



BRIDGE TO THE FUTURE

2018 Annual Report
PCI FOUNDATION

PCI FOUNDATION

ABOUT THE PCI FOUNDATION

Since 2001, the PCI Foundation has been the educational entity that supports the Precast/Prestressed Concrete industry.

The mission of the PCI Foundation is to foster educational initiatives focused on innovative approaches to the integrated and sustainable use of precast concrete design, fabrication, and construction.

It is a charitable 501(c) 3 corporation, based in Chicago, which supports the inclusion of precast concrete programs at accredited college and universities.

The work of the PCI Foundation continues to evolve and expand as we discover the best ways to engage and educate students and professors in the interest of precast concrete design and construction.

To learn more, visit the PCI Foundation website at PCI-Foundation.org.

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PRECAST'S NextGen - brought to you by the PCI Foundation

Where the creative drive of the millennial generation meets precast; at the PCI convention, internship programs and the Dr. Alan Mattock Scholarship



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PUTTING PRECAST IN COLLEGE AND UNIVERSITY CLASSROOMS NATIONWIDE

Multi-year learning Studios were taking place in 2018 from coast to coast and building on an 11-year history of using Curriculum Development Grants to train the architects, engineers and construction supervisors coming into the workforce.

- Arizona State University
- Clemson University
- Colorado State
- Georgia Tech
- North Carolina State University
- Sacramento State
- Tulane University
- University of Arizona
- University of Colorado at Denver
- University of Minnesota Duluth
- University of Washington
- University of Wisconsin Milwaukee



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THEY SEE AND SUPPORT THE FUTURE

Who says fundraising can't be big fun? Concrete Chefs, After Dark Casino Night and a BBQ competition that 'pits' teams against one another fund the work of the PCI Foundation.



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What's Ahead 2019 And Beyond

CHAIRMAN'S LETTER

I finished my term as chairman of the PCI Foundation in December 2018, and what a way to finish! There is so much to celebrate.

Almost every month, I hear another story of a former student who gets in touch with our industry because she is working on a project, because he is working at a firm who needs precast education and wants to have a lunch and learn, who has an idea for a grad school project. The work we do in the classroom is paying off almost immediately after the student leaves campus.

Those of us involved in the work of the PCI Foundation enjoy a powerful sense of community and a strong confidence guiding our industry's future. We do this not only by taking up the cause of educating our future customers, but also ensuring that we work with schools doing research on our products, and create a new source of top notch employees for the future.

While it feels great to look back at everything we accomplished in 2018, I got to the 2019 convention and heard some scary words from USC professor Doug Noble who spoke at our welcome luncheon. He shared that in his own 13 years of architecture education he never once learned about precast concrete. And when Doug Mooridian first approached him at USC seven years ago, precast was not being taught on campus. Today it is a different story at that one campus.

There are 13,000 students of architecture in this country right now. I teach 12 of them each semester in a studio and about 200 of them in a class on materials and methods. The materials and methods class now has a component that talks about precast.

Seven or 8 years ago I did not know the word precast. Last year, the University of Southern California won the Sidney Freedman Craftsmanship award from PCI for a \$700 million complex of buildings called University Village. I'm not saying that the PCI Foundation led to a \$700 million project on the University of Southern California campus that is now winning PCI Design awards - you can draw your own conclusions.

Please folks. 13,000 architecture students are not learning about your product they are learning about sputter coating on glass. I'm teaching it. And so are people who look like me all over the country. Please help the PCI Foundation do something about that. Thank you for your time.

I can hardly say it better than that.



Dean Gwin, 2018 PCI Foundation Chairman

EXECUTIVE DIRECTOR'S LETTER

The PCI Foundation is relatively young. Like many youthful organizations, we have some advantages and disadvantages.

The wonderful part of being new and nimble is that we have been able to learn as we go - finding new ways to bring the wonders of precast to higher education. We are able to meet schools of architecture, engineering and construction management on their ground and help provide what they need while looking out for our industry interests at the same time.

We don't have a list of text books or tests that students must learn. Our programs rely on the interests of the professor, the curricular needs of the school, and the availability of the local partner. Of course, in every program precast's ability to excite and challenge students takes center stage.

This has meant that we have been able to be on the forefront of some of the most important shifts in higher education in the last few years. Colleges of all types are pressing their tenure track professors to engage the community, create opportunities for hands-on learning, and provide career track certificates and ensure students are "career ready."

How they approach these goals using precast and generating new curriculum is wonderful to watch.

- In the fall of 2018, **Tulane School of Architecture** faculty members Kentaro Tsubaki and Charles Jones began a class-based research project investigating how precast concrete water-management structures can enhance landscapes and support resiliency in coastal cities. The multi-year effort will focus on ways to create structures, such as levees and stormwater detention systems, which direct water while also encouraging interaction and appreciation for the substance.
- **Sacramento State University** put a precast emphasis on a multi-year bridge program that sets students up in working groups that include consulting engineers and Caltrans personnel along with precast industry partners. At the end of the semester, students gave a final presentation to about 40 bridge industry professionals and almost every student got an on-the-spot job offer.
- **University of Southern California** students began designing a project in 2018 which will be built and completed at Joshua Tree National Park in 2019 using one simple panel design. The first structure of its kind in our program.

In all these ways, we are a bridge to the future. Combining the on-point trends in higher ed for reaching students and providing college professors what they need to ensure that our industry stays strong through education.

I can't wait to share what we did in 2018!



Marty McIntyre, Executive Director

Bridge to the

FUTURE

The work of the PCI Foundation is carried out by its Board of Trustees, a dedicated group of individuals interested in expanding precast concrete educational programs by working with schools of architecture, engineering, and construction management.

2018 OFFICERS

- Chairman
Dean Gwin, Gate Precast
- Vice Chairman
Tom Kelley, Gage Brothers
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Adel ElSafy, University of North Florida
- Development Council Chair
James R. Voss, JVI Inc.

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- Jim Sorenson**, EnCon United
- Glen Switzer**, Dura-Stress Inc.
- Keith Wallis**, Standard Concrete Products
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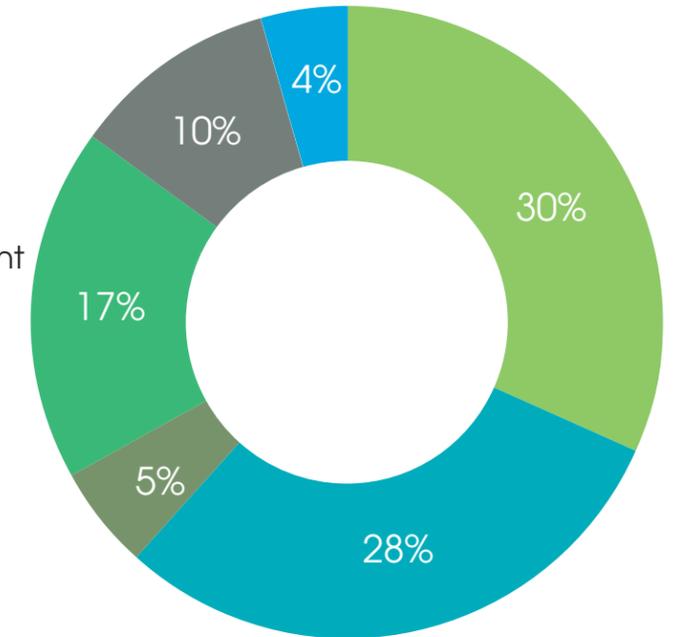
The PCI Foundation relies on members of the precast concrete industry to fund its programs. Thanks to the many generous donations we have received, we have been able to grow successful, interesting, and meaningful educational programs in conjunction with a number of prestigious universities. We are on the brink of even greater success should we obtain more support. To make a donation to the PCI Foundation, visit our website (pci-foundation.org) or call Marty McIntyre at 708-386-3715.

