Dear Alumni, Friends and Partners of the Department

We are so very happy to share the highlights of another great academic year with the Construction Science and Management (CSM) department at Clemson. We have a great deal to be thankful for. First, our undergraduate CSM degree program successfully underwent national re-accreditation by the American Council for Construction Education (ACCE) in March of this year. We also had two of our Tenure Track Assistant Professors, Drs. Jason Lucas and Joe Burgett receive confirmation of Tenure and Promotion to the rank of Associate Professor in the CSM department in May. Finally, have been able to hire several new faculty members to help with the ongoing delivery of our construction education programs.

We also celebrated 65 new CSM graduates during the 2018/2019 academic year; 58 undergraduate, and 7 graduate students. Thanks to you, our generous industry supporters and alumni, these new graduates have all received challenging and increasingly rewarding employment opportunities within the construction industry (100% job placement). With forecasts of continued optimism for the construction economy, we continue to experience growing enthusiasm toward our CSM degree programs. This enthusiasm, combined with the recent national championship successes of the Clemson Tigers football program, has significantly increased competition for entrance into the university and the CSM major. As we all know, increased competition tends to result in higher quality. In summary, the Clemson CSM department has been blessed with a confluence of factors that have ultimately led to the highest standard of quality in construction education, and unprecedented brand recognition!

Regarding the future, we continue to pursue distance learning opportunities for our non-traditional students, and are making progress toward the development of a proposed CSM Construction Yard and Simulated Construction Field Office Laboratory (SCFOLD) at the Ravenel Research Center. This facility will provide a simulated jobsite environment for our students, faculty, and staff to kick up a little dust and introduce more hands-on activities into the traditional on-campus CSM undergraduate curriculum. CarolinaPower through its parent company’s PPC Foundation Inc., has generously contributed $25,000 as a challenge gift toward the development of this facility, and we hope you will also consider contributing at any level you deem appropriate.

In closing, we are grateful for all that each of you do to make us better. These are amazing times at Clemson, and the CSM department is prospering. We hope you will come see us when in the area, and please do pardon our dust, we are building for the future. If I can ever be of assistance in any way, please don’t hesitate to call on me.

Go Tigers!

Respectfully,

N. Mike Jackson, Ph.D., P.E.
Department Chair and Professor
THE CSM DEPARTMENT

Mission
The Mission of the Department of Construction Science and Management (CSM) is to offer a comprehensive program of education, service and research activities consistent with the Mission of Clemson University and the Strategic Plan of the College of Architecture, Arts and Humanities (CAAH), for the purpose of improving the quality of the construction industry and thus the built environment.

To realize this mission, the department has the following major goals:
1. Excel in the education of CSM majors through a vigorous program of academic learning designed to produce motivated, well-educated, responsible citizens with the management and technical skills requisite for leadership positions in the construction industry;
2. Provide meaningful and relevant education in all construction courses for other undergraduate and graduate students at Clemson University;
3. Foster Clemson University’s service mission by providing outreach activities for the construction industry and public, both nationally and internationally;
4. Assist in attaining Clemson University’s funded research goals by conducting and disseminating the results of research and development and/or conduct educational courses for the construction industry.

Origins and History of the CSM Department
The first courses in the undergraduate building construction program at Clemson University were offered by the School of Architecture in the 1963-64 academic year. This program was initiated in response to the demand by the South Carolina construction industry for individuals educated in the special technological and managerial skills of the construction profession. The first degrees from this initial program were awarded in May of 1966.

In 1971, the Department of Building Science became one of the original four departments of the College of Architecture. This department was a charter member of the Associated Schools of Construction and actively participated in the formation of the American Council for Construction Education. The name of the department was changed to Construction Science and Management (CSM) in 1991. In 1986 the department received approval and began to offer the Master of Science degree in Construction Science and Management. In 1992 the department also received approval to offer its Master's Degree via distance learning. The bachelor’s and master’s degree programs are accredited by the American Council for Construction Education.

