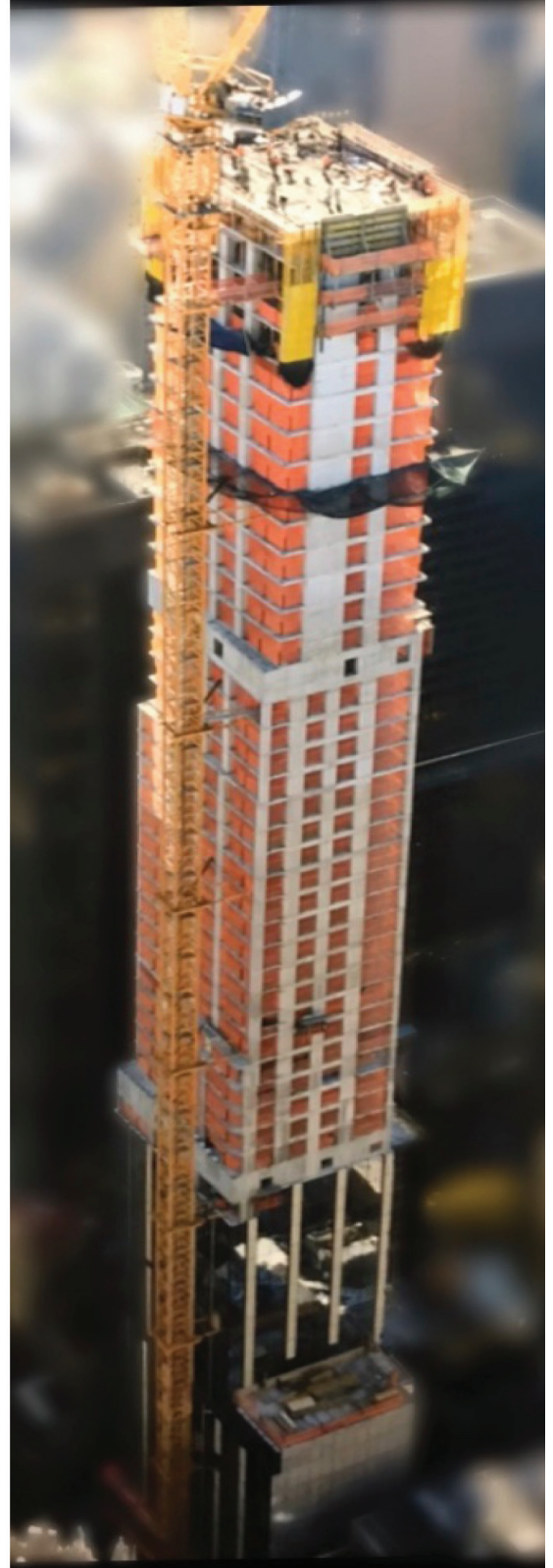


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*Congratulations
To All
Honorees
of
The Concrete
Industry Foundation
and the
Class of 2018
Scholarship Winners*





The Concrete Industry Foundation Annual Report 2018

CIF's 2018 Alfred Gerosa Awards



**DANIEL
CABRERA**

DANIEL CABRERA

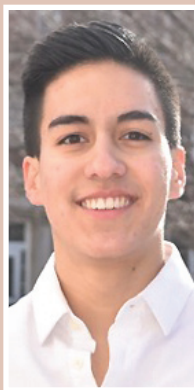
\$2,000 James E. Halpin Scholarship

Daniel Cabrera is a junior pursuing a degree in civil engineering at NYU Tandon School of Engineering—with an interest in either structural or water resources engineering. He expects to graduate in May 2019.

Raised less than an hour away from New York City, Daniel said he has always been fascinated with the field of civil engineering and was given hands-on experience working with his father's residential construction business, Cabrera Construction, LLC. Recently he worked for Full Stack Modular, a Brooklyn-based construction firm that implements modular building practices in buildings to reduce high construction costs. While there, he worked on improving construction documentation through the application of web-based platforms and building information modeling to increase efficiency in a company that employs lean manufacturing as a core component.

Additionally, Daniel worked as a researcher, focusing on mini-grid development for communities in sub-Saharan Africa where he assisted a graduate student with her thesis. At NYU, Daniel is a member of the Society of Hispanic Professional Engineers (SHPE). He has completed several academic traffic studies projects of intersections and highways in Manhattan, Brooklyn, and Nassau County. At these occupations, Daniel experienced first-hand the key skills that are necessary for success as an engineer such as precise planning, cost estimation, and resource management. He hopes to further gain experience in structural engineering this summer with The Office of Ysrael A. Seinuk.

His goals include graduating with a Master's degree in structural engineering and contributing in a field that is critical to the success and future of society as a whole. Whether this path has him designing the city of the future or planning the sustainable systems of small communities, he faces such tasks with determination to assist in the best manner possible.



**DANIEL
FORERO**

DANIEL FORERO

\$2,000 Vincent DeSimone Scholarship

Now in his junior year at Manhattan College where he expects to receive his Bachelor's of Science degree in civil engineering in May 2019, Daniel Forero has taken a wide variety of classes during college, developing an interest in many different topics.

Last summer, having earned an ACI Concrete Field Testing Technician-Grade 1 certification, he said he discovered his passion during his internship at HVEA Engineers. There he conducted materials testing in the lab and concrete testing as a certified field technician on projects such as the Goethals Bridge. He reports that his internship "benefited me in so many ways, by growing my professional network, enabling me to visit various projects, testing and learning about materials, and learning how to prepare field reports." In addition to ACI certification as a Grade 1 concrete field testing technician, he also earned his OSHA-10 certification and is APNGA Nuclear Gauge Safety-certified as well. He also successfully completed the Metropolitan Transportation Authority (MTA) Contractor Orientation course.

"Aside from the educational aspects of my last internship," Daniel said, "I also enjoyed the culture of my work place, which consisted of professional engineers/technicians who were very welcoming and other fellow interns who helped foster a great work environment. We were able to work hard while simultaneously building great relationships. I genuinely enjoyed going to work each day." His CIF scholarship will benefit him, he said, "by getting me one step closer to my long-term goal of becoming a professional engineer and eventually starting my own materials testing company."



**CYRUS
HENRY**

CYRUS HENRY

\$2,000 Lee J. Principe Memorial Scholarship

Cyrus Henry is a fourth-year student at the Irwin S. Chanin School of Architecture at The Cooper Union. He expects to graduate in May of 2019 with a Bachelor's of Architecture degree. He has been twice awarded the school's Innovator Tuition Merit Award, and he also was the recipient of the New York Society of Architects' Fred L. Liebmann Book Award. Cyrus already has several architectural internships to his credit, with SITU Studio in the summers of 2015 and 2016 and with Ohlhausen DuBois Architects last summer.

In his essay he said "As a student of architecture, I am constantly engaging provocative and inspiring works, from built constructions to drawings and written theory. Architecture is a field that I feel a part of, and I aspire to be a valued contributor to its collective discourse and practice." He views the communal nature of architecture as "tremendously compelling to me. In my career, I want to work with a range of different architects, engineers, and builders who pursue a variety of projects and approach them all with innovative processes." He said the diversity of thought inherent in collaboration has exposed him to new creative experiences, challenging him to develop his own unique position.

Cyrus avows that his education "is the most valuable part of my life, and it will continue long after my graduation. I am excited to work in a variety of different offices and environments to further develop my design skills, learn how to structure a business, and meet ambitious and inspiring colleagues. I have the vision to one day establish a practice and work with other great thinkers of architecture and surrounding fields to explore and realize progressive ideas of representation and the built environment."