WHERE ARE THE NEXTGEN PRECASTERS COMING FROM?

From these majors

- Architecture Design Focused
- Architecture | Engineering
- Engineering Structures
- Engineering | Construction Management
- Architecture | Production Focused
- Bridge

This chart reflects the programs supported by PCI Foundation grants.



From these colleges and universities across the US, with programs supported by PCI Foundation grants

Recipients of PCIF Curriculum Development Grants	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Illinois Institute of Technology												
Cal Poly												
University of North Carolina at Charlotte												
University of North Florida												
New Jersey Institute of Technology												
South Dakota State University												
University of Southern California												
Clemson University												
Minnesota State Mankato												
Rhode Island School of Design												
University of Texas at Arlington												
Washington University												
University of Colorado Denver												
University of Washington												
University of Michigan												
North Carolina State University												
Georgia Tech												
University of Arizona												
University of Minnesota Duluth												
University of Wisconsin Milwaukee												
Arizona State University												
Tulane University												
Colorado State												
Sacramento State												

2018 PCI FOUNDATION PROGRAMS

Convention Programs

It was hard not to come back from working with the students at the 2018 convention not feeling energized and excited about what 2018 would bring because just those few days in Denver was a game changer for the PCI Foundation. The relationships we have formed with the schools receiving our grants - including the professors, administrations, and professors - have allowed us to hear first hand what design and engineering programs want and need from industry to make our interactions with them as meaningful and profitable for us in the long term as possible.

In the meantime, our industry is learning a lot about millennials. They **value experiences over material goods** - which fits PCI Foundation programs perfectly. Everything the PCI Foundation does is to increase the value of precast concrete and the experience of learning about it. By listening to the students and to the professors especially, we are learning more about how to make those interactions meaningful. Sure, we are providing curriculum today. But now that they know about precast, they want even more. The students are asking for a "Boot Camp" where they can come together and learn from the best and brightest in the precast industry and in the world of architecture. They want to meet the "rock stars" of the precast world.

We always knew that engineering and architecture students are often creative or forward thinking, but guess what? Today's **students have an entrepreneurial spirit** as well as that creative drive. They are looking to make a splash and push our industry forward with their ingenuity. They would love for the precast/prestressed industry to help them with these ideas.

They are **passionate about making themselves stand out**. Over and over again, students told us how the precast course they took not only was a different experience from other similar classes, but it also was something that would make them stand out in a sea of resumes when looking for their first job. In some schools, the precast program will be a line on a transcript, in another school, they will be able to point to a real project designed, fabricated, and built by their student team. At every school, students tell us that the industry involvement in the PCI Foundation programs enhances their educational experiences.

Hearing from the students and the professors this year was pretty amazing. By bringing them to the PCI Convention we have given them a taste of the precast industry and they are all saying, "we want more".

On the show floor, students from several schools supported by the PCI Foundation curriculum development grants visited with exhibitors to learn more about the precast concrete industry. Others also took part in the poster session, either showing projects worked on as part of academic classes or as part of graduate research. Other students also present their student research as part of the student research sessions on Thursday during education programs.

On Friday night, 60 students from all the programs had a chance to socialize at a ping pong emporium in downtown Denver.

The PCI Foundation works closely with the Precast/Prestressed Concrete Institute to ensure that students at the convention have a meaningful and memorable experience that will have their view of the precast concrete industry for years to come. In 2018, the student activities at convention included a poster session, student paper session, a professor round table that generated new ideas for programs such as 2019 "Project Precast" and an education where professor presented their school's precast curriculum.

Internship Program

The Internship Program developed in conjunction in partnership between the PCI Foundation and the NPCA Foundation continues to be available on the PCI Website. The two groups created an internship template that member companies can use to help launch an internship program. The template can be customized, depending on your company's individual needs. In addition, the PCI Foundation and NPCA Foundation created two webinars. These resources are free for PCI members and can be viewed on the member portion of the PCI website

Dr. Alan Mattock Scholarship

The PCI Foundation is pleased to announce that a scholarship has been established in the memory of Dr. Alan Mattock for the many contributions he made to the industry over his long career. In addition to his extensive research, he influenced generations of young engineers and was named the PCI Distinguished Educator in 1999. The Alan Mattock Graduate Scholarship will be tied to the Daniel P. Jenny Fellowship program conducted by the PCI Research and Development Council.

In 2018, the scholarship went to **Mr. Ting-Wei Wang** of the Lyles School of Civil Engineering, Purdue University. He received his Jenney Fellowship for "Anchoring to Lightweight Concrete: Strength Reduction for Post-Installed Anchors" Advising Professor: **Christopher Williams** Producer support: **Coreslab Structures (Indianapolis)** Additional support: **Stalite Structural Lightweight Aggregate, Trinity Lightweight, DeWalt, Hilti, ITW, Simpson Strong-Tie.**

In his student statement, Ting-Wei Wang noted "I realized that using precast concrete offers many benefits compared to cast-in-place concrete, such as improved quality control, shorter construction time, and lower construction costs."



The value of the scholarship is \$4,000 and is intended to enhance the Jenney Fellowship award. The PCI Foundation will accept contributions for funding this scholarship. Donations should be sent to the PCI Foundation, with specific instructions to go to the Alan Mattock Graduate Scholarship fund, at c/o Marietta & Associates, 1770 N. Park Street, Suite 103, Naperville IL 60563



Professors Seminar

The PCI Foundation offers a program for architecture professors who wish to learn more about precast concrete design and how it can be taught in the university classroom or studio. The program will be a three-day intensive workshop that will include instruction from college professors already teaching precast as part of grants received from the PCI Foundation, precast industry experts, and architects with precast design experience.

In 2018, the program took place May 22-24 at Washington University, St. Louis with portions of the program taking place at the St. Louis Prestressed plant in Glen Carbon Illinois. Professors learned the basics of precast concrete design for buildings, and were given tools that will assist them in teaching precast concepts to students. Additionally, the topics of integrated programs and partner relationships will be covered.

Content provided to professors interested in teaching precast design included videos, books, case studies, precast details, and other useful materials. Many of the PCI Foundation-sponsored programs have offered integrated courses with either engineering or construction management departments.

"The PCI Professors Seminar is a great way to interact with your peers. Even though every program is very different you will always find a good idea for your program," says Mehaney. "Tours are always fun, and you get to hear from the industry about problems that they are facing that you can use in research. You make good connections, and its overall a great experience."

This is very good experience to network with different professors with from different areas, architecture, engineering and construction management. You get to learn from all sorts of different professors.