In 2004, the CSM Department, in collaboration with the School of Architecture and the Department of Planning and Landscape Architecture initiated a PhD Program in Planning Development and the Built Environment (PDBE). The Department currently consists of nine (9) full-time faculty, six (6) part-time faculty, and two (2) staff members. The Department also has a research and professional development component – the Center for the Improvement of Construction Management and Processes (CICMP). Since its inception, the department has awarded about 1800 bachelor’s degrees and over 250 master’s degrees (through May 2019).
DEPARTMENT NEWS

CONSTRUCTION INDUSTRY AWARDS

The CSM Department presented two construction industry awards at the spring Industry Advisory Board (IAB) meeting on February 28, 2019, along with recognizing the 2019 CSM Department student award winners.

2019 CSM Construction Hall of Fame Award

The Clemson CSM Construction Hall of Fame Award recognizes the accomplishments of those who have distinguished themselves throughout their careers in construction. Nominees must be recognized for their contributions to the construction of quality facilities and have the esteem of their peers, be currently active in their profession, have served in leadership positions in construction industry organizations, have been active in their community and have supported the Clemson CSM department. He or she need not be a graduate of Clemson University.

The 2019 award recipient is Mr. Ken Loveless. Ken is president of Loveless Commercial Contracting, the commercial/industrial general contracting company he founded 32 years ago. Mr. Loveless has a Bachelor of Science degree from Clemson University and a Master’s of Business Administration degree from the University of South Carolina.

Mr. Loveless has contributed much time and volunteer effort in support of public schools in School District Five, including serving on the citizen-advisory board of the Center for Advanced Technical Studies and helping establish the District 5 Foundation. He has personally helped fund programs related to math and engineering, including the project-based Math Matters program and the Leaphart LEAP engineering magnet program.

His extensive community involvement also includes ten years as chairman of the Town of Chapin Architectural Review Board and six years as a board member of the Greater Chapin Community Endowment. He served as a Cub Scout leader and Boy Scout Master for 11 years, as well as a Christian baseball league coach for multiple seasons. He’s also a member of the Clemson Architectural Foundation and the Anna Calhoun Clemson Society.

2019 CSM Distinguished Alumnus Award

The CSM Distinguished Alumnus Award is given annually to an alumnus of Clemson University’s CSM Department who graduated a minimum of 10 years prior to the award. Nominees must have distinguished themselves since graduation in a construction field and have demonstrated consistent support of the CSM department since graduation.

The 2019 award recipient is Mr. Kenny Garner. Kenny is an experienced Project Manager at Fluor Corporation, with a demonstrated history of working in both the engineering and the construction industry on automotive, chemical, food, and advanced manufacturing projects. He is skilled in Project Initialization, Constructability, Contract Management, and turning Design into Construction, and Construction into Operations. Kenny earned his undergraduate degree in CSM from Clemson in 1992, and actively serves on the CSM Industry Advisory Board, Executive Committee.
The College of Architecture, Arts and Humanities (CAAH) also inducted two of CSM’s longstanding industry supporters into its Hall of Fame during a dinner held at the Clemson Madren Center on Friday, March 8, 2019. Dean Richard E. Goodstein created the CAAH Hall of Fame in 2017 to honor alumni, members of the faculty and staff, and friends of the College who are recognized as leaders in their professions or have made a significant impact on the educational, research and service goals of the College.

C. Douglass Harper – Doug Harper graduated from Clemson University with honors in 1974, earning a Bachelor of Science in Building Construction. Upon graduation, he joined the family firm and embarked on a nearly 50-year career in the construction industry. His role at the company now is Chairman.

After becoming President in 1985, he led Harper General Contractors into becoming one of the largest construction firms in the Southeast. The firm now has five offices and employs more than 45 Clemson graduates. Harper is based in Greenville, S.C.

Harper has stayed active with Clemson, serving on the Board of Visitors, as Chair of the CSM Advisory Committee, President of the Clemson Advancement and Foundation for Design + Build, and led the task force on what was to become the CU-ICAR campus in Greenville.

In 1999, he was named among the first Alumni Fellows for the College of Architecture, Arts and Humanities and in 2011 he received the Distinguished Alumni Award from the Clemson CSM Department. The Harper Corporation donated the lead gift that established the Endowed Faculty Chair in the CSM Department. The company also provides an annual scholarship for minority students in the CSM program, among its other support.

