

# University of Arizona

## Construction Engineering Management

### Spring 2021 Update



## ***Connecting industry and students***

[Construction Engineering Management \(CEM\)](#) at the University of Arizona has had a great year. Industry and alumni partnerships have continued strong, student construction clubs transitioned to virtual meetings, students are obtaining meaningful experiences in construction internships, and graduates are starting great careers in the construction industry. The photos above show virtual construction site visits provided by Granite, Harper, and Whiting-Turner. This spring, KE&G and Hensel Phelps joined Sundt and Borderland with multiyear corporate commitments to financially support CEM. Read more about this and other CEM highlights below. Your generosity matters and helps CEM train the next generation of construction engineers.

Spring highlights include:

- Construction student profiles,
- UA Rise Together Mentoring,
- KE&G and Hensel Phelps donations,
- 2021 donors to CEM,
- Design-Build team for ASC Reno, and
- Industry speakers and virtual construction site visits.

## **Meet our construction students**

***Adam Bishop***

***UA Civil Engineering (BS May 2021)***

*Adam has been the president of the UA Chapter of the Associated General Contractors (AGC), captain of the heavy civil team, and construction lead for his senior design team. Adam was also this year's UA Beavers Heavy Construction Scholarship recipient. Internship experiences helped solidify Adam's direction in heavy construction. Adam is joining McCarthy Building Companies in the renewable energy sector.*



**Shiann Claridge**  
**UA Architectural Engineering (BS May 2021)**

*Shiann has been the president of the UA Chapter of the Design-Build Institute of America (DBIA), captain of the design-build team, and an Engineering Ambassador. Shiann started a summer internship with DPR after her sophomore year and kept working part-time through the school year for the next two years. She says the synergy between courses and interning enriched her time at U of A. She is joining DPR full time upon graduation.*



**Donations to the CEM Endowment**

This spring two new gifts have been made to help fund the CEM Endowment, KE&G announced a four year gift totaling \$60,000 and Hensel Phelps announced a three year gift totaling \$30,000. These



generous gifts move CEM closer to a sustainable funding position. KE&G and Hensel Phelps have been assisting CEM with class presentations, construction site



**HENSEL PHELPS**  
Plan. Build. Manage.

visits, internships, and full-time hires. *“You are doing a great job with the program and we are glad to support CEM.”* said Chris Albright, KE&G president. Steve Graur, Vice President/Western District Manager for Hensel Phelps adds, *“We are looking forward to what the Class of 2021 achieves in the years ahead.”*

Thanks to our corporate program partners

**Borderland \* Sundt \* KE&G \* Hensel Phelps**  
**Henry George Mackintosh Foundation**  
**Gervasio and Associates \* Chevron**

Thanks to our individual donors to CEM





**Barry Abbott, David Areghini,**  
**Travis & Shannon McCarthy,**  
**Nic Trandai, Phil Hall, Sal Caccavale,**  
**Matthew McDole, Dave Zaleski**



## UA Rise Together Mentoring

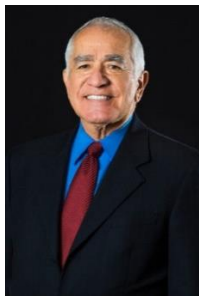
The mission of UA Rise Together is to provide professional development and networking opportunities for UA women studying civil, architectural, and construction engineering. Students and mentors have met virtually this year. Our virtual spring event was an amazing panel of young UA alumni who discussed their experiences in the first five years on the job. Sincere thanks to our UA Rise Together steering committee: Edie Griffith-Metty, Priscilla Cornelio, Amy White, Samone Marquez, and Dean Papajohn.

## UA Rise Together Alumni Panel

			
<p><b>Kari Nelson</b> (BS 2015) Civil Engineer and Project Manager with Kimley-Horn</p>	<p><b>Katie Wood</b> (BS 2015) Project Engineer for Turner Construction</p>	<p><b>Miranda Jackson</b> (BS 2018) Civil/transmission engineering for Tucson Electric Power (TEP)</p>	<p><b>Lissette Flores</b> (BS 2017) Project Engineer with Hensel Phelps</p>

## Engineering Leadership Seminar

Each spring for the past seven years we have offered a seminar course titled *ENGR495 Engineering Leadership*. This seminar draws students from throughout the College of Engineering. A unique and meaningful component of this seminar is the professional mentoring students receive. This spring our mentors adapted to virtual mentoring and did a fantastic job. Sincere thanks to our mentors: Barry Abbott, John Bernal, Priscilla Cornelio, Phil Hall, and Tom McGovern.



# Industry Speakers & Virtual Construction Site Visits

This spring our industry speakers have risen to the challenge of presenting via Zoom. The real-life experiences our industry partners share always resonates with our students.