Mohammed Diab

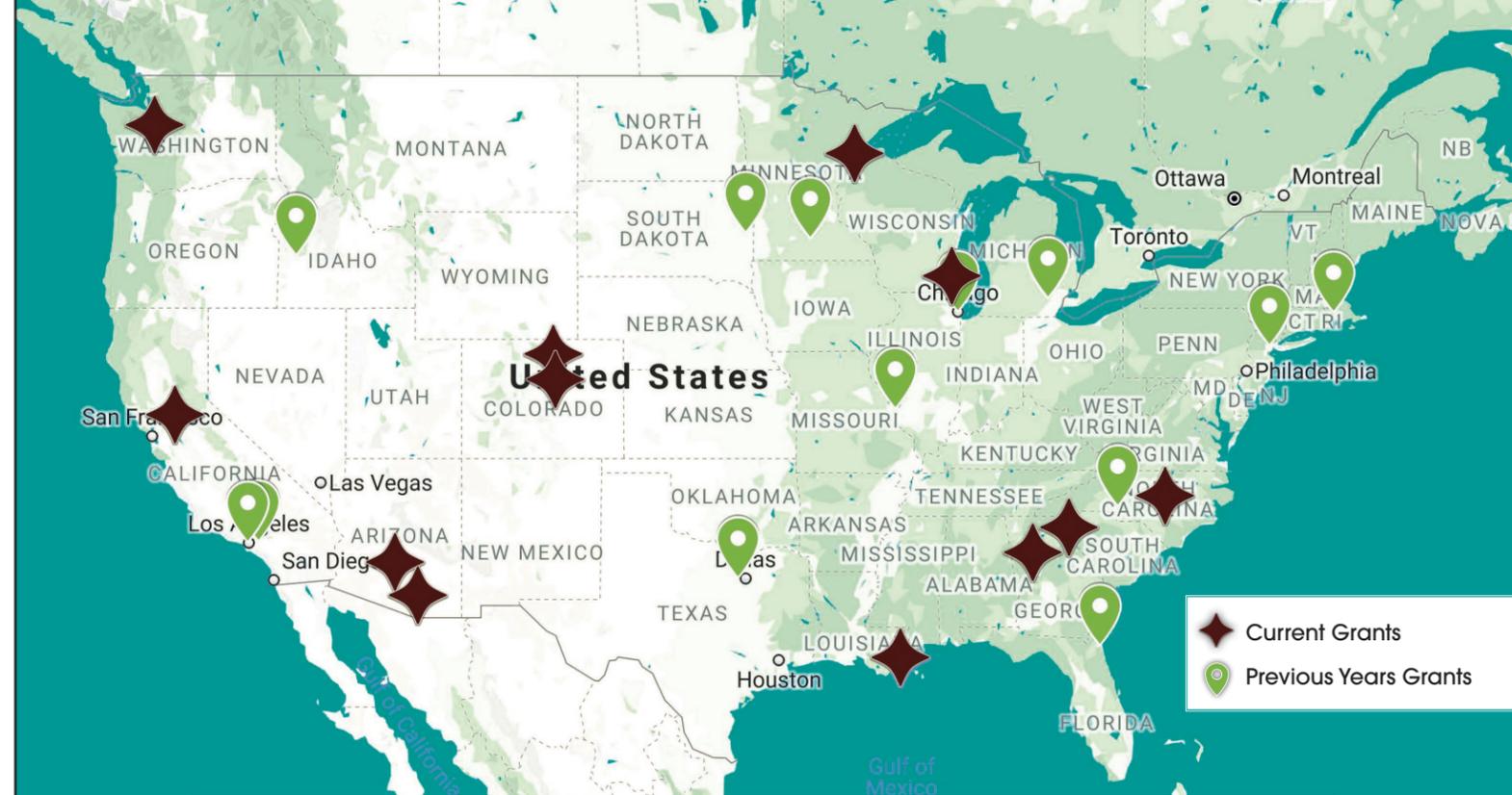


Curriculum Development Grants ◆

The center of all that the PCI Foundation does are our Curriculum Development Grants. Each year, we work with professors at schools of architecture, engineering and construction management to create new precast concrete related curriculum where there was none before. But beyond that, the PCI Foundation is working to create a circle of professors who can come together and share their knowledge and excitement to help bridge our industry into the future.

During 2018, the PCI Foundation provided grants to professors at the following schools.

- Arizona State University
- Clemson
- Colorado State
- Georgia Tech
- North Carolina State
- Sacramento State
- Tulane University
- University of Arizona
- University of Colorado at Denver
- University of Minnesota Duluth
- University of Washington
- University of Wisconsin Milwaukee



2007-2019 Curriculum Development Grants

- | | |
|--|--|
| Arizona State University ◆ | Tulane University ◆ |
| California Polytechnic Institute at Pomona | University of Arizona ◆ |
| Clemson ◆ | University of Colorado at Denver ◆ |
| Colorado State University ◆ | University of Michigan |
| Georgia Tech ◆ | University of Minnesota Duluth ◆ |
| Idaho State | University of North Carolina Charlotte |
| Illinois Institute of Technology | University of North Florida |
| Minnesota State University at Mankato | University of Southern California |
| New Jersey Institute of Technology | University of Texas at Arlington |
| North Carolina State ◆ | University of Washington ◆ |
| Rhode Island School of Design | University of Wisconsin Milwaukee ◆ |
| Sacramento State ◆ | Washington University in St. Louis |
| South Dakota State University | |



Arizona State University

In a typical design studio, the students are assigned a project, given a program, and allowed to choose a material. When the PCI Foundation paired with assistant director and clinical assistant professor **Philip Horton** and clinical associate professor **Warren Murff** at Arizona State University (ASU) and Tpac Architectural and Structural Precast Concrete (an EnCon Company), the teaching team decided to turn things around on the students. The students kick off the semester with a research exercise, looking at material on the standard precast concrete "kit of parts." They also have a chance to explore some case studies of precast concrete projects from around the world.

At the same time, the students spend time at the Tpac plant in Phoenix and engage with professionals from the precast concrete industry who visit the students in the studio. The plant tour allows students to see familiar projects and begin to understand the scale and complexity of precast concrete. "One of the cooler things we saw was the rebar for a tub section being formed up while we were there," says Horton. "That tub section is for an extension to the sky train at Sky Harbor International Airport. That sky train is going to fly over the existing Terminal 2, and then Terminal 2 will soon be demolished."

Through teaching this course, Horton says he has learned more about emerging technologies in

precast concrete that will be attractive to architects who wish to reclaim their stake in the overall design and construction of a project. The students working with industry and understanding the technology help them understand that the precast concrete industry embraces the concept of design-assist, or involving the architect with the precast concrete producer as early in the project as possible.

As part of the course, the students research innovations in precast, both in fabrication techniques and design.

During the last part of the semester, students begin work on their final studio projects. Rather than providing them with a program and having them all work on the same project, Horton and Murff ask students to choose a project of their own devising that is a good candidate for precast concrete design. "For better or worse, we've chosen not to give them an assignment of, you get this site, this program, do this project," says professor Phil Horton. "Instead the idea is, the student will study what the potentials of precast are and what the constraints of precast are. And then, they will propose a project using the logic of what you learned about precast."

This open approach leads to a wide variety of projects from a soccer stadium to a border crossing.



INDUSTRY PARTNER • Tpac



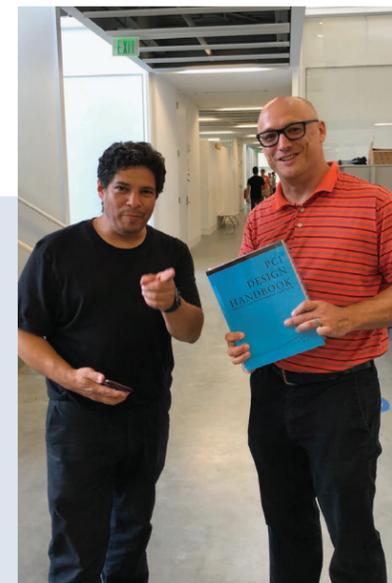
Clemson University

Professor **Carlos Barrios** at Clemson University is now in his fifth year of running the PCI Foundation studio. His partners are the Georgia/Carolinas PCI who have helped make this program a popular and meaningful studio at the school. Clemson typically divides its studio into three parts. The first is having the students explore the work of architect Tadao Ando, who works in cast in place concrete. They take apart one of his buildings and redesign it as a precast structure.