Harper believes staying involved in the community and industry is important. He has served as a past chair of the Upstate SC Alliance and the Building Division of the Carolinas AGC and is the current Chairman of the South Carolina Conservation Bank. He recently received the Conservationist of the Year Award from Upstate Forever.

William A. Caldwell – Bill Caldwell’s 45-year construction industry career includes 20 years in the mechanical specialty contracting field and 25 years with a general contractor. Caldwell’s upward career trajectory in project management, sales, operations and executive leadership culminated in his current role as Chairman and CEO for Waldrop Mechanical Services. Waldrop is based in Greer, S.C., and is a longtime corporate partner of the CSM department.

Caldwell has served on the CSM Industry Advisory Board (IAB) since 2012 and it’s Executive Committee since 2015. He received the prestigious CSM Construction Hall of Fame Award in 2017. Caldwell has also served multiple terms on the Board of Directors of the Associated Builders and Contractors- Carolinas Chapter and was the Board Chairman in 2011. He has also served on the various boards including the Mechanical Contractors Association of South Carolina, the Boys & Girls Club of the Upstate, and the Easley Hospital Foundation.

Under Caldwell’s leadership at Waldrop, the firm enjoyed substantial revenue and equity growth as it became a recognized leading full service mechanical contracting firm in the regional industrial, commercial, institutional, and healthcare markets, while increasing its market share in its residential and maintenance businesses.
FACULTY & STAFF HIGHLIGHTS

Drs. Jason Lucas and Joe Burgett Receive Tenure and Promotion to the Rank of Associate Professor

After six years of dedicated service to the CSM department, Drs. Jason Lucas and Joe Burgett have been awarded Tenure and Promotion to the rank of Associate Professor in the department. Please join me in congratulating these two rising stars in construction education and research for a job well done! We look forward to many more years of excellence from these two accomplished educators.

Dr. Dennis Bausman Receives Large SCDOT Grant

Dr. Bausman has been awarded a grant from the South Carolina Department of Transportation (SCDOT) in the amount of $349,383 for support of a project entitled “SCDOT Project Development Process: Update and Best Practices.” This grant started January 1, 2019 and will end February 28, 2021. As part of this research, Dr. Bausman will collaborate with Dr. Mashrur "Ronnie" Chowdhury from the Glenn Department of Civil Engineering and Mr. Matt Lifsey of Neel Schaffer, Inc. to review and update SCDOT’s Project Development Process (PDP).

Professor Bausman currently holds the prestigious CSM Endowed Faculty Chair position in the department, and has been a valuable mentor, advisor and significant contributor to the CSM department, faculty and students since 1996.

Dr. Dhaval Gajjar Receives First NRCA Funding

Dr. Gajjar has been awarded a grant from the Roofing Industry Alliance for Progress, the Foundation of the National Roofing Contractors Association, in the amount of $68,802 for support of a project entitled “Bringing Awareness to the Roofing Industry by Developing and Implementing Roofing Focused College Courses.” This grant will enable Dr. Gajjar to develop both undergraduate and graduate coursework within the CSM curriculum to specifically address construction issues related to the roofing industry. This is the first external grant received by Dr. Gajjar – and in his first year at Clemson. This is and a strong indicator of Dhaval’s exceptional long-term potential as a construction educator and scholar in the CSM department at Clemson. Congratulations on the excellent first year Dr. Gajjar. We look forward to many more!
Dr. Vivek Sharma, New Assistant Professor
Dr. Vivek Sharma joins the CSM Department in the Fall semester of 2019 as a Tenure-Track, Assistant Professor. Vivek received his PhD in Civil Engineering - Construction Engineering and Project Management from the University of Texas at Austin in 2017. He has served as a Senior Lecturer in the Department of Engineering Technology at Texas State University since 2009. He has also served as an Account Manager/PI for the National Health Care Facility Benchmarking program since 2012. An external benchmarking program developed and implemented at the Construction Industry Institute (CII), funded by the U.S. Department of Veteran Affairs (VA) and the U.S. Department of Defense (DoD) / Military Health System (MHS). Dr. Sharma also has over four years of construction industry experience in preconstruction and project management with Kitchell Corporation of Phoenix, AZ.

