



 **aci** Foundation
Knowledge to Practice

19

**Annual
Report**



The ACI Foundation promotes progress, innovation, and collaboration in the concrete industry through strategic investments in research, scholarships, and ideas.

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We believe in advancing the world through innovative concrete solutions.

From the Executive Director

Dear Friends,

When we reflect on 2019, we are struck by the scope of our impact. Looking back over the past months, I can say with great confidence that it has been another year full of advancement. Some of it came from the momentum started in 2018, while other aspects have resulted from a strong strategic focus from staff and our dedicated volunteers and donors. I can proudly say because of you, we are positioned for a thriving future where we will continue to grow and provide major opportunities for students, contribute to top research projects throughout the world and help advance innovation in the industry.

Our Board of Trustees, members of our research, scholarship, and strategic development councils, development committee and staff are the heart and essence of what we do and how we make a difference. ACI Foundation's 2019 program accomplishments show through because of the hard work of our community.

In 2019 the ACI Foundation funded 6 essential research projects, distributed fellowship and scholarship awards to 18 of the best students in the industry to help pay for their schooling which also gave them access to ACI members and mentors through attending ACI Concrete Conventions. Not only is the ACI Foundation impacting research and education, but we committed over \$100,000 towards initiatives that serve new technology and innovation in the concrete industry.

A few program highlights include:

- Became a major co-sponsor to the 2019 Professors Workshop – held at ACI Headquarters
- Opened a brand-new veteran's rebate for ACI Certifications program
- Secured 100% of ACI Board of Directors and ACIF Trustees contributions to the Foundation
- Mailed our second annual appeal that raised over \$40,000
- Procured a new undergraduate scholarship for students in civil engineering or construction management
- Secured renewals of four fellowships and one scholarship
- Conducted our first ever Trustee orientation and Council Chair training
- Held a highly successful inaugural donor appreciation event at the spring ACI Convention

We invite you to keep up to date on that work by staying connected with us year-round. Visit our website, read Knowledge to Practice in Concrete International, check out our e-newsletters and follow us on Facebook, Twitter and LinkedIn. These tools provide the latest news about our efforts, as well as inspiring stories about our awardees and This past year has been one of commitment, engagement, and forward movement. I am grateful to the ACI Foundation staff, our Trustees and our Councils for all that we have accomplished this year. Together we have established an incredibly strong footing for progress and growth.

Thank you for serving our community.



All my best,

Ann Masek
Executive Director
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Thank you,

Michael J. Schneider
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Senior Vice President
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Making an Impact



The ACI Foundation awarded the first-ever ACI Middle East Fellowship to Nancy Kachouh for the 2019-2020 academic year, and she felt honored to be the recipient. “The conventions gave me the opportunity to network with students and influential leaders in the concrete industry,” says Kachouh. “Everyone was very kind, and the ACI Foundation even assigned a mentor. It’s important to know that it’s not just about giving money and letting the students go.”

The ACI Foundation helped with all the travel and details, which is so important for a student.”

Kachouh is highly motivated to serve the design and construction community. “After receiving my bachelor’s degree in mathematics, I decided to continue my studies in civil engineering,” says Kachouh. “My dad was a contractor and worked in the field of engineering in Lebanon. He inspired me, and I love civil engineering firstly because of him. I saw him involved in projects, dealing with engineers, so he transmitted a passion for construction and engineering to me.”

Kachouh’s primary research interest is structural/material engineering with an emphasis on studying the behavior of concrete structures made of sustainable construction materials and the use of sustainable composite-based systems to strengthen concrete structures. Her doctoral research is focused on the use of steel-fiber recycled-aggregate concrete in sustainable construction.

While research is a major focus, service to the student and professional communities are also important to Kachouh. In addition to working toward her PhD, Kachouh has worked with Hilal El-Hassan to organize a new ACI student chapter at the university. “I’m planning for this chapter to be very active and to participate in competitions locally and perhaps internationally with ACI,” says Kachouh.

And she has been active beyond the university setting. The UAE Chapter – ACI invited Kachouh to be a speaker at the Big 5 conference in Dubai, UAE, in November 2019. The Big 5 is the largest exhibition dedicated to the infrastructure and heavy construction industry in the Middle East. Held November 25-28, 2019, at the Dubai World Trade Centre, the event hosted over 68,000 attendees and hundreds of local and international companies showcasing innovative solutions and products. Kachouh spoke on the use of steel fibers in enhancing the performance of concrete made with recycled aggregate.

