

CONSTRUCTION INDUSTRY ADVISORY COUNCIL

2012-13 REPORT



CONSTRUCTION SCIENCE
TEXAS A&M UNIVERSITY

Construction Industry Advisory Council

2012-13 Report: Construction Industry Advisory Council



Francis Hall

"As a company, and for me personally, it is extremely rewarding to be part of the advancement of Construction Science at Texas A&M. We are excited about investing in the department's new home, the future leaders of the construction industry, and in such an exceptional education program. The leaders who learn here today, will be responsible for the infrastructure that we enjoy tomorrow."

— Robert Van Cleave '81, Chairman, CEO
Balfour Beatty Construction
On support of Francis Hall Building Campaign



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CONSTRUCTION SCIENCE TEXAS A & M UNIVERSITY

Construction Industry Advisory Council



On the cover

An interior architectural rendering of a renovated Francis Hall showing the new John A. Harris '54 Entry Gallery and the Satterfield & Pontikes Construction BIM CAVE.

Letter from the CIAC President



"We are enjoying a period of unprecedented growth as CIAC membership reached 120 at the end of 2013, a 33% increase since 2011."

— Richard Palmer
CIAC President
2012-13

Howdy,

Serving as the president of the finest industry advisory board in the construction industry for 2012 and 2013 has been a very rewarding experience. It is an honor to join the long line of construction professionals that have led the CIAC since 1998.

We enjoyed a period of unprecedented growth as CIAC membership reached 120 at the end of 2013, a 33% increase since 2011. The driving force is the demand for interns and graduates from an excellent construction science program as evident by the record number of companies joining the CIAC in order to participate in the career fair. The diversity of our organization was enhanced by the addition of more oil, gas, energy, industrial, specialty and residential sector firms.

It was a privilege to represent our organization at national industry advisory board conferences sponsored by the American Council for Construction Education. I salute the work of those who had the vision in 1998 to create our organization as a highly functional group of professionals with a clear mission to promote construction education. Together we have continued to build upon this foundation to advance the facilities, scholarships, research, faculty, students and curriculum at Texas A&M University. As a result, we have had an impact in all areas by which industry advisory boards are measured.

It is an exciting time as we enter 2014 with the renovation of Francis Hall well under way as the new home for the construction science department. The additional space afforded to the department will enable even more active presence and participation of our members. The expanded Construction Industry Advisory Council's Industry Relations Suite will be a home, as well, for our members who visit Francis Hall and interact with a growing student body.

I extend a hand of appreciation to my friends on the CIAC Executive Committee for their work in guiding the various committees and ensuring that our meetings achieved the agendas that were set for them. I am confident that Bob Flowers' years of service as our vice president, and chair of the budget and development committees will serve him well as he steps into his role as president for 2014–15. Let's give him our fullest support as we all continue our support of the finest program of construction education in the nation.

In closing, it is very important to recognize Joe Horlen as our executive director, and the Industry Relations Office staff for their outstanding support in planning and guiding CIAC meetings, banquets, tailgates, and career fairs. Our IRO is the only such department-level office on the Texas A&M University campus that is always available for assistance. On behalf of our 120 members, "Thank You" for all that you do each day!

Richard Palmer
CIAC President

Letter from the Department Head / Executive Director

The future of construction education at Texas A&M University has never been brighter for the Construction Science Department as we move toward a larger state-of-art facility, an increased student enrollment, and successful attainment of student outcomes as measured by the university's critical metrics for excellence.

By spring 2015, we will move into a renovated Francis Hall, more than doubling the space available for classrooms, laboratories, student collaboration and offices. Without the support of a strong industry advisory board, this historic milestone would not have been possible. Beginning with the rationale for being granted exclusive use of Francis Hall, through the planning and programming of facility design, and culminating with the generous support of the capital fundraising campaign, our Construction Industry Advisory Council is the key ingredient to this effort.

As we move into our new home for construction education, our student enrollment will be over 800 students, a 33% growth from the day that Francis Hall was assigned for our use. More than 250 graduates will be starting their careers as construction professionals annually with a faster pace of graduation. This increased supply of well trained and highly qualified graduates would not be needed if not for the ever increasing demand by our industry partners as shown by the highest job placement rates from Texas A&M University.

With future budget allocations being closely tied to attainment of critical metrics of excellence, the support of our program by our industry partners is central to providing our students with an enhanced learning environment both in and outside the classroom. Chief among this support is the provision of challenging internships where students learn before they graduate many of the skills it takes to succeed in the real world. Coupled with this support are the over 200 guest speakers from our industry partners that enhance our classrooms each year.

Looking to 2014–15, we see challenges as well as opportunities. The challenge will be to find even more ways to engage our increasing number of industry partners into every aspect of our program of construction education. The opportunity is to expand the breadth of our program to meet the unique talent needs of a wider range of industry sectors. As we move forward in both regards, we will endeavor to ensure that each of our industry partners continues to enjoy priority access to our students and graduates. The benefits are indeed mutual. On behalf of our faculty and students, I sincerely thank each of you for your interest and support.

Joe Horlen
Department Head,
CIAC Executive Director



“By spring 2015, we will move into a renovated Francis Hall, more than doubling the space available for classrooms, laboratories, student collaboration and offices.”

— Joe Horlen
Department Head,
CIAC Executive Director



Francis Hall renovation gets under way

Department of Construction Science to move in next spring

With the renovation of historic Francis Hall, the Department of Construction Science at Texas A&M University is well on its way to acquiring a state-of-the-art academic facility dedicated to construction teaching, research and industry service.

The first stand-alone building for construction education in Texas, located in the heart of the College Station campus, Francis Hall will aid the preparation of students for leadership positions in and effective management of all aspects of the construction and project delivery process in one of the nation's largest industries.

A capital campaign to raise the department's \$5 million share of the \$10 million project was quickly reached and a contract to renovate the building was awarded September 2013 to Satterfield & Pontikes Construction of Houston, Texas. A decision to enhance the building's energy efficiency by replacing all its windows and insulating and waterproofing its exterior walls resulted in an increase of the project's budget.

The campaign has been a true investment partnership of the university, the private sector and former students for the

future of the construction industry. Since launching the campaign with the approval of the Texas A&M System Board of Regents in February 2012, Joe Horlen, head of the Department of Construction Science, has led fundraising efforts attracting numerous company and individual contributions totaling \$4.5 million as of March 2014.

"Once again, the strong and generous support of our construction industry partners has made it possible for the program to continue improvement and be the best construction education program in the nation," said Horlen. "The close ties we have with the industry are vital to our success in every way and makes it possible for us to graduate students that are consistently in high demand."

A list of the companies and individuals that have provided financial support to the renovation effort, along with naming opportunities for specific building spaces is available online at cosc.arch.tamu.edu/francis-hall.

After interior demolition of the 94-year-old building was completed, construction science students began touring the



structure every two weeks to learn about and appreciate the methods and materials used in the building's 1918 construction and 1950 addition. As interior reconstruction proceeds, students will be able to see each phase of the process, including the installation of the building's mechanical, electrical and plumbing systems.

The project's scheduled completion in fall 2014 is well timed for a projected rise in the department's two degree programs to more than 800 students, with more than 250 graduates each year. Francis Hall will significantly increase the department's space with more classrooms, laboratories, faculty offices, conference rooms, study collaboration areas, and meeting spaces for student organizations.

The renovated building will feature an auditorium named after Bob Segner, professor of construction science, who has taught students, many of whom are now leaders in the construction industry, since 1970. Donations from former students to honor the highly esteemed professor have reached \$650,000 toward a goal of \$1 million. Donors also have an opportunity to purchase and name one of the seats in the auditorium.