Mrs. Harnish Sharma, New Full-Time Lecturer
Mrs. Harnish Sharma also joins the CSM Department in the Fall semester of 2019 as a new full-time Lecturer. Harnish earned her Bachelor’s of Architecture from NIIT, Raipur, CG India in 2001, and her Master’s of Science in Technology Management, with a Specialization in Construction Management from Texas State University in 2016. She has been a Lecturer in Construction Science & Management at Texas State University since 2016. She also brings with her over five years of industry experience with several architectural firms, including: Assistant Project Manager/Architectural Designer with Thompson Pollari Studio, Scottsdale, Arizona; and Architectural Interior Designer with Hayes Inc. Architecture/Interiors, Phoenix, Arizona.

Mrs. Cathy Nove-Josserand, New Part-Time Lecturer
Mrs. Nove-Josserand joins our faculty in the Fall semester of 2019 as a part-time Lecturer. Cathy earned her MBA in 1988, and has over 30 years of industry experience, including Corporate Financial Controller for Barnett Brass & Copper, Jacksonville, FL; Rate Regulation Director for General Development Utilities, Miami, Florida; International Advisor, Research Triangle Institute, NC; and Lead Water & Sanitation Specialist, International Bank for Reconstruction and Development (World Bank), Washington, DC and New Delhi, India. Cathy will teach the Construction Economics Seminar course and assist with the development and delivery of new undergraduate CSM courses going forward.

Mr. Anthony Harden, Part-Time Lecturer
Mr. Harden joined the CSM faculty in the Spring semester of 2019 as a part-time Lecturer. Anthony has over 35 years of experience with ENR Top 100 Contractors in all facets of the design and construction process. He is currently president of Princeton Construction Service Group. He received his Bachelor of Science degree in Civil Engineering from the University of Tennessee. He is a Licensed Professional Engineer and Licensed General Contractor. Mr. Harden developed and delivered a distance-learning option for the CSM 3530 – Construction Estimating II course in the Spring semester, and we hope he will return in the Spring of 2020 to continue this valuable service to our students.
CONSTRUCTION INDUSTRY ACTIVITIES

CSM Industry Advisory Board

The CSM Industry Advisory Board (IAB) met last on February 28, 2019 on the same day as the last CSM Construction Industry Career Fair. Membership on the CSM IAB is open to all individuals interested in supporting and promoting the CSM department. The minimum annual donation to become a CSM IAB member is $100 (or $25 a year for the first three years following graduation for recent graduates of the CSM undergraduate and graduate programs). To join the CSM IAB online, please go to:
https://cualumni.clemson.edu/give/construction-science-and-management

The CSM IAB is led by an Executive Committee consisting of the following leadership team, as approved at the May 30, 2019 meeting of the Executive Committee:

Paul Mashburn, CSM IAB Chair
Doug Hunter, Immediate Past Chair
Leslie Armstrong, IAB ExComm Secretary
Gavin Axson, ABC of the Carolinas Representative
Stephen Foushee, Chair, Alumni Develop. Comm.
Kenny Garner, Chair, Curriculum Committee
Laurie Gregory, Chair, Facilities Develop. Comm.
Tim Heichelbech, Carolinas AGC Representative
Bradley Robinson, Corp. Partner Representative
Hassan Pressley, Vice Chair, Alum. Dev. Comm
Todd Usher, NAHB of Greenville Representative
Mike Jackson, CSM Department Chair

CSM Corporate Partner Program

Clemson’s CSM Corporate Partners include a group of leading construction companies that, collectively are dedicated to enhancing the educational experience of the CSM students at Clemson. Representatives from each member firm work with the department’s faculty and staff to ensure that Clemson’s CSM students have access to the best construction education possible and have the opportunity to contribute to the construction industry at the highest level possible upon graduation.

By introducing new technology to the faculty and students, sharing industry experiences in the classroom, and providing financial resources to the program, Clemson’s CSM Corporate Partners are helping to strengthen the foundation for the future of the construction industry. A listing of our current CSM Corporate Partner companies is presented on the following pages.