To read the full story, visit acifoundation.org.

Nearly
\$335,000
granted to
6 research
projects



\$100,000
to innovative
technology



Over
\$185,000
to students

Fundraising



Above and beyond the ACI spend policy contribution of over half a million dollars, the ACI Foundation, along with its volunteers, worked hard in 2019 to gain thousands of dollars in new funds to supplement and sustain growth. The ACI Foundation held their second Fall annual appeal that raised over \$40K. The annual Fall Appeal was a huge success, due in major part by our matching donor, Greater Miami Valley Chapter – ACI, who matched \$20,000!

The ACI Foundation also secured 100% of ACI Board of Directors and ACIF Trustees contributions, grew in online donations, procured new scholarships, and so much more!



Giving in 2019

\$292,945 raised
12% increase in fundraising

Funds Raised for the ACI Foundation in 2019

ACIF General Donations:	\$58,523
ACIF Concrete Research Donations:	\$3,265
ACIF Scholarship Donations:	\$119,206
ACIF SDC Donations:	\$1,700
ACIF Sustaining Fund Donations:	\$60,251
CMEC Veterans Rebate Program:	\$50,000
Total funds raised in 2019:	\$292,945.00

Over the last couple years, Advancing Organizational Excellence (AOE) has donated \$200,000 to the ACI Foundation and \$50K alone in 2019!



AOE’s unique experts provide consulting services to a long list of associations and organizations in the concrete industry. Since we invest our profits back into the markets we serve, supporting the ACIF simply makes sense.

Our donations to the ACIF allow AOE to further our impact, creating a stronger industry for all.

-Kimberly Kayler,

Advancing Organizational Excellence (AOE)

ACI Foundation 2019 Donors

Visionary (\$15,000+):

Advancing Organizational Excellence
American Concrete Institute
Baker Concrete Construction Inc

Carolinas Chapter – ACI
Louisiana Chapter – ACI

Innovator (\$10,000 - \$14,999):

Ron Burg & Jill Humphrey
Jeff & Ayanna Coleman
CVM

Cary Kopczynski
David & Risë Lange

Benefactor (\$5000 - \$9999):

Kimberly Kayler

Scholar (\$1000 - \$4999):

Crimson Engineering Associates, Inc.
Trey Hamilton
Charles & Jennifer Hanskat
Jim Jirsa
William Klorman

Michael & Debra Kreger
Edward Levy Jr.
Jack Moehle
Michael & Paula Paul
Randy & Bonnie Poston

Aleksandra Radlinska
Mike Schneider
Surendra Shah
Michelle Wilson

Advocate (\$500 - \$999):

Scott Anderson
Joe Bracci
Mark Cheek

John Hausfeld
Intermountain Chapter – ACI
Tricia Ladely

Jon Mullarky
Procon Inc.
Bill Rushing

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Dennis Wittry
Ray Zelinski
Paul Zia

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Emmanuel K. Attiogbe, Construction Chemicals
Roger J. Becker, PCI
Claude Bedard, Euclid Admixture Canada, Inc.
Tonya Beesley, Baker Concrete Construction, Inc.
Anahid Behrouzi, CA Polytechnic State University
Richard P. Bohan, Portland Cement Association
Heather J. Brown, Middle Tennessee State University
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Benjamin A. Graybeal, Federal Highway Administration
Charles S. Hanskat, American Shotcrete Association
G. Terry Harris, GCP Applied Technologies
John Hausfeld, Baker Concrete Construction, Inc.



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Michael S. Stenko, Transpo Industries
Mark E. Williams, Walter P. Moore and Associates, Inc.
Dennis Wittry, Walter P. Moore & Associates, Inc.



Education

Graduate and Undergraduate Fellowships

ACI Foundation Student Fellowships are offered to high-potential students in concrete-related studies who are endorsed by an ACI member. The purpose of the Student Fellowship Program is to identify, attract, and develop outstanding professionals for productive careers in the concrete field. Please visit <https://www.acifoundation.org/scholarships.aspx> for more details.