For more information on the fundraising campaign, contact Joe Horlen at 979.458.3477 or visit the Francis Hall Building Campaign website at cosc.arch.tamu.edu/francis-hall.



About the Construction Industry Advisory Council

Objectives

The Construction Industry Advisory Council has maintained a commitment to the objectives contained in its by-laws and has been an integral part of the Department of Construction Science at Texas A&M University since its formation in January 1998.

The real world experience that CIAC members bring to the Texas A&M program of construction education is instrumental in advancing all aspects of teaching, research and service, and maintaining the program's top ranking nationally among the 69 baccalaureate programs of construction higher education accredited by the American Council for Construction Education (ACCE).

The CIAC's many contributions have enhanced the construction education program at Texas A&M with CIAC member companies providing over 73% of all professional internships, and 76% of the jobs for the program students during 2012-2013. The proven strategy for competing to hire Aggie Constructors is joining the CIAC, taking advantage of the free booth at the fall and spring career fairs, hiring interns, and offering the intern a job prior to graduation.

The presence of council members on campus has provided opportunities for an open dialog, cooperation and coordination between members, faculty and students that increased the quality of the classroom education and internships.



Construction science students Zachary Farris, Brett Worrell and Benjamin Huggs learn about concrete recycling during a field trip to the Cherry Companies Houston recycling facility.

Priority access to students is provided by CIAC member involvement in a number of guest speakers, class sponsors, internships, field trips and scholarships provided throughout 2012-13.

CIAC By-Law objectives include:

1. Promoting and improving the construction profession by education and development of the body of construction knowledge.
2. Advancing and supporting the highest quality faculty, educational facilities and undergraduate and graduate programs for the students enrolled in the

Department of Construction Science.

3. Providing liaison between the construction industry and the Department of Construction Science.
4. Developing and implementing innovative programs benefitting the Department of Construction Science, its students and the construction industry.
5. Offering advice and counsel and providing vision for the Department of Construction Science through the active participation of the construction industry.

Governance

CIAC is governed by a set of by-laws that were reviewed and updated at the October 2012 meeting. This document clearly defines principles, policies and procedures that guide this organization made up of over 100 business entities, 8 associate members, 30 lifetime individual members and 20 annual individual members with an annual budget of over \$300,000.

A copy of the by-laws is available on the Construction Science Department's web site at:

cosc.arch.tamu.edu/industry.

CIAC conducts the majority of its affairs and business through standing committees whose members are appointed from the council membership by the Executive Committee.

The president presents the slate of chairs of each committee for the next two calendar years at the fall meeting of each odd numbered year for council approval. The chairs serve for two years beginning January 1 of the next year. The following standing committees are appointed:

1. **Budget:** The purpose of this subcommittee is to prepare the proposed annual budget for consideration by the full membership. This committee also monitors expenditure of funds from the CIAC account to ensure that expenditures are in accordance with approved budgets.
2. **Graduate Program Curriculum, Research and Studies:** The purpose



Emir Sijercic, COSC '09, superintendent with Mass Electric hosted a field trip to the Houston Lightrail Project, providing students with a unique look at infrastructure construction.

- of this subcommittee is to provide continuous review of the Department's graduate curriculum and to foster changes where needed to promote continuous improvement, and to determine the priorities for spending CIAC funds on graduate program issues, research and studies to further the objectives of the CIAC.
3. **Membership:** The purpose of this committee is to promote and solicit CIAC membership, and to develop and manage a CIAC awards program providing appropriate recognition for students, faculty and CIAC individuals and corporations.
4. **Curriculum:** The purpose of this committee is to provide continuous review of the department's undergraduate and graduate curriculum and to foster changes where needed to promote constant improvement.
5. **Development:** The purpose of this committee is to support and promote the fund-raising activities of the Construction Science Department.

The Executive Committee of the CIAC may appoint task forces from time to time for special purposes with time limitations as set forth by the Executive Committee.

Membership Opportunities

Memberships

CIAC By-Laws provide four categories of membership: business entity, emeritus, association, and individual.

- **Business Entity Members**, “Partners for the Future,” are industry sponsors who pay annual dues of \$2,500. In turn, the companies are entitled to designate two representatives of the business entity to participate in the council’s activities. Business Entity Members are listed on pages 27–32.
- **Emeritus Members** are constructors who have distinguished themselves in some aspect of construction and whose expertise and participation are valuable assets to CIAC membership. This is a special category of membership that is approved by the Executive Committee to recognize these very experienced individuals. The member is invited and encouraged to participate in all council activities. Emeritus Members are not required to pay dues, and are non-voting members of the council. Emeritus Members are listed on page 33.
- **Association Members** are representatives of professional industry organizations (AGC, ABC, TCA, TEXO, ACCE, etc.) that are invited by the Executive Committee to be members of CIAC and participate in council events. Association Members, in deference to their significant association contributions to the Department of Construction Science, are not



Construction science students and faculty pose with justices from the Supreme Court of Texas who visited the Texas A&M University campus Nov. 7, 2013 to hear two cases at a public event in Rudder Theatre.

required to pay dues, but may vote on CIAC issues. Associate Members are listed on page 33.

- **Individual Members** are construction industry representatives who desire to support the department and participate in CIAC activities and meetings. Although many are graduates of the Department of Construction Science, membership is open to non-graduates. There are two levels of Individual Membership: Annual and Lifetime. While all Individual Members are invited to participate in CIAC activities and meetings, only Lifetime Members may vote on CIAC matters. Individual Members are listed on page 33.

For additional membership information or to join, contact the Department of Construction Science at 979.862.7345 or by mail: Construction Science Department / Industry Relations Office – CIAC /

3137 TAMU / College Station, TX 77843-3137.

Web: cosc.arch.tamu.edu/industry

The CIAC conducts its regular business meetings each fall and spring semester in College Station, Texas. An agenda for each business meeting is prepared with a full slate of events for the discussion of important funding, curriculum, development, membership and research issues. The Executive Committee, consisting of the president, vice president, committee chairs, executive director, industry relations coordinator and past presidents, meets the day prior to the full membership meeting to review the agenda to ensure all important pending issues would be effectively addressed.

Summer informational meetings are held in Houston, Dallas, Austin and San Antonio to update members on the status of strategic plans, academic performance and key assessment factors.

Executive Summary

Meeting agendas are prepared and provided to the membership prior to each meeting. The minutes for all Executive Committee and the full council meetings are recorded and distributed to the membership after each fall and spring semester meeting. Copies of the CIAC meeting minutes can also be viewed at:

cosc.arch.tamu.edu/industry/meetings

Summaries of the issues addressed in the full council meetings during 2012–13 follow:

April 2012 — The primary task assigned to the committees was the development of three goals that the department should achieve in the next three years. The committees' input was needed for updating and revising the department's strategic plan.

The committees also participated in three separate student-industry focus groups and provided the department guidance identifying key strengths and areas of improvement. Noted strengths were the professional internship program and the high level of industry support. Specific improvements in the curriculum included more hands-on experiences, advanced estimating classes, and exposure to more industry sectors, and project documentation.

The student emergency fund, established by Larry Fickel and the CIAC in 2010 was used for the first time in April 2012 to assist a student whose house had burned to the ground,

destroying all of his personal belongings.

Professor Julian Kang presented a video of the work that was completed this semester in COSC 461 – Building Information Modeling.

Professor Sarel Lavy spoke to the CIAC about initiatives for the graduate program and the graduate committee's review and revision of the graduate courses.

