

Construction Industry Advisory Council

2010-11 REPORT

BIM-CAVE

Department unveils
computer-aided virtual
environment facilities

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Francis Hall

Department raising funds
to ready new central
campus headquarters

• Read story — Page 4



CONSTRUCTION SCIENCE
TEXAS A & M UNIVERSITY

2010-11 Report: Construction Industry Advisory Council

“We are supporting the program because we like the end product: energetic, well-trained, and knowledgeable graduates who are increasingly tech-savvy; the perfect recipe for improving the construction process.”

— George Pontikes, president
Satterfield & Pontikes Construction Company
On support of Francis Hall Building Campaign



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CONSTRUCTION SCIENCE
TEXAS A & M UNIVERSITY



“Our refinement of the curriculum and enhancement of the program contributed to a very successful reaccreditation review in 2011.”

— Jerry Hoog
CIAC President
2010-11

Howdy,

It has been my honor and privilege to serve as the president of the finest industry advisory board in the construction industry for 2010 and 2011.

Among the many highlights I have enjoyed during my tenure have been the opportunities to represent the Texas A&M Construction Industry Advisory Council at annual national industry advisory board conferences sponsored by the American Council for Construction Education. The conference attendees from the top programs of construction education in the country were eager to learn about our work advancing the facilities, scholarships, research, faculty, students and curriculum at Texas A&M University. We can take pride in the fact that CIAC has had an impact in all 20 of the ACCE’s benchmarks for construction industry advisory boards excellence.

I am especially grateful to our member companies that remained active in various CIAC events, such as semi-annual and summer meetings, career fairs and the annual awards banquet, during a challenging time with increased competition for work and tightened budgets. Our refinement of the curriculum and enhancement of the program contributed to a very successful reaccreditation review in 2011, which acknowledged that the CIAC was a primary strength of the overall program of construction education at Texas A&M University.

As we move into 2012, we are seeing some increase in membership and participation at all levels. The timing could not be better as the next two years holds the prospect of a new home for construction education at Texas A&M with the renovation of historic Francis Hall. Our individual and corporate marks on this significant achievement will help ensure that future graduates will benefit from a state-of-the-art facility.

In closing, I commend CIAC Executive Committee members for their leadership of the various committees that ensured the council’s critical business was addressed in an orderly, effective manner. Without their dedication and commitment of time, our full execution of each meeting agenda would not have been possible. As Richard Palmer assumes the reins of leadership for 2012-2013, a smooth and professional transition is assured with his dedication to and knowledge of CIAC objectives gained from his years of service as vice-president and as chair of the budget and curriculum committees.

Thank you for your outstanding support of one of the finest programs of construction education in the nation, which will undoubtedly continue to produce graduates destined to assume leadership of a dynamic and important industry.

Jerry Hoog
President

During the challenging years of tight budgets and increased demand for effectiveness and accountability in graduating students in a timely, quality manner, the dedication and commitment of our industry partners remains this program's greatest asset. CIAC members can take pride that their activities were noted as a strength in the American Council for Construction Education assessment of our program after their 2011 reaccreditation visit. CIAC's semi-annual meetings produced tangible results addressing important program, curriculum and research issues related to ACCE's academic standards.

Texas A&M's construction education program is in an excellent position to enjoy unparalleled growth and enhancement as a result of CIAC's 2010-11 accomplishments. The assignment of historic Francis Hall to the Department of Construction Science will provide a larger, state-of-the-art home for construction education at Texas A&M in a more visible central campus location. Programming for the specific layout and functional use of the 35,000-square-foot building is under way, with input provided by CIAC industry partners, faculty and students. Capstone classes are focusing on a viable renovation plan for Francis Hall.

A major step in preparing for the move was the 2011 ribbon cutting for our new Building Information Modeling (BIM) Laboratory and Computer Aided Virtual Environment (CAVE). These facilities enhance our program's leadership role in BIM research while training students in the application of this important emerging technology. Our graduates currently fill key BIM-related positions in CIAC-member companies and demand is increasing for young professionals with BIM expertise.

The strong sponsorship of our capstone classes by CIAC-member companies has enhanced our preparation of students for leadership roles in the construction industry. Students rate these classes among our best and most demanding.

Engaging in construction industry projects with subject matter experts from the industry provides scenarios that challenge students to apply their acquired knowledge, problem-solving skills and communication abilities, while benefitting from critiques from practicing professionals.

As we look forward to the challenges and opportunities of 2012-13, we want to ensure that each of our industry partners continues to enjoy priority access to our students and graduates by participating as competition team sponsors, field trip hosts, career fair attendees, internship providers, specific course sponsors and guest speakers in classes. The important roles that each of you play in the success of our program cannot be over emphasized. 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



“The strong sponsorship of our capstone classes by CIAC-member companies has enhanced our preparation of students for leadership roles in the construction industry.”

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CIAC Executive Director



Department launches \$5 million building campaign to adapt, renovate new headquarters in Francis Hall

The Department of Construction Science at Texas A&M University has launched a \$5 million campaign to adapt and renovate Francis Hall, one of the most historic buildings on campus, as the state's first facility dedicated to construction teaching, research and industry service.

Located in the heart of campus near the Evans Library, the building will serve as academic headquarters for the department's 700 students and 30 faculty. Once renovated, it will house state-of-the-art classrooms and laboratories, as well as faculty offices, conference rooms, study lounges and meeting space for student organizations.

"Construction is one of the largest industries in Texas and Texas A&M is home to the largest, most influential construction science department in the state," said Joe Horlen, department head. "It's fitting and deeply satisfying that our Francis Hall Construction Science Center will be Texas' first stand-alone education and research facility devoted completely to the discipline."

The \$5 million building campaign was launched after The Texas A&M System Board of Regents green-lighted the project at its Feb. 9, 2012 meeting in Corpus Christi.

Boosting the initiative, Horlen said, is \$1.7 million in private donations already committed toward the goal. Funds raised by the campaign, he said, will supplement \$4.5 million provided by Texas A&M University for remediation and renovation of the 94-year-old structure, which originally housed the university's veterinary medicine programs.

"We are supporting the program because we like the end product: energetic, well-trained, and knowledgeable graduates who are increasingly tech-savvy; the perfect recipe for improving the construction process," said campaign contributor George Pontikes, president of Satterfield & Pontikes Construction Company of Houston.

Other contributors to the Francis Hall Construction Science Center building campaign include: the Department of Construction Science's Construction Industry Advisory Council,



James R. Thompson '68 of Kaufman, Glenn and Helen Keaton '85 of San Antonio, Ronald Gafford '72 of Dallas, George Eustace '77 of Bryan, Clark Construction Company of Bethesda, Maryland, Alpha Building Corporation of San Antonio, Friends of John A. Harris '54, Tom Owen '73 of Houston, James Buie of Ross, California, Jerry Lea of Richmond, and James H. Greer '47 of Houston.

The campaign, Horlen said, reflects a true investment partnership between the university, the private sector and our former students for the future of the construction industry.

"We graduate more than 175 students each year and a recovering economy is creating an even greater demand for our graduates," said Horlen. "This new, state-of-the-art education and research facility will give us much needed room to grow and prepare a new generation of highly trained and uniquely able construction professionals."

The Department of Construction Science at Texas A&M prepares students for leadership positions in one of the nation's largest industries. By integrating principles of architecture, technology, engineering, business and project management, its programs ready graduates to effectively manage all aspects of the construction and project delivery process.



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

About the Construction Industry Advisory Council

Objectives

Since its January 1998 inception, 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.

A key contribution of the industry professionals in CIAC is the real-world experience they bring to the program, which enhances all aspects of teaching, research and service, making the department a national leader among an elite group of outstanding schools of construction higher education.

Through their myriad contributions, CIAC members sustain a strong, mutually beneficial partnership enabling the construction education program at Texas A&M to better educate and train highly sought, competent young professionals to fill industry positions.

Council members' involvement in the academic process was evidenced by the large number of guest speakers, class sponsors, internships, field trips and scholarships provided throughout 2010-11. The frequent presence of council members on campus creates opportunities for an open dialog, cooperation and coordination between members, faculty and students that advances the quality of the classroom education and internships.



Students in George Eustace's Construction Estimating class reference plans for a local bank to perfect their skills in reading construction drawings to develop a list of required building materials. Enhancing students' abilities to read construction documents was identified as a critical skill by CIAC members who helped review the construction science curriculum.

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 October 2008. This document clearly defines principles, policies and procedures that guide this organization made up of over 80 business entities and 50 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:

<http://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 insure that expenditures are in accordance with approved budgets.
2. **Research and Studies:** The purpose



Design/Build Competition Team member Aaron DiFilippo tells CIAC members about his team's win at a Dallas Associated Schools of Construction competition. The team presented solutions for the construction of a history center in Denver.

- of this committee is to determine the priorities for spending CIAC funds on research and studies to further the CIAC objectives. The council sets goals in this area with the input of research faculty members who are funded by and report to CIAC on an annual basis.
 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.

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, MCA, 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



Students in a commercial capstone course led by José Fernandez-Solís, assistant professor of construction science, pause while touring a Satterfield & Pontikes high school project in Addison, Texas.

Construction Science, are not required to pay dues, but may vote on CIAC issues. Associate Members are listed on Page 32.

- **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 three levels of Individual Membership. 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 at: Construction Science Department / Industry Relations Office –

CIAC / 3137 TAMU / College Station, TX 77843-3137.

Web: <http://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.

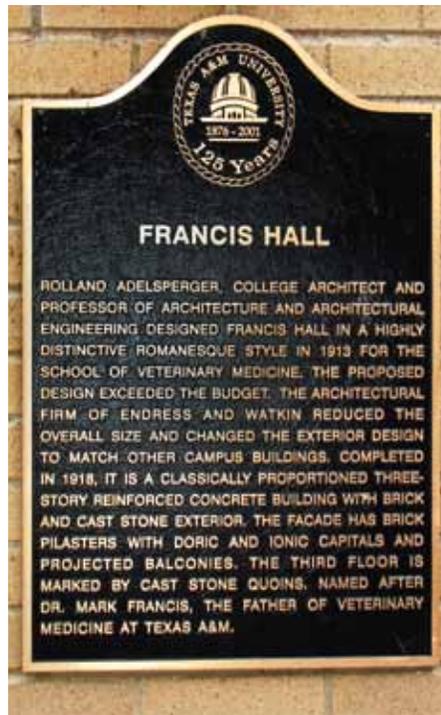
Executive Summary

Subsequent to each Executive Committee and CIAC meeting, the minutes of each meeting are recorded and distributed to the membership.

A meeting agenda is also prepared and provided to the membership prior to each meeting. A summary of the issues addressed in the full council meetings during 2010-2011 follows:

April 2010 — The primary work during the April 2010 meeting included industry-student working groups that developed recommendations on improving the students' abilities to interpret construction plans and contract documents, provision of more field trips and guest speakers, continued emphasis on writing and communications skills, and enhancement of the academic advising support that is available. Professor Daigneault briefed the members on the upcoming fall 2010 combined study abroad and internship in the United Kingdom.

October 2010 — The emphasis during the October 2010 meeting was on faculty presentations and industry reviews of ten courses in the Construction Science curriculum. There was strong industry support for inclusion of building information modeling (BIM) and leadership in energy and environmental design (LEED) into various levels within the COSC curriculum. Improvement in the manner in which construction safety is taught was noted with the need for safety to continue to be a prerequi-



At the October 2011 CIAC meeting, members suggested programming considerations for the department's new Francis Hall facility.

site to the professional internship.

April 2011 — Industry recommendations on the ways to improve the department's recruitment process for new students in order to attract more and better students with wider diversity were developed during the various committee working sessions of the April 2011 meeting. In addition, each committee was provided internet access to the department's revised website and tasked to review the content and presentation of information. Particular

attention was given to the site's "Prospective Students" page. The results of the initial offering of an internal student team competition on professional ethics in construction were presented. The membership was briefed on the accreditation process and the various opportunities for CIAC member participation as a member of the visiting team and as guests at a dinner event with the visiting team. An assistance fund for COSC students was established.

October 2011 — The October 2011 meeting allowed the membership to participate in the initial programming requirements for Francis Hall as the new home of the Construction Science Department. Each committee was asked to develop a list of ideas on how best to utilize the increased amount of available classroom, laboratory and office space, and identify requirements to enhance the educational process for future students. A faculty member and a student from the capstone classes were assigned to each committee to answer questions on the building's layout and construction. One of the teams from the capstone classes presented their work on the layout, estimate, and schedule for renovating Francis Hall. The membership toured Francis Hall. Jerry Hoog of Bartlett Cocke General Contractors closed the meeting by thanking the assembled group for their hard work and dedication throughout his tenure as president, and stated that the CIAC is what makes the overall program of construction at Texas A&M one of the best in the nation.