"The second project that we typically do is one that has been classical in our studios which is a tessellations, in which I asked the students to take one single element that gets repeated," says Barrios. "**Peter (Finsen)** of PCI always talks about the efficiency counts and repetition, and I respond back with, 'Repetition doesn't mean it's boring, it means that there's opportunities to actually grow.'"

INDUSTRY PARTNERS

- Brazilian Consulate
- Georgia/Carolinas PCI
- KCCP Architects
- Metromont Corp.
- Tindall Corp.
- US Formliner
- US State Department



This year, one student was inspired by MC Escher and a tiger attacking a gamecock - illustrating the rivalry between Clemson and South Carolina Gamecocks.

Next, students take on a "real-time" project. This year, as in the last few years, the students worked with the US State Department and with the Office of KCCP in Washington DC to design an Embassy. The students travel not only to the precast industry partners but also make a trip to Washington DC to see other embassies and work in conjunction with the architecture firm.





Colorado State

Colorado State's Construction Management and Engineering schools took a different approach to teaching precast concrete by creating a "Precast Boot Camp" for students who were able to have six weeks of study on precast concrete outside of their regular classroom work.

The students worked with industry partners who came into the school and lent their expertise on topics such as:

- The sustainability and life cycle cost aspects of precast
- The use of BIM in precast
- Scheduling and planning (time savings associated with precast)
- Estimating of precast projects
- Site logistics and execution planning

A key part of the program is working with the industry to ensure that students are receiving the knowledge they will need to make precast concrete projects successful once they are in the field. "When we put that curriculum together we worked together to make sure that this is information that we need to have for those students," says **Mohammed Mehany**, Assistant Professor of Construction Management, the lead professor on the program. "I want them to understand how you coordinate them there. I want them to understand estimating. I want them to understand scheduling."

Each week, a different member of the local industry came in to lead the students in a program that culminated with the students having an enriched sense of the precast concrete industry and a readiness to work with the product that was not there prior to the program being in place.

INDUSTRY PARTNERS

- EnCon United
- PCI Mountain States
- Rocky Mountain Prestress (Now Wells Precast)

The interest from the students was really, really great. Right after graduation I got an email from one of the students asking for information for precast on one of his submittals, and I was like, wow! He's only one year in. He's said he was doing precast work and that he learned a lot over the course but needed to update some other things on a submittal to convince someone else to use a precast system.

Mohammed Mehany



Georgia Tech

Within the Georgia Tech School of Architecture, there is a focus on the relationship between research, teaching and practice. The school actively seeks out opportunities for each of these domains to influence the others. The goal of the Georgia Tech program is to bring in key organizations within the concrete industry together to collaboratively support an R & D precast concrete teaching lab at Georgia Tech to advance knowledge and practice in precast concrete design and construction.

"Our mission is to provide students with the ability to mediate the design space between complexity and constraints in order to produce exciting buildings that can be built with an economy of means and positive societal impacts," says Professor **Tristan Al-Haddad** who will lead the program.

"In order to achieve this, we focus on computational tools and machines in our teaching and research such that mature material systems, such as precast concrete, can continue to evolve, thus advancing our broader mission of excellence and stewardship in the AEC industry."

Students working on the project first worked in a workshop setting, deliberating on ideas for a small "folly" that would be part of the Atlanta Beltway Park. Students traveled to the PCI Convention to display the project design and demonstrate some of the technology they developed in the classroom.

Then, in the summer of 2018, sixteen students from Georgia Tech traveled to Paris to take part in FabCity with their Xylo Project, originally conceived as part of the PCI Foundation studio. The rib-cage like structure is a one-of-a-kind musical instrument made out of precast concrete.

In the fall of 2018, the team went back to 2 people, with a goal of making the pouring process more efficient and pour more pieces for installation on Georgia Tech's campus.

INDUSTRY PARTNERS

- Dex Industries
- Ductal
- Gate Precast
- Georgia/Carolinas PCI
- Metromont Precast
- Tindall Corp.
- US Formliner



North Carolina State University

North Carolina State University combines students from the schools of architecture and engineering to create its precast concrete program. In any university, this is a challenge because of the differences in the approaches that the schools take in educating architects and engineers and the structures of the classes.

Much of the funding for the program goes to help students pay for the materials in the classroom. Professor **Dana Gulling**, of the architecture program, says that this has allowed students, who are almost all self-funded, to take on a more experimental approach to their education. "What I am now seeing, especially with our students is now they are going out and doing a lot more 3D or additive printing within our own facilities because these costs are being done, so I'm actually seeing a lot more experimentation now by the students because these costs are being handled," says Gulling.

The grant covers three courses. ARC-503, advanced architectural design. There is also a Civil Engineering course that **Greg Lucier** teaches in the Masters of Civil Engineering program. The third class is a digital material translation course.

Students learn precast with the help of three projects over the semester. The first project is a two or three week precedent study that helps them better understand the product and vocabulary. Next, students get hands-on experience casting a full-scale model as a group. They test the panel in groups as well by bringing them to the Construction Facilities Lab and erecting them on a steel frame. Once erected, student are able to test them for lateral stability. The third project is a more traditional studio project that lasts 10 weeks. The architecture students individually design a project and the CE students provide consulting services to them.

In addition to the work in the lab and the classroom, the students tour precast plants and bring in experts from the industry. The Gate Precast plant in Oxford NC is about 45 minutes from the school. JVI brings in a "petting zoo" of precast connections to help students learn more about how they work, and US Formliner conducts a mold-building workshop.

INDUSTRY PARTNERS

- Gate Precast
- Georgia/Carolinas PCI
- JVI Inc.
- Metromont Corp.
- Tindall Corp.
- US Formliner



What I found, especially when working with the civil engineering students, it is culture shock for them. We meet in our studio space at School of Architecture, most of these engineers have had a very choreographed set of sequences of problems that they have to solve, a set of columns and loadings and beams. Then they also get the architecture students and they're realizing that their buildings have no columns in them. Their minds are blown.

Dana Gulling

Sacramento State University

The focus of the new precast program at Sacramento State, known as the Precast Bridge Studio (PBS) is bridges. But the reach of the program goes beyond just the precast industry and looks at the needs of the ultimate customer, the state of California, to address how precast and the students will best serve the needs of the future of the bridge market, bolstered by the California Senate Bill 1, a transportation investment that invests \$54 billion over a decade to improve California's transportation system.

In Fall 2018, Dura-Stress's **Glen Switzer**, PCI Foundation Trustee liaison to the program, spoke to the students to kick off the program, which combines key stake holders in the precast concrete bridge industry, including precasters (Confab, Clark Pacific), Caltrans, consulting bridge engineers, contractors, and specialty providers like strand producers (Sumiden Wire) and precast software companies. Five bridge engineers, including two from Caltrans and three consultants, are working as bridge mentors. Students learn to design precast bridges in one of three teams, each under a different consultant mentor, with Caltrans serving as oversight with **Dr. Eric Matsumoto**, their professor.