David Fleming, Sundt, provided an update on the American Institute of Constructors (AIC) Associate Constructors examination. Sixty-one graduating seniors took the exam. The pass rate for Texas A&M construction science students has been in the 85-90% range, compared to a 59% national rate.

October 2012 — A key action item of the fall 2012 meeting was an update to the CIAC By-Laws addressing changes on individual memberships, business entity representation and voting, and roles within the Executive Committee.

Various committees participated

in a planning exercise to assist in identifying key features that should be included in the design of the renovated Francis Hall. Features to be considered included state-of-the art technologies with expanded building information modeling capabilities, increased student work and collaboration space, and additional laboratory space for more hands-on learning.

Milestone dates for completion of design drawings and issuance of a request for sealed competitive proposals were provided with a target date of contract award in August 2013 and completion date in the fall 2014.

The capital building campaign to raise the funds was initiated. The first phase to attract major gift donors was under way and on track.

Growth to 91 companies was reported with increases in new members from the oil, gas and energy industry. Demand for graduates in this sector resulted in a steady increase in the average starting salaries.



Capstone course students prepare design-build proposals for the \$40 million Equestrian Center, which they presented to a panel of industry professionals from Gamma Construction, the class project sponsor.

The membership was updated on the university's target numbers for increased enrollment and improved graduation rates to be attained by fall 2014. Progress toward meeting the target numbers was also presented.

Professor Zofia Rybkowski briefed the members on her CIAC-funded research project on Lean Construction.

April 2013 — The agenda for the spring 2013 meeting included specific tasks and issues to be addressed by each committee. The pending changes to the state and university core curriculum requirements were described, and industry input on how to best adjust the COSC requirements was welcomed.

An update on the capital campaign for Francis Hall was provided as the initial major donor and naming opportunities phase shifted toward attracting support from the general public.

Three of the committees participated in student focus groups. Input from these groups, with representation from students at each level in the program, identified issues important to students.

An overview of the Francis Hall capital campaign process showed how the campaign was moving from the larger naming rights opportunities to individuals. The important role of individuals in promoting the campaign within their own companies was emphasized.

The industry relations office reported increasing trends for CIAC membership, career fair participation, and CIAC member hiring rates for interns and

graduates.

Members previewed examples of videotaped interviews of students, graduates and industry partners that have been produced to enhance the recruitment process of new students.

October 2013 — CIAC's financial impact on the department since 1998 was highlighted with the membership's major contributions to endowed matching scholarships and professorships, as well as the Francis Hall Capital Campaign with all the CIAC financial gift's growing from investments to a market value of \$9.306 million.

The important role that CIAC members can play to enhance the program's student enrollment was emphasized in response to university assigned program goals in the areas of enrollment (headcount), time to graduation, and enhanced learning experience.

An update on Francis Hall project was presented along with the plan to provide regular student tours and involvement. Additionally, the status of the project's budget, funding sources and gift receipts was presented. The project cost was revised to \$9.73 million with window replacement and furring and insulation the exterior walls adding to the scope of work for energy conservation.

A total of \$3.80 million of the department's share of \$5.23 million had been received or pledged. The remaining \$1.43 million will be collected as the capital campaign goes public to a wider group of potential contributors.

Information from the fall 2013 Associated Schools of Construction (ASC) Region V Educator's Conference was shared with members.

Key things being done well were the level of industry involvement, internships and use of technology. Further improvements were needed in reading plans and specifications and communication skills, especially in person and phone conversations.

The top two of 25 teams in the fall 2013 ethics competition presented reports on an assigned ethical scenario with CIAC members voting on the best team and top speaker.

Continued growth in CIAC membership to 118 companies was reported with increased diversity in the industry sectors represented.

Recruitment of interns and graduates resulted in a record level of career fair participation. Employment of interns and graduates by CIAC members was nearly 80%.

The Executive Committee slate for 2014-2015 was announced with the nomination of Bob Flowers, J.E. Dunn, for president; David Fleming, Sundt, for vice president and budget committee chair; and Matt Summerville, Brandt, for development committee chair.

Jeremy Stovall, Brookstone; Jake Salley, Balfour Beatty; and Glen McClenan, Joeris General Contractors will remain as chairs of their respective committees.

Richard, Palmer, Satterfield & Pontikes, expressed his appreciation for the outstanding support he has enjoyed as CIAC president for 2012-2013.

CoSci teams place 1st, 2nd in Dallas Region V contest

Construction proposals for a Dallas middle school and a water treatment plant created by two teams of construction science students at Texas A&M yielded first- and second-place finishes at a February 2013 competition hosted by TEXO.

The Texas A&M students competed in the 18th Annual Associated Schools of Construction/TEXO Student Competition sponsored by ASC Region V and TEXO, an organization of North and East Texas general contractors that champions unity and leadership in the construction community.

First place honors went to the Texas A&M team led by Boong Yeol Ryoo, assistant professor of construction science, for its proposal in the competition's heavy/civil division to build a \$34 million Dallas water treatment plant.

Another Texas A&M team led by George Eustace and Ron Workman, construction science faculty members, earned second place in the commercial building division for their Dallas middle school construction proposal.

The first place treatment plant proposal was developed by students Karsten Burja, Hyun Chul Chung, Derrick Gastinger, Todd Von Krosigk, Tanner Trimm and John Uhl.

The group was sequestered, as out-



The Department of Construction Science's Heavy Civil Highway team pauses for a victory photo after winning the 2013 ASC/TEXO competition in Dallas. The department's commercial building team placed second.

lined in the contest's rules, in a Dallas hotel room all day Feb. 10 beginning at 7 a.m. when they received their initial competition packet. They worked until 11:30 p.m. creating a water treatment plant construction proposal that included project scheduling, site excavation, concrete placement and traffic control.

"It was like a 20-hour sprint to complete the proposal," said team member Todd Von Krosigk. "There was absolutely no down time and no time to sleep. None of us had ever worked on a water treatment plant bid before so it was a real challenge to put together an estimate in that amount of time. It was one of the most challenging things any of us had ever done."

The second place Texas A&M commercial building competition team that

developed construction proposals for a \$33 million Dallas ISD middle school was composed of Scott Beatty, Patrick Campo, Trevor Dielmann, Chelsey Fisher, Alicia Franco, Eduardo Mata and Colton McCullough.

Both Texas A&M competition teams were required to demonstrate skills in cost estimating, bid writing, fielding contract questions, communications, problem-solving and method analysis.

"This was the most balanced of all the competition teams I've coached," said George Eustace. "Each student was able to match his or her strengths with the various responsibilities necessary to produce the proposal. They formed a cohesive team that worked well together with a high level of mutual respect for each others' talents."

Budget Committee

The Budget Committee was chaired by Bob Flowers of JE Dunn who also served as CIAC vice president.

CIAC funded many programs unique to the Department of Construction Science that would not have otherwise been possible.

The annual budgets for 2012 and 2013 are provided on pages 35 and 36.

A major achievement was the full funding of the CIAC's pledged \$250,000 Francis Hall contribution towards the construction of the "Construction Industry Relations Suite".

The actual incomes exceeded both the 2012 and 2013 budgeted amounts.

The membership approved a \$20,000 transfer into the CIAC Support Fund account and \$10,000 to fund a new matching endowed scholarship.

Expense line item funding was established in accordance with CIAC By-Laws for the major program areas: student enrichment, scholarships, research and studies, departmental support, and CIAC operations.

Student Enrichment

In support of the university goal of providing students with enhanced learning experiences, student enrichment funds were provided by the CIAC for student competitions, graduation events, the awards banquet, career fairs and the associate constructor exam.