Budget Committee

The Budget Committee was chaired by Richard Palmer of Satterfield & Pontikes Construction, Inc. 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 2010 and 2011 are provided on Pages 35 and 36.

The primary issue of concern during 2010-2011 was how slow economic conditions in the construction industry would affect membership. A positive trend in the number of business entity members was experienced in 2011 with a growth to 84 members.

The budget committee approved the transfers of \$10,000 in 2010 and 2011

from the CIAC's Foundation Account to the \$75,000 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.

CIAC also pledged \$250,000 towards the construction of the "CIAC Industry Relations Suite" in Francis Hall.

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

Student enrichment funds were provided for student competitions, graduation events, awards banquet,

career fairs and the associate constructor exams.

The department fielded student competition teams each year with financial support from the CIAC. The Commercial Building Competition Team competed in the Associated Schools of Construction competitions with a third-place finish in 2010 and a second-place finish in 2011. CIAC member, Joeris General Contractors, Inc. sponsored the team.

Additional teams competed in the ASC Heavy Civil/Highway competition, Associated Builders and Contractors competition, National Association of Home Builders competition, and the Construction Management Association of America competition.

In addition to these external student competitions, an internal student competition was started spring 2011 with the establishment of COSC 381 – Ethics in the Construction Industry class. Four person teams presented their analysis of an ethical scenario to a panel of industry professionals using the American Institute of Constructors Code of Ethics. CIAC members Larry Fickel, David Fleming of Sundt and Helen Keaton of Joeris General Contractors, Inc. served on the industry panel.

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



The Texas A&M Commercial Building Competition Team earned second place at the Feb. 14, 2011 TEXO Region V student competition in Dallas with a building proposal for the \$11 million Zachary Scott Theater Center in Austin. Team members, from the left, Josh Fluker, Matt Luchak, David Claros, Sam Garrett, James Goss, Charles "Chip" Myers and Ethan Cook, were coached by George Eustace, senior construction science lecturer, and sponsored by Joeris General Contractors, Inc.

and their name on a permanent wall plaque. The award winners for 2010 and 2011 are provided on Page 20. The graduates select a guest speaker from among the faculty. This honor was extended to Professors Robert Segner and Ron Workman in 2010 and 2011.

The annual Spring Scholarship and Awards Banquets were held April 8, 2010 and March 31, 2011 at the College Station Hilton. Each business entity member is entitled to a table for four at this event. The guest speaker for the 2010 banquet was Raleigh Roussell, executive director of the TEXO Construction Association, and for the 2011 banquet was Dr. Marianne Jennings, a member of the Department of Management in the W.P. Carey School of Business at Arizona State University and a professor of legal and ethical studies in business.

The first scheduled career fair each semester is reserved for CIAC member firms only in keeping with the entitlement of our industry partners to priority access to our students and graduates. Student participation in these events averaged over 300. The CIAC career fairs are the largest department level career fairs held on the Texas A&M campus.

Beginning with the 2010 budget, the CIAC annually set aside funds to encourage graduating seniors to participate in the American Institute of Constructors Associate Constructor exam by assisting with the exam registration fee. As a result, the level of student participation in this national exam increased from 33% to 60% percent.



Author, professor and business expert Marianne Jennings, left, engages students. Ryan Kordic, right, and Brad Zemanek during an industry ethics presentation to construction industry professionals.

Construction science students present industry ethics papers to panel of pros

For a class exercise, third year Texas A&M construction science students grappled with industry ethics issues then faced a panel of industry professionals and a nationally renowned business ethics expert who peppered them with questions about their responses to ethical quandaries.

Initially working on the assignment in teams of four, students in a Construction Industry Professional Studies class identified and developed responses to ethical predicaments presented in a hypothetical scenario. The team reports were reviewed and ranked by construction science faculty members Melissa Daigneault, Debra Ellis, George Eustace and Jim Smith, who selected the top eight reports for oral presentations on March 31 to the panel of experts.

Ethics panel participants were:

- Marianne Jennings, professor of legal and ethical studies in the W.P.

Carey School of Business at Arizona State University and author of “The Seven Signs of Ethical Collapse: How to Spot Moral Meltdowns in Companies ... Before It’s Too Late” and other books on business ethics;

- Construction industry veteran Larry Fickel of MWH, a former CIAC president;
- David Fleming, vice president of Sundt; and
- Kim Kobriger, managing partner, Lewis Realty Advisors.

The student team garnering top honors in the exercise included Matthew Crane, Scott Beatty, Robert Shields and Christine Nguyen.

Jennings, a highly sought speaker on business ethics, also delivered the keynote address at the Department of Construction Science Spring 2011 Awards Banquet held that evening at the College Station Hilton.

Scholarships

The annual budget provides funds for various scholarship programs each year. The first budgeted amount is for the Individual Freshman Scholarship that provides a \$1000 scholarship to encourage a student to accept their admission into the Construction Science program. Special attention is given to first-generation college students. The numbers of scholarships awarded to incoming freshmen were 12 and 15 respectively in 2010 and 2011.

The second scholarship expense is for the Endowed Matching Scholarship that provides a \$10,000 match for a CIAC member that 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.

Five new endowed matching scholarships were added in 2010-2011 bringing the total number of scholarships to 66 with an endowed value of \$ 2,640,497 at the end of 2011.

New scholarships were established by:

- the American Subcontractors Association in Houston,
- Keith and Debra Ellis,
- Helen and Glenn Keaton,
- Leducor Group of Companies, and
- The Beck Group Aggies.

Additionally, Larry Fickel added to his existing endowed scholarships with a new gift.

The scholarship presentation



The Leducor Group of Companies was among several CIAC-member firms to endow construction science scholarships in 2010-11. Representing Leducor and presenting the new scholarship at the Department of Construction Science's Spring 2010 Scholarship and Awards Banquet was former student Samantha Byrd Kacir '10, second from left. Receiving the scholarships were Class of 2012 students Paden Busboom and Rachel Hadfield. Flanking the trio, above, are Jorge Vanegas, dean of the Texas A&M College of Architecture and Joe Horlen, head of the Department of Construction Science.

ceremony is held each year at the College Station Hilton. The ceremony is planned and conducted by the Sigma Lambda Chi Honor Society. A representative from each scholarship provider presents their scholarship certificate to the deserving student and shares a reserved table at the banquet event that follows.

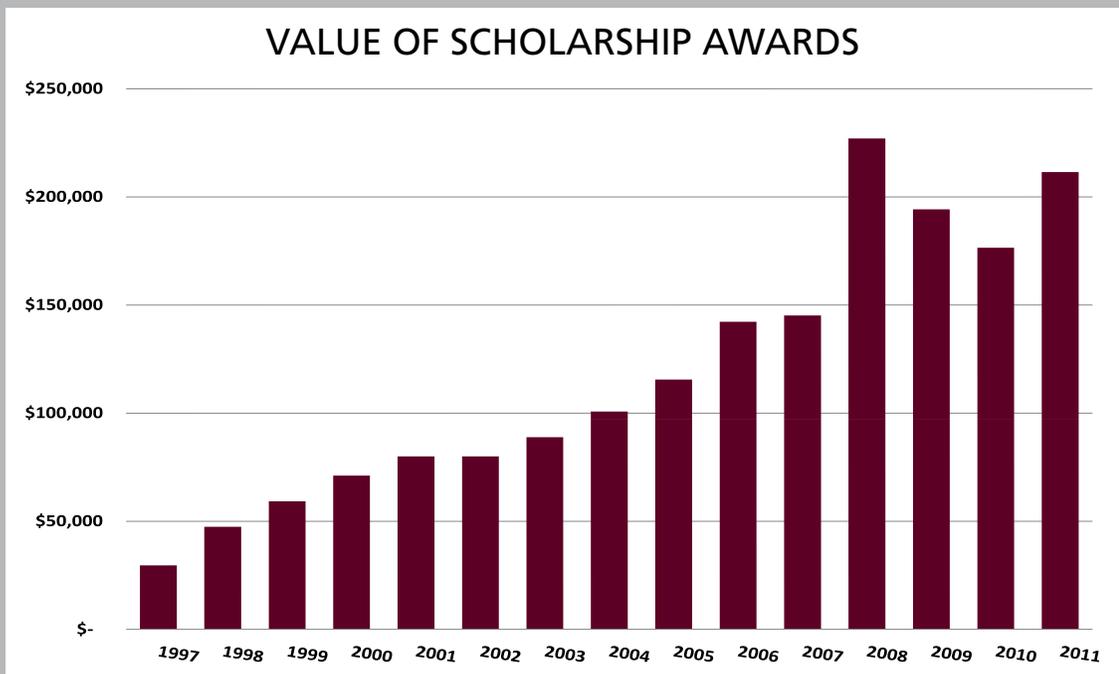
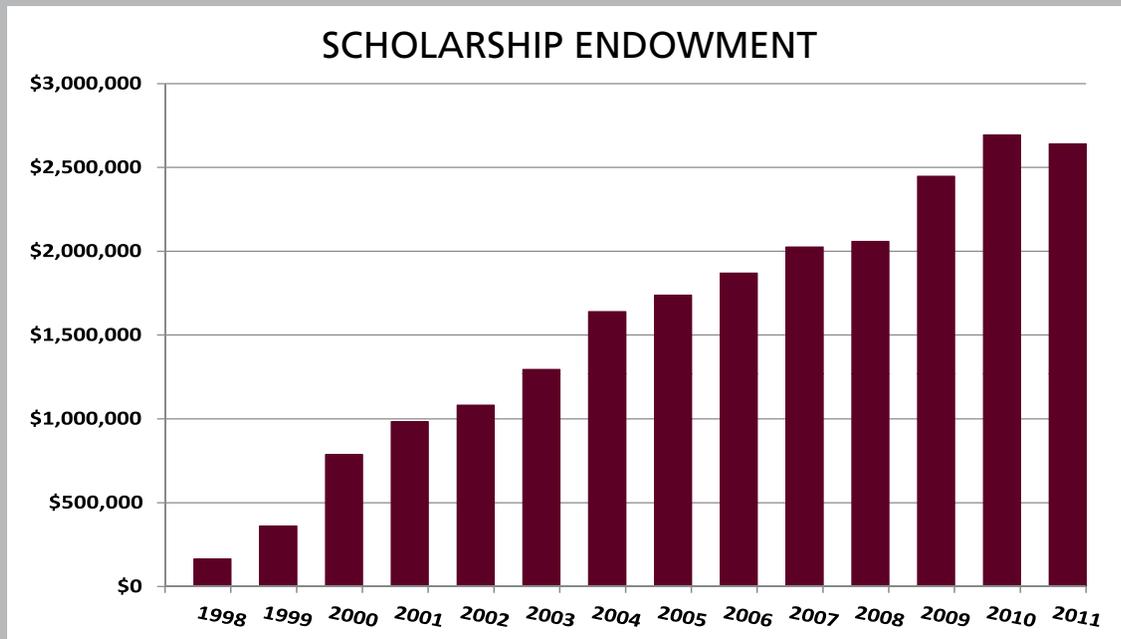
The number of scholarships and the total values awarded during the scholarship ceremony were 123 students for \$176,500 in 2010, and 143

students for \$211,500 in 2011.

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.

To encourage participation in the Summer 2010 Study Abroad Program, the Construction Industry Advisory Council funded individual scholarships that helped defray the students' travel expenses.

After a steady annual increase of approximately \$200,000 over the 10-year period from 1999 to 2009, the rate of annual growth slowed with the weaker 2010-2011 economic conditions. The decrease in the total value of the scholarship endowment is attributed to the lower market prices for the investments currently held since new endowed matching scholarships were added to the portfolio.



Over 300 students compete each year for college and department endowed scholarships from external professional organizations, individuals and private companies. Applications are accepted in the January – February timeframe each year. 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.



Zofia Rybkowski



Miro Escamilla



Kunhee Choi

Departmental Support

The 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.

One of the newer uses of the departmental support funds was faculty fellowships for new tenure track faculty. During the fellowship, a new faculty works directly with a CIAC member during a summer term to be exposed to industry techniques and activities.