KYAW HTUN

\$2,000 Francis J. & Lee J Principe Scholarship, in memory of Virginia Anne Principe

Kyaw Hyun, a native of Myanmar and now a resident of Elmhurst, Queens, is a student at New York City College of Technology. He expects to receive his degree in construction technology in June 2019. Previously, Kyaw attended the Technological University's Thanlyin campus, Myanmar, where he received a diploma in civil engineering.

Kyaw has decided to become a professional licensed civil engineer in the transportation field. "Transportation engineering is an exciting profession," he said in his essay. "It highly benefits civilization in social, economic, and environmental ways while following to building codes and other government agencies regulations." His vision: "To see the transportation industry become a more sustainable infrastructure industry. In addition, my aspiration is to create a traffic-free highways and long-lasting bridges in more sustainable ways around the world."

From June to December 2017, Kyaw had an internship as a transportation construction inspector at the New York State Department of Transportation, where he was assigned to work on the rehabilitation of Roosevelt Avenue Bridge, learning how the progress of heavy construction works. While working with Thornton Tomasetti Consulting Engineers, Kyaw learned the process of office paperwork, contract drawings, and shop drawings. "I found that repairing the bridge is much more interesting, and also very challenging," he said, "especially working with large structures and varied materials. He added: "Working in the civil engineering field will give me many opportunities and if I choose, I can easily transfer from one civil engineering discipline to another. Consequently, choosing a career in civil engineering will allow me the flexibility to do what I enjoy, to help the community, and to meet financial security at the same time. I believe civil engineering is the field for me."



KYAW
HTUN

COURTNEY E. JONES

\$2,000 Alfred Gerosa Scholarship

Courtney Jones, a resident of Fredericksburg, VA., is a civil engineering major at Stevens Institute of Technology. She has a 3.9 GPA and expects to simultaneously receive her Bachelor of Civil Engineering degree and her Master's degree in structural engineering in May 2019. She is a member of Chi Epsilon Civil Engineering Society and Tau Beta Pi Engineering Honor Society. Courtney's hands-on experience includes a May-August 2017 tenure at the Fredericksburg, VA-based Sullivan, Donahow & Ingalls, PC, where she was involved in surveying, drafting, environmental, and SWPPP inspections, and at Stevens Institute where, from August 2017 to the present, she has managed the Griffith Senior Design Lab, assisting with student projects when necessary, and showing her versatility by tackling any number of every-day lab chores.

She is captain of the Stevens Women's varsity swimming team and is a member of the American Society of Civil Engineers and the Student Athlete Advisory Committee (SAAC) Duckling Program. She has been on the Stevens Institute's President's List and Dean's List from fall 2015 through the fall of 2017. Courtney was appointed to the All-Academic Team of the Upper New York State Collegiate Swimming Association (2016-2017) and was honored as a Scholastic All-American by the College Swimming Coaches Association of America (2015-2016).

As a young girl, she said, she wondered about such things as the design of interstates. That eventually led her to an appreciation for the beauty and intricacies of highway systems. "My curiosity only expanded from there, leading to an intense interest in the infrastructure systems that make societal living possible as well as to the field from which produces them: civil engineering."



COURTNEY
JONES

LEAH McGOVERN

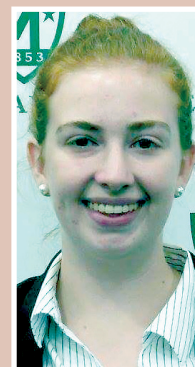
\$2,000 Antonio S. Limbardo Scholarship

Leah McGovern will receive her Bachelor's of Science degree in civil engineering from Manhattan College in May 2019. She currently has a 3.56 GPA and is a national member of the American Society of Civil Engineers, a student member of the Society of Women Engineers, and a member of Engineers without Borders. Leah also is a mentor in the NSF Scholarship in STEM Program, a member of the NCAA Women's Division I Rowing Team, social media officer in the Gaelic Society, and is a member of Chi Epsilon-Marshall.

She has participated in two internships, both with New York City-based STV Construction. Last summer, she was a construction management intern with STV on the NYU Langone Hospital project in Brooklyn. In 2016, she interned with STV on various renovations at St. John's University, Queens.

In her scholarship essay, Leah wrote: "Living just a train ride from New York City, I grew up fascinated by the extensive skyscrapers and bridges connecting the city. I always knew I wanted to be a part of the making of these structures, But I did not know how this would be possible. As I continually found myself questioning how certain buildings were made and what materials were used, I realized engineering would be a beneficial career path for me." She also has a desire to serve those in areas that are less fortunate, getting involved in volunteer work for a program to help less developed nations.

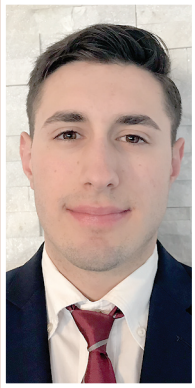
"My dream to become an engineer can be achieved through hard work, dedication, and perseverance. I will be able to accomplish my goals of adding to the many developed structures throughout the world, creating safe, functioning, and efficient places for people to live and work. By being involved, I can add to the beauty stemming from the existing structures designed from extraordinary feats of engineering," Leah said.



LEAH
McGOVERN

Concrete Industry Foundation's scholarships and grants are awarded to students at the graduate, undergraduate, technical college, and apprentice levels who are preparing to work as engineers, architects, inspectors, technicians, or constructors. Applicants must be US citizens and must also be permanent New York Metropolitan Area residents and attending an institution in the New York Metropolitan Area, (defined as being within a 100-mile radius of Manhattan). Undergraduate students must have completed their sophomore year and be continuing to study during the next school year. Graduate students may be in any year of study and must be continuing to study during the next school year. Applicants should demonstrate a career goal in engineering, architecture, or construction management and express an interest in the concrete-built environment. Students having "hands-on" experience from full or part time, or co-op work in design and/or construction, are especially encouraged to be considered. Each applicant is required to furnish the CIF Selection Committee with a one-page application, a one-page resume and an essay.

2018 Scholars



THOMAS
PISCOPIO



JARRETT
POLINER



CHRISTOPHER
RILEY

THOMAS PISCOPIO

\$2,000 Raymond Heun Scholarship

Thomas Piscopio is on track to receive his Bachelor's of Engineering degree from Hofstra University in the spring 2019. The civil engineering major, with a math minor, is the recipient of the Hofstra University Presidential Scholarship and a member of the university's Honors College. He is also on the Dean's List (2015-2017) and has an overall GPA of 3.78. Tom, a Long Island resident, said, "Ever since childhood I was fascinated with the way in which the world worked." Within close proximity to the city, he and his family visited frequently, and the "incredible marvels of engineering" expressed through the massive skyscrapers on every block quickly captivated him. From that point on, he was hooked.

Entering Hofstra University, Tom chose civil engineering as a major. "It is what I had wanted to do my whole life—build beautiful structures that would help shape modern engineering." He said he realized "early on in my college career that my ideal job placement would be a position where I would have a balance between the design and construction aspects of civil engineering."

Tom loves working with numbers and applying mathematics and physics to real world situations. He also loves hands-on work, visiting job sites and helping these structures grow from the ground up. His goals are to secure a position in a company with growth potential, completing his Master's degree, and obtaining his professional engineering credentials. "I want to create structures that serve purpose. I want to—above all else—create safe structures that are aesthetically pleasing. By doing so, I will fulfill my lifelong dream from when I was a little boy walking the streets of Manhattan, and I will love to go to work every day."