Competition teams in commercial building, residential and heavy civil

The CIAC career fairs are the largest department-level career fairs held on the Texas A&M campus.

construction competed on the regional and national levels with excellent results. The Commercial Building Competition Team, sponsored by Joeris General Contractors, competed in the Associated Schools of Construction competition with a second place finish in 2013. The ASC Heavy Civil\Highway competition team placed first among nine teams in 2013. The Associated Builders & Contractors (ABC) team placed third in 2013. The National Association of Home Builders (NAHB) competition team achieved a 5 of 31 ranking in their national competition.

The successful ethics team competition in the COSC 381 – Ethics in the Construction Industry class that began as an internal student competition in spring 2011 was expanded with team oral presentations to the full CIAC membership at the fall 2013 meeting. CIAC members Larry Fickel, David Fleming, and Gavin McGee continued their participation on the competition judging panels for the top five teams in each semester's competition.

Prior to graduation each semester, a hard hat ceremony is held to honor the graduates with the presentation of a



personalized "Aggie Constructor" hard hat. Those students earning department-level awards for leadership and academic excellence were recognized with the presentation of a watch and their name on a permanent wall plaque. The award winners for 2012 and 2013 are provided on page 21.

The annual Spring Scholarship and Awards Banquets were held April 12, 2012 and April 11, 2013 at the College Station Hilton. Each business entity member is entitled to a table for four at this event. The guest speaker for the 2012 banquet was Brian Giacomozzi '88, Chief, Engineering & Construction Division, Southwest Division, U. S. Army Corps of Engineers. Representatives from Brown, Reynolds Watford, the design firm for the Francis Hall Renovation, presented on the key features and plans for the project at the 2013 banquet.

To provide CIAC members with priority access to construction science students, the first scheduled career fair each semester is reserved for member firms only. A new record level for participation in this career fair was set at the fall 2013 event with 110 companies eclipsing the spring 2009 number of 90 companies.

Fall career fairs break attendance records

Companies looking to hire construction science students at Texas A&M turned out in record numbers at fall 2013 career fairs hosted by the Department of Construction Science.

There were 140 companies looking for new employees and interns at the two career fairs, breaking the previous record of 125 companies at the fall 2008 fairs, said Joe Horlen, head of the department.

"The positive trends reflect the continued economic improvement of the industry," said Horlen. "Our students are being offered an ever-greater diversity in the types of companies attending the fair, including the industry's commercial, residential, specialty, oil, gas and energy sectors."

Corporate attendance at this fall's fairs, the largest department-hosted career fairs at Texas A&M, represented a 31% increase from the spring 2013 fairs.

The first of the two fairs the department hosts each semester is for companies that are members of the Construction Industry Advisory Council, which advises department administrators and faculty on contemporary construction issues and influences the department's strategic direction and course content.

A social mixer hosted by the department the evening before the session I fair gives students a chance to meet company representatives in a relaxed environment, said Horlen. Corporate and student participation in the Fall 2013 mixer also marked an all-time high.



Scholarships

Since 1998, the CIAC budget has included funds for Endowed Matching Scholarships by providing a \$10,000 match for a CIAC member who pledges \$15,000 for a \$25,000 named scholarship. Donations can be made over a period of time, up to five years, to achieve the minimum funding. The funds for this expense item were redirected in the 2012 and 2013 budgets to the Francis Hall Capital Campaign; however, increased revenues from memberships allowed for funding of endowed matching scholarships.

Two new endowed matching scholarships, the Emmons Family Scholarship and Jill Knutson '88 Endowed Scholarship, were added in 2012-2013, increasing the total number of scholarships to 68. Larry Fickel and Jack Morris added to their endowed scholarships with new gifts.

At the end of 2013, the market value of all endowed scholarships was \$3,174,798.

The scholarship presentation ceremony is held each year at the College Station Hilton. The ceremony is planned and conducted by the Sigma Lambda Chi Honor Society.

During the event, a representative from each scholarship provider presents their scholarship certificate to the deserving student and shares a reserved table at the banquet that follows.

At the 2012 ceremony, 132 students



Construction Science students await scholarships at the Department of Construction Science's annual ceremony. In 2012 and 2013 combined, 274 students earned \$576,650 in scholarships.

received \$227,150 in scholarships. At the 2013 event, \$349,500 in scholarships were presented to 142 students.

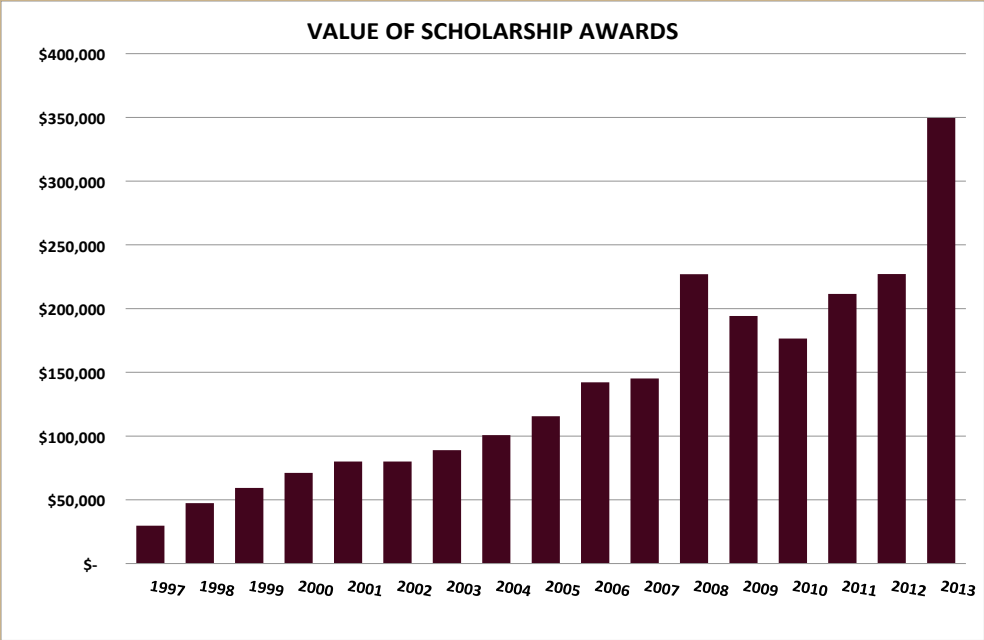
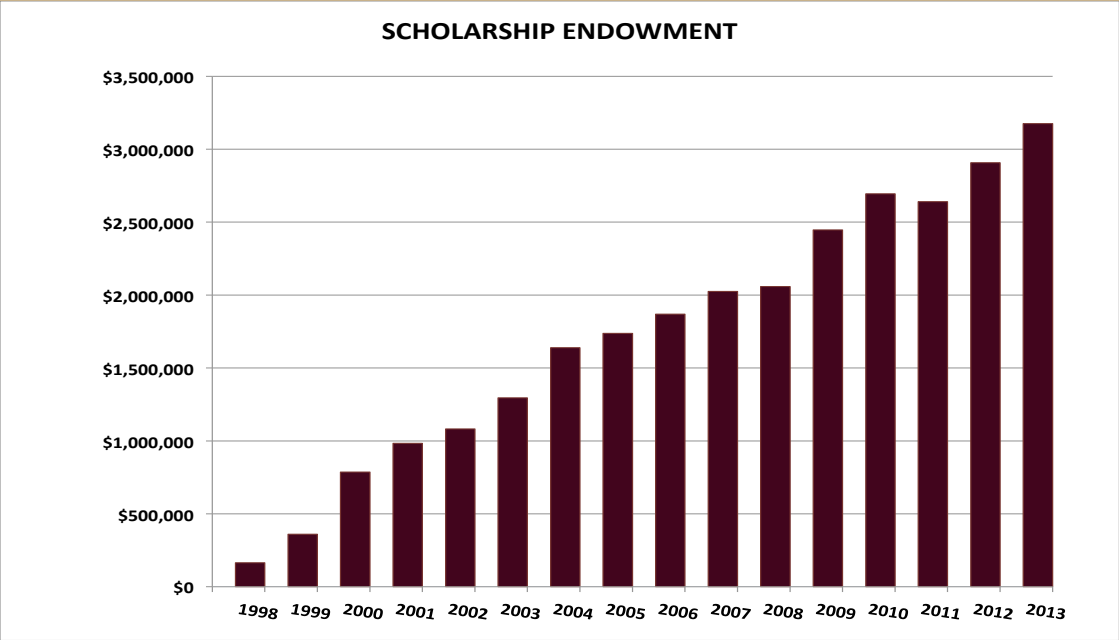
The addition of the Walter W. Lechner Graduate Grant and the Texas A&M University Graduate Diversity Fellowship contributed to the large increase in the total value of scholarships.