In addition, students have expanded their active PCI Club, the second in the nation. The club's first meeting focused on the new on-campus precast concrete hybrid moment frame for Parking Structure 5, designed, fabricated, and installed by Clark Pacific. More than 30 students attended the meeting.

At the end of the fall semester, the PBS student teams presented their final bridge design before nearly two dozen precast bridge industry representatives, including their bridge mentors, Caltrans, precasters, and other consultants and contractors, as well as other students and faculty.

INDUSTRY PARTNERS

- BridgeSight Software
- Caltrans
- Con-Fab California
- Dura-Stress Inc.
- MGE Engineering
- PCI West
- Sumiden Wire
- TY Lin International
- Viking Construction



An awards event followed the reception, recognizing the significant contributions of the precast industry to the PBS program. PCI's **Jon Grafton** gave the keynote presentation on "Notable California Precast Bridges." Several students were given job offers shortly after their presentations.



It is one thing to look at bridge components via pictures or drawings However, seeing the actual components in person is a marvelous sight. We had the honor of touring both Sumiden Wire and Con-Fab on the same day. What an experience, first witnessing the manufacturing of prestressing strands at Sumiden in the morning and then concluding with a tour at Con-Fab that showed fabrication of precast girders using those strands!

Sacramento State Student



Tulane University

The professors at Tulane took a unique approach to their precast studio to tackle a problem that may look unique to the New Orleans today, but will most likely be an issue that will arise for populations around the US in coming years. In 2010, 123.3 million people, or 39 percent of the nation's population lived in counties directly on the shoreline. This population is expected to increase by 8% from 2010 to 2020. So, when professors **Kentaro**

Tsubaki Associate Dean for Academics, Favrot Associate Professor of Architecture and **Charles Jones**, adjunct lecturer, were looking for an issue to tackle using precast concrete that would not only use the material to its best advantage but also be socially impactful, water management in public spaces was key.

"The first semester was really about scoping and identifying specific opportunities that then we can really dig in. It happened in two scales. The first one, in a kind of a smaller, micro scale, we tackled the design of a sidewalk paving and rain garden. That primarily was led by Charles' digital fabrication seminar, and then kind of merged into the studio. All the students have to take the seminar and the studio. On the macro scale, we looked at the design of a linear park," says Tsubaki. The program includes 10 students, primarily undergraduate, fourth and fifth year students, and one graduate student. Two of the students are continuing their work from the studio as an independent study during the summer of 2019. The program also has a graduate assistant.

The intent of the program was to develop and deliver infrastructure projects that focus on the relationship between precast systems, architecture infrastructure, and our most valuable resource, water. The professors used the greater New Orleans urban water management plan as the framework in part because a lot of research had already been done. So now the students and professors will develop the projects in more detail.

The team settled on the Lafitte Greenway, a linear park now that reconnects, or hopes to reconnect, the French Quarter to the bayou. It was a shipping canal that there was displaced and turned into a railway, and then it was abandoned and became a linear park. They felt it had lots of opportunities from pedestrian bridges, permeable paving systems, to retention walls. The students worked on solutions that would aid in flooding events that would happen multiple times each year (5-10). It only has to rain about 10 minutes before the park will flood. The end goal: Using the park as retention, but also as usable public space

The teamwork in this project was slightly different than in some other programs sponsored by the PCI Foundation. Of course, local precasters were involved, but because Tulane does not have an engineering program, they looked at industry professional from civil and structural engineering, landscape architects, planners, and others familiar with this work.

The work on this project will continue over several years, allowing new solutions and research to develop through the precast concrete curriculum provided by the professors at Tulane and their local industry partners.



INDUSTRY PARTNERS

- Gate Precast
- Tindall Corp.
- PCI Gulf South
- US Formliner

And we are very proud to be the first grant recipient in the PCI Gulf South. We started off really trying to develop a language that we can all speak about consistently.

So these started off as systems but then became characteristics of different types of systems. We cast a wide net, just looking at anything and everything that was precast. Any scale, not just precast, but also just concrete related to infrastructure and architectural applications. So bridges, foundations, shorelines or erosion control systems I think were a vital part of this research. Then we looked at all of the example projects within that water management plan and tried to identify different opportunities.

Charles Jones





University of Arizona

The faculty at University of Arizona in Tucson had the opportunity to propose a precast studio for their campus, they saw it as the perfect opportunity for the Department of Civil Engineering and the College of Architecture, Planning and Landscape Architecture to work together on an integrated program. The timing was perfect, as the school was matriculating students into its new architectural engineering program who could "grow up" with the precast concrete program.

The PCI Foundation program at University of Arizona will be one of the first to ramp up to eventually offer courses across several departments with multiple faculty working together buildings, bridges, and other precast structures. The program will be able to prepare students to either work in the precast industry or design structures for a variety of other industry using precast/prestressed concrete products wisely and efficiently.

Prior to this program, all of the school's precast work was housed in the school of engineering, where **Dr. Robert Fleischman** has done precast research as part of his program. "About nine months before I found out about the PCI studio, (the architecture and engineering schools) got together to work on launching a new architectural engineering program and so that group is matriculating right now. The nice thing is I am some of the three faculty that's crafting the architecture engineering curriculum and it's initiatives so I'm in great position to make some impact with precast there," says Dr. Fleischman.

And in creating the new program, the school wanted to ensure that it was not just going to move students from architecture and engineering programs into the new program, but also gain new students to study at the school. So, the first step for the school was to ensure that faculty and staff would become familiar with precast concrete.

The school has been working with Coreslab (Ariz) to ensure that the students have hands on experiences and the ability to learn by doing. Phil Richardson has been coming in and doing lectures and arranging plant tours for the students.

In addition to students working across schools, they will also be visiting a variety of companies and industry plants and sites to give the students a well-rounded view of the precast/

prestressed building and design industry. The UA PCI Studio field trip program will involve four different types: (1) Precast Plant Tours; (2) Precast Construction Site Visits; (3) Precast Specialty Product Supplier Office Tours; and (4) Design Consultant Office Visits for Structural/Architectural firms involved in precast. In the other semester, field trips will be offered to various other associated plants, suppliers and architectural precast firms. Field trips to local construction projects using precast (buildings, parking garages, stadiums) will be identified and scheduled on a case-by-case basis, using the Precast Industry Champion and local construction companies (e.g. Sundt) for information on their upcoming projects. Finally, field trips will be scheduled to local structural and architectural design firms using precast. The first part of the program was a seminar series which involved a variety of professionals associated with precast construction including precast producers, contractors, designers, suppliers and researchers.

In addition to time in the classroom spent of precast concrete, the students at university of Arizona will have opportunities to learn more about precast concrete through student competitions including the Concrete Canoe and the PCI Big Beam Competition. Although the school has participated in the Canoe competition before, the Big Beam will be a first. The team did find that there was a learning curve for the competition.

The last piece of the University of Arizona precast puzzle is looking for internships within the precast industry for students. Prior to this program started, the faculty and industry involved were not aware of any student interns from the school working in the precast industry. To date, at least two interns have been hired for internships that are worth credit at the school by Coreslab, the industry champion for the project.

INDUSTRY PARTNER • Coreslab (Ariz.)



University of Colorado Denver

The curriculum developed at the University of Colorado Denver was mostly a traditional architectural studio, focusing on producing total precast solutions for iconic Colorado sites: the summit of Pikes Peak, Arapahoe Basin Ski Area and in Boulder, Colorado. Each year, the studio has had sixteen students participate and spend an entire semester learning the ins and outs of precast concrete design, working closely with mentors from industry partners from EnCon United and Rocky Mountain Precast (now Wells Precast).