In summer 2010, Satterfield & Pontikes Construction Inc. provided a faculty fellowship to **Dr. Zofia Rybkowski**. Faculty fellowships during the summer of 2011 were provided by Vaughn Construction to **Dr. Miro Escamilla**, and by the Texas Department of Transportation to **Dr. Kunhee Choi**.

Progress towards setting aside the dollars for an endowed matching professorship was made in 2010 and 2011 by encumbering a total of \$60,000 towards this important faculty development objective.



The highly coveted, personalized "Aggie Constructor" hard hats, here readied to be awarded to graduating construction science students at semester's end, are paid for by CIAC funds.

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

The 2010 and 2011 budgets included the transfer of \$10,000 each year from the CIAC's Foundation Account to the \$75,000 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.



Professor Julian Kang demonstrates the department's computer-aided virtual environment equipment.

Department unveils BIM-CAVE, BIM Lab immersive visualization facilities

In a darkened room on the fourth floor of Texas A&M's Langford Architecture Center, construction science students using Building Information Modeling software can navigate through the bowels of a virtual building while visually immersed amid an array of 12 46-inch monitors.

Unveiled at an Oct. 10, 2011 ribbon cutting event, the Department of Construction Science's newest facility, the "BIM-CAVE," provides a unique high-tech vantage point for viewing details of an imagined building and its infrastructure, including heating, ventilation, air-conditioning, plumbing, electrical

and other systems. "BIM CAVE" is an acronym for "Building Information Modeling Computer-Aided Virtual Environment."

Texas A&M University President R. Bowen Loftin attended the BIM-CAVE unveiling, which included a demonstration of the innovative immersive visualization technology by Julian Kang, holder of the History Maker Homes Endowed Professorship. The event also featured a discussion on the application of BIM technology in the construction industry by George A. Pontikes Jr., president and CEO of Satterfield and Pontikes Construction, Inc., and a client

perspective on BIM by Vergel L. Gay, then director of facilities and planning for the Texas A&M University System.

Following the presentations, Kang led tours of the BIM-CAVE and lab, located on the 4th floor of Langford A.

The new facility allows viewers to immerse themselves in multiscreen BIM simulations powered by three powerful computers using standard BIM software, such as Revit. Potential image distortion on the left and right banks of the viewing array is controlled by software developed by civil engineering graduate students Adithya Ganapathi and Hussam Nseir with guidance from Kang.

The new 12-display array, realized by a \$50,000 gift from the Department of Construction Science Industry Advisory Council, is the second version of the immersive visualization system. The first iteration, a three-screen setup, was created with discretionary funds from the College of Architecture.

Kang said the new facility has already captured the attention of two construction companies engaged in campus building projects that wish to use the BIM CAVE for coordination meetings with subcontractors.

"This will give us a good chance to see how the CAVE can be utilized by industry," said Kang.

Among Kang's research objectives, he said, is to understand how a virtual environment can enhance the decisions of construction professionals.

"Aided by this technology," he said, "I believe their decision making will be a little bit different than if they were working in a real environment."

Curriculum Committee

The curriculum committee was chaired by Helen Keaton of Joeris General Contractors, Inc.

During the fall 2009 and 2010 CIAC meetings, faculty members gave presentations to the committees on their syllabi, schedules and learning objectives for all undergraduate construction science classes.

Following the faculty presentations, the committee members participated in open question and answer sessions with culminating closed sessions. The lists of questions and recommendations developed by the committees were provided to the department for consideration and response. An executive summary of the curriculum reviews was presented to the membership at the spring 2011 meeting.

This proactive effort to obtain the industry's perspective on current and emerging needs as they relate to the current coursework was a very important step in both the improvement of the program and the preparation for the reaccreditation visit in October 2011.

In conjunction with the industry review of the current slate of classes, the membership was briefed on the curriculum changes that would take place with the fall 2011 semester. The curriculum changes made in response to the industry's input concerned oral and written communications, reading construction drawings and contract documents, computer graphics and interdisciplinary studies.

Development Committee

The development committee was chaired by Bob Flowers of JE Dunn Construction Company.

The committee's efforts on programming for the design and construction of a new academic building for the construction program at Texas A&M were on hold due to the economic climate in 2010 and 2011. With the assignment of Francis Hall to the department in July 2011, the work of the development committee will be the programming of requirements and support of the capital campaign to be initiated in 2012.

Research Committee

The research committee was chaired by Richard Booher of Alpha Building Corporation.

The committee reviewed research grant proposals from the construction science faculty during their fall meetings, and received research progress reports during the spring meetings. One proposal is selected and funded each year with funding up to \$25,000.

During the spring 2010 meeting, the final product from the 2009 research grant to Dr. Boong Ryoo's development of "Primavera Scheduler/Microsoft Of-



Texas A&M University President R. Bowen Loftin cuts a ribbon, officially opening the Department of Construction Science's new Building Information Modeling Lab as Jorge Vanegas, dean of the College of Architecture, and Joe Horlen, head of the Department of Construction Science, look on.

Project Training Videos (DVD) and Workbooks for Construction Schedulers” in the form of multimedia-based training videos and workbooks were delivered and made available to all CIAC members. Various industry professionals have found this tailored training program very helpful. Requests for copies of the program can be made to the Industry Relations Office.

The research committee continued its sponsorship of the Research Road Tour in 2010 with presentations in Houston, Dallas, Austin and San Antonio.

The 2010 research grant was awarded to Dr. Jose Fernandez-Solis during the fall 2009 meeting. Dr. Fernandez-Solis’s proposal was “An Understanding of Quantifiable Waste in Building Construction Planning from the Metrics of the Last Planner® System”. An update on the status of the research was delivered during the spring and fall 2010 meetings. Dr. Fernandez-Solis concluded his research work with a final report at the end of 2011.

The committee reviewed two research proposals during the fall 2010 meeting for the 2011 research grant. The 2011 grant was awarded to Dr. Zofia Rybkowski for her proposed “Guidebook of Lean Construction” that includes Target Value Design and Integrated Project Delivery (TVD/IPD). The grant funded the work of three graduate student research assistants, Joshua Hullum, Manish Munankami and Aditi Kulkarni, and summer research salary for Dr. Rybkowski. It has enabled collaboration with Darren Smith, CEO of



José Fernández-Solis talks about quantifiable waste in building construction, as one of several construction science professors who shared their research findings with construction industry professionals at venues throughout Texas during a recent departmental Research Road Tour.

IPD Assured (CIMA Strategies), as well as trips to Dallas for observation of TVD exercises for Cook’s Children’s Hospital by Linbeck.

Preliminary teaching methods and materials were field-tested by Texas A&M students in a classroom setting during the spring 2011 semester, at an Executive CEO workshop for the Sisters of Charity Leavenworth Healthcare system in April 2011, and at a Lean Construction Institute meeting in Houston in June 2011. During April 26-28, 2012, a more comprehensive version will be field-tested at the Penrose/St. Francis Health Services owner-architect-general contractor-trade partner stakeholder

team meeting. Milestone deliverables include three Masters-level theses with the final deliverable being a field-tested workshop guidebook on TVD/IPD. An update on the status of the research was presented at the fall 2011 meeting and the date for the final report was extended to June 2012.

The committee reviewed two research proposals during the fall 2011 meeting for funding in 2012. Dr. Kunhee Choi proposed research on construction labor productivity and Dr. Boong Ryoo for applications of portable technologies for site project management. The committee voted to award a \$25,000 research grant to Dr. Ryoo.

Membership Committee

The membership committee was chaired by Keith McCoy, Jeremy Clary and Jake Sally, all of Balfour Beatty.

The committee's work included planning for the tailgate events each fall to encourage individual memberships, development of a slate of candidates for the executive committee, and identification of candidates for the Constructor Hall of Fame.

During their 2010 and 2011 meetings, the committee identified a need to have CIAC representatives at all ABC and AGC functions to support and encourage CIAC membership.

Individual memberships by former students that work for construction and construction-related companies were promoted. Former students working for the top 125 construction companies were invited to join CIAC and contribute to its impact on the construction education program at Texas A&M.

The committee recommended extending associate membership status to various professional and trade associations in the state. In order to advance the goal of increasing the level of interdisciplinary participation in CIAC, the committee also recommended reaching out to invite the participation of architects and engineers within the construction industry.

Awards

- **The Constructor Hall of Fame Award**, established in 2001, honors non-alumni who have made a difference



2010 Constructor Hall of Fame Award recipient **George A. Pontikes Jr.**, right, president and CEO of Satterfield & Pontikes Construction, Inc., and 2010-11 CIAC president **Jerry Hoog**, of Bartlett Cocke General Contractors.

in the industry and have helped advance the Construction Science program at Texas A&M. During the fall 2011 meeting, the CIAC membership voted to accept the membership committee's recommendation to open nominations to Texas A&M alumni.

The 2010 recipient was **George Pontikes, Jr.** president of Satterfield & Pontikes Construction Inc. Mr. Pontikes has been an enthusiastic contributor to the department's building information modeling program by providing equipment funds, and sponsoring the building information modeling class project.

In 2011, the award was presented to **David Harvey**, president of D.E.



2011 Constructor Hall of Fame Award recipient **David Harvey**, left, president of D.E. Harvey Builders Inc., and CIAC vice president **Richard Palmer**, of Satterfield & Pontikes Construction, Inc.

Harvey Builders Inc., a charter member of the CIAC, a strong supporter of the internship program and a major employer of Construction Science graduates.

- **Educator of the Year Awards** went to David Bilbo in 2010 and David Bilbo, James C. Smith, and Bob Segner in 2011.
- **Student Advocate of the Year Awards** were presented to Bob Segner in 2010 and Debra Ellis in 2011.
- **Excellence in Scholarly Work and Research Awards** were presented to Julian Kang in 2010 and Boong-Yeol Ryoo in 2011.



2011 Educator of the Year Awards went to, from the left, David Bilbo, Bob Segner and James Smith. Bilbo also received the same award in 2010. Presenting the award, at right, is Jim Elsner, a construction science student.



2010 Student Advocate Award recipient Bob Segner, left, with student presenter Mustafa Khan; and **2011 Student Advocate** Debra Ellis, right, with student Valerie Krchnak.



Excellence in Scholarly Work and Research Awards were presented to Julian Kang in 2010, second from left, with student Harsh Rebello, and Boong-Yeol Ryoo in 2011, far right, with student Aneesh Bhallero.



Gene Murphree – AGC Medals were presented, clockwise from top-left, to Brian Smith (Fall 2010) with Joe Horlen, department head, Ashley Shaw (Spring 2010), Douglas Doucette (Fall 2011), and Mustafa Khan (Spring 2011), pictured with Bob Segner, professor of Construction Science.

Awards

Three student excellence awards are presented at the end of each semester.

- **Gene Murphree – AGC Medals** were presented to Ashley Shaw (Spring 2010), Brian Smith (Fall 2010), Mustafa Khan (Spring 2011) and Douglas Doucette (Fall 2011).
- **Cumberland Craftsman Awards** went to Clayton Turner (Spring 2010), David Burkett (Fall 2010), James January (Spring 2011), Ron Johnson, Jr., (Fall 2011).
- **Outstanding Graduate Student Awards** were presented to Harsh Rebello, (Spring 2010), Navaneethan Rajan (Fall 2010), Chris Kiss (Spring 2011), and Abhijeet Singh (Fall 2011).



Cumberland Craftsman Awards went to, from the left, Clayton Turner (Spring 2010) with Bob Segner, David Burkett (Fall 2010), with Joe Horlen, and Ron Johnson, Jr., (Fall 2011), with Bob Segner. Not pictured, the late James January (Spring 2011), who was honored posthumously.



Outstanding Graduate Student Awards were presented, clockwise from top-left, to Harsh Rebello (Spring 2010), pictured between Julian Kang and Joe Horlen; Navaneethan Rajan (Fall 2010), with Joe Horlen; Chris Kiss (Spring 2011), with wife, son and Jim Smith; and Abhijeet Singh (Fall 2011), with Bob Segner.



Linda Todd Outstanding Support Staff Award honoree Shelley Smith poses with her family, from the left, aunt and uncle Rita and Mickey Presley, mom Connie Salsiccia and husband, David.

Superlative department support earns Smith top college honor

Lauded as “an indispensable asset” and “a shining example of dedication and commitment to everything that encompasses the College of Architecture,” Shelley Smith, an administrative coordinator at Texas A&M’s Department of Construction Science, was honored with the Linda J. Todd Outstanding Support Staff Achievement Award.

“She goes above and beyond the call to make sure tasks are done right,” said Leslie Feigenbaum, assistant dean for academic affairs at the College of Architecture. “As members of the faculty and staff, we appreciate Shelley’s dedication in helping the department be one of the best of its kind.”