2019-2020 ACI Foundation Fellowship Recipients:

ACI Presidents' Fellowship



Alvaro Ruiz Empananza,
University of Miami

Barbara S. and W. Calvin McCall Carolinas Fellowship



Ross Newsome,
University of North Carolina - Charlotte

Richard D. Stehly Memorial Fellowship



Joseph DiBucci,
Pennsylvania College of Technology

Baker Student Fellowship



Aaron Elliott,
Pittsburg State University

Daniel W. Falconer Memorial Fellowship



Edvard Bruun,
Princeton University

Elmer Baker Fellowship



Christopher Bick,
University of Cincinnati

Baker Student Fellowship



Ivy Thibodeaux,
University of Louisiana - Lafayette

Don Marks Memorial Fellowship



Alec Derks,
Saint Louis University

Tribute to the Founders Fellowship



Hope Hall,
Oklahoma State University

ACI Middle East Fellowship



Nancy Kachouh,
United Arab Emirates University

Graduate and Undergraduate Scholarships

Funded primarily through generous donations, the ACI Foundation administers these scholarships, which are offered to high-potential graduate students in the concrete-related studies. The ACI Richard D. Stehly Memorial Scholarship is awarded to an undergraduate student.

2019-2020 ACI Foundation Scholarship Recipients:

ACI Scholarship



Muhammad Faizan Qureshi,
University of Toronto

W. Gene Corley Scholarship



Joshua Tomczak,
University of Minnesota - Duluth

Richard D. Stehly Memorial Scholarship



David Orense,
University of Florida

ACI Scholarship



Jahanzaib,
University of Toronto

Katharine & Bryant Mather Scholarship



Aaron Miller,
Georgia Institute of Technology

Stewart C. Watson Memorial Scholarship



Hosam Sennah,
Ryerson University

Bertold E. Weinberg Scholarship



Anthony Becerril,
Purdue University

Schwing America Scholarship



Tyler Kleinsasser,
South Dakota School of Mines and Technology

Serving the industry by bringing high-potential students into the realm of concrete.

Research

Thanks to donor contributions, the ACI Foundation was able to fund six projects in 2019.

Grant Funding in 2019

The ACI Foundation has been contributing financially to research projects since its inception in 1989.

The grant funding process for research proposals includes a thorough technical review and endorsement by an ACI technical committee. Because ACI technical committees touch every facet of concrete construction, the ACI Foundation can fund a broad variety of projects – enhancing how we construct buildings, bridges, roads, and the rest of the built infrastructure

Project: Effective Characterizations of Recycled Concrete Aggregate (RCA) for Concrete Applications

ACI Committee Support: ACI 555, Concrete with Recycled Materials

Principal Investigator: Jiong Hu – University of Nebraska-Lincoln; and Tara Cavalline – University of North Carolina at Charlotte

Other Funders: University of Nebraska-Lincoln and University of North Carolina at Charlotte

Project: Embodied Carbon in Construction Calculator (EC3) Tool

ACI Committee Support: ACI 130, Sustainability of Concrete

Principal Investigator: Kathrina Simonen – University of Washington

Other Funders: 30+ collaborators, including Microsoft Corporation; BASF Corporation; Walter P Moore and Associates, Inc; and the Charles Pankow Foundation

Project: Seismic Behavior of Precast Columns with High-Strength Steel Coiled Strip Reinforcement

ACI Committee Support: ACI 550, Precast Concrete Structures – Joint ACI-ASCE

Principal Investigator: Ashley Thrall – University of Notre Dame

Other Funders: University of Notre Dame

Project: Deconstruction Monitoring of a Cast-in-Place Segmental Concrete Box Girder Bridge

ACI Committee Support: ACI 342, Evaluation of Concrete Bridges and Bridge Elements