For more information on how your company can become a CSM Corporate Partner, please don’t hesitate to contact Ms. Leslie Armstrong, CSM Corporate Partner Program Coordinator at 864-656-9588 (ARMSTR3@clemson.edu).
2019-2020 CSM Corporate Partners

A M King, Charlotte, NC
AJ Bright Construction, LLC, Greenville, SC
Archer Western, Atlanta, GA
Balfour Beatty US, Charlotte, NC
BB&T, Spartanburg, SC
Bowen & Watson, Inc., Toccoa, GA
Brasfield & Gorrie, Atlanta, GA
CarolinaPower, Greer, SC
Carrol Daniel Construction, Gainesville, GA
C.F. Evans Construction, Orangeburg, SC
Choate Construction, Mount Pleasant, SC
Clayton Construction Co., Inc., Spartanburg, SC
Coakley & Williams Const. Inc., Bethesda, MD
Contract Construction, Ballentine, SC
DPR Construction, Atlanta, GA
Edcon, Inc., Peak, SC

Eldeco Inc., Greenville, SC
Fortune-Johnson, Norcross, GA
Fluor Corporation, Greenville, SC
Great Southern Homes, Irmo, SC
Greystar Dev. LLC, Houston, TX
Groundbreak Carolinas, LLC, Simpsonville, SC
H.G. Reynolds Co., Inc., Aiken, SC
Harper Corporation, Greenville, SC
Holder Construction, Atlanta, GA
Hood Construction, Inc., Columbia, SC
JE Dunn Construction, Atlanta, GA
Juneau Construction Co., LLC, Atlanta, GA
Loveless Commercial Contract., Inc., Cayce, SC
Mashburn Construction, Columbia, SC
M.B. Kahn Construction Co., Inc., Columbia, SC
McCrory Construction, Columbia, SC

Metromont Corporation, Greenville, SC
Patuxent Companies, Crofton, MD
Poettker Construction, Breese, IL
Reeves-Young, Sugar Hill, GA
Robins & Morton, Charlotte, NC
Rodgers Builders, Charlotte, NC
Ryan Homes, Greenville, SC
SteelFab, Inc., North Charleston, SC
T.D. Farrell Construction, Inc., Alpharetta, GA
The Whiting-Turner Contract. Co., Charlotte, NC
Thompson Construction Group Inc., Sumter, SC
Trident Construction, LLC, Charleston, SC
Turner Construction Co., Charleston, SC
Walbridge, Charlotte, NC
Waldrop, Inc., Spartanburg, SC
Watson Electrical, Greenville, SC
A Special Thank You to Mr. Chris Moore and CarolinaPower

The CSM department would also like to formally thank Mr. Chris Moore and CarolinaPower for generously contributing $25,000 as a challenge gift toward the development of our proposed CSM Construction Yard and Simulated Construction Field Office Laboratory (SCFOLD) at the Ravenel Research Center. These initial resources – funded by the foundation of CarolinaPower’s parent company, PPC Foundation, Inc. - have allowed the project to launch with preliminary design and permitting. We hope this challenge gift will also encourage others to consider contributing to this exciting project, as we plan to break ground with phase I site work in the very near future.

CSM Hosts 28th Annual Alumni Golf Tournament

The 2019 CSM Alumni Golf Tournament was held on April 11th at Clemson University’s beautiful Walker Golf Course. This annual event is regularly attended by Alumni and Industry Supporters with some of the largest Construction Firms and Specialty Contractors in the country, and is a perfect opportunity to support the Clemson CSM department while also networking and making new friends.
The 2019 golf tournament was followed by the annual senior dinner in recognition of the graduating seniors. The students were presented a senior gift by the CSM Alumni Association in recognition of their persistent hard work and achievement as new graduates of the Clemson University CSM Department. A special thanks is in order to the organizing committee and all who supported and made the 2019 CSM Annual Golf Tournament another great success.

*This year’s planning committee included:* Steve Foushee, Michael Geddings, Brad Hutto, Hank Maxwell, Leslie Armstrong, Jeremy Cleary, Jeff Schaus, William Reeves, Michael Henry and Hassan Pressley.