The CIAC budget includes funds for freshman and for matching endowed scholarships. With the recent availability

of funding from differential tuition, the need to fund the individual freshman scholarships by the CIAC was reduced in 2012. The combined funding by the CIAC resulted in 55 scholarships awarded to incoming freshmen during 2012-13.

The financial support provided to these appreciative students enhances their opportunities to pursue degrees and further the department's reputation for excellence within the industry.

A more favorable economic climate in 2012 and 2013 resulted in a 20% increase in the market value of the scholarship endowment from 2011.



The number and average values of the individual scholarships awarded to students in the construction science program continued to increase to 142 scholarships awarded in 2013. COSC students compete each year for college and department endowed scholarships from CIAC members, external professional organizations, individuals and private companies. A scholarship committee made up of faculty members review and rank the applications. The award of individual scholarships is based on the ranking and the specified criteria set forth for the scholarship by the donor.

Departmental Support

The CIAC budgeted funds for departmental support are used to supplement public funding for program enrichment and faculty development for such items as administrative supplies, equipment, travel, professional certifications and conference fees.

With the continued reduction in state funds for travel, the funding provided by the CIAC has been very important in allowing faculty members to travel for the purpose of participation in professional organizations, presentation of technical papers, and continuing education.

The department's success in exceeding the university mandated targets for increased enrollment is due in large part to the funds provided in support of new student recruitment. A central action in support of new student recruitment was the production of professional quality videos of students, graduates and industry partners promoting the benefits of graduating from the construction science program.

Closely related to the new student recruiting effort is the funding support of Camp Arch for those prospective students interested in a career in construction.

CIAC Operations

The budgeted funds for CIAC operations are used for meeting expenses associated with the spring, summer and fall meetings. The spring and fall meetings are held in College Station. Summer informational luncheon



Cecil Windsor Professor Julian Kang, director of the BIM Texas Alliance, demonstrates Building Information Modeling software to students in the construction science department's BIM CAVE.

meetings are held in Houston, Dallas, San Antonio and Austin. Tailgate events are scheduled in conjunction with the fall full council meeting.

The increased revenue from membership fees in 2013 allowed for the transfer of \$20,000 from the CIAC's Foundation Account to the \$85,000 CIAC Endowed Account that was established in 2009. The interest accrued from the Endowed Account is available income for the council's annual operating budget.

Curriculum Committee

The curriculum committee, chaired by Carl McClenan of Joeris General Contractors, developed a list of four actions the program should accomplish in the next three years: development of a field superintendent course, offering continuing education courses, enhancing collaborations and communications

between the different disciplines, and the advancement of current and emerging technology.

There is industry interest in Building Information Modeling, scheduling, Lean Construction, collaboration and communication courses, LEED, and construction executive courses. The committee discussed the course objectives and the department's plan to update the curriculum for 2014 in response to the change in the university core course requirements.

The committee reviewed the full semester internship program, and discussed options for increasing assigned credit hours. Consensus is that the internship program is a great asset to our program, and the industry does not support a summer only internship program. The students are getting valuable training and experience during their semester-long internships.

Alum's gift makes Segner auditorium's namesake

The signature classroom in Francis Hall, future home of Texas A&M's Department of Construction Science, will be named after Bob Segner, a professor who has been teaching students, many of whom are now leaders in the building industry, since 1970.

"I can't think of a better way to honor Bob, who has played such a pivotal role in the education and careers of Aggie construction science students," said Don Weaver '76, who donated \$250,000 to name the Francis Hall auditorium after Segner.

Weaver earned a Bachelor of Building Construction degree at Texas A&M and now serves as president of The Urban Companies, a Houston-based real estate and design/build company.

Segner, he said, was a major influence in his career, as well as that of his son, David Lee, who earned a Bachelor of Building Construction degree in 1993. Lee is a vice-president at the company.

"Don's gift reflects the tremendous loyalty former students have for the construction science program and the universal admiration and respect Professor Segner has among those who learned about the industry from him," said Joe Horlen, head of the Department of Construction Science.

A former yell leader who earned a master's degree in construction management at Texas A&M in 1971 and a Bachelor of Science in Architectural Construction in 1969, Segner has long been one of the most beloved professors in



As a former Yell Leader, Bob Segner, professor of Construction Science, is often called upon to lead College of Architecture students in traditional Aggie yells.

the Department of Construction Science, where he has taught since 1970. He specializes in construction management, project delivery systems, construction materials and methods, construction project management and continuing education of all kinds.

When renovated, the 1,700 square-foot, 120-seat Robert O. Segner, Jr. Auditorium, centerpiece of the historic Francis Hall, will be lit by a skylight, part of the building's original design that had been covered by roofing for many years, said Horlen. It will also be restored to its original two-story layout after occupying only the building's second floor since it was halved in the 1950s.

Naming opportunities remain for the Bob Segner Auditorium, said Horlen.

Weaver's gift was part of a matching challenge to raise \$1 million for the naming of the auditorium.

Keith Dalton and Roger Chartouni have placed their names at the auditorium's entrances with a gift of \$100,000 each. Donors can also be listed on one of the auditorium seats with a gift of \$5,000 or more. So far, more than \$650,000 dollars have been raised to name the auditorium.

"It will be like having a permanent seat in Segner's class," Horlen said.

Weaver's gift is the latest in a series of recent contributions from former students and companies, including \$150,000 from Vaughn Construction to name the Vaughn Construction Student Collaboration Center, \$50,000 from Bartlett Cocke to sponsor a survey lab, and \$50,000 from Austin Commercial for a faculty break room.

For more about the Francis Hall fundraising campaign, contact Horlen at jhorlen@arch.tamu.edu or 979.458.3477.

Development Committee

Chaired by David Fleming of Sundt, the Development Committee's efforts were directed toward the Francis Hall Capital Campaign and advancing a plan of action to take the fundraising effort public.

With the participation of Larry Zuber, assistant vice president for development for the Texas A&M Foundation, the committee reviewed various levels in the fund raising process. The first level, with major gifts for naming rights, was nearing completion at the end of 2013 with the search for donations from companies and corporate leaders. Level two focuses on CIAC members and companies. The third level encourages participation from the program's former students.

Visits with companies interested in donating to Francis Hall were scheduled.

Committee members were charged with promoting the campaign by identifying persons and companies interested in contributing.

The committee suggested finding ways to differentiate the Francis Hall fund raising process from other competing interests because companies receive numerous requests for donations throughout the year. Fundraising luncheons in the major cities hosted by a lead company will be considered.