JARRETT POLINAR

\$2,000 Concrete Industry Board Scholarship

Jarrett Poliner is a member of Columbia University's Class of 2019. In May 2019, he expects to receive his degree, a B.S. in engineering mechanics, a minor in applied mathematics, civil engineering, and East Asian Studies.

"I have been privileged to grow up with an opportunity to pursue my interests in both the arts and sciences," he said. Early on in his academic career, mathematics became "his strong suit," and he said he enjoyed its challenges, purity, and exactitude. Combined with his love for math is a passion for the arts, particularly drawing. He said the combined passions are what initially guided him to structural engineering, "a field where one's job is defined by an ability to solve problems and where careers are built on doing so in ways that are both functionally sound and aesthetically pleasing."

Despite its vital importance, Jarrett looks on structural engineering as "one of the most overlooked fields of engineering. While it provides society's necessities for shelter, passage and security, the general public often takes it for granted." He believes the reason is simple: the success of the structural engineer "fosters a complacency in the mind of the public when it comes to safety." Due to the discipline's overwhelming success, he says, the results are self-evident "in the confidence one can feel walking around the top of a hundred-story building with all the comfort and security one has walking across the lobby." Jarrett chose to pursue a career in structural engineering "because I want to create structures that are both functionally sound and aesthetically pleasing while able to stand the test of time. To pose a solution to one of the many problems structural engineers face is not only brilliant, it is a work of art."

For the past three years, Jarrett has been a member of Columbia University's NCAA Division 1 Varsity Men's Fencing Team. The team won the NCAA National Championship in 2016 and has been the Ivy League Team Champion the past three years.

CHRISTOPHER JOSEPH RILEY

\$2,000 Dominick & Josephine DeSimone Scholarship

Christopher Joseph Riley, a senior at the New Jersey Institute of Technology, expects to graduate from NJIT with a Bachelor's degree in civil engineering this summer. The young man of several skills previously was a student at County College of Morris where he obtained an Associate's degree in finance and served as the starting third baseman for the school baseball team.

Since 2015 he has been employed as an intern with Stonefield Engineering and Design, LLC, a civil engineering firm. He has been exposed to the firm's traffic and site development departments, where he has been learning many skills in site development. Like a good third basemen, he covers a lot of ground. He tells us: "During my time as an undergrad, I was able to enroll in and be accepted into the BSMS program and take two graduate courses."

He reports that working in this field requires a strong understanding of the ACI 318 concrete building codes. "I look forward to working directly in the field; learning about the process in which concrete structures are built particularly peaks my interest." He said working directly on a construction site rather than working in an office setting is one of the many reasons he chose to pursue a career in civil engineering. "As a construction manager, I will need to have a good understanding of the behavior of concrete in order to plan a project appropriately," he said. He already has a good foundation, having received an A in reinforced concrete design as an NJIT undergrad.

His career goals include to continuing his education at NJIT and obtaining a Master's degree in civil engineering, with a focus on construction management. He plans to enroll in graduate courses this fall.

Your donations to the scholarship program and support of the CIF
make these scholarships and grants possible. Thank You!

RACHEL SHANNON

\$2,000 Gustav Erlemann Scholarship

Rachel Shannon expects to graduate in May 2019 with a Bachelor's of Architecture degree from the Bernard and Anne Spitzer School of Architecture at City College of New York. Of her planned future career Rachel said that designers—specifically architects—have the ability to shape the way a person lives, navigates, and experiences the world.

“Architects do not work alone,” she said, “and it is this collaboration between architects, construction professionals, engineers, and many other specialists that achieves the goal of a completed project.”

Rachel already has some valuable hands-on experience, most recently as a freelance CAD designer for Greenwich, CT-based Lehman Designs. She works closely with the firm's principal to realize the technical aspects of residential design, including specific plans, sections, and details for residential architecture. Before that, she gained experience working on a school project for a Long Island City-based library—the same site that a library is being built by Steven Hill Architects. Rachel said she drew inspiration from the site, a waterfront area in which concrete seems to be a natural fit—considering it is in a flood zone area.

“I am especially proud of my projects using concrete. It is nearly impossible to build—or even plan—a structure without it. My favorite projects are those where concrete becomes the language of the structure.” She said, “I am fortunate to have the opportunity to fulfill my longtime dream of becoming an architect.”



RACHEL SHANNON

NICOLAS SOSA

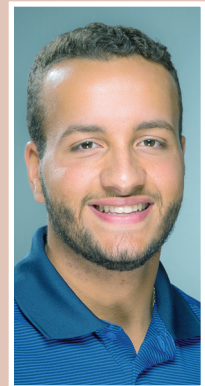
\$2,000 Joseph DePaola Scholarship

Nicolas Sosa, in his junior year as an engineering student at Quinnipiac University, in Hamden, CT, expects to graduate in May 2019 with a Bachelor's of Science degree in civil engineering. Last summer, he had an internship as a project manager with Gilbane Building Company on the New York Presbyterian Children's Hospital in New York City.

In his scholarship application essay, Nicolas wrote, “Throughout the years, people have definitely changed the way they choose the career they do. With so many new advancements in engineering and technology, there has been a rise in demand for civil engineers.” He said is extremely interested bridge design and development. “Coming into college, I knew that I wanted my career to involve engineering and specifically, civil engineering.”

Nicolas' goal is “to one day create and innovate an idea to make a great impact on the world. Engineering was a great way to open myself up to thinking about many different ways to make a great impact. Civil engineering focuses on infrastructure and the environment (and) as infrastructure continues to age civil engineers will be needed to rebuild.”

He said taking classes at Quinnipiac not only made him more engaged in civil engineering, but developed within him a passion for design and development of engineering projects. He cites the Mechanics of Materials class for truly developing his capability of analysis of bridges and beams. The class required students to develop many ways to make a structure work to its full capacity. Having this knowledge, he believes, will enhance his goal of creating an idea to make a structure or a material work to its full capacity and be long lasting. Nicolas avows, “I still have a lot more to learn, and learning more will only help the cause of trying to innovate great ideas in the near future.”



NICOLAS SOSA

SALMAN ZAFAR

\$2,000 Abraham Gutman Scholarship

In his own words, Salman Zafar considers himself “a fairly ambitious individual and someone who does not wish to be merely a standard engineer. I am aiming for bigger heights, tackling large projects, designing complex structures, completely and utterly understanding every single relevant component and how they behave via engineering analyses, whether separately or as part of a single structural unit.”

Salman said “a Bachelor's of engineering alone is not sufficient. Higher learning needs to be sought after, which I am actively working towards. Nowadays, a Master's degree is the step forward to a good successful career.” He attended the City College of New York from the fall 2011 to fall 2015, routinely taking five demanding engineering courses per semester while also serving in active clubs and organizations, contributing time and effort to build and cast the concrete canoe used for successful competitions and serving one year as CCNY Chi Epsilon chapter vice president.

In addition, he interned for 20 to 30 hours weekly at a start-up New York City-based structural engineering firm, KCE Consulting Engineers, PLLC, where he is now employed full time. He also worked for eight months as project engineer in the New York City Department of Design & Construction's Infrastructure Division. He received his Bachelor's of engineering, in civil engineering, from City College in 2016. Now he is on track to graduate from City College in January 2020 with a M.E—a Professional Master's degree in civil engineering.