Principal Investigator: Matthew Yarnold – Texas A&M University

Other Funders: Texas A&M University

Project: Structural Response and Buckling Behavior of Slender UHPC Columns

ACI Committee Support: ACI 239, Ultra-High-Performance Concrete

Principal Investigator: Mohamed Moustafa – University of Nevada – Reno

Other Funders: University of Nevada – Reno and LafargeHolcim

Project: Optimization of Fiber-Reinforced Concrete Using Data Mining

ACI Committee Support: ACI 544, Fiber-Reinforced Concrete

Principal Investigator: Emilio Garcia-Taengua – University of Leeds

Other Funders: University of Leeds

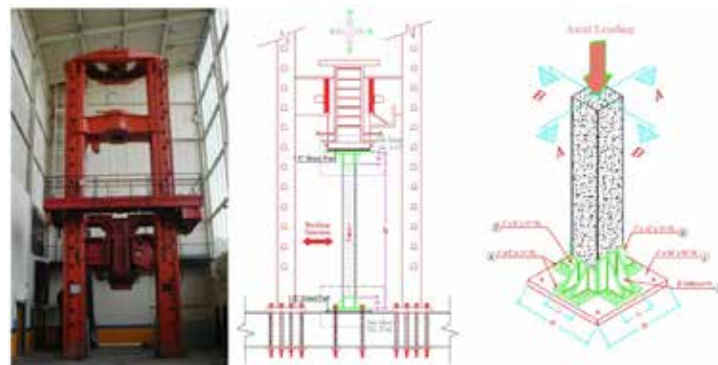


Figure 1. The 4000-kip load frame (Southwark-Emery press) at UC Berkeley PEER Laboratory and a schematic of the test setup and fixtures for a typical slender UHPC test



Completed Research 2019

ACI Foundation believes in collaboration to boost impact and progress in the industry. We co-funded these projects, which work was completed in 2019. Research grants can:

- help to sponsor students and young researchers in their development while producing industry knowledge,
- inform ACI committee work and documents,

- lay the groundwork for potential code change proposals,
- provide needed data to close the technical gap for use of a new technology in the industry.

Information on all ACI Foundation-sponsored research, including final reports, can be found at www.acifoundation.org/research/researchprojects.aspx

Project: Pre-Standard for Performance-Based Design for Wind

Principal Investigator: Don Scott, PCS Structural Solutions working through SEI/ASCE

Project: The Embodied Carbon in Construction Calculator (EC3) Tool

Principal Investigator: Kathrina Simonen
Visit <https://carbonleadershipforum.org/> to learn about the EC3 Tool

Project: Guideline Development for Use of Recycled Concrete Aggregates in New Concrete

Principal Investigator: Matthew Adams, New Jersey Institute of Technology

Project: Acceptable Elongations and Low-Cycle Fatigue Performance for High-Strength Reinforcing Bars

Principal Investigator: Wassim M. Ghannoum, University of Texas at San Antonio

Project: Low-Cycle Fatigue Effects on the Seismic Performance of Concrete Frame and Wall Systems with High Strength Reinforcing Steel

Principal Investigator: Gregory G. Deierlein, Stanford University

Project: Ductile Reinforced Concrete Coupled Walls: FEMA P695 Study

Principal Investigator: John W. Wallace, University of California, Los Angeles

Technology and ideas

A Place Where All Segments of the Industry Can Work Together.

Providing Strategic Direction for the Advancement of the Concrete Industry

Intentional and focused investments in research and technology can help the concrete industry meet the challenges of today and the needs of the future. The SDC invests in both technology and ideas to serve the industry at large.

- Integrating new technologies (processes, methods, and materials) into accepted standards begins with an understanding of how the technology will affect performance and safety. SDC supports new technology monetarily through research to help validate its use for acceptance by the industry.
- Funds also go towards creating technical guides or specifications in significantly less time than most standards developing organizations.
- SDC evaluates and when appropriate, mentors new technologies for more rapid adoption.

Goals that help guide SDC's vision—SDC Initiatives in 2019

Improve the Durability of Concrete

Research

- Literature Review of Concrete Durability & Service Life Requirements in Global Codes and Standards
- Interface Bond: Development of Appropriate Horizontal Shear Provisions for Concrete Repair
- Durability of GFRP Bars Extracted from Bridges with 15 to 20 Years of Service Life

Presentations

- Quantifying Concrete Resilience

Improve the Design & Construction Process

Presentations

- Hybrid Sliding-Rocking Columns for Seismic Resilience & Accelerated Construction
- Strengthening Bridges and Existing Concrete Structure Using Titanium

Improve Concrete Contractor Productivity & Project Quality

Technology Showcases

- TyBot – An Autonomous Rebar Tying Robot

The SDC strives to:

Provide an objective voice that supports innovation and provides solutions to industry-wide issues

Support programs that improve the quality and potential competitiveness of concrete in design and building, and as a building material

Assist the concrete community in the timely adoption of innovative technologies, best practices and solutions for industry-wide issues or initiatives

Improve the Adoption of Innovation

Co-Funded Research

- Evaluation of Composite Coupled Core Walls for Low-Seismic Force and Wind Load Applications
- Performance-Based Design of Concrete Buildings for Wind Loads
- Support of High-Strength Reinforcement Research
 - Foundation Mats with High-Strength Reinforcement
 - Development of Large High-Strength Headed Reinforcing
 - Normal and High-Strength Continuously Wound Ties

Industry Workshop

- Implementation of New Technologies and Innovations

Presentations

- Field Experience & Lessons Learned in Bending High-Strength Reinforcement

Technology Showcases

- The Power of Virtual Reality for the Concrete Industry
- The EC3 Tool – Making Embodied Carbon Data Relevant, Credible and Timely

SDC Technology Forums

We foster innovation by hosting Technology Forums twice a year. These two and a half day events are attended by industry leaders and subject matter experts from across many industry segments to discuss and concur on strategic directions needed to move our industry forward and learn about new technologies.

Visit www.acifoundation.org/technology/forums to view recent Forum agendas and future forum information.

Technology Forum 45, February 12-14, 2019, La Jolla, California

- 7 Technology Showcases
- 10 Technical Presentations
- Panel Presentations Performance-Based Concrete Specifications & Embodied Carbon
- Workshop on the Implementation of New Technologies & Innovations

Technology Forum 46, August 27-29, 2019, Pittsburgh, Pennsylvania

- 6 Technology Showcases
- 8 Technical Presentations
- Panel Presentations
- Non-Metallic Reinforcement
- 2 Breakout Sessions Non-metallic & Non-ferrous Technologies & Artificial Intelligence

SDC Member Organizations

- American Concrete Institute
- American Shotcrete Association
- American Society of Concrete Contractors
- Baker Concrete Construction Inc
- Barton Malow Company
- BASF Admixtures Inc
- BergerABAM
- Beton Consulting Engineers LLC
- Burns Concrete
- CarbonCure Technologies
- Ceco Concrete Construction LLC
- Charles Pankow Foundation
- ChemCognition LLC
- Combined Creek Consulting
- Concrete Preservation Institute
- Concrete Reinforcing Steel Institute
- Contach Services Inc.
- CTLGroup
- Ellis Global Group
- The Euclid Chemical Company
- Expanded Shale, Clay and Slate Institute
- Florida Department of Transportation
- GCP Applied Technologies
- ICC Evaluation Service LLC
- International Concrete Repair Institute
- James Toscas Associates
- Michigan Technological University
- Middle Tennessee State University
- Missouri University of Science & Technology
- MJ2 Consulting
- National Institute of Standards & Technology
- NAVFAC EXWL
- New Jersey Institute of Technology
- Nucor Steel Birmingham
- Pertconsult International
- Port Authority of NY & NJ
- Portland Cement Association
- Precast/Prestressed Concrete Institute
- Purdue University
- R-E-D Industrial Products
- Sika Corporation

“The Strategic Development Council is unique in the ACI community. We are not a technical, educational or certification committee. Rather we are a forward-looking collection of influencers in the concrete industry, who collectively provide a vision and direction for advancement of our concrete industry”

Charles Hanskat, Chair of SDC and Executive Director of the American Shotcrete Association

- SIMCO Technologies Inc
- Simpson Strong-Tie Concrete Repair Division
- Specialty Products Group
- STRUCTURAL TECHNOLOGIES
- Texas Transportation Institute, Texas A&M University
- Thornton Tomasetti Inc
- Tourney Consulting Group LLC
- University of Kansas Infrastructure Research Institute
- University of Miami
- University of Sherbrooke
- US Air Force Civil Engineer Support Agency USAF CESA
- US Army Corp of Engineers
- US Bureau of Reclamation
- Vector Consultants
- Virginia Transportation Research Council
- Walker Consultants
- Walter P Moore & Associates
- Webcor Builders
- Wind Tower Technologies LLC
- WJE Associates Inc
- World of Concrete - Informa

Supporting ACI's Core Pursuits



CMEC Veterans Rebate for ACI Concrete Certification Courses

The ACI Foundation is proud to announce a new program that administers rebates to U.S. military veterans who obtain ACI Certification. The program is funded by a \$50,000 donation from CMEC Holdings, Inc. (CMEC). The rebate program is available to veterans who have been honorably discharged from service and have obtained certification in any of ACI's 26 programs through any of ACI's 130+ Certification Sponsoring Groups on or after June 1, 2018.