The program has evolved in a few distinct ways. First, the curricular alignment of the studio changed significantly after its first iteration in Spring 2016. At the time, the studio was offered in the fourth studio of a six-studio sequence. "In consultation with **Jason Lien** and **Dan Parker**, we decided that the students were not far enough along in their architectural education to fully engage and integrate the precast construction system into their architectural designs," says **Matt Shea**, the professor running the program. "As a result of this conversation, the studio was moved to the sixth and final studio in the M.Arch program. In this studio students are required to take a project from conceptual design to the beginning of the design development phase necessitating that the students explore the structural, technical and architectural qualities of the precast construction system."

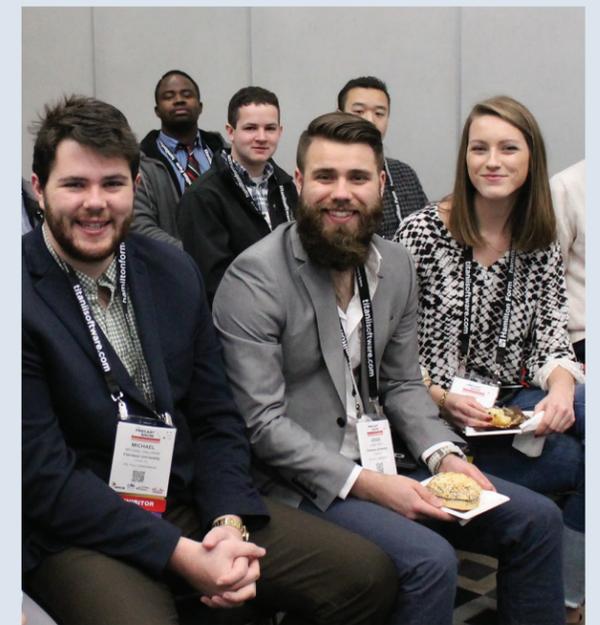
The second way in which the program has evolved is the integration of the industry partners into the studio curriculum and culture. Over the past three years the program has doubled the number of days that the students interact with industry partners from seven days to fourteen. It has also increased the number of individuals from the industry who regularly participate in the studios. This has allowed for the studios to become nimbler and able to accommodate individuals' shifting availability—the studio is less reliant on only a few people. Additionally, this has increased our students' exposure to a broader spectrum of professionals in the industry, creating a richer educational experience.

INDUSTRY PARTNERS

- EnCon United
- PCI Mountain States
- Rocky Mountain Precast (Now Wells Concrete)

I highly valued my time learning from Matthew Shea and view the PCI studio as a truly incredible asset to the University. I was encouraged to pose questions, research, be questioned, and actively explore as a participant which has led me to do the same in the profession. I confidently recommend that the PCI studio continue within the curriculum. It serves as one of the most influential components of my experience at the University of Colorado Denver.

Samantha Strang
CU Denver '18
Associate AIA, LEED Green Associate



UMD University of Minnesota Duluth

For the University of Minnesota Duluth, the focus is on resilient precast.

Ben Dymond of the Department of Civil Engineering coordinates the program in conjunction with the Department of Civil Engineering, the Department of Mechanical and Industrial Engineering and the Master of Business Administration program. **John Saccoman** of Molin Concrete Products will be the industry champion for the program. This multidisciplinary educational program aims to combine the traditional approach to concrete engineering education with cutting-edge knowledge related to resiliency and business management.

Traditionally, engineers learn the basics of concrete design, while possibly discussing precast concrete, but they fail to investigate why to choose precast concrete or how does resilient precast concrete fit into an organizational dynamic. This program will address those questions and others while challenging students to push the envelope of resiliency in precast concrete.

The program will include new content in four courses taken during a student's junior and senior years. Once a student completes the courses they will have a special certificate on their transcript noting the special interest of the student in resiliency and precast concrete design. All students in the department will now be exposed to some precast concrete curriculum.

CE 4126 DESIGN OF CONCRETE STRUCTURES

This class is now required by UMD and about 50% of the content is about precast concrete. It includes a plant and jobsite tours, and students are able to reference a scaled precast structure with various connections that Molin permanently installed in the teaching lab as a demonstration tool. Students learned how to erect precast and studied a precast parking deck.

CE 4128 PRESTRESSED CONCRETE STRUCTURES

This class includes a precast plant tour and uses the PCI Design Handbook as a reference book throughout the semester. It introduces the students to Concise Beam design software used by Molin and incorporates a design project where students completed in the annual Big Beam Competition.

BUS 2400 FUNDAMENTALS OF ORGANIZATIONAL MANAGEMENT

This course presented students with a broad introduction to management processes and the complex world of managing in today's business environment.

CE 4255 SENIOR DESIGN CAPSTONE

Finally, an engineering capstone course will be the first course taught at the University with a focus on resiliency. Typically a senior design student takes information learned along the way in other courses and brings it all together for one project. This unique curriculum will be co-taught by **Mary Christiansen** and **Alison Hoxie**, a mechanical engineer specializing in thermal efficiency and resiliency. Students will work with a professor or Molin mentor on their project that may involve research and analysis of resiliency in precast concrete.



INDUSTRY PARTNERS

- Molin Precast
- PCI Midwest



University of Washington

2018 was the third year of the PCI Foundation Studio at the University of Washington, led by Associate Professor **Tyler Sprague**.

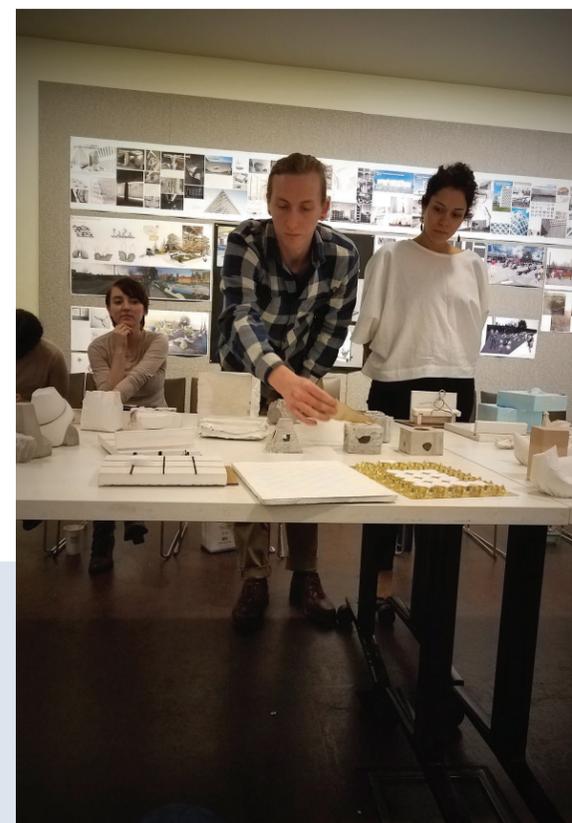
As in the previous year, the program started with a graduate-level architectural design studio in the Winter Quarter (January 2018, co-taught with **Jim Nicholls**) and has continued as a targeted graduate research study also in the Winter Quarter and into Spring. This program built off the experience of the previous year, allowing students to design with precast concrete in thoughtful yet responsible ways. The studio again connected students to the community of precast professionals in the Pacific Northwest, as a useful network in their emerging careers.