He said he has a fervent desire “to expand my engineering knowledge, delving into theoretical affairs, and advancing from the fundamentals and into more advanced territory.”



SALMAN ZAFAR

\$3,000 DONATION TO THE URBAN ASSEMBLY

The Concrete Industry Foundation is once again pleased to donate \$3,000 to The Urban Assembly. Founded in 1990 to address a wide range of poverty issues in the US and the developing world, The Urban Assembly has since opened more than 20 schools, sponsored promising programs, and partnered with hundreds of public, private and non-profit sector partners—such as the Concrete Industry Foundation—to increase educational opportunities and close the achievement gap for thousands of low-income youth in New York City. For information: <https://urbanassembly.org/schools>.

\$2,000 GRANT TO CARPENTERS APPRENTICE/ TRAINING

The Concrete Industry Foundation has donated a \$2,000 grant in memory of Christopher Sayers to the Carpenters Union Apprentice/Training Program (See article on page 27).

★ ★ ★ ★ NEW YORK CITY & VICINITY DISTRICT COUNCIL OF CARPENTERS ★ ★ ★ ★

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Instituted August 12, 1881

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Vice President

Congratulations to the Concrete Industry Foundation's 2018 Honorees:

The Humanitarian Fellow Award

Thomas Costigan
Owner
Cross Country Construction, LLC

The James Anderson
Distinguished Service Award

Casimir Bognacki, PE, FACI
Chief of Materials Engineering
Port Authority of New York & New Jersey

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Christopher Sayers Didn't Come Home that Day

October 5, 2017, began as a typical day. Veteran carpenter Christopher N. Sayers, 37, a Long Island resident, had arrived early—as usual—at the jobsite, 645 West 59th St., between 11th and 12th Avenues. He had joined Local 12 (formerly known as Local 608, then Local 157) in January, 2002. He had spent the majority of his tenure as a carpenter foreman with Sorbara Construction Corp., one of the most highly regarded concrete superstructure firms in New York City.

Christopher was carpenter foreman on this job, Waterline Square, part of a \$2.3-billion three-tower development. It stretches from West 59th to West 61st Streets and from Riverside Boulevard to Freedom Place (Ironically, it is visible from the New York Athletic Club's upper floors).

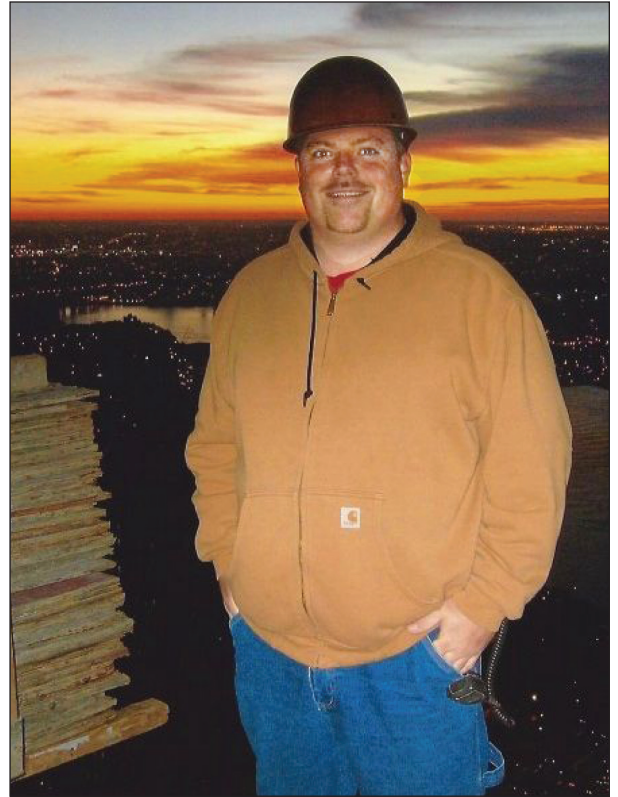
No, this was not to be a typical day on the job. A little after 7 a.m., gunshots rang out on the building's 37th floor. And just like that, at 7:10 am, Christopher Sayers was dead.

An hour or so later, the shooting suspect was found dead by suicide—a gunshot to the head. He was identified as Samuel Perry. A spokesperson at Sorbara later confirmed to newspaper reporters that Chris had dismissed Perry a day or so earlier.

The media covering the tragedy interviewed co-workers of Chris Sayers. One described him as “a quiet guy . . . he comes in the morning really early, drinks his coffee, smokes his cigarette. And then he goes about his business. He never gave nobody a hard time. Never.” Another called Chris an “amazing guy. He taught me so much. This is just so shocking, and it hurts.”

A Carpenters Union spokesman said, “Chris was honored to represent the Sorbara Construction Corporation family and proud of his association with the New York City District Council of Carpenters.”

Learning of the tragedy, the Concrete Industry Foundation's officers and directors voted unanimously to donate a check in the amount of \$2,000 to the Carpenters Union Apprentice/Training program in memory of Chris. Our thoughts and prayers go out to the family.



**CIF makes \$2,000 donation
to Carpenters Union
in memory of Chris Sayers,
whose life was ended
way too soon**

Nominations due by May 25 for Concrete Industry Board's 2018 Quality Concrete Awards

Nominations are due by May 25 for The Concrete Industry Board's 2018 awards recognizing quality concrete construction.

The the 56th Annual Roger H. Corbetta Awards for Quality will be presented on Nov. 7 at the Marina del Rey in The Bronx.

This program is named in honor of Roger Corbetta, a

founder of the Concrete Industry Board and its first president, from 1951 to 1956. He was one of the nation's leading contracting figures.

See event announcement on page 35. For additional information on the event or about advertising in the Concrete Industry Board's awards journal, contact the CIB at (718) 459-4900 or by email at cibnyc@earthlink.net.

Sciame is pleased to join The Concrete Industry Foundation
in recognizing the 2018 Honorees:

Casimir Bognacki, PE, FACI

The James Anderson
Distinguished Service Award

Thomas Costigan

The Humanitarian Fellow Award

The “Class of 2018”
Scholarship Winners



Roy and Diana Vagelos Education Center – Columbia University Medical Center
Design Architect: Diller Scofidio + Renfro | Executive Architect: Gensler

