Dear Alumni, Friends and Partners of the CSM Department:

I want to take advantage of this opportunity to express my heartfelt gratitude for your continued support of our students, faculty and staff. I continue to be inspired by the quality of the academic programs at Clemson, and especially our CSM programs. It is because of your generous support that the Clemson CSM department is consistently ranked in the top 10 among the Best Construction Management Programs in the U.S. https://www.collegefactual.com/majors/business-management-marketing-sales/construction-management/rankings/top-ranked/. We are thankful for your many contributions to our continued success.

Thanks to your ongoing support, our CSM students have access to ever-expanding internship, competition, and service learning engagements. These three experiential learning components, combined with our excellent classroom instruction provide the four cornerstones of our undergraduate construction education program. In addition to this sound academic foundation, we also hope to enhance the education experience for our students in 2019 through expanded use of technology, as we virtually bring more of you and the construction industry into the classroom. We will also continue to invite you, as construction management professionals, to assist us with the delivery of high quality construction education, whether by engaging with our students through internships and/or cooperative education, teaching a course as a part-time Lecturer, or perhaps even joining our team as a doctoral candidate in pursuit of a second career in higher education. There are unlimited opportunities for us all to get more involved in the ongoing mission of delivering meaningful and applied, high-quality construction education in the “Charlanta” megaregion.

Finally, we hope to be able to announce the grand opening of our proposed CSM Simulated Construction Field Office Laboratory (SCFOLD) on the Clemson campus in 2019. This proposed modular facility will provide a simulated jobsite environment for our students, faculty, and staff to kick up a little dust and hopefully re-introduce more hands-on activities into the CSM undergraduate curriculum. We are currently seeking contributions toward this new initiative, and hope you will consider participating at any level you deem appropriate.

In closing, our faculty, staff and students are extremely grateful for all that each of you have already done to help make us better. I am also personally grateful for your overwhelming support over this past year. 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 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 the 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 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. The department is 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 in 1991. In 1986 the department received approval and began to offer a master in Construction Science and Management. In 1992 the department 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 consists of a Chair, seven full-time faculty, an administrative assistant, and a Corporate Partner Program Coordinator. 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 over 1700 bachelor’s degrees and over 250 master’s degrees (through the May 2018).
DEPARTMENT NEWS

FACULTY & STAFF ACCOLADES

Dr. Ehsan Mousavi Receives NSF Award
Dr. Mousavi has been awarded a prestigious National Science Foundation (NSF) grant of $162,550 for support of a project entitled "RII Track-4: Event Based Approach to Model Indoor Airflow Patterns." This award started October 1, 2018 and will end September 30, 2020. As part of this research, Dr. Mousavi will work with other researchers at the University of California at Berkeley, and will spend the next two summers in residence there.

Dr. Mousavi is currently in his third year as a tenure-track Assistant Professor at Clemson. In addition to his recent research success related to indoor air quality, he also currently teaches the undergraduate estimating courses in the CSM curriculum and led the Associated Schools of Construction (ASC) commercial concrete student competition team to a second place finish in Atlanta in October.

Dr. Joe Burgett Continues to Shine
With the continued mentorship of Dr. Dennis Bausman, Joe Burgett was also recently awarded a grant from the Clemson Center for Connected Multimodal Mobility (C2M2) to facilitate the use of UAS’s (drones) with the SC Department of Transportation (DOT). Specifically, the research will help the SCDOT use drones to assist with bridge inspections. UAS mounted high resolution images and thermal IR photograph will be leveraged to inspect deficiencies in bridge support structures and concrete deck delamination. Software will also be used to stitch the images together to create 3D models, orthomosaic maps and surveys.

It is anticipated that this internal grant will soon be followed by an external award from SCDOT.

Dr. Jason Lucas Lands an External Grant
Dr. Jason Lucas has recently received an external grant award for $75,233 from the Job-Site Safety Institute, entitled “Advancing Best Practices for Construction Safety.” Dr. Lucas will also work with Dr. Dennis Bausman on this study to develop a best practice guide that can be implemented to reduce risk and minimize total construction claims.

Both Joe and Jason are in their final year of tenure review at the Assistant Professor level and we thank them both for their ongoing contributions to Clemson University and the department, and we wish them well as they navigate the tenure and promotion process. Dr. Bausman is also commended for his continued mentorship of these rising stars.
Mr. Appie Wells, Part-Time Lecturer

Mr. Appie Wells joined our faculty in the Fall semester as a part-time Lecturer. Appie earned his Bachelor of Science degree in Construction Science and Management, with a minor in Business Administration from Clemson in 2010. He is a Project Manager and is responsible for all operations of the Augusta, GA office of Ajax Building Corporation. He also has previous experience as a Superintendent with Brasfield & Gorrie, LLC. in Orlando, and Field Engineer with Hensel Phelps Construction Company in Hazelton, WV. Appie is also a Licensed Florida General Contractor. He taught the Construction Economics Seminar course in the Fall semester, and we hope he will come back and help us in the classroom again in the very near future.