In the third and final year of the PCI Foundation Studio at the University of Washington, we allowed the students to expand the programmatic ambitions of the precast project. While previous studios started from specific programmatic requirements, this studio 'loosened the reins' and allowed students to use precast as the medium for a more open exploration of architectural potentials. Still dedicated to the durability and flexibility that precast offers, our studio encouraged students to open up new realms of precast possibilities within a drastically changing urban realm. With increasing density, growing inequity, and less reliance on single-occupancy/ owner vehicles, cities – and Seattle in particular – must create a more collaborative, adaptive built environment, and address challenges of municipal water reuse, urban food production, and public access to services while growing the strength of the community.

The studio was offered as Architecture 501, a required graduate-level studio at the University of Washington. In the Winter Quarter, studio had 11 graduate students enrolled and employed a graduate student assistant, **Sarah Chan** – a student from the previous year's precast studio. The 501 studio is commonly known as the "tectonic studio" because of the intensive focus on design development, materials, and structures. The studio

emphasizes inquiry into spatial section, structural form, tectonic 2 syntax, material choice, and detail development. Objective constructional constraints and subjective contextual and cultural responses are equally valued.

The program impacted many architectural students in a variety of ways – including the design studio context, and as an active material research project. While the initial phase of the program may be ending, the legacy of the precast continues to echo through the program. The graduate students in the studios – as alumni of the program. Through the combination of design studio and research programs, this work gives architecture students an in-depth understanding of the material and design potentials of precast concrete.



INDUSTRY PARTNERS

- Berger/ABAM
- Concrete Technology Corp.
- DLR Group
- Knife River
- Oldcastle
- Vector Structures



University of Wisconsin Milwaukee

The Spancrete Studio at University of Wisconsin, Milwaukee was the first precast studio and the inspiration for all the PCI Foundation grants that came after it. In 2018, Spancrete opted to fold its program into the PCI Foundation programs in order to take advantage of the national programming that the grants enjoy.

Professor **Gil Snyder**, who has overseen the program almost since its beginning in 2006, used the excitement surrounding the development of FoxxConn coming to Milwaukee area to work with students on a new headquarters for the company that would include live/work space in downtown Milwaukee.

This studio is grounded in design exploration to a high level with the material concrete and specifically its application in precast/prestressed concrete assemblies. It took a traditional studio approach, with students working in collaborative teams for the semester. The studio experience is enriched by productive team work that closely models best practices in the profession today. The scale of the exercises and projects in this studio allow for ample individual expression within the context of a team project and all students are expected to contribute to a positive and productive dynamic within the team setting.

A sloped site in downtown Milwaukee provided students with challenges. **Clinton Krell** of Spancrete, who has been the chief Spancrete liaison to the studio, worked with the students on their designs throughout the semester, visiting for desk critics, touring students through the plant, and maintaining regular contact as questions arose. Other architects and engineers also provided assistance during the mid-term and final reviews.

Another focus this year was looking at how building technology was changing precast concrete design. "Advances in Building Information Modeling have blurred the boundaries between the role of the architect and the role of the contractor," says Gil Snyder. We were able to use robotic equipment at early stages of the design process to physically prototype ideas to a high level of detail. An underpinning of this Studio is to gain a familiarity and competence with these new digital equipment advances."

INDUSTRY PARTNER

- Spancrete



Jim Clark

Jim Clark, the founder and former president and chairman of Clark Pacific in West Sacramento, Calif., died November 13, 2018. He was 87. Clark started preparing for a career in construction when he was still in high school. He spent summers working as a boilermaker's helper in a structural steel shop.



He attended college at University of California, Berkeley, and graduated in 1953 with a civil engineering degree focusing on structures. He joined the Marine Corps and spent two years on active duty. When he was discharged in 1955, he took his first official job in the industry as a junior structural engineer for John A Blume and Associates, where he spent seven years.

He went on to work for Continental Heller, a general contracting company where he met Mike Heller, founder of Continental Heller Construction Co., in Sacramento, and eventually founder of Tecon Pacific, which later became Clark Pacific in the mid-1960s.

Clark ultimately became vice president and general manager and in 1978 became a 50% partner. He and his sons bought Heller's interest in the company in 1988. He made many contributions to the precast/prestressed concrete industry, serving on the PCI Board of Directors and on many committees and as president of the Precast/Prestressed Concrete Manufacturers Association of California Inc., now PCI West.

Jim Clark's family and friends chose to honor his contributions to the precast industry by creating a special fund at the PCI Foundation in his name. Contributors include:

- Clark Pacific
- PCI West
- Weldon Sikes
- Robert Konoske
- Precast/Prestressed Concrete Institute

Founders Challenge

Founding Donors, Jim Voss of JVI Inc. and Jim Sorenson of EnCon United, set out to challenge others in the industry to make sustained and meaningful contributions to the PCI Foundation, while also tripling the impact of that gift. In 2018, they launched the Founders Challenge.

Both of them would match any company or person who stepped up with a \$5000 a year pledge for 5 years - up to \$50,000 a year. The companies who accepted the challenge were:

- ALP
- Florida Prestressed Concrete Association (& William Nickas)
- Hamilton Form
- High Concrete
- PCI Gulf South
- Prestressed Casting Co
- Spillman Forms
- Standard Concrete Products



FUND

RAISING



Concrete Chefs

Over the last few years, the one thing that has made PCI Committee Days special is the opportunity for everyone in the industry to gather together for an evening of industry fun and camaraderie - outside of the meeting rooms and hotel hallways - to just have fun and get to know everyone in the industry together.

A crowd of more than 300 gathered at JVI headquarters in Lincolnwood, IL to as a fundraiser for the PCI Foundation. This is the 12th year of the event. The event raised just over \$12,000 for the Foundation, which provides schools of architecture, engineering and construction management with curriculum development grants to create experiential learning based programs about precast concrete.



The dinner celebrates those PCI Foundation "Team" members who have made an individual personal commitment to help fund the PCI Foundation. Each year, these individuals make monthly, quarterly or annual personal donations to the Foundation, which total about \$60,000 per year. To become a PCI Foundation Team Member, visit the PCI Foundation website at PCI-foundation.org.



Casino Night Wins Big Approval at PCI Convention

The PCI Foundation "After Dark" Fundraiser, that has been sponsored for several years by BASF, Hamilton Form and Thermomass, and took on a new spin this year as a fun Casino night. Attendees played craps, roulette, Texas hold em and Blackjack in order to win raffle tickets for a selection of prizes. Chairman of the event was Nancy Peterson of Rocky Mountain Precast.

Prizes for the evening were donated by:

- Cuban & Dominican Cigar Packages (Architectural Polymers)
- Drone (ALP)
- Bourbon of the Month Club (Plant Architects + Plant Engineers)
- Bose Headphones (Leader Graphics)
- Cubs Tickets (Fister Quarries)
- Samsung Tablet (Canadian CPCI)
- Massage Envy Gift Card (US Formliner)
- PCI (Fitbit & Headphones)
- Marty & Steve McIntyre (Lottery Ticket Tree)





PCI Barbecue Competition

The PCI Barbecue Competition for several years, a couple companies have really made a commitment to doing something special with it every year. This year, the competition was pretty fierce, and I would be remiss if I didn't mention that Tindall Precast in Conley Georgia raised \$15,161.00 and Wells Concrete raised \$14,500. All together the Barbbeques raised \$71,479.52.