Graduate Program Curriculum, Research and Studies Committee

The committee was chaired by Richard Booher of Alpha Building



Zofia Rybkowski



Boong Ryoo



Ben Bigelow



Sarel Lavy

Corporation and Jeremy Stovall of Brookstone.

Addressing issues specific to the graduate program, the committee voted to expand its roll and change its name to the "Graduate Program Curriculum, Research and Studies Committee." The changes were made in response to potential graduate program enhancements suggested in the August 2012 ACCE accreditation report. The CIAC by-laws were amended in 2012 to reflect the change. With its new responsibilities, the committee reviewed and approved changes to the graduate program curriculum.

Professor **Zofia Rybkowski** and Ph.D. student, James Smith, presented a final report on their 2011 research project that produced a Training Manual on Lean Construction. All members received a copy of the final report with a DVD that included PowerPoint presentations.

The committee's work soliciting, reviewing and awarding a research grant to a tenure-track faculty member proceeded with the award of the 2012 grant to Professor **Boong Ryoo** for his research on field application of portable

devices like PC tablets and iPads.

The committee reviewed three 2013 research proposals and approved the Cloud Computing Concept proposed by Professor Boong Ryoo. A progress report on this research project was received at the fall 2013 meeting with a final report to be issued at the spring 2014 meeting.

The committee's review of research proposals for 2014, yielded a grant for Professor **Ben Bigelow**. He will develop an inventory identifying the most pressing research issues within the construction industry.

During two meetings in the summer of 2013, industry professionals from CIAC member companies assisted Professor **Sarel Lavy**, graduate program coordinator, with the identification of the course content and student learning outcomes for a proposed Masters of Construction Management (MCM) graduate degree in the planning stages.

URS Corporation hosted the planning meeting in Houston for CIAC members from the south Texas area. TEXO hosted the meeting in Dallas for CIAC members in the north Texas area.



Membership Committee

The membership committee, chaired by Jake Sally of Balfour Beatty, identified a need during the spring 2012 meeting for more effective use of the social media site, LinkedIn, to promote the interest and involvement of a wider range of people with the construction science program. At the time, there were 944 members in LinkedIn's Texas A&M Construction Science Group.

Management of the group was assumed by the department's Industry Relations Office and by the end of 2013 membership had grown to 1860 members with a large increase in the number of discussions posted within the group.

The CIAC logo was revised to conform to the Texas A&M University branding guidelines.

In other related business, the committee developed a list of candidates for the Constructor Hall of Fame and identified potential speakers for the awards banquet.

The committee also came up with an idea of establishing a "company day" for CIAC members, during which a company would be provided an office in the department where their representatives could interact with construction science students. Office space will be available to support such a program in renovated Francis Hall.

CoSci department to host 2015 ASC conference at Texas A&M

Construction science educators and graduate students from across the United States and throughout the world will come to Texas A&M April 22-25, 2015 to discuss emerging technologies' effects on construction management practice and education at the Associated Schools of Construction's 51st Annual International Conference, which will be hosted by Texas A&M and the Department of Construction Science.

Planning is already under way for the event, expected to attract approximately 250 educators and graduate students, said Julian Kang, conference chairman and associate professor of construction science.

"The conference is a great opportunity to highlight the research and teaching taking place in our department to construction educators from throughout the world," said Kang. The conference will also showcase Francis Hall, which by then will be the new home of the Department of Construction Science, following a \$10 million renovation.

The ASC is a professional, interdisciplinary association whose members seek to develop and advance construction education. Workshops at the con-

ference, which will be led by Texas A&M construction science faculty, will focus on the theme "Emerging Construction Technology" and investigate how technological tools — mobile devices, building information modeling, geographic information systems, surveying, software advancements and robotics — are poised to bring great changes to the construction industry, said Kang.

"We will consider which emerging technologies managers want to use," said Kang, "how these technologies change procedures at the construction jobsite, and how we teach construction management to our students."

Some of the workshops, he added, may include presentations by the department's industry partners.

The conference will include presentations of more than 100 peer-reviewed papers detailing research projects by construction faculty in the United States and abroad. Additionally, graduate student research will be featured in oral and poster presentations and conference participants will hear from university and department officials and industry practitioners.



Hall of Famers



Gene Reed, right, president of E.E. Reed Construction Inc., receives the 2012 Constructor Hall of Fame Award from Bob Flowers, principal, Endurance Builders LLC and current CIAC president.



In 2013, Jack Morris, right, an Outstanding Alumnus of the College of Architecture, became the first former student to receive the Constructor Hall of Fame Award, presented by Robert Van Cleave, chairman and CEO of Balfour Beatty Construction.

Awards

The Constructor Hall of Fame Award was established in 2001 to honor non-alumni who made a difference in the industry and helped advance the construction science program at Texas A&M. At the fall 2011 CIAC meeting, the CIAC voted to accept a membership committee's recommendation opening nominations to Texas A&M former students.

The 2012 Constructor Hall of Fame Award recipient was Gene Reed, president of E.E. Reed Construction Inc.

In 2013, the Constructor Hall of Fame Award went to Jack Morris, a lifetime CIAC member and the first Texas A&M alumni to be so recognized. Morris was a founding member of the CIAC in 1998. He served as the chair of the Research Committee, has sustained service to the CIAC over the years and is namesake of one of the department's first endowed matching scholarships.

Student Advocates

The 2012 Student Advocate of the Year Award was presented to Professor Ron Workman by Matthew Crane, COSC '13.



At the 2013 awards banquet, Professor Bob Segner, left, received the Student Advocate of the Year Award from Allison Kainer, COSC '13.



Joe Horlen, left, head of the Department of Construction Science, presents the 2012 Educator of the Year Award to Professor David Bilbo.

Top Teachers



Professor K.C. Choi, right, received the 2013 Educator of the Year Award from Sean O'Keefe, COSC '14.

Excellent Scholars



Excellence in Scholarly Work and Research Awards were presented in 2012 to Professor Boong Ryoo, above, by Christopher Atnip, and in 2013 to Professor Jose Solis, left, by Carol Rodriguez COSC '13.



Years' best Graduate Students



Professor Sarel Lavey presented the Outstanding Graduate Student Awards to Christopher Atnip, top photo at right, in 2012 and to Kehui Zhu in 2013.

Gene Murphree – AGC Medals

Gene Murphree – AGC Medals were presented by Professor Bob Segner spring 2012 to Jason Carroll, immediate right, fall 2012 to Shane Griffin, center, and spring 2013 to Daniel Markgraf, far right.



Cumberland Craftsman Awards

Cumberland Craftsman Awards were presented by Professor Bob Segner spring 2012 to Jason Grubbs, far left, fall 2012 to Matthew Fritsch, center left, and spring 2013 to Allison Kainer.

Study Abroad/Job Placement

Study Abroad

Combined study abroad and internship programs in the United Kingdom were provided for 10 students during the spring 2012 semester and for 14 students in spring 2013.

The first nine-weeks of each semester were used for the achievement of academic and cultural learning objectives. During the second nine-weeks, students were placed with a variety of construction, construction-related and facility management firms throughout the United Kingdom. The students submitted weekly internship reports that captured the knowledge and skills applied and acquired from their experiences.

Summer study abroad groups also traveled to Europe with visits to Great Britain, Spain and Germany.

Job Placement

The Department of Construction Science conducts the largest department-level career fairs of any program on the Texas A&M campus (See related story on Page 13). Four career fairs are held each year with two of the events dedicated to members of the Construction Industry Advisory Council.

The number of participating companies in the career fairs increased from 84 in spring 2012 to a steadily increasing record high of 140 companies in fall 2013. Construction Industry Advisory Council members accounted for 80% of the industry participation in the career fairs.