- Amanda Wittenborn, John Mullverhill, Kurt Rice, and AJ Stetson (**KE&G**) – Virtual site visit of Kolb Road and Sunrise Drive
- Ron Harper, Jeff Harper, Christian Harper, Scott McFarlane, Jason Ridings, and Neil Umpstead (**Harper Construction**) – Project management, design management, BIM, and VDC
- Javier De Echavarri (**ADOSH**) – Construction safety
- Ian McDowell (**Sundt**) – RFIs
- Matt Spaulding (**Sundt**) – Virtual site visit of the Monastery Apartments
- Cameron Evans (**J.H. Findorff**) – Virtual site visit of the HUB IV campus housing
- Eduardo Araiza, Taylor Pallan, Gustavo Montoya, Octavio Montoya (**Whiting-Turner**) – Virtual site visit of the Adeline luxury apartments, Phoenix
- Bob Martinez and Will Vail (**Granite**) – Quantity takeoff, Bluebeam, and cost estimating
- Alexander Lee (**McCarthy**) – Virtual site visit of the Integrated Science and Technology Building #7, ASU campus
- Ryan Byers and Billy Farris (**Holder**) – Site logistics
- Billy Farris, Zack Brown, and Mark Boykin (**Holder**) – Virtual site visit of a data center
- Tim Bee and Tom Dunn (**ABA**) – Industry associations and the politics of construction
- Jake Parduhn (**DPR**) – General contractor coordination of subcontractors
- Naresh Samtani (**NCS Georesources**) – Geotech for construction managers
- Eric Cylwik (**Sundt**) – Virtual design and construction
- Ben Genzman and Ryan Genzman (**GR Financial Group**) – Personal finances for engineers
- Grey Major (**KE&G**) – Project monitoring and control
- Chase Farnsworth (**Mortenson**) – Lean construction and pull planning



Table with columns: Cost Code, Description, Unit, Qty, Total Cost, UC, Qty, Total Cost, UC, UC Variance, Qty, Total Cost, UC, UC Variance. Includes a logo for KE&G.

Cost Code	Description	Unit	Budget			Daily			To Date				
			Qty	Total Cost	UC	Qty	Total Cost	UC	Qty	Total Cost	UC		
100750	POTHOLING	EA	41	\$25,813.34	\$428.58	8.00	\$181.80	\$87.81	\$592.28	218.00	\$116,485.31	\$488.66	\$195.88
100800	MAN PPS	LF	28811	\$186,184.88	\$104.87	51.00	\$615.52	\$14.86	\$14.86	2756.00	\$29,889.08	\$14.18	\$8.32
102512	LOAD SCREENED MATERIAL	CY	32743	\$13,747.06	\$64.24	499.50	\$386.62	\$5.80	\$5.80	4396.50	\$1,861.50	\$5.85	\$6.35
102900	PLACE BACKFILL SMALL	CY	18779	\$46,007.06	\$245.72	75.00	\$1,430.91	\$18.95	\$5.87	880.00	\$21,909.88	\$28.76	\$5.74
104911	INITIAL P SERVICE	EA	59	\$1,718.48	\$29.13	3.00	\$1,475.00	\$491.48	\$184.17	3.00	\$6,291.32	\$675.99	\$92.38
115100	18 TYPE 3 PPS	EA	46	\$184,184.84	\$4,000.00	0.33	\$899.13	\$8,027.47	\$300.27	7.80	\$29,111.04	\$8,743.82	\$1,171.74
115100	18 TYPE 4 PPS	EA	29	\$77,076.00	\$2,656.81	0.40	\$1,044.81	\$1,044.81	\$96.74	3.00	\$8,284.41	\$2,810.89	\$4,473.52
201300	FLAGGING	MRS	1800	\$84,107.43	\$46.73	20.00	\$171.97	\$18.80	\$6.16	193.00	\$8,284.79	\$21.08	\$8.47



## Thank you

On a personal note, I am pleased to report that UA has promoted me from associate professor of practice to professor of practice. I am grateful for the strong alumni and industry partnerships that have made CEM such a success and positioned CEM for additional growth under the College of Engineering's expansion plan. Your involvement and gifts are making an impact on students and the construction industry. Thank you for your partnership.

Sincerely,

*Dean Papajohn*

Dean Papajohn, PE, PhD, ENV SP, Assoc. DBIA  
Professor of Practice  
Civil & Architectural Engineering and Mechanics  
*May 19, 2021*

## Giving

You can give online at [Give Today](#) or checks can be written to the UA Foundation and sent to:

*Johanne Ives, Aero & Mech Engineering Building, N515, Tucson, AZ 85721*

Please designate your gift for either

- *CAEM Construction Engineering Management (CEM) General Fund* (for current operating expenses) or
- *CAEM Construction Engineering Management (CEM) Endowment* (for building a sustainable funding source for CEM).

Automatic monthly or one time gifts can be set up. Thank you!