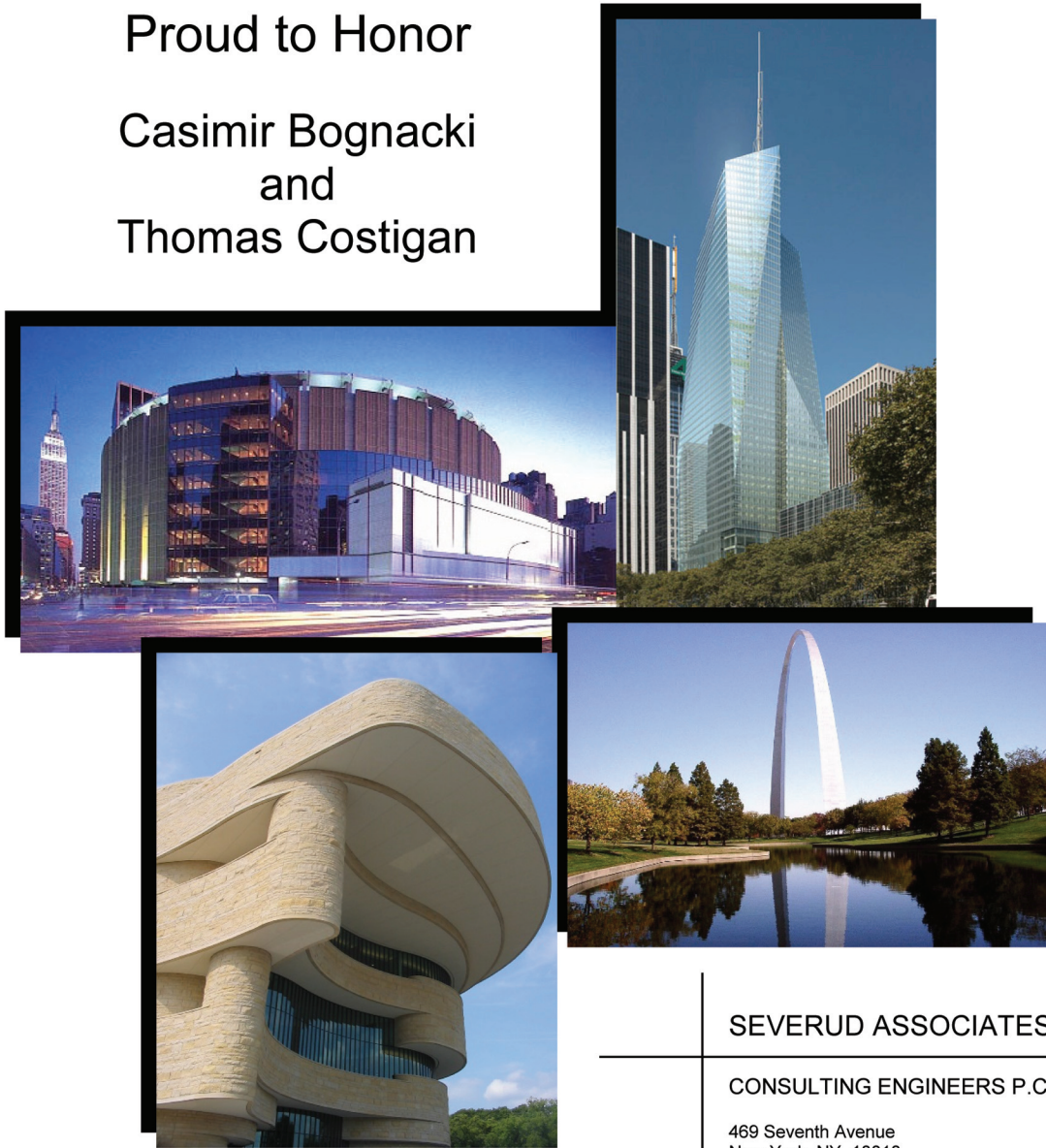
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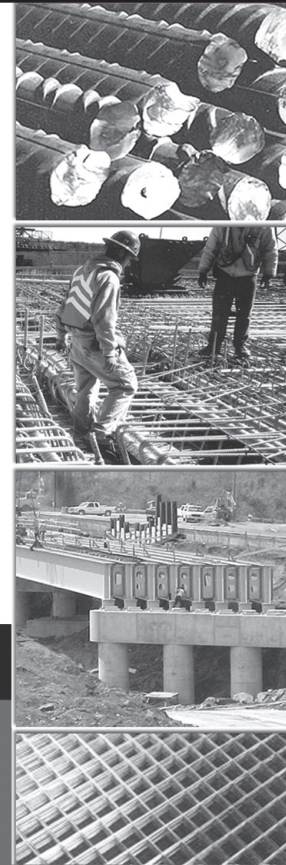
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CFS & Re-Steel congratulate Tommy Costigan and other honorees for this prestigious award!

*All best wishes to the
Concrete Industry Foundation
and to its 2018 Honorees
from Kreisler Borg Florman
General Construction Company, 1955 - 2015*

*It was a grand 60 years with many good
people in a vibrant industry.*

*— Sam Florman
and in memory of Bob Borg and Joe Zelazny*

Lee J. Principe Intern Program Update

Foundation's Internship Program is a Win-Win for Everyone



**LEE J.
PRINCIPE**

The Concrete Industry Foundation's internship program was launched in the early 1990s under the leadership of the late Lee J. Principe, whose name the program honors. Its purpose was, and continues to be: "To educate future generations of young men and women to have the knowledge, ability, and expertise necessary to keep our industry moving forward."

Several firms whose leadership was reflected on the CIF Board embraced this and similar programs. They were The Port Authority of New York and New Jersey, DeSimone Consulting Engineers, Future Tech Consultants, and Engineered Devices Corp. At their own expense, each implemented its own intern program to expose young men and women to our industry. The majority of them were students in one of the metropolitan area's engineering and architectural schools. Surveys of these participating firms indicated positive results on all fronts.

Casimir "Cas" Bognacki, now retired as is chief of the Materials & Research Division at The Port Authority of New York & New Jersey, reported that the program "gave the students the chance to take a good look at us, close up. It also provides us to get to know some very talented young people."

DeSimone Consulting Engineers has supported an engineering intern program for many years because, as its late founder and chairman, Vincent J. DeSimone, had said, "It is just good business. It is very difficult these days to get good engineers. This is not a selfless act on our part. Ultimately we will get one or two of these interns who will come back to join us after they get their degree."

He added, "After all, from their viewpoint they know who the top guys are in the firm who have worked with them while they were interns. The end result is that we end up with really top-notch producers. It works both ways. It gives these young interns an opportunity for an office experience, and it gives us the opportunity to see if an individual's future and potential is with our firm."

CIF Treasurer Stephen S. Marchese, P.E., a founding partner and president of Future Tech Consultants (FTC) of New York, Inc., said FTC's intern program "encourages a college youngster who wants to come and work a little bit—to get his or her feet wet in our field of expertise—to do so. Our philosophy is to bring them in, let them see what the engineering profession is like and, if they like it, encourage and nurture their interest. Former interns who worked summer at FTC have eventually become full time FTC employees.

Engineered Devices Corp. (EDC) also has an active internship program. In 2012, EDC hired two interns, and they both are still with EDC, having cleared the hurdles of their FE exams—the engineers-in-training program—and now awaiting their P.E exams. In addition, EDC has four summer interns returning this year. All are in various stages of their engineering educations at area colleges. EDC Chief Engineer Rick Puswald oversees EDC Intern Program.

Watch for progress reports on the CIF website or email admin@concreteindustryfoundation.org.



160 Leroy Street, New York, NY

Congratulations to this year's honorees!

Proud to support Concrete Industry Foundation and the **tremendous work** you do for our industry.

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Congratulations to the 2018 Honorees!

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Tribute To Irwin Cantor

‘One Engineer’

Irwin Cantor, 90, who passed away last November, had devoted a lifetime to the pursuit of design excellence and was always a tribute to his alma mater, College of the City of New York, where, in 1951, he earned his Bachelor’s degree in civil engineering.

He was the founder of the office of Irwin Cantor and its CEO from 1971 to 1992. Since 1993, he was a member of the New York City Planning Commission.

Irwin was the epitome of wisdom wit and tons of grit. He was a legend in our industry and a man of honor, duty, integrity and whose vision was beyond all expectations. He was from old school roots from Queens, New York, and he had “CHUTZPAH.”

His legacy? It is very difficult to get your arms around all of it because he was a multi-faceted person with unmatched vision for our industry. His memory will remain for eternity.

He was associated with numerous award-winning structures. Among them: The Helmsley Palace—the first building in New York City to utilize high-strength concrete, Trump Tower, the “Lipstick Building”, and the Rockefeller Research Facility spanning the FDR drive.