This year's winner was Gate Precast Jacksonville who raised \$15,900 to help fund education programs around the US. The team received its Pig on a Stick trophy at the

2019 PCI Convention and chose to take its prize as two smaller grills instead of one large grill.



Other prizes awarded in 2018 include:

- Student Attendees Award Gate Precast - Winchester, KY
- Most Unique Menu Item - Smoked Bologna Logs Gate Precast - Ashland City, TN
- Most Attendees Gate Precast - Ashland City, TN
- 100% Award (100% of Employees Attended) Gate Precast - Ashland City, TN
- Best Theme - Carnival Gate Precast - Kissimmee, FL
- 100% Award (100% of Employees Attended) Gate Precast - Kissimmee, FL
- 100% Award (100% of Employees Attended) Gate Precast - Pearland, TX

Many Thanks to all the plants that participated

- Gate Precast - Jacksonville
- Tindall - Conley, GA
- Wells Concrete
- Gate Precast - Winchester
- Gate Precast - Hillsboro
- Gate Precast - Ashland City
- Gate Precast - Pearland
- Gate Precast- Monroeville
- Gate Precast - Kissimmee



Leadership Circle

What is the Leadership Circle? Some of the most committed donors have stepped up in the last 10 years to help the PCIF become exceptional. We are grateful for their generosity and feel it is important to recognize supporters who have contributed to the PCI Foundation's success over time.

To that end, we have singled out a "Leadership Circle" to recognize the cumulative giving of the select few who have carried the largest share of the PCI Foundation through its humble beginnings to our current robust programs.

Corporate Givers

Platinum Circle \$500,000 +
Gate Precast
JVI Inc.

Gold Circle \$250,000 - \$499,999
Coreslab Holdings US Inc.
EnCon United
The Shockey Group

Copper \$150,000 - \$249,999
Blakeslee Prestress
Metromont Corp.

Bronze Circle \$50,000 - \$149,999
BASF Construction Chemicals Inc.
Charles Pankow Foundation
Clark Pacific
Consulting Engineers Group
Hamilton Form
Oldcastle Precast Building Systems
Ross Bryan Associates
SIKA
Spancrete
Tindall Corp.
Wells Concrete

Individual Givers

Platinum \$50,000 +
Jim Voss

Gold \$25,000 - \$49,000
Gary Oaks
James Sorensen

Silver \$10,000 - \$24,999
Ned Cleland
Thomas & Marie D'Arcy
Donald L. Faust Jr.
Bruce Hartup

Thomas Hsu
Daniel Jenny
Ed Knowles
Robert Konoske
Michael Malsom
Clyde Poovey
Don Rath

Bronze \$5,000 - \$9,999

Matt Cherba
Theodore Coons
Greg Force
Dean Gwin
Dr. Neil M. Hawkins
Patrick Hynes
Mike Lanier
Chuck Magnesio
Robert S. McCormack
Martha McIntyre
Marianne Methven
Christopher J. and Tina Pastorius
William F Simmons III
Doug Sutton
Paul & Dora Zia

Givers \$1,000 - \$4,999

Todd Adams
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Amanda Airey
Douglas Bauer
Roger Becker
David Chapin
Ray Clark
William J. Clayton
Bill Daily
Tim Divinski
John Dobbs
Peter Finsen

Skip Francies
Greg Gibbons
Leon H Grant
Carl Harris
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Cumulative Donations Received January 1, 2001 - December 31, 2017

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Patron \$500,000 +

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Partner \$250,000 - \$499,999

Metromont*

Wells Concrete *

Sponsor \$100,000 - \$149,999

Clark Pacific*

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Tindall Corp.

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BASF Construction Chemicals Inc.*

Consulting Engineers Group

Hamilton Form*

Kerstra Precast*

Molin Concrete Products*

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Sumiden Wire Products Corp.*

Leader \$10,000 - \$24,999

ALP Supplies*

Blakeslee Prestress, Inc.

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Gage Brothers Concrete Products

Gate Precast

PCI Gulf South*

Ross Bryan Associates, Inc.*

Standard Concrete Products*

Friend - \$5,000 - \$9,999

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PCI

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United Brothers Development Corporation

Universal Forest Products

US Formliner, Inc.

VCC, LLC

Vulcan Materials Company

WMC Sales

2018 Individual Donors

Platinum \$50,000 +

Jim Voss

Bronze \$5,000 - \$9,999

Ted Coons

Copper \$1,000 - \$4,999

Todd Adams

Ned Cleland

Leon Grant

Dean Gwin

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Patrick Hynes

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All donations received between January 1, 2018 and December 31, 2018

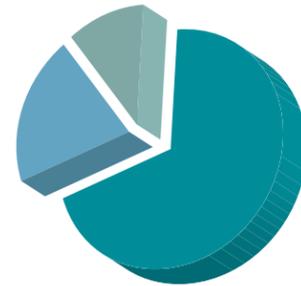
*Part of a multi-year pledge

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2018 FINANCIAL HIGHLIGHTS

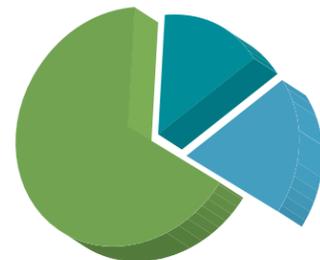
REVENUE

Corporate	\$417,743
Personal	\$119,141
Special Events	\$64,381
TOTAL CONTRIBUTIONS	\$601,265



ASSETS

Checking	\$250,171
CD's	\$300,000
Investments	\$1,068,726
TOTAL ASSETS*	\$1,618,897



*as of 2/31/2018

EXPENSES

Awards & Grants	\$288,000
Student & Professors Travel	\$43,000
Professors Seminar	\$18,000
Alan Mattock Scholarship	\$4,000
Special Events	\$10,000
Support Services	\$167,000
TOTAL EXPENSES	\$530,000



GRANT COMMITMENTS	2018	2019	2020	2021
Arizona State University	\$25,000	\$20,000	\$20,000	\$20,000
Clemson University	\$20,000	\$20,000	\$20,000	
Colorado State	\$25,000	\$25,000	\$15,000	\$16,562
Georgia Tech	\$25,000	\$25,000	\$25,000	
North Carolina State University	\$25,000	\$25,000	\$25,000	
Sacramento State	\$25,000	\$25,000	\$25,000	\$25,000
Tulane University	\$25,000	\$25,000	\$25,000	\$25,000
University of Arizona	\$25,000	\$25,000	\$25,000	
University of Colorado Denver	\$25,000	\$20,000	\$20,000	\$20,000
University of Michigan		\$25,000		
University of Minnesota Duluth	\$25,000	\$25,000	\$25,000	\$25,000
University of Washington	\$25,000			
University of Wisconsin Milwaukee	\$18,000	\$18,000	\$18,000	
TOTAL Paid out (or committed)	\$288,000	\$278,000	\$223,000	\$131,562



What's Ahead In 2019 and Beyond

In 2019 the Foundation will continue bridging to the future with a new look and will be launching dynamic new programs. The website will be redesigned with fresh content and interactive features, new videos and photography will tell our story across social media channels and we'll kick-off a new student design competition called Project Precast.

We have miles to go but are on our way to reaching the students, professors and journalists who will send our message wide and far to make a difference in tomorrow's precast industry.

The PCI Foundation relies on members of the precast concrete industry to fund its programs. Thanks to the many generous donations we have received, PCIF is on the brink of even greater success should we obtain more support. To make a donation to the PCI Foundation, please utilize the enclosed envelope or visit our website (pci-foundation.org) or call

Marty McIntyre directly at 708-386-3715.





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Chicago IL 60606-5230
Phone 708.386.3715
pci-foundation.org