Studying abroad is a transformative experience for construction science students.

The department is unique in requiring students to complete an internship, making students available during the 15-week spring and fall semesters. The required professional internship program in the construction science curriculum is highly dependent on the participation of our industry partners

with Construction Industry Advisory Council members providing 73% of all professional internships. Many member companies use the career fairs and internships as a primary staffing and recruiting strategy.

CIAC member companies continue to be the primary employers of Texas A&M

Spring 2013 TAMU Construction Science graduates enjoyed 93% job placement.

Construction Science graduates with 89% of the reported accepted job offers upon graduation provided by CIAC members in fall 2013.

Job placement rates steadily increased as the state of the economy improved from 81% in spring 2012 to 93% for fall 2013. The increased placement rates were matched by increases in the average starting salaries with an average of \$ 57,870 being reported by fall 2013 graduates.

A summary of employment for 2012 and 2013 Bachelor of Science Construction Science graduates is provided in Attachment B, "Hiring Data," on page 34.

A senior exit survey is conducted three weeks prior to graduation. The actual placement rates at graduation are higher since some students have job interviews and job offers pending at the time of the survey.

The typical strategy for hiring graduates from the construction science program is to: (1) join the Construction Industry Advisory Council, (2) take advantage of the free booth at the CIAC member-only career fair each semester, (3) hire interns for a full semester internship and provide the students with an excellent learning experience, and (4) extend a job offer to the interns prior to graduation.



Students visit the site of the Macy's department store in Houston, which was demolished Sept. 22, 2013. The Cherry Companies are removing the remnants to their recycling site in South Houston.

Students make field day trips to diverse construction businesses

Texas A&M construction science students fanned out Nov. 1 to visit five construction-related businesses across the state where they viewed the latest construction, material production and manufacturing practices as part of their fall 2013 semester field day activities.

The Department of Construction Science hosts the daylong event each semester for students to experience the challenges and rewards of construction industry work.

This semester's destinations included Acme Brick in Elgin, Cherry Companies which provides building demolition and recycling services, Fluor, an engineering

and construction company in Houston, Nucor Steel in Jewett and Heldenfels Enterprises in San Marcos.

The department hopes to pique student interest with venues that demonstrate the construction industry's diversity, said George Eustace, senior lecturer of construction science.

In downtown Houston, for instance, students visited a site where Cherry Companies is removing the remains of the recently demolished Macy's department store to its South Houston headquarters where the recovered concrete, steel and other materials will be recycled.

Faculty

Professor **John Bryant**, returned to the faculty in July 2013 after eight years as a professor in mechanical engineering at Texas A&M University, Qatar, where he taught a two-course freshman engineering sequence and a senior heat transfer course. During his tour in Qatar, he also taught freshmen courses, a senior heat transfer/fluids/thermo course and a mechanical engineering senior laboratory. His favorite course was the heating, ventilation and air conditioning (HVAC) design course.

Professor Bryant's research interests are focused on HVAC systems and the energy performance in buildings. Since his return to the College Station campus, he has started work on revamping the mechanical, electrical and plumbing portions of the curriculum.

Professor **Ben Bigelow**, who joined the faculty in 2011, enjoyed a faculty internship during the summer of 2013 with Balfour-Beatty in Dallas as part of an ongoing program for new tenure-track faculty.

During his month-long stay, he worked with the company's large projects pre-construction group where he was involved in various stages of the pre-construction process for four different projects. Bigelow has applied the internship experience to improving the estimating courses he teaches each semester.

In addition to teaching, he is the faculty advisor to the National Association of Home Builders student chapter, and coach of the residential construction



Professor José Fernández-Solís received the 2012 J. Thomas Regan Interdisciplinary Faculty Prize.

competition team. His research interests include affordable, sustainable construction and universal design.

Professor **Kunhee Choi** earned early career excellence in undergraduate teaching by winning recognition as a Texas A&M Center for Teaching Excellence Montague Scholar. The award is named in honor of Kenneth Montague '37, a distinguished alumnus and outstanding trustee of the Texas A&M Foundation, who had a long and storied career in the Texas oil industry. Established in 1991, the award includes a \$6,500 grant to encourage further development of teaching excellence.

A member of Texas A&M's faculty since 2010, Choi is interested in transportation infrastructure construction and project management.

His work investigates unique building challenges facing state transportation agencies and the business sector focusing on infrastructure modeling, optimization and information technology to improve the efficiency and sustainability of the transportation system.

Professor **José Fernández-Solís** was awarded the 2012 J. Thomas Regan Interdisciplinary Faculty Prize. The prize was established by members of the College of Architecture's Dean's Advisory Council to honor former dean J. Thomas Regan, a champion of interdisciplinary education in the built environment disciplines. It is awarded annually to a faculty member selected by a faculty committee from a pool of nominees.

The 2012 award was based upon Professor Solís' emphasis on

interdisciplinary education, including a graduate capstone class that included students in civil engineering, construction management, property and land development and architecture programs.

A faculty member since 2006, Fernández-Solís' teaching, research and engagement focuses on sustainability, environment, theory, capstone materials and methods and advanced project management.

Ph.D. Student Instructors

The ability for the department to meet expanding instructor needs precipitated by increased student enrollment in 2012–13 was achieved with the addition of three young professionals pursuing doctoral degrees at the Texas A&M College of Architecture.

Mike Duff joined the Texas A&M faculty as a doctorate student in January 2012 and serves as a graduate assistant. He earned a Bachelor of Science in Construction Management and a Masters of Business Administration from Brigham Young University. He has 20 years of work experience as a laborer and crew leader with multiple construction companies.

Duff's research interests include cloud computing for the construction industry, construction project finance, and construction scheduling. He teaches classes in estimating, scheduling, and construction graphics.

Darrell Thompson joined the Texas



Architecture Ph.D. students Darrell Thompson, Mike Duff and Yang Liu teach several classes.

A&M faculty as a doctorate student in January of 2012 and serves as a graduate assistant. He earned a Bachelor of Science in Construction Management from Colorado State University and holds an Executive MBA from the University of Denver.

Thompson has over 15 years of work experience including the last 11 years acting as the president for a small firm in Denver and Grand Junction, Colorado. His research interests include building information modeling and facility management, as well as technology in construction.

He teaches classes in introductory construction, estimating (introductory and advanced), and construction equipment and methods. He is a licensed commercial contractor in Colorado and

a member of the Associated General Contractors.

Yang Liu joined the Texas A&M faculty as a doctorate student in August 2013 and serves as a graduate assistant. He earned a Bachelor of Science in Safety Engineering from the Jilin Institute of Architecture and Civil Engineering in Changchun, China, and a Masters of Science, Construction Management from Texas A&M University.

Liu worked as an assistant consulting engineer for Changchun Engineering Consultation preparing feasibility studies, estimating and scheduling of construction projects. His areas of research and study includes building information management. He teaches an introductory course on computer and construction graphics.



Visiting construction professionals David Fleming (left) and Larry Fickel listen with construction science lecturer George Eustace as student Zachary Hladek (center) resolves an ethical quandry. Above, Casey Cody takes her turn during the presentation while team member Shannon McShane listens in.

Industry panelists hear students resolve ethical quandaries

Ethical quandaries were woven into a scenario presented to third-year construction science students at Texas A&M who were tasked with identifying and addressing the tricky predicaments in oral presentations before a panel of industry professionals.

In the scenario, a contractor met quietly with a school board president about building a new skills training center after the contractor's firm had helped the school establish the training program; however, a historically underutilized business (HUB) eventually won the bid. Also, the contractor's proposal suggested that students could receive on-the-job training by performing some of the work on project.