CMEC approached the ACI Foundation with the funding and a plan that not only provides recognition and thanks to veterans for their service, but also provides an incentive for them to seek employment in the concrete construction industry. Each rebate is \$250 and may be claimed only for initial (first time) ACI certification. Veterans who obtain ACI certification in multiple programs may apply separately for each initial ACI certification.

For full eligibility requirements and application instructions, visit www.concrete.org/certification/veteranrebate.



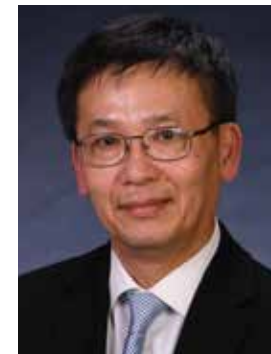
Professors' Workshop

In conjunction with the Portland Cement Association and the PCA Education Foundation, the ACI Foundation co-sponsored the annual Professors' Workshop in July. For the first time, the workshop was held at ACI Headquarters in Farmington Hills, Michigan. Designed for concrete industry educators, the workshop followed a format similar to that used in previous years, with plenary sessions for topics of general interest and three separate, specific tracks covering concrete structures (buildings and bridges), materials, and pavements. Networking opportunities allowed faculty from diverse programs to share information about their programs and courses, as well as meeting representatives from concrete industry sponsors.

2019 ACI Foundation Awardees



The Robert E. Philleo Award, presented by the CRC for outstanding achievements in the field of concrete materials, was presented to **David Darwin**, ACI Honorary Member, University of Kansas. Darwin was recognized for his lifelong efforts in concrete material research and bridge construction practices implemented in the United States and around the world.



The Arthur J. Boase Award, also presented by the CRC for outstanding achievements in the field of structural concrete, was presented to **Long T. Phan**, FACI, National Institute of Standards and Technology. Phan was recognized for his research on the response of high-strength/high-performance concrete structures to extreme loads, the effort of alkali-silica reaction (ASR) on reinforced concrete material properties and structural capacities; and committee work to transfer the research results into design practice.



The Jean-Claude Roumain Innovation in Concrete Award, presented by the SDC for innovation in the field of concrete, was presented to Lawrence L. Sutter. Sutter was recognized for his leadership in concrete materials education and research, which has advanced the knowledge of deicer interaction, use of fly ash and alternative cements, and the nature of the air-void system to overall improve the sustainability and durability of concrete.

ACI Foundation Donation Form



Promoting progress, innovation and collaboration in the concrete industry through strategic investments in research, scholarships, and ideas.

Name: _____
Company: _____
Address: _____
City: _____ State/Province: _____
Country: _____ Postal Code: _____
E-mail: _____
Phone: _____

I'm interested in learning more about the ACI Foundation

Please use the following name(s) in all acknowledgements:

Name(s): _____

I (we) wish to have our gift remain anonymous.

Signature

Date

Please make checks, corporate matches, or other gifts payable to:

ACI Foundation
38800 Country Club Dr.
Farmington Hills, MI 48331

Donation Information

I (we) will donate a total of: \$ _____

Allocation: Scholarship Fund Research Fund General Fund
 Technology and Innovation Fund CMEC other

If other, please describe: _____

I (we) will make this contribution by: cash check credit card other

If other, please describe: _____

Credit card type | Exp. date: _____

Credit card number | CVV: _____

Authorized signature: _____

Gift will be matched by (company/family/foundation): _____

form enclosed form will be forwarded

Please return completed form to the attention of Jennifer DeWall by mailing to ACI Headquarters or by emailing jennifer.dewall@acifoundation.org. For questions, please contact +1.248.848.3757.

Advancing the world through innovative concrete solutions.