Mr. Todd Usher, Graduate Teaching Assistant

Mr. Todd Usher joined the CSM Department this semester in pursuit of the Ph.D. in Planning, Development, and the Built Environment (PDBE). Todd is Founder and Owner of Addison Homes, based in Greenville, and was the first builder in the United States to earn the National Association of Home Builders’ Master Certified Green Professional designation, Todd holds a variety of industry credentials including EarthCraft House™ Technical Advisor, Energy Star® home energy rater, LEED® Accredited Professional, LEED for Homes® Green Rater, National Green Building Program™ Accredited Verifier for the NAHB Research Center, Certified Aging in Place Specialist, Graduate Master Builder and South Carolina Certified Master Builder. In addition to his graduate studies, Todd is currently teaching the undergraduate Environmental Systems I course. Welcome aboard Todd!

Ms. Leslie Armstrong, New CSM Corporate Partner Program Coordinator

Ms. Leslie Armstrong joined the CSM Department in the Fall semester of 2018 as our new CSM Industry Advisory Board (IAB), Corporate Partner Program Coordinator. Leslie’s position is entirely funded by the generous contributions of our CSM Corporate Partners. Leslie is a Clemson alumnus and came to CSM from across campus in Facilities Management. With a wealth of background knowledge regarding how to get things done at Clemson, Leslie stepped up immediately in support of the Fall CSM IAB Meeting and Career Fair at the CU Madren Center on September 6, and the Third Annual Construction Symposium, held at the Greenville Marriott on October 11, 2018. Leslie has also helped us enhance ongoing stewardship of the CSM Corporate Partner membership and accounts. We are extremely fortunate to have Leslie on our team!
CONSTRUCTION INDUSTRY ACTIVITIES

CSM Industry Advisory Board
The CSM Industry Advisory Board (IAB) met on September 6, 2018 and will meet again next on February 28, 2019 on the same day as the next scheduled 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 September 6, 2018 meeting:

Paul Mashburn, New IAB Chair;
Doug Hunter, Immediate Past Chair;
Leslie Armstrong, New IAB ExComm Secretary;
Gavin Axson, New IAB ExComm Member;
Stephen Foushee, Chair, Alumni Develop. Comm.;
Kenny Garner, Chair, Curriculum Committee;
Laurie Gregory, Chair, Facilities Develop. Comm.;
Tim Heichelbech, Carolinas AGC Representative;
Chris Moore, ABC of the Carolinas Representative;
Chris Morgan – Corporate Partner Representative;
Hassan Pressley – Vice Chair, Alumni Dev. Comm;
Todd Usher, NAHB of Greenville Representative.

CSM Corporate Partner Program
Clemson’s CSM Corporate Partners include a group of over 50 leading construction professionals who, 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 50+ current CSM Corporate Partners is presented on the following pages.

For more information on becoming 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) or Dr. Mike Jackson, CSM Department Chair at 864-656-3878 (nmjacks@clemson.edu).
2018-2019 CSM Corporate Partners

AM 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
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
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
Guy Roofing, Inc., Spartanburg, 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
MetroPower, Greer, SC
Moss & Associates, Fort Lauderdale, FL
Patuxent Companies, Crofton, MD
Poettker Construction, Breese, IL
Reeves-Young, Sugar Hill, GA
Robins & Morton, Charlotte, NC
CSM Hosts Third Annual Construction Industry Symposium

The CSM Department’s Third Annual Construction Industry Symposium drew more than 150 participants from the Carolinas and Georgia to the Greenville Marriott on October 11. This year’s symposium was once again themed “The Ever-Changing World of Construction: Today’s Challenges, Tomorrow’s Opportunities.” The Event Sponsor was McGriff Insurance Services.

The day was interactive, with lively discussions among the audience, the speakers and panelists. In his keynote address, titled “The Economic Situation: The Nation, Region, and the Construction Industry,” Dr. Bruce Yandle, Dean Emeritus, Clemson University College of Business & Behavioral Science, spoke about the impact of the economy on the construction industry.
Next on the program was a panel discussion on “Wood Structures/Glulam Basics,” moderated by Dr. Pat Layton, Professor of Forestry and Director of Clemson’s Wood Utilization and Design Institute. Panelists included Jeff Stefani, Midwest Regional Sales Manager, Engineered Wood Product Sales for Anthony Canfor, and Warren Hamrick, Engineered Wood Specialist, APA – The Engineered Wood Association.