Smith was instrumental, said George Eustace, industry relations coordinator in the department, in the planning and execution of every departmental event. “The planning for and participation in these events extended beyond the normal business hours of the office,” said Eustace. “She is reliable and can be depended on to do more than is expected.”

Job Placement

The Department of Construction Science conducts the largest department-level career fairs of any program on the Texas A&M campus. 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 a low of 71 in spring 2010 to a steadily increasing high of 92 companies in fall 2011. Construction Industry Advisory Council members accounted for 80% of the industry participation in the career fairs.

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 68% 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 Construction Science graduates with 70% of the reported accepted job offers upon graduation being provided by CIAC members.

Job placement rates increased from a low of 51% in 2010 to 68% for spring 2011 and 73% for fall 2011 graduating seniors. The increased placement rates were matched by increases in the average starting salaries with an average of \$54,375 being reported by fall 2011 graduates.

A summary of employment for 2010 and 2011 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 graduating in higher since some students have job interviews and job offers pending at the time of the survey.



JOB HUNTING



New Faculty

Dr. Edelmiro Escamilla, Jr. joined the Texas A&M faculty in Fall 2010 as a visiting assistant professor of construction science and became assistant professor of construction Science in fall 2011.

He holds a doctorate in architecture with an emphasis in construction science as well as a Masters of Architecture and Bachelors of Environmental Design, all from Texas A&M University. While pursuing his Ph.D., Escamilla earned graduate certificates in historic preservation and facilities management.

Prior to joining the Department of Construction Science, Escamilla worked as project manager in the Physical Plant, Engineering and Design Services at Texas A&M University. His professional experience includes architectural design, beginning with architectural internship at 3D/International in San Antonio.



Edelmiro Escamilla, Jr.

Escamilla is a member and past president of the Professional Hispanic Network and the Mexican-American Latino Faculty Association at Texas A&M.

His research interests center on project management, project performance, interdisciplinary design, site logistics, alternative delivery systems and historical preservation. He teaches Construction Project Management, and Methods and Materials I and II classes.

Dr. Kunhee “K.C.” Choi joined the Texas A&M faculty September 2010 as an assistant professor of construction science. He holds a doctorate in civil and environmental engineering from University of California at Berkeley, with advanced degrees from Texas A&M University (M.S. Construction Management) and Korea University (B.E. Architectural Engineering).

Prior to joining the Department of Construction Science, Choi was a field engineer for two years in the residential construction sector after serving in the Korean Army for 27 months. He



Kunhee Choi

has worked closely with state transportation agencies in California and Texas.

Choi has a broad background of industry experience in the areas of improved project delivery

and contracting systems. He has working relationships with major contractors and state transportation agencies across the nation that includes gather-

ing and analyzing information about their project performance — schedule, cost, change, quality, risk, benefits, etc. He has conducted federally funded research work on several major projects and has specific experience in productivity enhancement.

Dr. Choi’s research interests are integrated/improved project delivery systems, infrastructure sustainability, transportation construction management and automation and innovation in construction. He teaches the Structures I class.

Ben Bigelow joined the faculty in August of 2011 as a visiting assistant professor. He earned a B.S. in Construction Science at Texas A&M, and a M.S. in Construction Management at Arizona State University and is currently working on a Ph.D. from Colorado State University.

During his time here and while at Colorado State he has taught Estimating I, Estimating II, Materials and Methods, Commercial Capstone, Residential Aging in Place and Green Building, and Residential Capstone courses.

His research interests are generally related to affordable and sustainable



Ben Bigelow

residential construction, student competitions, undocumented workers and students in construction.

Bigelow holds the professional designations of: Associate Constructor (AC) from

the American Institute of Constructors, Certified Green Professional (CGP) from the National Association of Home Builders, Certified Aging in Place Specialist (CAPS) from the National Associa-

tion of Home Builders, and Residential Construction Superintendent (RCS) from the National Association of Home Builders.

Bigelow serves as the NAHB student chapter’s faculty advisor and competition team coach. He served in the same capacity for the past three years at Colorado State University. He is a member of the NAHB student chapter advisory board, and has been nominated to the NAHB education committee.

He spent three years building homes with Centex Homes in Arizona and Texas, and has over 10 years experience as a remodeling contractor.

Ph.D. Student Instructors

The depth of instructors available to present various courses in the construction science curriculum increased in 2010-11 with the addition of three outstanding young professionals who are pursuing doctoral degrees at the Texas A&M College of Architecture.

James P. Smith joined the Texas A&M faculty as a doctorate student in September 2010 and serves as a graduate assistant.

He earned M.S. and B.S. degrees in Construction Management from Brigham Young University.

Smith has six years of work experience as a senior project manager with Silver Creek Development Group, and was a senior manager of customer relations for Pulte Homes. His research interests include lean construction, project management, sustainable buildings and processes.

He teaches classes in materials and methods, introduction to the construction industry, and computer graphics. He also serves as the assistant coach of the NAHB competition team.

Manish K. Dixit joined the Texas A&M faculty as a doctorate student in August 2009 and serves as a graduate assistant.

Dixit has a M.S. degree in Construction Management from Texas A&M University, a Masters degree in Landscape Architecture from the School of Planning and Architecture in New Delhi, India, and a B.Arch. from Madhav Institute of Technology and



Doctoral students Manish Dixit, James Hogan and James Smith regularly share their considerable expertise with construction science students, teaching a variety of undergraduate courses.

Science in Gwalior, India.

He has nine years of experience as a landscape and senior architect and six years of teaching experience at the collegiate level.

Dixit's research is directed at developing methods for determining embodied energy of high use building materials. He is a member of the Council of Architecture and Indian Society of Landscape Architects in India, the Post Graduate Built Environment Research (CIB) Chapter, ASHRAE Student Branch, and International Facility Management Association Student Chapter at Texas A&M University.

Dixit has earned LEED Accredited Professional and OSHA-30 hours Safety Certifications. He teaches classes in construction graphics.

James E. Hogan joined the Texas A&M faculty as a doctorate student in August 2011 and serves as a graduate assistant.

He has M.S. and B.S. degrees in Construction Management from Eastern Michigan University and worked as an assistant professor at Weber State University for two years before coming to Texas A&M. He also taught at Eastern Michigan University and Florida International University.

Hogan has 13 years of work experience as an owner's representative, consultant and senior construction manager in the construction industry. He serves on the executive and development committees of the American Council for Construction Education and is a member of the American Institute of Constructors and Associated Schools of Construction.

Hogan's certifications and licenses include LEED Green Associate, Certified Professional Constructor and Constructor. He teaches introduction to the construction industry and capstone courses.

Melissa Daigneault has a passion for studying abroad, stemming from her time traveling across Europe after graduating from college.

"I gained so much self-confidence during that trip that I understood how much it would benefit my students to have that kind of empowering experience while still undergraduates," explains Daigneault, who teaches at Texas A&M University.

That's why Daigneault, a lecturer in the construction science department in the College of Architecture, says she was thrilled when she was offered the opportunity to be the faculty advisor for the semester-long, study abroad and internship program, "Wingtips, Work Boots and Wigs." The program, which began in 2010, provides up to 20 upper-level undergraduate construction science students the opportunity to spend 19 weeks in London studying construction law and risk management.

What makes this program so unique is that many of the students are able to graduate a semester early, which helps justify the costs involved with the program, especially with parents. The students earn up to 15 credit hours while fulfilling not only their departmental internship requirement but also their semester away requirement for the College of Architecture.

"Because it is such an intense semester, as well as a costly one," Daigneault says, "I feel a tremendous responsibility to provide these students with an academically challenging and

meaningful experience, to maximize the budget and the time, both during my preparation and while we're there."

Kirby Miller, a senior from Houston, says she was originally hesitant about going.

"But after listening to Professor Daigneault and feeling her passion about study abroad, I was in. She did a great job

of balancing classroom time with learning through experiences. She coordinated so many interviews with people and companies and organized trips which were all academically enriching. I honestly believe I learned more studying abroad than I had in my previous two years of sitting in a classroom," Miller says.

"It's a lot of extra work, but it's definitely worth it," says Daigneault. "It's a unique opportunity for a faculty member to engage in high-impact teaching on a

daily basis with a small class of students. It's amazing to see them work as a group and ask truly thoughtful questions. You can see that there's problem solving and critical thinking happening that you might miss teaching a large class on campus."

"Not only that," she continues, "but what you can teach about construction science when you're standing on the Tower Bridge becomes a more organic, meaningful experience. The students can tie in their experience with their class work and that makes for great discussions. The students also write and blog extensively about what they are learning because it's so



Texas A&M construction students study abroad & intern in London

Continued on next page >

Students Abroad in United Kingdom



Continued from previous page >

stimulating to them.”

Everything becomes a learning experience, Daigneault says.

“When my students go out in the evening, they are exposed to a broad range of ideas . . . from the political to the social,” she adds. “It challenges them to consider other options and broaden their horizons. It also makes them appreciate being Americans.”

As Adam Cashner, a senior from Conroe, says, “The study abroad experience not only gave me better knowledge in my field of construction, but it also broadened my view of other countries’ customs and environment. The greatest part of the study abroad experience was being out of your comfort zone, because that is where you’re tested.”

The second component of “Wingtips, Work Boots and Wigs” is an internship. Daigneault explains that students are placed with the help of the department of construction science’s Construction Industry Advisory Council.

“The advisory council has member companies with offices in the U.K., such as Balfour Beatty, which took on five

Aggie interns,” she explains. “Our visa sponsor placed the remaining students in various companies in London where they worked in such areas as property development, facilities management and industry-related research.”

As senior Jared Caskey from Irving points out “The work experience is great, but that can be obtained anywhere. The experience and understanding that comes from spending that much time in a foreign country is priceless.”

“So many of these students have never left Texas, much less the country,” Daigneault adds. “They might work with barristers and solicitors rather than ‘attorneys,’ and there’s more emphasis on historic preservation and respecting the sightlines for various monuments but basically, the practice of construction law and risk management is very similar in both countries. That makes London a perfect place for our students to do an internship.”

Kirby elaborates, “Experiencing other cultures, different cuisine, vibrant atmospheres, walking everywhere and anywhere, touring unbelievable ancient architecture, accents, royal history and fantastic public transportation and ex-

periencing all of this on your own without the comfort of family close by, with friends, new and old, is something so empowering, inspiring and exciting that words cannot even come close to describing it.”

“It means they’re forced to figure it out for themselves, because they can’t just turn the car around and go home,” says Daigneault. “Going to college is a step out of the nest, although for many students that’s still only 60 or 90 minutes from home. Studying abroad is a much bigger step, one that builds self-confidence and makes a huge difference in the lives of my students.”

Nancy Pena, a senior from Edcouch, Texas, agrees.

“I know that in order for companies in Texas and the U.S. to be contenders in this ever-expanding world market, it is vital that our students understand the different cultures and practices of the world,” she says. “No textbook or classroom can show you what another culture is really like. I can honestly say that what I learned from this experience has broadened my outlook on the world and will affect my decision-making for the rest of my life.”

Business Entities

Adolfson & Peterson

Beth Archer
Human Resources
Coordinator
5002 South Ash Avenue
Tempe, AZ 85282
Ph: 480-756-1879
Fax: 480-345-8755
earcher@a-p.com

Adolfson & Peterson

Brady Ream
Project Manager
1900 Firman Dr. Ste. 700
Richardson, TX 75081
Ph: 972-387-1700
Fax: 972-387-1087
mream@a-p.com

Alpha Building Corporation

Kathy Acock
President
24850 Blanco Road
San Antonio, TX 78260
Ph: 210-491-9925
Fax: 210-491-9932
kacock@alphabuilding.com

Alpha Building Corporation

Richard Booher
Executive Vice President
24850 Blanco Road
San Antonio, TX 78260
Ph: 210-491-9925
Fax: 210-491-9932
rbooher@alphabuilding.com

American Constructors

Gary Keil
Project Director
4330 Gaines Ranch Loop,
Suite 230
Austin, TX 78735
Ph: 512-493-1141
Fax: 512-328-2520
gkeil@acitexas.com

American Constructors

Justin Huling
Project Manager
4330 Gaines Ranch Loop,
Suite 230
Austin, TX 78735
Ph: 512-659-3568
Fax: 512-328-2520
jhuling@acitexas.com

Anslow Bryant Construction, Ltd.