Awards relative to his accomplishments for his exceptional ability in structural engineering were as follows: Maurice Van Buren award for structural engineering from the American Concrete Institute. The Homer Gage Balcolm award from the American Society of Civil Engineers.

Industry Awards were abundant: The Humanitarian Fellow Medal from the Concrete Industry Foundation in 2012, The Concrete Industry Board Leader of Industry Award in 1987, The Engineering News Record Legacy Award in 2017 . . . and many others.

His close friend and business associate, Charles DeBenedittis, executive vice president with Tishman Speyer in New York. gave Irwin his first commission for a high-rise building in New York City—919 Third Avenue. Irwin was a consultant for Tishman Speyer for many years, and Charles and Irwin were a great team, with the pulse of New York City in the palms of their hands.

Irwin’s tenacity and perseverance were unmatched. His legacy will live on through visionaries in our Industry. On Nov. 7, 2017 we lost a giant in our industry.

Rest in Peace, my friend. You will be missed.

Thank you to Carmine Attanasio, Concrete Industry Foundation chairman, and the territory manager for Elementia / Keystone Cement Company, for this tribute.

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2018 Honorees:

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Casimir "Cas" Bognacki
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Project nominations still being accepted until May 25, 2018
Visit www.cibofnyc.org for information and entry form

'Soft Mud Hard Beauty': An important new book by Reginald Hough

Concrete Industry Foundation (CIF) director Reginald Hough, who was honored in last year's annual awards program with its James Anderson Distinguished Service Award, is at long last writing a book about what he knows best: Architectural Concrete.

No, It is *not* a how-to manual or textbook but a lively personal record of the significant technical advances that have made the industry what it is today. After a brief overview of concrete through the ages, Reg concentrates on more recent developments, beginning in the early 1960s when he first became involved in concrete and helped to develop it as a fine-finish sculptural alternative to curtainwall and other factory-produced claddings.

With an inside view of conditions during the past half-century, "*Soft Mud Hard Beauty*" takes us back to the raw beginnings of architectural concrete, before the introduction of admixtures, patented forming systems, or placement with concrete pumps. Using only basic information for producing structural concrete, Reg developed many of the guidelines and methodologies that are today's standards for smooth and textured finishes for concrete (including his own patented crack control device and other innovative procedures that have become industry standards).

The book continues up to the present day, highlighting major breakthroughs and changing attitudes along the way. Of particular note is the diplomatic role Reg has played during his six-decade long career: As both an architect and an engineer, as well as an independent technical consultant, he has been singularly successful in mediating architect-contractor relationships to achieve top-quality results.

Reg has championed "construction-oriented design" (meaning that, from the very beginning, architects designing with concrete need to understand concrete construction and its special requirements, including the relative difficulty of assembling and disassembling formwork, concrete placement,



Reg Hough and his collaborating editor, Janet Adams Strong, consider some ideas.

the need for mock-ups, carefully reviewed shop drawings, and exacting specifications). Equally important is "design-oriented construction," which is to say that contractors also need to appreciate the architect's design goals in order to achieve the desired results.

"*Soft Mud Hard Beauty*" features dozens of key buildings by important architects around the world but the *real* focus is the essential link between design and execution.

A recurring theme throughout is recognition of those who make great architecture possible but who are typically omitted from a building's credits: Reg, to be sure, but also those responsible for formwork, color additives, integral admixtures, cement and concrete suppliers, and all of the contractors who have the pride and skill to take the extra steps required for top quality results. "This is the secret to great architecture," Reg says.

Guest essays by industry leaders round out the narrative and underline the great many people and areas of expertise required for the production and proper maintenance

The real focus of the book is the essential link between design and quality execution



of architectural concrete.

In addition, a technical section separately examines such key issues as Formwork, Color and Color Consistency, Treatment of Hardened Concrete, Remedial Repairs, and more. A glossary of terms will make the text accessible to readers new to the world of concrete.

The full-color book is richly illustrated with finished photography, construction photos, diagrams, and many of the drawings that Reg made over the years to illustrate construction details.

The depth and scope of *Soft Mud Hard Beauty* will be like no other book, a serious contribution to the history of concrete in the

Continued on page 39



Research & Development Project



Research Update: Thermal Characterization of the Mechanical Properties of High-Strength Rebar

*Spencer Quiel, Ph.D., P.E. and Clay Naito, Ph.D., P.E.
Department of Civil and Environmental Engineering, Lehigh University*

OVERVIEW

With the ongoing development of high-strength rebar for concrete reinforcement, Lehigh University is conducting a study to characterize the thermal properties of sample bar types at elevated temperatures. The first phase will examine the effect of elevated temperatures on the constitutive properties of the bars in air. The test program is approximately 40% completed to date, and all tests will be completed by July 31, 2018.

The study is considering two types of rebar: ASTM A615 (Grade 60, 75, and 100) and ASTM A706 (Grade 60 and 80). The study will experimentally develop temperature deterioration curves for yield and tensile strength as well as stiffness that can be utilized to assess cover requirements to achieve various levels of fire resistance. The study will focus primarily on No. 8 rebar in its current phase but will be expanded in later phases to examine No. 5 and 11 bars for the effects of size. The experimental testing is currently being conducted by a masters-level graduate student researcher under the supervision of the research team faculty.

The project meets a research need that has been stated in two major roadmap documents for the increased implementation of high-strength rebar in reinforced concrete design. The experimental test program utilizes an existing equipment setup at Lehigh University that is readily available for use in this project.

IMPACT AND SIGNIFICANCE

The reinforced concrete industry has recently undertaken significant efforts to increase the strength of commonly used reinforcement from grade 60 to grades 75, 80, 100. To bring high strength reinforcement to standard design practice, a significant number of research efforts are needed to investigate the resulting changes in the design standards. Fire resistance of reinforced concrete elements that utilize high-strength rebar has been identified as a task in two major documents that were commissioned to address these research needs:

- ATC-115: Roadmap for the Use of High-Strength Reinforcement in Reinforced Concrete Design
Section 3.4.7 – Research is needed to “determine how higher strength reinforcement encased in concrete is affected by fire.”
- NIST-GCR 14-917-30: Use of High-Strength Reinforcement in Earthquake-Resistant Concrete Structures
Section 8.1.2 – Research is needed to determine “concrete cover requirements and the influence of concrete cover on the strength of members containing high-strength reinforcement when they are subjected to fires.”

Data regarding the deterioration of standard grade rebar at elevated temperature is readily available and has been compiled in design references (ACI, 2014; CEN, 2004). Previous research efforts around the world on structural steel and steel wire strand have established that higher strength steel grades will generally experience a more severe decrease in strength and stiffness than conventional grades when subjected to elevated temperature.

To date, however, little data is available regarding the deterioration of current grades of high-strength rebar at elevated temperature, especially in the US. Some of the few studies that have contributed data in this area include research efforts in Japan (Aoyama, 2001) and Turkey (Topçu and Karakurt, 2008), which have confirmed that temperature-induced deterioration of rebar material properties will be more severe for rebar grades with higher strength. These studies have focused on locally available rebar types, and therefore a study focused on common US grades

Continued on next page

Research & Development Project



Continued from previous page

of high-strength rebar is warranted.

The results of the current study at Lehigh will be published in a major journal for dissemination and will propose a new stress-strain characterization model for the aforementioned grades of A615 and A706 rebar.