**Event sponsors included:**
- Gold Sponsors – A M King, and Holder Construction
- Bronze Sponsors- Hood Construction, and JE Dunn Construction.

**Other prize contributors also included:**
United Rentals, RAM TOOL, Greenville Drive, Crown Corr Inc., Brandit, Designables Inc., the Walker Golf Course, and CU Young Alumni.

Thank you all again for another great Golf Outing!

Also, please don’t forget to reserve **October 10, 2019** for the:
*Fourth Annual Construction Symposium to be held at the Greenville Marriott.*

**Important CSM Dates to Remember in 2019:**
- October 3rd - CSM Spring IAB Meeting and Career Fair, Clemson Madren Center; and
- October 10th - Fourth Annual Construction Symposium, Greenville.
**STUDENT LEADERSHIP AND AWARDS**

Each spring the CSM faculty selects the department’s annual student award winners. The winners for the 2019 awards, which were announced at the Spring Industry Advisory Board meeting on February 28, 2019, and also presented at the April 12, 2019 College of AAH Honors and Awards ceremony are as shown below:

**Carolinas AGC Citation for Merit**
*Mr. Derek Ryan* In recognition of his outstanding academic achievement, good character and professional promise.

**Carolinas AGC Citation for Achievement**
*Ms. Erin Smith* In recognition of her high professional promise, good character, and academic achievement.

**Construction Science and Management Industry Advisory Board Internship Leadership Award**
*Ms. Victoria Bond Marquez* In recognition of the quality of her Internship Portfolio and her initiative to solve a problem and/or improve a company or project process during her internship.

**Ralph Edward Knowland Outstanding Graduate Student Award**
*Mr. Ajay Jadhav* Who over the past year exhibited the greatest contribution to the department based on a high level of performance and participation in the MCSM graduate program and school activities.
The 2018/2019 CSM NAHB student competition team placed 4th out of 37 schools participating in this year’s National Association of Home Builders (NAHB) 4-Year Residential Construction Management Competition at the International Builders Show in Las Vegas, Nevada on February 20th. The students created a nearly 100 page proposal for a new 270+ lot community that consisted of land development, product selection, estimates, schedules, financing, market analysis, and marketing. The proposal was presented to a panel of judges who served as company executives who would choose whether or not to fund the project. This year is the highest any competition team from Clemson has placed, after finishing each of the last four years in the top 10.

Further, the National Housing Endowment awarded a Homebuilding Education Leadership Program (HELP) Grant in the amount of $100,000 over five years to the CSM department. Under the direction of Dr. Jason Lucas, the HELP Grant will be used to bring residential construction specific courses into the Construction Science and Management Curriculum. The grant will also support industry outreach and engagement efforts between the CSM department and the residential construction industry. This award was formally announced and presented to Dr. Lucas and the NAHB competition team students at the International Builders Show in Las Vegas. (From left to right): John T. Mahoney - Chairman, National Housing Endowment Board of Trustees, Anders Ike, Carli Hurd, Hudson Orders, Erin Smith, Troy Clifford, Noah Fuller, Zachary Miles, Douglas Singletary, Max Overly, Dr. Jason Lucas - Grant PI and Faculty Advisory, Steve Nellis - NHE Trustee and HELP Advisory Committee Chair.
If you have further questions about the CSM department or would like to contribute in any way, please contact Ms. Leslie Armstrong, CSM Corporate Partner Program Coordinator at: 864-656-9588 (ARMSTR3@clemson.edu) or Dr. Mike Jackson, CSM Department Chair at: 864-656-3878 (nmjacks@clemson.edu). Your support is critical to our ongoing success and continuous improvement.

Finally, we encourage you to regularly visit the CU CSM Alumni and Supporters website at: http://cucsmalumns.wixsite.com/cu-csm-alumns.

This website serves as a link for alumni and supporters to stay actively involved and engaged with of the CSM Department. A connected Alumni increases opportunities for previous, current, and future students by connecting all through one common goal; to maintain the Clemson CSM program among the best in the country. Thanks again for all you do!