Afternoon sessions kicked off with Kane Smith, Branch Manager of Satellite Shelters, leading a discussion on “Modularization’s Impact on the Construction Industry.”

This was followed by “What is IPD Delivery” led by Craig Piper, AIA, NCARB, LEED AP, Senior Principal SMRT Architects and Engineers, who presented a case study on a significant healthcare construction project in Maine for which IPD delivery was used.

The final discussion of the day centered on “Current Trends and Challenges in the Construction Industry: A Contractor’s and a Designer’s Perspective,” featuring Brian King, President, A M King, and Brad Smith, AIA, Managing Principal, McMillan Pazdan Smith.

Please look for an upcoming announcement regarding our 4th Annual CSM Construction Symposium to be held on October 10, 2019, again at the Greenville Marriott. We look forward to seeing you there!

Also, please don’t forget to reserve April 11, 2019 for our 28th Annual CSM Spring Golf Tournament and Senior Student Banquet.
In October 2018, the major construction management programs of the Southeast gathered again in Peachtree City, GA to compete in the ASC Region 2 student competitions. This year, under the direction of Dr. Ehsan Mousavi, CSM students Clay Dickinson (team captain), Richard Gauthier, Tajee Turner, Jordan Nicklos, Garrett Von Minden, Alexander Powell, David Konopka, and Garrett Corder won 2nd place in the ASC/AGC Concrete Competition. This was the first year that Clemson CSM students participated in the concrete competition, making this an especially meaningful event. Thanks to Baker Concrete for sponsoring the competition, and special thanks go out to the generosity of our industry mentors from Brasfield & Gorrie including: Ben Barfield, Andrew Eckenbrecht, Preston Oglesby, Jeremy Bailey, Jeff White, and Nick Funck.

A second team of CSM students including: Mason Kingery, Mac Boone, David Rhoden, Riley Kohn, Kyle Morrison, and Luke Varadi also competed in the ASC Region 2 Commercial Project Competition under the direction of Dr. Joe Burgett. The team took 3rd place. Special thanks go to Whiting-Turner and DPR who generously gave their time to work with the team during their preparation. We would also like to recognize Paul Boric and Mike Parker with Clemson Facilities and Tony Putnam with Campus Utilities for their help. Thanks also to Holder Construction for sponsoring this competition.
A third, multi-disciplinary team of Clemson CSM and Architecture students also participated in the ASC Design-Build competition this year, under the direction of Dr. Shima Clarke. Students: Jonathan Walters (CSM-Jr), Thomas Moore (ARCH-So), Heather Kimbrell (ARCH-Sr); Will DeAugustino (CSM-Sr), Caleb Thomas (CSM-Jr) and Tress Shaw (CSM-Sr). The Clemson team did not place this year, but gained valuable competition experience, and those not graduating look forward to returning next year for gold. Thanks for the hard work, team!

INTRODUCING THE 2019 CSM SENIOR CLASS

Important CSM Dates to Remember in 2019:

- March 24-26th – ACCE Visiting Team on Campus, Clemson;
- April 11th – CSM Alumni Golf Tournament and Senior Banquet, Clemson Walker Course;
- October 3rd - CSM Spring IAB Meeting and Career Fair, Clemson Madren Center; and
- October 10th - 4th Annual Construction Symposium, Greenville.
We’re Working Hard to Produce More High Quality Clemson CSM Graduates to Better Meet Your Needs:

We’re Working Hard to Produce More High Quality Clemson CSM Graduates to Better Meet Your Needs:

- 74 CSM degrees awarded in 2018;
- 60 new CSM students (CSM 1000) in the Fall semester; and
- 53 CSM seniors in CSM 4500 in the Fall semester.

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As we continue to grow, the CSM Department will continue to need your assistance even more. We hope you will consider helping us with the delivery of our undergraduate or graduate instruction as a guest lecturer, serve on a faculty search committee, assist with curriculum and course assessment review, or provide outreach opportunities for our faculty and students in 2019.

**Proposed New CSM Simulated Construction Field Office Laboratory (SCfold)**

We also hope to be able to announce the grand opening of our proposed CSM Simulated Construction Field Office Laboratory (SCfold) on the Clemson campus in 2019. This proposed modular facility, to be located at the Ravenel Research Center is intended to provide a simulated jobsite environment for our students, faculty, and staff to kick up a little dust and hopefully re-introduce more hands-on activities into the CSM undergraduate curriculum. We are currently seeking contributions toward this new initiative, and hope you will consider participating at any level you deem appropriate. If you would like to contribute to this effort, 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!