The project will serve as the thesis topic for on masters-level graduate student, who will complete his degree in August 2018. A second graduate student will be recruited to participate in subsequent phases, which will utilize the data obtained in the current study to examine the fire resistance of reinforced concrete elements which utilize high strength reinforcement.

PROGRESS UPDATE

Tensile tests at steady-state temperature and increasing stress are being performed to obtain stress-strain relationships for rebar with ASTM A615 (Grade 60, 75, and 100) and ASTM A706 (Grade 60 and 80). The team is using a compact furnace that is used in conjunction with a universal testing machine at the ATLSS Research Center (Figure 1). The system allows for axial loads of up to 600 kips with force or displacement control at elevated temperature ranges from 300°F to 2000°F. The system records axial load and deformations internal and external to the furnace. This facilitates full stress strain characterization of the material as illustrated in Figure 1.

The specimens will be tested at approximately 6-foot clear lengths between the heads of the tensile testing, with 18 inches along the center of that length passing through a split-tube furnace. At the beginning of each test, the specimen will be nominally loaded in tension at ambient temperature and then heated slowly to the selected constant temperature. The specimen is then “soaked” at the target temperature for at least 45 minutes to ensure that the specimen is uniformly heated through its cross-section. The specimen is subsequently loaded to failure at a constant strain rate.

For example, testing has been completed thus far for all three grades of A615 at both ambient conditions and at target temperatures ranging from 950°F to 1350°F. The corresponding plot of ultimate strength reduction as a percentage of ambient strength in Figure 1 indicates that, as expected, the 100-ksi rebar generally experiences a



greater reduction of strength than the other lower strength grades at similar temperatures. A full characterization of the material properties at elevated temperature for each grade of A615 as well as A706 will be produced at the conclusion of this project phase.

ACKNOWLEDGEMENTS

Funding to support this project has been provided jointly by the Pennsylvania Infrastructure Technology Alliance (www.pita.org) and a Collaborative Research Opportunity (CORE) Grant from Lehigh University. The Lehigh graduate student working on this project has been provided a tuition scholarship by Lehigh University in support of his graduate studies. Gerda Long Steel Sayreville has generously donated all of the rebar, in the amount of \$3,490, which has been used as test specimens in this project’s experimental program. Additional support from the Concrete Reinforcing Steel Institute (CRSI) and the Concrete Industry Foundation (CIF) is gratefully acknowledged.

REFERENCES

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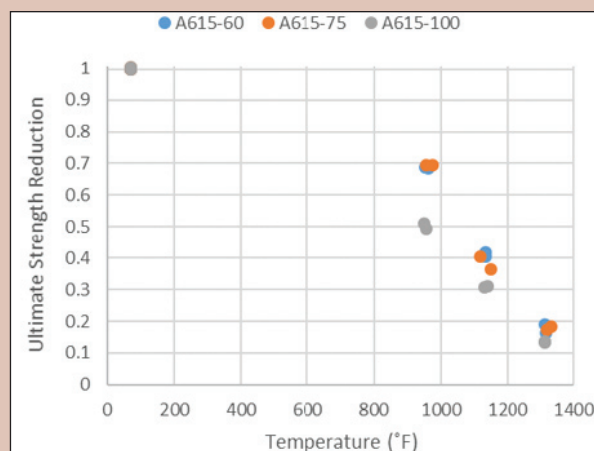


Figure 1: Thermal testing setup and sample results

AN IMPORTANT NEW BOOK

Continued from page 36

United States and a much-needed missing link in the more architect-focused literature of modern buildings.

Assisting Reg on the book as collaborating editor is Janet Adams Strong, Ph.D., a New York-based architectural historian. Dr. Strong worked with Reg for many years in the office of I.M. Pei & Partners.

For Reg Hough, his book is truly a

labor of love. He is contributing his written memoirs of more than five decades in the industry free of charge.

But the business of transporting an author's memories and placing them inside a handsomely bound and illustrated book takes money. Therefore, a fund has been specifically established to pay for the book's editing, photography, production, and promotion.

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Our list of 2018 Donors and Sponsors was incomplete as of press time but will be recognized at the dinner and in the 2019 CIF Awards Journal / 2017 Donors and Sponsors listed on Page 6.

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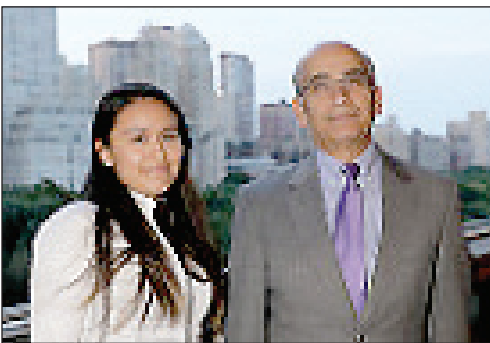
Congratulations
Thomas Costigan and Casimir Bognacki

*Best of Luck to the
Class of 2018
Scholarship Winners*





A Look Back at Last year's CIF Awards Dinner



*Photos by Robert C. Gill Jr.
More photos can be found on
concreteindustryfoundation.org*





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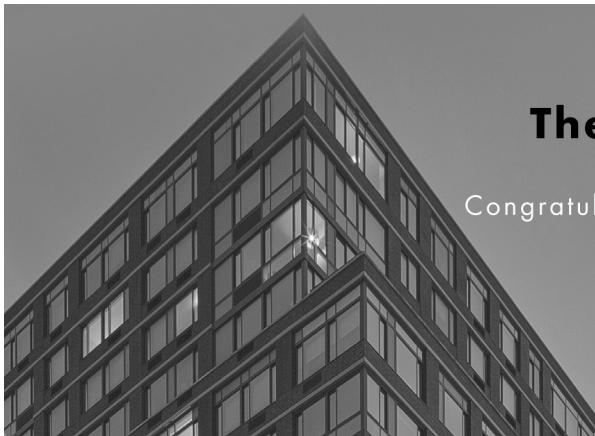


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CIF Scholars 2003-2017

Where Are They Now?

Here is a list of 2003-2017 recipients of Concrete Industry Foundation's scholarships and grants, along with their colleges and universities at the time of the award. Some include graduation year and/or degrees. We invite you to review the list and let us know "Where Are They Now?" Our plan is to feature these past scholarship recipients, tracking their progress in our industry, in later journals. Please email the information to Concrete Industry Foundation Journal publisher Tom Hogarty at: tomahogarty@gmail.com.