Garrett Wentreck
Project Manager
840 Gessner, Suite 250
Houston, TX 77024
Ph: 713-626-1216
Fax: 713-626-1221
garrett@anslowbryant.com

Archer Western Contractors

Bill Heathcott
Program Manager
2121 Avenue J, Suite 103
Arlington, TX 76006
Ph: 817-640-3898
Fax: 817-640-8734
wheathcott@walsgroup.com

Archer Western Contractors

Vicki Poulos
Recruiting Coordinator
2121 Avenue J, Suite 103
Arlington, TX 76006
Ph: 817-640-3898
Fax: 817-640-8734
vpoulos@walsgroup.com

Austin Commercial, L.P.

Jack Archer
Area Project Manager
1301 South Mopac Expwy,
Suite 310
Austin, TX 78746
Ph: 512-306-9880
Fax: 512-306-1180
jarcher@austin-ind.com

Austin Commercial, L.P.

Cynthia Arteaga
Recruiter
3535 Travis Street, Suite 300
Dallas, TX 75204
Ph: 214-443-5693
Fax: 214-443-5670
carteaga@austin-ind.com

Baker Triangle

Johnny Barnes
President
415 Highway 80 East
Mesquite, TX 75150
Ph: 972-289-5534
Fax: 972-289-4580
jbarnes@bakertriangle.com

Baker Triangle

Bryan Craft
Vice President
1503 North Brazos Street
San Antonio, TX 78207-1201
Ph: 210-832-0500
Fax: 210-832-0770
bcraft@bakertriangle.com

Balfour Beatty Construction

Keith McCoy
Senior Project Manager
3100 McKinnon, 7th Floor
Dallas, TX 75201
Ph: 214-451-1237
Fax: 214-451-1200
kmcocoy@balfourbeattyus.com

Balfour Beatty Construction

Jake Salley
Senior Estimator
3100 McKinnon, 7th Floor
Dallas, TX 75201
Ph: 214-451-1208
Fax: 214-451-1200
jsalley@balfourbeattyus.com

Bartlett Cocke General

Contractors
Jerry Hoog
Vice President - San Antonio
Operations
8706 Lockway
San Antonio, TX 78217
Ph: 210-655-1031
Fax: 210-655-9318
jhoog@bartlett-cocke.com

Bartlett Cocke General Contractors

James Anderson
Project Manager
8706 Lockway
San Antonio, TX 78217
Ph: 210-655-1031
Fax: 210-655-9318
janderson@bartlett-cocke.com

Beck Group

Robert Hodges
Project Executive
1807 Ross Avenue, Suite 500
Dallas, TX 75201
Ph: 214-303-6200
Fax: 214-303-6300
roberthodges@beckgroup.com

Beck Group

Matt Williamson
Regional Manager
1108 Lavaca, Suite 520
Austint, TX 78701
Ph: 512-997-5000
Fax: 512-997-5009
mattwilliamson@beckgroup.com

Brandt

Matt Summerville
Director of Operations -
Austin
1340 Airport Commerce
Drive, Suite 575
Austin, TX 78741
Ph: 512-491-9100
Fax: 512-491-9104
msummerville@brandteng.com

Brandt

Raquel Ledwig
Human Resources Generalist
P. O. Box 310
Schertz, TX 78154
Ph: 210-650-7159
Fax: 210-650-7559
rledwig@brandteng.com

Brasfield & Gorrie

Michael Freberg
Regional Vice President
5950 Berkshire Lane, Suite
1200
Dallas, TX 75225
Ph: 217-624-5500
mfreberg@brasfieldgorrie.com

Brasfield & Gorrie

Chris Wall
Senior Project Manager
5950 Berkshire Lane, Suite
1200
Dallas, TX 75225
Ph: 903-327-8765
cwall@brasfieldgorrie.com

Brath, Inc.

Ron Hagood
CEO Operations
600 IH 35 South
Round Rock, TX 78681
Ph: 512-244-2293
Fax: 512-388-2665
ronhagood@brahtinc.com

Britt Rice Electric

Britt Rice
President
3002 D Longmire
College Station, TX 77845
Ph: 979-693-4076
Fax: 979-693-9785
brice@briceco.net

Britt Rice Electric

Jeff Blanton
College Station, TX 77845
Ph: 979-693-4076
Fax: 979-693-9785
jblanton@briceco.net

Brookstone, L.P.

Jeremy Stovall
Senior Project Manager
3715 Dacoma
Houston, TX 77092
Ph: 713-683-8800
Fax: 713-680-0088
jstovall@brookstone-tx.com

Brookstone, L.P.

Max Montegut
Vice President
3715 Dacoma
Houston, TX 77092
Ph: 713-683-8800
Fax: 713-680-0088
mmontegut@brookstone-tx.com

Byrne Construction Services

Lee Howell
Senior Estimator
3100 West 7th Street, Suite
200
Fort Worth, TX 76107
Ph: 817-335-3394
Fax: 817-877-5507
lhowell@tsbyrne.com

Byrne Construction Services

Chad Anderson
Marketing & Business
Development
3100 West 7th Street, Suite
200
Fort Worth, TX 76107
Ph: 817-335-3394
Fax: 817-877-5507
canderson@tsbyrne.com

Cash Construction

Aaron Goertz
Project Manager
Post Office Box 1279
Pflugerville, TX 78691
Ph: 512-251-7872
Fax: 512-251-2578
aaron@ccctex.com

Cash Construction

Nathan Gentry
Project Manager
Post Office Box 1279
Pflugerville, TX 78691
Ph: 512-251-7872
Fax: 512-251-2578
nathan@ccctex.com

Charter Builders, Ltd. – A Balfour Beatty Company

Jeff Jackson
Operations Manager
1505 LBJ Freeway, Suite 700
Dallas, TX 75234
Ph: 972-484-4888
Fax: 972-484-4373
jjackson@charter-heery.com

Charter Builders, Ltd. – A Balfour Beatty Company

Carlos Garza
Project Manager
1505 LBJ Freeway, Suite 700
Dallas, TX 75234
Ph: 972-213-7122
Fax: 972-484-4373
cgarza@charter-heery.com

Clark Construction Group, LLC

Matt Lewis
Superintendent
4800 Wright Road
Houston, TX 77032
Ph: 713-636-3714
Fax: 281-802-0155
Matt.Lewis@clarkconstruction.com

Clark Construction Group, LLC

Hernan Guerra
Project Manager
7500 Old Georgetown Road
Bethesda, MD 20814
Ph: 301-272-8100
Fax:
Hernan.guerra@clarkconstruction.com

D.E. Harvey Builders

Jeff Hess
Senior Project Manager
POST OFFICE Box 42008
Houston, TX 77242
Ph: 713-783-8710
Fax: 713-783-5315
jhess@harveybuilders.com

D.E. Harvey Builders

Stephen Driver
POST OFFICE Box 42008
Houston, TX 77242
Ph: 713-783-8710
Fax: 713-783-5315
sdriver@harveybuilders.com

Dashiell

Kimberly Jennings
Human Resources
12301 Kurland Drive, Suite
400
Houston, TX 77034
Ph: 713-558-6670
Fax: 713-558-6694
Kimberly.jennings@dashiell.com

Dashiell

Karey Devries
Human Resources Manager
12301 Kurland Drive, Suite
400
Houston, TX 77034
Ph: 713-558-6611
Karey.devries@dashiell.com

DPR Construction, Inc.

Jim Yauger
2941 Fairview Park Drive,
Suite 600
Falls Church, VA 22042
Ph: 703-342-1784
Fax: 703-579-9021
jimy@dprinc.com

DPR Construction, Inc.

Troy Ireland
14900 Woodham Drive, Suite
A-135
Houston, TX 77073
Ph: 281-951-2200
Fax: 281-951-2204
troyi@dprinc.com

Drymalla Construction Company, Ltd.

Charles Labay
Vice President of Field
Operations
608 Harbert Street
Columbus, TX 78934
Ph: 979-732-5731
Fax: 979-732-3663
Clabay@drymalla.com

Drymalla Construction Company, Ltd.

Rob Schneider
Project Manager
608 Harbert Street
Columbus, TX 78934
Ph: 979-732-5731
Fax: 979-732-3663
rschneider@drymalla.com

Durotech, LP

Easy Foster
Project Manager
11931 Wickchester Lane,
Suite 205
Houston, TX 77043
Ph: 281-558-6892
Fax: 281-469-5637
easyf@durotechgc.com

Durotech, LP

Steve Percival
Project Manager
11931 Wickchester Lane,
Suite 205
Houston, TX 77043
Ph: 281-558-6892
Fax: 281-469-5637
stevep@durotechgc.com

Dynamic Systems, Inc.

Randy Rehmann
President
3901 South Lamar, Suite 300
Austin, TX 78704
Ph: 512-443-4848
Fax: 512-443-7775
rrehmann@dynamicsys.com

Dynamic Systems, Inc.

Russell Rehmann
Sr. Vice President
3901 South Lamar, Suite 300
Austin, TX 78704
Ph: 512-443-4848
Fax: 512-443-7775
rurehmann@dynamicsys.com

EMJ Corporation

Larry Davis
Executive Vice President
5525 N. MacArthur Blvd.,
Suite 400
Irving, TX 75038
Ph: 972-580-1210
Fax: 972-580-8202
ldavis@emjcorp.com

EMJ Corporation

Matt Welch
Pre Construction President
5525 N. MacArthur Blvd.,
Suite 400
Irving, TX 75038
Ph: 972-580-1210
Fax: 972-580-8202
mwelch@emjcorp.com

Flintco, Inc.

John Martin
Vice President - Area
Manager
8100 Cross Park Drive
Austin, TX 78754
Ph: 512-891-7224
Fax: 512-891-7229
jmartin@flintco.com

Flintco, Inc.

Toby Smith
Project Manager
8100 Cross Park Drive
Austin, TX 78754
Ph: 512-891-7224
Fax: 512-891-7229
tsmith@flintco.com

Flooring Solutions

Brian Lamkin
President
8801 Wall Street, # 550
Austin, TX 78754
Ph: 512-335-8089
Fax: 512-258-2581
bl@fsiaustin.com

Fluor

Michael Choice
Project Controls Director
One Fluor Daniel Drive
Sugar Land, TX 77478
Ph: 281-263-5520
Fax: 281-263-2987
Michael.choice@fluor.com

Fluor

Shawn West
Vice President
One Fluor Daniel Drive
Sugar Land, TX 77487
Ph: 281-263-4099
Fax: 281-263-2075
Shawn.west@fluor.com

Fulton Construction Corporation

Philip Skrobarczyk
President/CEO
Post Office Box 9486
Corpus Christi, TX 78469
Ph: 361-816-2036
Fax: 361-993-8005
pskrobar@fultonconst.com

Fulton Construction Corporation

Mike Lippincott
Vice President
POST OFFICE Box 9486
Corpus Christi, TX 78469
Ph: 361-816-2036
Fax: 316-993-8005
mlippincott@fultonconst.com

GAMMA Construction Company

Keith Williams
President
2808 Joanel Street
Houston, TX 77027
Ph: 713-963-0086
Fax: 713-963-0961
keith@gammaconst.com

Gilbane

Brent Ivey
District Operations Manager
1380 Pantheon Way, Suite
210
San Antonio, TX 78232
Ph: 210-404-1140
Fax: 210-404-9726
bivey@gilbaneco.com

Greenway Constructors, Inc.