The scenario was further complicated when the contractor protested the contract's award to the HUB firm. To advance his case, the contractor met with the judge who would rule on the bid protest to discuss his reasoning. The state

residency requirement for HUB certification was one of the issues to be weighed by the judge, whom the contractor had recently endorsed for re-election and also contributed funds for his campaign. There were other issues, as well, subtly tucked into the scenario that dealt with safety, and knowledge of applicable laws and regulations.

Students troubleshooting the ethical dilemmas, which were developed from examples in the American Institute of Constructors' Code of Ethics, were also asked to identify which AIC standard applied to each issue and to suggest recommendations or refinements to the AIC code.

From the 13 student teams submitting solutions to the scenario, construction science faculty picked the five best teams to present their work to a panel of industry professionals.

The industry panel included:

- Larry Fickel, area manager at Sundt;
- David Fleming, vice president of Sundt, which has a regional office in San Antonio, and
- James Weiss of Lewis Realty Advisors.

The ethics team competition was very close, the jurors noted, with each team presenting an insightful analysis of the scenario. Two teams suggested changes to the wording of the AIC's ethical standards that caught the interest of Fleming, who is an AIC member and chair of the AIC Constructor Certification Commission. He said he would share the teams' suggestions at the next AIC national meeting.

The winning team — Elliot Patrick Fuller, Zachary Hladek, Richard Kloss and Christina Martinez — was ultimately chosen, said the jurors, for identifying the legal and safety risks associated with using underage students on the project.

Construction science intern assumes BIM responsibilities

It's unusual for an intern to head meetings between mechanical, electrical and plumbing subcontractors at a construction jobsite, but Tanner Trimm, a fourth-year construction science student at Texas A&M, did just that because of what he'd learned in a building information modeling class.

Trimm, interning from Aug. 2012 – Jan. 2013 with Manhattan Construction Company, saw an opportunity to deepen his role at the site when the project architect stopped providing computer assisted design files, which the site's senior field engineer was using for the project.

"I was the only one on the team who knew how to create CAD files from a BIM model," said Trimm, who had previously taken a BIM class led by Julian Kang, associate professor of construction science. A BIM model is a virtual, 3-D representation of a building and its systems.

"I told the project manager if they could provide the BIM program I would be more than happy to handle that responsibility," he said.

Then, because Trimm was the only person at the jobsite familiar with BIM's clash detection capabilities — which identify when a design inadvertently contains, for instance, water pipes and air ducts in the same place — the site's project manager chose Trimm to lead the project's clash detection meetings with

mechanical, electrical and plumbing subcontractors.

"Because I was just an intern, I was hesitant to preside over the meetings, since the subcontractors were more experienced," said Trimm. "But the senior project engineer helped me coordinate every meeting."



Trimm

Before his internship ended, Trimm left instructions at the site so the BIM-based clash detection efforts could continue.

"I created a few instruction documents and created all the necessary filing systems and forms to use," he said.

Trimm was coordinating clash detection in addition to his internship's original responsibilities, which included handling information requests from subcontractors and new worker safety training.

"Most of the requests came from subcontractors and bidding companies asking to clarify specific parts of the project drawings," said Trimm.

He also helped the site's safety engineer familiarize new workers with Manhattan's safety procedures and the jobsite.

"I was introduced to a lot of aspects of the construction industry during my internship," said Trimm. "All of it has been very beneficial to my growth as a future construction professional."

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Summary of employment for 2012–13 Bachelor of Science Construction Science graduates.

	SPRING 2012	SUMMER 2012	FALL 2012	TOTAL
NUMBER OF GRADUATES	99	23	72	194
NUMBER OF GRADUATES PROVIDING DATA	23	12	37	72
STARTING BASE SALARY *				
Maximum	\$ 72,500.	\$ 68,000.	\$ 70,000.	\$70,465.
Average	\$53,239.	\$ 53,567.	\$ 55,452.	\$54,431.
Minimum	\$ 37,000.	\$ 50,000.	\$ 40,300.	\$40,863.

	SPRING 2013	SUMMER 2013	FALL 2013	TOTAL
NUMBER OF GRADUATES	82	20	60	162
NUMBER OF GRADUATES PROVIDING DATA	34	13	39	86
STARTING BASE SALARY**				
Maximum	\$ 84,000.	\$ 66,100.	\$ 69,600.	\$ 73,898.
Average	\$ 54,818.	\$ 54,973.	\$ 57,870.	\$ 56,384.
Minimum	\$ 30,000.	\$ 45,000.	\$ 47,500.	\$ 41,211.

* Information on starting salaries for all majors within the College of Architecture at Texas A&M University is available at: careercenter.tamu.edu/guides/reports/WhoHiresMyMajor/ArchitectureIndex.cfm



TAMU Foundation Construction Industry Advisory Council 2012 Budget

January 1, 2012 – December 31, 2012

Retained Earnings (01/01/12)	\$ 95,489.46
Income	
Corporate Membership Dues	\$ 200,000.00
Individual Membership Dues	\$ 1,000.00
Interest	\$ 3,338.52
Interest Balance in CIAC Support Fund	\$ 4,450.00
Total Income	\$ 208,788.52
Total Available Funds	\$ 304,277.98
Expenses	
Student Competition	\$ 6,000.00
Graduation Event	\$ 1,000.00
Annual Banquet	\$ 15,000.00
Research Studies	\$ 25,000.00
¹ Individual Scholarship	\$ 15,000.00
² Endowed Matching Scholarship	\$ -.
Program Enhancement	\$ 45,000.00
³ New Building Program	125,000.00
CIAC Meeting Expense	\$ 15,000.00
CIAC Endowment - CIAC Support Fund	\$ -.
AIC Certification Exam	\$ 3,000.00
Former Student Members Promo - Tailgate	\$ 2,000.00
Development Fee & Credit Card Collection Fee	\$ 10,050.00
Audit Fund	\$ 750.00
Total Expenses	\$ 262,800.00
Balance	\$ 41,477.98

¹ Funded with Differential Tuition

² Funds to be used for Francis Hall Capital Campaign in 2012

³ Funds from Endowed Matching Scholarship and Retained Earnings

Construction Industry Advisory Council — 2011 Budget

TAMU Foundation Construction Industry Advisory Council 2013 Budget

January 1, 2013 – December 31, 2013

Retained Earnings (01/01/13)	\$ 74,604.88
Income	
Corporate Membership Dues	\$ 210,000.00
Individual Membership Dues	\$ 1,000.00
Interest	\$ 2,966.04
Interest in CIAC Support Fund	\$ 4,446.00
Total Income	\$ 218,412.04
Total Available Funds	\$ 293,016.92
Expenses	
Student Competition (Five Teams)	\$ 10,000.00
Graduation Event	\$ 2,500.00
Annual Banquet	\$ 17,500.00
Research Studies	\$ 25,000.00
¹ Individual Scholarship	
Student Recruitment Program	\$ 15,000.00
² Endowed Matching Scholarship	\$ -
Program Enhancement	\$ 45,000.00
New Building Program	\$ 95,000.00
CIAC Meeting Expense	\$ 20,000.00
CIAC Endowment - CIAC Support Fund	\$ -
AIC Certification Exam	\$ 3,000.00
Former Student Members Promo - Tailgate	\$ 2,500.00
Development Fee & Credit Card Collection Fee	\$ 10,550.00
Total Expenses	\$ 246,050.00
Balance	\$ 46,966.92

¹ Differential Tuition Funds Available

² Funds to be used for Francis Hall Capital Campaign





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