2017

Safreen Akbar, New York City College of Technology
 Tal Azulay, City College of New York
 Zoya Susan Benyaminov, New York University
 Tandon School of Engineering
 Valeska Flores, Manhattan College
 Lee Andre Fuqua, Columbia University
 Gabriel Garcia, New Jersey Institute of Technology
 Christopher D. Reynolds, Quinnipiac University
 Emily R. Root, Hofstra University
 Nidhi Shah, Stevens Institute of Technology
 Evan Shirley, Cooper Union
 Anthony Toma, City College of New York

2016

Joanna Bueno, New York City College of Technology
 Sarah Chamberlain, Stevens Institute of Technology
 Felipe Demelo, Manhattan College
 Nathaniel Evelkin, NYU Tandon School of Engineering
 Jenny Hsiao, Cooper Union
 Eric Iversen, City College of New York
 Richard J Kolodziej, New Jersey Institute of Tech.
 Anthony Pensiero, Columbia University's School
 of Engineering and Applied Sciences
 Pakman Wong, the City College of New York

2015

Devin Berniz, New Jersey Institute of Technology
 Percy Casani, City College of the City University of NY
 Cassandra Egstrom, Cooper Union
 Ryan Neumann, Manhattan College
 Vasilios C Patazis, Stevens Institute of Technology
 Jumari Robinson, Columbia University's School of
 Engineering and Applied Science
 Michael Sokolovsky, Polytechnic Institute
 of New York University
 Sandra M. Torres, New York City Technical College

2014

James Farkas, New Jersey Institute of Technology's
 Albert Dorman Honor College
 Tyler Froelich, Cooper Union
 Tenzin Getso, City College of New York
 Christine Hecker, Stevens Institute of Technology
 Daniel Hussey, Manhattan College
 Lester Li, Bernard and Anne Spitzer School
 of Architecture at City College of New York
 Khalil Rouchdy, Manhattan College
 Joy Tennenbaum, Univ. of Maryland and Pratt Institute
 Hanna Wilson, Columbia University

2013

Mahmoud Abdeldayem, Polytechnic Institute of New
 York University
 Jaclyn Fu, Columbia University
 Yineng Liang, New York City Technical College
 Masiel Melo, Manhattan College
 Pedro Santos, New Jersey Institute of Technology Yoon
 Jeong Shin, Cooper Union
 Katlin Walling, Stevens Institute of Technology
 Jun Yan, City College of New York

2012

James Farkas, New Jersey Institute of Technology
 Tyler Froelich, Cooper Union
 Tenzin Getso, City College of New York
 Christine Hecker, Stevens Institute of Technology
 Daniel Hussey, Manhattan College
 Lester Li, City College of New York
 Khalil Rouchdy, Manhattan College
 Joy Tennenbaum, NYU Polytechnic School
 of Engineering
 Hannah Wilson, Columbia University

2011

Alexius Tan, Polytechnic Institute of NYU
 Collin Anderson, Columbia University
 Jillian Price, Stevens Institute of Technology
 Joseph Liberta, NYC College of Technology
 Nicholas Cusumano, Manhattan College
 Lauren Woods, Loyola University
 Robert Higham, New Jersey Institute of Technology
 Rolando Vega, Cooper Union
 Soufiane Nezili, City College of New York
 Grant: United Cement Masons Local 780

2010

Veronica Ng, Columbia University, Harvard
 Business School
 Yelena Alexandra Niznik, City College of New York
 Jimmy Pan, Cooper Union
 Garichel Sosa, NYU/Polytechnic Institute
 Sabrina Dzaferovic, Manhattan College
 Tai T Liu, New Jersey Institute of Technology
 Anna Gentoga, Stevens Institute of Technology
 Christine Tawil, New York City College of Technology
 William C. Lyons, SUNY Albany
 Grant: Metallic Lathers Union, Local 46

2009

Jason Roberts, Columbia University, Master's
 of Architecture, 2012
 Monica Friday, Columbia University, Master's of
 Science in Advanced Architectural Design, 2010
 Lauren Ehrlich, Columbia University, Master's
 of Science in Civil Engineering, 2010
 Philip Cassata, Columbia University, Master's of
 Science in Construction Engineering Management
 Stephen Prusaczyk, University of Connecticut, Master's
 of Science in Civil Engineering, 2011
 Lindsay Hodge, New York City College of Technology,
 Associate's in Civil Engineering Tech, 2010
 Amanda Fritz, Syracuse University, Master's of
 Architecture, 2012
 Deborah Ferrer, Cooper Union, Bachelor's
 of Architecture, 2011
 Steven Santander, New Jersey Institute of Technology,
 Bachelor's of Architecture, 2011
 Ryan Conover, Philadelphia University, Bachelor's
 of Architecture, 2010
 Patrick Mawhinney, Penn State University, Bachelor's
 of Architecture, 2011
 De Gao, Polytechnic Institute of New York University,
 Bachelor's of Science in Civil Engineering, 2010
 Kara Gallo, Penn State University, Bachelor's of
 Science in Civil Engineering, 2011
 Joel Marte, New York University/Stevens Institute of
 Technology, Bachelor's of Science/Bachelor's
 of Engineering, 2011
 The Raymond Heun Scholarship for Members of the
 Cement League to Joseph Santore, Cooper
 Union, Bachelor of Engineering, 2011
 Grant: The Cement and Concrete Workers Training
 Program, Matthew Furey, Stony Brook Univ.

2008

Dennis Lowenwirth, Manhattan College: Bachelor's
 of Science in Civil Engineering, 2009
 Anthony Tomaselli, Manhattan College: Bachelor's
 of Science in Civil Engineering, 2009
 Trevor William Currie, Stevens Institute of Technology,
 Bachelor's of Civil Engineering, 2009
 David Berger, Cooper Union: BE in Civil
 Engineering, 2009
 Edward J Smith III, SUNY Buffalo: Bachelor's

of Civil Engineering, 2010

Raymond Heun Scholarship for members of the Cement
 League: Christina Moore, Wagner College
 Grant: NYC District Council of Carpenters Training
 Program, Jacqueline Lyons, SUNY New Paltz

2007

Scott S. Rhodehamel, SUNY Buffalo: Master's
 of Architecture, 2008
 Craig Thomas, University of Connecticut: BSE Civil
 Engineering, December 2007
 Xiaojun Wang, City University of NY: PhD, Civil
 Engineering, September 2008
 Haleh Mousavi, SUNY Buffalo: Master's of
 Architecture/MBA May 2008
 Qian (Amanda) Li, Penn State: Bachelor's of
 Architecture, 2009
 Grant: Metallic Lathers Union Apprentice Program
 Local 46, Lynn Karlsen, Dowling College, 2009

2006

Nubia Castano, NYC College of Technology,
 Associate's in Construction Management
 Jacquelyn Patricia Tookmanian, Manhattan College,
 Bachelor's of Science in Civil Engineering
 Michael Shields, Columbia University, Bachelor's of
 Science and Master's in Civil Engineering &
 Physics, 2006
 Kirk Stauffer, Penn State University, Bachelor's of
 Architectural Engineering
 Michelle Benoit, Penn State University, Bachelor's &
 Master's of Architectural Engineering
 Elisa Lui, Yale University School of Architecture,
 Master's of Architecture
 Grant: Cement and Concrete Workers District Council
 Scholarship Fund

2005

Gabriel Giles, Columbia University: Bachelor's and
 Master's in Civil Engineering
 Barbara Miller, NYC College of Tech: Bachelor's of
 Technology in Facilities Management
 Mark Sheeran, Manhattan College, Bachelor's
 of Science in Civil Engineering candidate
 Andrew Heid, Princeton University, Masters
 of Architecture
 Thomas Sherman, Syracuse University, Bachelor's
 of Architecture
 Elisa Lui, Yale University, Master's of Architecture
 CIB Member Scholarship: Craig Worboys
 Grant: The Masons' apprentice program

2004

Mike Mota, Drexel University, PhD candidate,
 Susan Bowers, Lafayette College, BSCE candidate
 Andrew Matthews, Villanova University, BSCE
 candidate
 Jason Anderson, Princeton University, Master's
 of Architecture candidate
 CIB Member Scholarship: Rory Derderian,
 Providence College
 Grant: The Carpenter's Union Apprentice Program

2003

Salvatore Peretto, Manhattan College
 Tiana Rabarijaona, City College of New York
 Ewelina Mazur, NYC College of Technology
 CIB Member Scholarship: Danielle Bognacki,
 Fordham University
 Grant: NYC District Council of Carpenters Labor
 Technical College

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