Stephen P. Byrne
President
1115 Royal Adelaide Drive
College Station, TX 77845
Ph: 979-220-5596
Fax:
Steve_byrne@verizon.net

Hardin Construction

Matt Hoglund
Construction Manager
3101 Bee Caves Road
Austin, TX 78746
Ph: 512-320-9170
Fax: 512-320-9171
mhoglund@hardinconstruction.com

Hardin Construction

Aimee Wilson
Project Manager / College
Recruiter
3301 Windy Ridge Parkway,
Suite 400
Atlanta, GA 30339
Ph: 404-264-2119
Fax: 404-264-3514
awilson@hardinconstruction.com

Haskell

Jathan Floren
Senior Project Manager
2591 North Dallas Parkway,
Suite 405
Frisco, TX 75034
Ph: 972-731-0800
Fax: 972-731-0496
Jathan.floren@haskell.com

Haskell

Coleman Walker
Director of Talent
Management
111 Riverside Avenue
Jacksonville, FL 32202
Ph: 904-357-4263
Fax: 904-475-7739
Coleman.walker@haskell.com

Hensel Phelps Construction

Michael Dwight
Project Manager
10041 Regal Row, Suite 150
Houston, TX 77040
Ph: 713-247-0174
Fax: 713-247-0651
mdwight@henselphelps.com

Hoar Construction, LLC

Scott Thetford
Contract Manager
1300 W. Sam Houston
Parkway S., Suite 220
Houston, TX 77042
Ph: 713-244-2200
Fax: 713-244-2244
sthetford@hoarllc.com

Hoar Construction, LLC

Jason Stavinoha
Project Manager
1300 W. Sam Houston
Parkway S., Suite 220
Houston, TX 77042
Ph: 713-244-2200
Fax: 713-244-2244
jstavinoha@hoarllc.com

Holder Construction Company

Doug Clough
Regional Office Director
4600 Fuller Drive, Suite 375
Irving, TX 75038
Ph: 972-870-4260
Fax: 972-870-4266
dclough@holder.com

Holder Construction Company

Lauren Lancaster
Senior Coordinator -
Recruiting
3333 Riverwood Parkway
Atlanta, GA 30339
Ph: 770-988-3244
Fax: 770-988-3225
llancaster@holder.com

Hunt Construction

Jack Sovern
Vice President
4099 McEwen, Suite 400
Dallas, TX 75244
Ph: 972-788-1000
Fax: 972-788-1302
jsovern@huntconstructiongroup.com

Hunt Construction

Brandon Rudloff
Project Engineer
4099 McEwen, Suite 400
Dallas, TX 75244
Ph: 972-788-1000
Fax: 972-788-1302
brudloff@huntconstructiongroup.com

Infinity Construction Services, LP

Buck Blevins
Business Development
Manager
622 Commerce Street
Clute, TX 77531
Ph: 979-230-2625
Fax: 979-265-6794
bblevins@infinitycs.us

Infinity Construction Services, LP

Cooper Ford
Training Manager
622 Commerce Street
Clute, TX 77531
Ph: 979-230-2416
Fax: 979-265-3747
cford@infinitycs.us

Jacobs

Gerson Acosta
Project Manager
5995 Rogerdale Road 77072
Houston, TX 77052-3495
Ph: 501-779-2697
Fax: 501-372-3593
gerson.acosta@jacobs.com

Jacobs

Chris Talley
5995 Rogerdale Road 77072
Houston, TX 77052-3495
Ph: 832-351-6000
Fax: 832-351-7700
Chris.talley@jacobs.com

James R. Thompson, Inc.

James R. Thompson
President
2929 Carlisle, # 300
Dallas, TX 75204
Ph: 214-871-2424
Fax: 214-871-2458
jim@jrctconstruction.com

James R. Thompson, Inc.

Ryan Thompson
Project Manager
2929 Carlisle, # 300
Dallas, TX 75204
Ph: 214-871-2424
Fax: 214-871-2458
ryan@jrctconstruction.com

JE Dunn Construction

Bob Flowers '80
Assistant Vice President
3500 South Gessner, Suite
200
Houston, TX 77063
Ph: 713-353-6229
Fax: 713-353-6298
bob.flowers@jedunn.com

JE Dunn Construction

Ali Donoho
Estimator
3500 S. Gessner, Suite 200
Houston, TX 77063
Ph: 713-353-6237
Fax: 713-521-5896
Ali.donoho@jedunn.com

Joeris General Contractors, Ltd.

Gary Joeris
President
1390 E. Bitters Road
San Antonio, TX 78216
Ph: 210-494-1638
Fax: 210-494-1639
gjoeris@joeris.com

Joeris General Contractors, Ltd.

Carl McClenan
Senior Project Manager
1390 E. Bitters Road
San Antonio, TX 78216
Ph: 210-494-1638
cmcclenan@joeris.com

Kiewit Offshore

Melissa Wheeler
Recruiting & Training
Manager
2440 Kiewit Road
Ingleside, TX 78362
Ph: 361-775-4300
Fax: 361-775-0060
Melissa.wheeler@kiewit.com

Kiewit Offshore

John Hardin
HR Manager
2440 Kiewit Road
Ingleside, TX 78362
Ph: 361-775-4300
Fax: 361-775-0060
John.hardin@kiewit.com

Kitchell Contractors of Arizona

Kristopher Kopack
Project Director
4005 State Highway 6
College Station, TX 77845
Ph: 979-703-8606
Fax: 979-703-8609
kkopack@kitchell.com

Kitchell Contractors of Arizona

Chris Kirch
Project Manager
4005 State Highway 6
College Station, TX 77845
Ph: 979-703-8606
Fax: 979-703-8609
ckirch@kitchell.com

Knife River

Bill Thomas
President
POST OFFICE Box 674
Bryan, TX 77806
Ph: 979-361-2900
Fax: 979-361-2920
bill.thomas@kniferiver.com

Knife River

Keith Pierson
Estimating Manager
POST OFFICE Box 674
Bryan, TX 77806
Ph: 979-361-2900
Fax: 979-361-2920
keith.pierson@kniferiver.com

Ledcor Construction

Samantha Byrd Kacir
Project Engineer
6405 Mira Mesa Blvd., Suite
100
San Diego, CA 92121
Ph: 903-930-2117
Fax: 858-527-6410
sam.byrd@ledcor.com

Linbeck Group, L.P.

Chuck Greco
President/CEO
3800 Essex, Suite 1200
Houston, TX 77027
Ph: 713-966-5893
Fax: 713-966-5891
chuck_greco@linbeck.com

Linbeck Group, L.P.

Bill Bailey
Team Manager
3800 Essex, Suite 1200
Houston, TX 77027
Ph: 713-966-5872
Fax: 713-966-5891
bbailey@linbeck.com

Malitz Construction

J. Ryan Malitz
Vice President
8634 Crownhill Road
San Antonio, TX 78209
Ph: 210-820-3604
Fax: 210-820-36701
ryan@malitzconstructioninc.com

Manhattan Construction Company

Matt Bielski
Vice President Operations
6300 North Central
Expressway
Dallas, TX 75206
Ph: 214-357-7400
Fax: 214-357-7789
mbielski@manhattanconstruction.com

Manhattan Construction Company

Steve Cannon
Human Resources Manager
2120 Montrose Blvd.
Houston, TX 77006
Ph: 713-529-0000
Fax: 713-526-9176
scannon@manhattanconstruction.com

Marek Brothers Systems, Inc.

Stan Marek
Chief Executive Officer
3539 Oak Forest Drive
Houston, TX 77018
Ph: 713-586-3072
Fax: 713-681-4614
stanmarek@marekbros.com

Marek Brothers Systems, Inc.

Mike Holland
Houston Division President
3539 Oak Forest Drive
Houston, TX 77018
Ph: 713-586-3066
Fax: 713-681-6540
mikeholland@marekbros.com

Mass Electric

Mikaela Rivera
HR Generalist – Talent
Acquisition & Development
4790 Regent Blvd., Suite 100
Irving, TX 75063
Ph: 972-505-4634
Fax: 972-505-4701
mrivera@masselec.com

Mass Electric

Erin Bos
HR Specialist
4790 Regent Blvd., Suite 100
Irving, TX 75063
Ph: 972-505-4642
Fax: 972-505-4701
ebos@masselec.com

McCarthy

Chuck Shive
Senior Estimator
12001 North Central
Expressway, Suite 400
Dallas, TX 75243
Ph: 972-991-5500
Fax: 972-991-9249
cshive@mccarthy.com

McCarthy

Gary Akin
Administrative Vice President
12001 North Central
Expressway, Suite 400
Dallas, TX 75243
Ph: 972-991-5500
Fax: 972-991-9249
gakin@mccarthy.com

MEDCO Construction, LLC

Chris Robinson
Vice President
4005 Crutcher Street, Suite
200
Dallas, TX 75246
Ph: 214-820-2492
Fax: 214-820-4289
chrirobe@baylorhealth.edu

Med-Tech Construction

Brian Berry
Post Office Box 2497
Rockwall, TX 75087
Ph: 469-402-1410
Fax: 469-402-1415
brian@medtechconstruction.com

Med-Tech Construction

Brian Nash
Vice President & Division
Manager
Post Office Box 6537
San Antonio, TX 78029
Ph: 210-821-1717
bnash@medtechconstruction.com

Megen Construction

Benjamin Nwankwo
Vice President, Operations
1130 Ashburn Road
Cincinnati, OH 45240
Ph: 513-742-9191
Fax: 513-742-9393
bnwankwo@megenconstruction.com

Megen Construction

Mark Campbell
Director, Governemtn Division
1130 Ashburn Road
Cincinnati, OH 45240
Ph: 513-742-9191
Fax: 513-742-9393
mccampbell@megenconstruction.com

MLN Company

Stan Whitfill
Vice President of Construction
3931 Ann Arbor
Houston, TX 77063
Ph: 713-975-3628
Fax: 713-784-3153
swhitfill@mlncompany.com

MLN Company

Murray Neal
President/CEO
3931 Ann Arbor
Houston, TX 77063
Ph: 713-975-3200
Fax: 713-979-0227
mneal@mlncompany.com

Mustang

John W. Dalton, Sr.
Executive Vice President
16001 Park Ten Place
Houston, TX 77084
Ph: 281-206-6993
Fax: 281-206-6074
john.dalton@mustangeng.com

Natgun Corporation

Robert Walsh
Construction Manager
410 East Trinity Blvd.
Grand Prairie, TX 75050
Ph: 972-823-3300
Fax: 972-823-3333
bwalsh@natgun.com

Natgun Corporation

Jim Diggins
Construction Manager
11 Teal Road
Wakefield, MA 1880
Ph: 781-246-1133
Fax: 972-823-3333
jdiggins@natgun.com

Orion Construction, L.P.

Suzu Luna
Human Resources Generalist
12550 Fugua Street
Houston, TX 77034
Ph: 713-852-6509
Fax: 713-852-6595
sluna@orionmarinegroup.com

Orion Marine Group

Bettianne Rigano
Manager of Human Resources
12550 Fugua Street
Houston, TX 77034
Ph: 713-852-6509
Fax: 713-852-6595
brigano@orionmarinegroup.com

Performance Contractors

Matt Villere
Project Manager
Post Office Box 841689
Pearland, TX 77584
Ph: 979-832-240-4400
mattv@performance-tx.com

Performance Contractors

Jacob Traylor
Project Coordinator
Post Office Box 841689
Pearland, TX 77584
Ph: 979-832-240-4400
jacobt@performance-tx.com

Pogue Construction

Ben Pogue
President/CEO
1512 Bray Central, Suite 300
McKinney, TX 75069
Ph: 972-529-9401
Fax: 972-529-9406
ben@pogueconstruction.com

Pogue Construction

Nicole Dalal
Director of Human Resources
1512 Bray Central, Suite 300
McKinney, TX 75069
Ph: 972-529-9401
Fax: 972-529-9406
nicole@pogueconstruction.com

Polk Mechanical Company

Fran McCann
COO
2425 Dillard Street
Grand Prairie, TX 75051
Ph: 972-339-1200
Fax: 972-339-1552
fran.mccann@polkmechanical.com

Polk Mechanical Company

Yancey Jones
Vice President, DFW Projects
2425 Dillard Street
Grand Prairie, TX 75051
Ph: 817-917-3833
Fax: 972-339-1564
yancey.jones@polkmechanical.com

Robins & Morton

Michael Corwin
Project Manager
6900 Dallas Parkway, Suite
100
Plano, TX 75024
Ph: 214-438-3780
Fax: 214-438-3790
mcorwin@robinsmorton.com

Rogers-O'Brien Construction Company

Preston McAfee
President/CEO
1901 Regal Row
Dallas, TX 75235
Ph: 214-962-3000
Fax: 214-962-3001
pmcafee@rogers-obrien.com

Rogers-O'Brien Construction Company

Cary Hughes
Vice President of Operations
1901 Regal Row
Dallas, TX 75235
Ph: 214-962-3000
Fax: 214-962-3001
caryh@rogers-obrien.com

Rosenberger Construction

Steve Salverino
Senior Vice President
One Sugar Creek Center Blvd.,
Suite 400
Sugar Land, TX 77498
Ph: 281-207-0700
Fax: 281-207-0707
ssalverino@
rosenbergerconstruction.com

S&B Engineers & Constructors, Ltd.

Warren Adamson
Operations Manager
7825 Park Place Blvd.
Houston, TX 77087
Ph: 713-845-4828
Fax: 713-640-6650
wgadamson@sbec.com

S&B Engineers & Constructors, Ltd.

J.D. Slaughter
Vice President - Business
Development
7825 Park Place Blvd.
Houston, TX 77087
Ph: 713-845-4329
Fax: 713-640-6691
jdslaughter@sbec.com

Satterfield & Pontikes Construction, Inc.

Richard Palmer
Chief Estimator
6220 North Beltline Road,
Suite 200
Irving, TX 75063
Ph: 972-753-0342
Fax: 972-753-1326
richard@satpon.com

Satterfield & Pontikes Construction, Inc.

John Marshall
Vice President

11000 Equity Drive, Suite 100
Houston, TX 77041
Ph: 713-996-1302
jmarshall@satpon.com

SEDALCO Construction Services

Russ Garrison
Vice President
2554 East Long Avenue
Fort Worth, TX 76137
Ph: 817-831-2245
Fax: 817-831-2248
rgarrison@sedalco.com

SEDALCO Construction Services

Jared Hicks
Project Manager
2554 East Long Avenue
Fort Worth, TX 76137
Ph: 817-831-2245
Fax: 817-831-2248
jhicks@sedalco.com

Skanska USA Building, Inc.

Keith Sitzman
Project Manager
18615 Tuscany Stone, Suite
245
San Antonio, TX 78258
Ph: 210-301-7100
Fax: 210-301-7101
keith.sitzman@skanskausa.com

Skanska USA Building, Inc.

Tyler Lee
Superintendent
18615 Tuscany Stone, Suite
245
San Antonio, TX 78258
Ph: 210-301-7100
Fax: 210-301-7101
tyler.lee@skanska.com

SmartBid Net

James Benham
President
Post Office Box 711
Bryan, TX 77806
Ph: 866-888-8538
Fax: 877-436-9312
james@smartbidnet.com

SpawGlass

Fred D. Raley
Chairman/CEO
9331 Corporate Drive
Selma, TX 78154
Ph: 210-651-9000
Fax: 210-651-4455
fred.raley@spawglass.com

SpawGlass

Michael Emmons
President
13800 West Road
Houston, TX 77041
Ph: 281-970-5300
Fax: 281-970-5305
michael.emmons@spawglass.com

SpawMaxwell – A Balfour

Beatty Company
Steve Mechler
President
4321 Directors Row
Houston, TX 77092
Ph: 713-346-0944
Fax: 713-346-0938
mechler@spawmax.com

SpawMaxwell – A Balfour

Beatty Company
Leslie Martinez
Human Resources
Coordinator
4321 Directors Row
Houston, TX 77092
Ph: 713-346-0944
Fax: 713-346-0938
martinez@spawmax.com

Standard Mechanical Systems

Ben Posson
Project Manager
10757 Cutten Road, Building
4
Houston, TX 77066
Ph: 832-249-1660
Fax: 832-249-1661
benp@
standardmechanicalsystems.com

Standard Mechanical Systems

Mark Westbrook
President
10757 Cutten Road, Building 4
Houston, TX 77066

Ph: 832-249-1660
Fax: 832-249-1661
markw@
standardmechanicalsystems.com

Structure Tone Southwest, Inc.

Craig Hudeck
Regional Vice President
4550 Post Oak Place, Suite
335
Houston, TX 77027
Ph: 713-650-6420
Fax: 713-332-1811
Craig.hudeck@structuretone.com

Structure Tone Southwest, Inc.

William Butch Nesmith
Senior Project Manager
4550 Post Oak Place, Suite
335
Houston, TX 77027
Ph: 713-650-6420
Fax: 713-650-6415
William.nesmith@structuretone.com

SUNDT Construction, Inc.

David Fleming
Vice President
911 Central Parkway North,
Suite 375
San Antonio, TX 78232
Ph: 972-258-0500
Fax: 972-261-0010
dffleming@sundt.com

SUNDT Construction, Inc.

Bob Aniol
800 IH 10 West, Suite 60C
San Antonio, TX 78230
Ph: 210-525-7931
Fax: 210-525-7932
rwanoli@sundt.com

Swinerton Builders, Inc.

W.J. Dysart
President
12400 Highway 281 North,
Suite 200
San Antonio, TX 78216
Ph: 210-684-1770
Fax: 210-684-1859
jdysart@swinerton.com

Swinerton Builders, Inc.

Larry Nitsche
12400 Highway 281 North,
Suite 200
San Antonio, TX 78216
Ph: 210-684-1770
Fax: 210-684-1859
lnitsche@swinerton.com

TectaAmerica Corp.

Kathy Jensen Watts
Vice President/Human
Resources
9450 Bryn Mawr, Suite 500
Rosemont, IL 60018
Ph: 847-581-3876
Fax: 847-581-3880
kjensenwatts@tectaamerica.com

TectaAmerica Corp.

Tania Carrara
Human Resources
9450 Bryn Mawr, Suite 500
Rosemont, IL 60018
Ph: 847-779-7022
Fax: 517-294-7943
tcarrara@tectaamerica.com

Tellepsen Builders

Guy Cooke
Project Executive
777 Benmar, Suite 400
Houston, TX 77060
Ph: 281-272-7916
Fax: 281-272-7371
Gcooke@tellepsen.com

The Conti Corporation

Mohamad Waseem
Project Engineer
201 St. Charles Avenue
New Orleans, LA 70170
Ph: 908-413-2437
mwaseem@conticorp.com

The Conti Corporation

Jason Ruppert
Superintendent
201 St. Charles Avenue
New Orleans, LA 70170
Ph: 504-676-4362
jruppert@conticorp.com

The Hanover Company

Mark Wood
Division Vice President
5847 San Felipe, Suite 3600
Houston, TX 77057
Ph: 713-580-1234
Fax: 713-580-2234
mwood@hanoverco.com

The Whiting Turner Contracting Company

Michael Kersey
Project Manager
2301 West Plano Parkway,
Suite 104
Plano, TX 77075
Ph: 469-429-0800
Fax: 469-429-0801
Michael.kersey@whiting-turner.com

The Williams Companies, Inc.

Larry Hoelscher
Regional Vice President,
Engineering & Tech Services
Post Office Box 1396
Houston, TX 77251
Ph: 713-215-2734
Fax:
Larry.b.hoelscher@williams.com

The Williams Companies, Inc.

Tom Messick
Manager, Project Controls &
Estimating
Post Office Box 1396
Houston, TX 77251
Ph: 713-215-2772
Thomas.f.messick@williams.com

Turner Construction Company

Doug Karr
2001 North Lamar, Suite 100
Dallas, TX 75202
Ph: 214-721-8400
dkarr@tcco.com

Turner Construction Company

Juli Chrispen
2001 North Lamar, Suite 100
Dallas, TX 75202
Ph: 214-721-8400
jchrispen@tcco.com

Turner Industries Group, LLC

John Golashesky
Senior Vice President
3850 Pasadena Blvd.
Pasadena, TX 77503
Ph: 713-470-9012
Fax: 713-477-4846
jgolashesky@turner-industries.com

Turner Industries Group, LLC

John Cameron
Personnel Manger
3850 Pasadena Blvd.
Pasadena, TX 77503
Ph: 713-470-9043
Fax: 713-472-6863
jcameron@turner-industries.com

URS (Washington Group International)

Bill Davis
10550 Richmond Avenue,
Suite 150
Houston, TX 77042
Ph: 281-529-7435
Fax: 281-529-3134
Bill.Davis@wgint.com

URS (Washington Group International)

Emily Williams
College Recruiter
10550 Richmond Avenue,
Suite 150
Houston, TX 77042
Ph: 281-529-7322
Fax: 281-529-3134
Emily.williams@wgint.com

Vaughn Construction

Bill Vaughn
Director of Planning
2421 Earl Rudder Freeway
College Station, TX 77845
Ph: 979-260-7600
Fax: 979-260-7676
bvaughn@vaughnconstruction.com

Vaughn Construction

Tom Vaughn
CEO
10355 Westpark
Houston, TX 77042
Ph: 713-243-8300
Fax: 713-243-8350
tvaughn@vaughnconstruction.com

VCC

Ryan McClendon
Executive Vice President
600 E. Las Colinas Blvd.,
#1225
Irving, TX 75039
Ph: 214-574-4500
Fax: 214-574-4506
rmclendon@vccusa.com

VCC

Duane Gilley
Senior Project Manager
600 E. Las Colinas Blvd.,
#1225
Irving, TX 75039
Ph: 214-574-4500
Fax: 214-574-4506
dgilley@vccusa.com

W.S. Bellows Construction Corporation

Russell Jones
Operations Manager
Post Office Box 2132
Houston, TX 77252-2132
Ph: 713-680-2132
Fax: 713-680-2614
rjones@wsbellows.com

W.S. Bellows Construction Corporation

Steven Imburgia
Vice President
Post Office Box 2132
Houston, TX 77252-2132
Ph: 713-680-2132
Fax: 713-812-2686
simburgia@wsbellows.com

Webber, LLC

Mitch Beckman
Director of Human Resources
14333 Chrisman Road
Houston, TX 77039
Ph: 281-987-8787
Fax: 281-372-1146
mbeckman@webber.com

Webber, LLC

Katie Simpson
Human Resources Staffing
709 Bedford Court West
Hurst, TX 76053
Ph: 817-807-8771
ksimpson@webber.com

Weston Solutions, Inc.

Brad Gerken
Director, Facilities &
Infrastructure
70 NE Loop 410, Suite 600
San Antonio, TX 78216
Ph: 210-308-4303
Fax: 210-308-4329
brad.gerken@westonsolutions.com

Weis Builders

Robert Mayer
Vice President – Human
Resources
7645 Lyndal Avenue South
Minneapolis, MN 55423
Ph: 612-243-5000
Fax: 612-243-5010
bobmayer@weisbuilders.com

Weis Builders

Karl Meeks
Vice President
1660 South Stemmons
Freeway, Suite 475
Dallas, TX 75067
Ph: 469-464-3333
Fax: 469-464-3315
karlmeeks@weisbuilders.com

Weston Solutions, Inc.

Brad Gerken
Director, Facilities &
Infrastructure
70 NE Loop 410, Suite 600
San Antonio, TX 78216
Ph: 210-308-4303
Fax: 210-308-4329
Brad.gerken@westonsolutions.com

Weston Solutions, Inc.

Naresh Kalla
BIM Manager
70 NE Loop 410, Suite 600
San Antonio, TX 78216
Ph: 210-308-4303
Fax: 210-308-4329
Naresh.kalla@westonsolutions.com

Associate Members

American Council for Construction Education

Mike Holland
Executive Vice President
1717 North Loop 1604 East,
Suite 320
San Antonio, TX 78232
Ph: 210-495-6161
Fax: 210-495-6168
mholland@acce-hq.org

Associated Builders and Contractors, Inc. – Houston

Russell Hamley
President
3910 Kirby, Suite 131
Houston, TX 77098
Ph: 832-389-5101
Fax: 832-389-5121
r.hamley@abchouston.com

Mechanical Contractors Association of Texas

Glenn Rex
Administrative Vice President
POST OFFICE Box 680525
Houston, TX 77268
Ph: 281-440-4380
Fax: 281-440-4386
glenn@mcataxas.org

TEXO – The Construction Association

Raleigh Roussell
President/CEO
11101 North Stemmons
Freeway
Dallas, TX 75229
Ph: 972-647-0697
Fax: 972-247-1930
raleigh@texoassociation.org

TEXO – The Construction Association

Dorothy Shaw
Vice President of Member
Services/COO
11101 North Stemmons
Freeway
Dallas, TX 75229
Ph: 972-647-0697
Fax: 972-247-1930
Dorothy@texoassociation.org

Texas Construction Association
Raymond Risk, Jr.
President/CEO
1011 San Jacinto Blvd., Suite 330
Austin, TX 78701
Ph: 512-473-3773
Fax: 512-473-3777
rrisk@texcon.org

The Associated General Contractors of America - Houston
Jerry Nevlud
President/CEO
3825 Dacoma Street
Houston, TX 77092
Ph: 713-843-3700
Fax: 713-843-3777
Jerry.n@agchouston.com

The Associated General Contractors of America - Houston
Charlene Anthony
Director of Construction Futures
3825 Dacoma Street
Houston, TX 77092
Ph: 713-843-3700
Fax: 713-843-3777
Charlene.a@agchouston.com

Emeritus Members

Jesse Gonzales
1245 Anderson Street
Houston, TX 77081
jesse@the-gonzalezgroup.com

Don Jones
4300 Highway 290 East
Brenham, TX 77833-6909

Jim Marsh
607 West Fox
Caldwell, TX 77836

Jack Morris
3425 Marquette
Dallas, TX 75225
Jlmsr52@sbcglobal.net

Duane Pozza
52 Silverhorn Drive
San Antonio, TX 78216
dcpozza@aol.com

Jack Turner
1009 Lawndale Street
Brenham, TX 77833
jett@texasBB.com

Joe Vaughn
10355 West Park Drive
Houston, TX 77042

INDIVIDUAL MEMBERSHIPS

Lifetime Members

Dwain Bankston
6640 Signat
Houston, TX 77041
dwain@aarinc.net

Martin Benjamin
7015 Quail Wilde
San Antonio, TX 78250

Shane Bosamp
30430 Pickle
Bulverde, TX 78163

Kyle Cook
22610 Arbor Stream Drive
Katy, TX 77450
kcook@meridianconstructors.com

Keith Ellis
101 Grove Street
College Station, TX 77840
keith@elliscustomhomes.com

George Eustace
109 North Avenue East
Bryan, TX 77801
Geustace@arch.tamu.edu

Larry Fickel
1732 Manderley Lane
Ogden, Utah 84403
lfickel@me.com

Jim Garcia
17120 Classen Road
San Antonio, TX 78247
Jim@jagcmweb.com

Michael Garrett
1000 Front Street, Northwest
Grand Rapids, MI 49504

Jeff Hagar
2615 49th Street
Austin, TX 78731
jhagar@r-o.com

Thomas Hill
126 Winding Hollow
Coppell, TX 75019

Bryan Holmes
6480 Caswell
Beaumont, TX 77708

Joe Horlen
9091 Grassbur Road
Bryan, TX 77808
Jhorlen@tamu.edu

Brian Lewis
5706 East 110th Street
Tulsa, OK 74137
blewis@oilcapitalelectric.com

Lendon Lewis
8120 Mainland Drive, #201
San Antonio, TX 78240

Benjamin Martin
13430 Vista Del Prado
San Antonio, TX 78216

Richard McCord
4902 Canberra
Arlington, TX 76017
Txag79@sbcglobal.net

Gavin McGee
5909 West Loop South, Suite 550
Bellaire, TX 77401
mgmccgee@mgmlaw.us

Corbett Nichter
9636 Greenville Avenue
Dallas, TX 75243
Cnichter@cfjordan.com

Tom Owens
8b Woods Edge Lane, # B
Houston, TX 77024
Tom_owens@hines.com

Neil Platt
14 Heather Bank Place
The Woodlands, TX 77382

Robert Rayborn
2860 Tynewick Drive
Roswell, GA 30075
sportsbuilder@tcco.com

Robert Schmidt
Post Office Box 9486
Corpus Christi, TX 78469
rschmidt@fultonconst.com

Elliott Shepherd
3300 Rolling Rock, # 22
Baytown, TX 77521

Gordon Stewart
1 Whispering Pines

Magnolia, TX 77354

Clark Teel
470 Orleans, Suite 804
Beaumont, TX 77701
dcteel@att.net

Tom Tribble
Post Office Box 890689
Houston, TX 77289
tom@tribbleassociates.com

Robert Van Cleave
4416 Beverly Drive
Dallas, TX 75205

Don Weaver
1122 Forest Hills Trail
Castle Rock, CO 80108

Larry Zuber
3137 TAMU
College Station, TX 77843
l-zuber@tamu.edu

Five Year Members

Alan Baca
Post Office Box 2128
Temple, TX 76503
Alan.baca@worleyparsons.com

Don Baumann
20750 Parkland Drive
Parker, CO 80138

Alan Bjerke
5906 Dunnaway Crossing
Allen, TX 75002
keith@bjerkems.com

Mike Rosamond
1301 Seminary Ridge
Garland, TX 75043
Mike.rosamond@kdc.com

Brian Cooper
10412 Joy
Frisco, TX 75035
bcooper@scvlaw.net

Joel Morris
8640 Edgewood Cove
Frisco, TX 75034
jmorris@redsteelcompany.com

Charles Ulbricht
130 Woodcrest Drive
Bethalto, IL 62010
Charles.d.ulbricht@conocophillips.com

Annual Members

Jim Boyd
7710-T Cherry Park Drive,
#364
Houston, TX 77095
jboyd@bigenterprise.biz

Sandra Boyd
7710-T Cherry Park Drive,
#364
Houston, TX 77095
Sboyd@bigenterprise.biz

Benjamin Buchanan
1524 Gunnison Trail
Lewisville, TX 75077
Benjamin@aggienetwork.com

Benjamin Dolan
6217 West Sam Houston
Parkway North
Houston, TX 77041
bdolan@a1sp.com

Ray Gomez
4340 East Indian School
Road, PB 21553
Phoenix, AZ 85018
ray@theplatformgrp.com

Charlene Heath
12243 Grassbur Road
Bryan, TX 77808
Charlene.a.heath@gmail.com

Terrance Hutchings
1704 Tims Lane
Conroe, TX 77301
Tdhsafetyconroetx@yahoo.com

Ryan Malone
700 Louisiana Street, Suite 900
Houston, TX 77002
r Malone@alvarezandmarsal.com

Jeff Mikeska
2916 National Drive
Garland, TX 75041
jmikeska@primelectric.com

Timothy Ross
1000 Main Street, 36th Floor
Houston, TX 77002
tross@porterhedges.com

Lisa Buck Sauerhauge
2615 Winding Hollow Lane
Arlington, TX 76006
lbuck@veritasag.com

John St. John
702 Santa Maria Street
Sugar Land, TX 77478

Attachment B

Summary of employment for 2010 & 11 Bachelor of Science Construction Science graduates.

	SPRING 2010	SUMMER 2010	FALL 2010	TOTAL
NUMBER OF GRADUATES	62	29	51	142
NUMBER OF GRADUATES PROVIDING DATA	31	12	26	69
STARTING BASE SALARY**				
Maximum	\$ 72,000.	\$ 80,000.	\$ 70,000.	\$ 74,000
Average	\$ 50,467.	\$ 53,208.	\$ 50,308.	\$ 51,328
Minimum	\$ 31,200.	\$ 38,000.	\$ 35,000.	\$ 34,733
	SPRING 2011	SUMMER 2011	FALL 2011	TOTAL
NUMBER OF GRADUATES	91	26	52	169
NUMBER OF GRADUATES PROVIDING DATA	34	13	39	86
STARTING BASE SALARY**				
Maximum	\$ 90,000.	\$ 70,000.	\$ 109,000.	\$ 89,667
Average	\$ 53,262.	\$ 55,808.	\$ 54,375.	\$ 54,482
Minimum	\$ 45,000.	\$ 35,000.	\$ 30,000.	\$ 36,667

** Information on starting salaries for all majors within the College of Architecture at Texas A&M University is available at:

** <http://careercenter.tamu.edu/guides/reports/WhoHiresMyMajor/ArchitectureIndex.cfm>



Construction Industry Advisory Council — 2010 Budget

TAMU Foundation Construction Industry Advisory Council 2010 Budget

January 1, 2010 – December 31, 2010

Retained Earnings	\$ 84,355.04
Income	
Corporate Membership Dues	\$ 200,000.00
Individual Membership Dues	\$ 2,500.00
Interest	\$ 3,407.15
Interest CIAC Endowment	\$ 4,146.59
Total Income	\$ 210,053.74
Total Available Funds	\$ 294,408.78
Expenses	
Student Enrichment	
Student Competitions	\$ 20,000.00
Graduation Event	\$ 1,000.00
Annual Awards Banquet	\$ 15,000.00
Career Fair	\$ 6,000.00
AIC Certification Exam	\$ 5,000.00
Scholarships	
Individual	\$ 12,000.00
Endowed Matching	\$ 60,000.00
Study Abroad	\$ 5,000.00
Research Studies	\$ 8,000.00
Departmental Support	
Endowed Matching Professorship	\$ 30,000.00
Program Enhancement	\$ 45,000.00
CIAC Operations	
Meeting Expense	\$ 15,000.00
Former Student Tailgate	\$ 2,000.00
CIAC Endowment Fund	\$ 10,000.00
Development Fee	\$ 10,125.00
Total Expenses	\$ 244,125.00
Balance	\$ 50,283.78

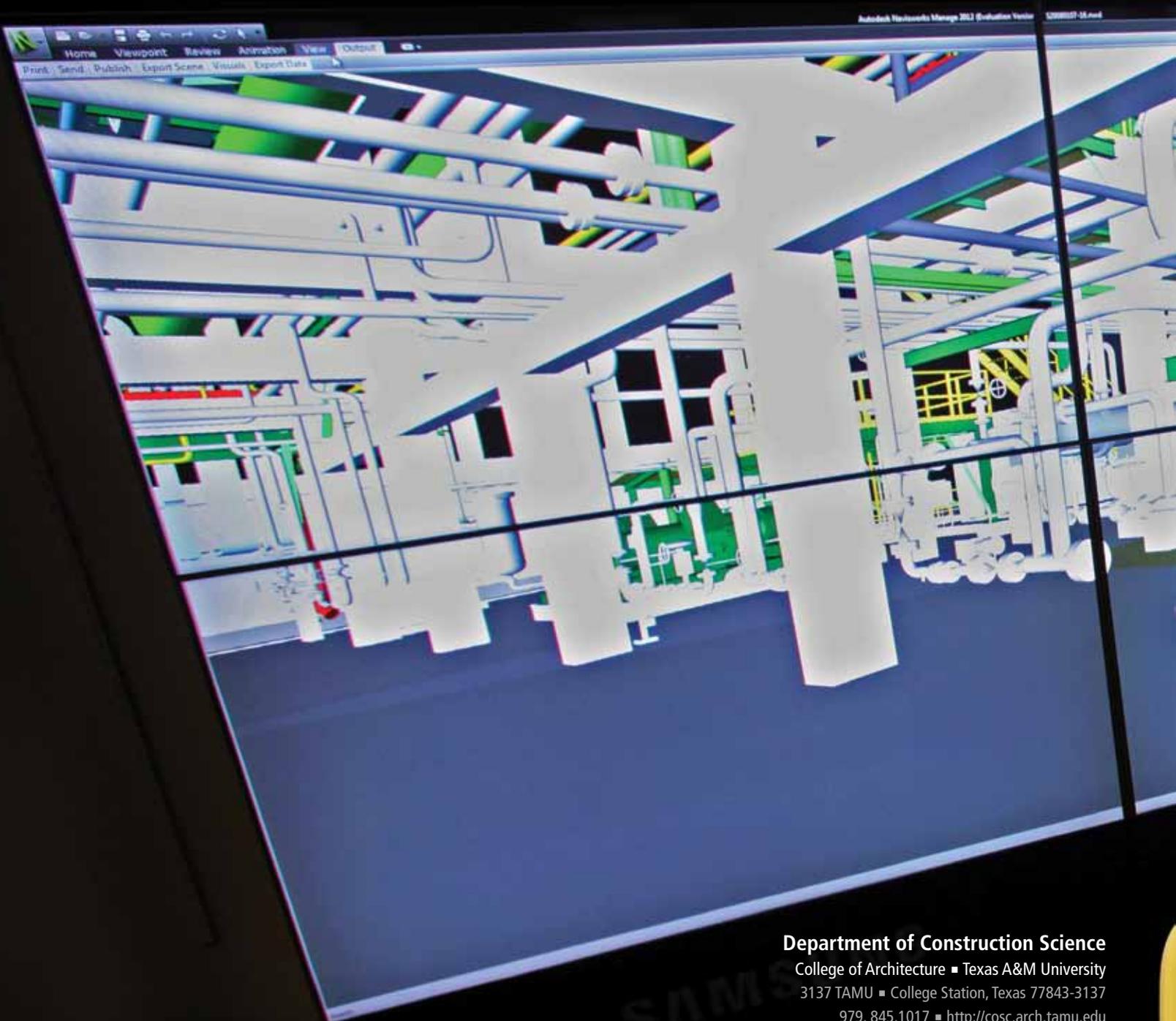
Construction Industry Advisory Council — 2011 Budget

TAMU Foundation Construction Industry Advisory Council 2010 Budget

January 1, 2011 – December 31, 2011

Retained Earnings	\$ 49,058.29
Income	
Corporate Membership Dues	\$ 200,000.00
Individual Membership Dues	\$ 2,500.00
Interest	\$ 3,400.00
Interest CIAC Endowment	\$ 4,200.00
Total Income	\$ 210,100.00
Total Available Funds	\$ 259,158.29
Expenses	
Student Enrichment	
Student Competitions	\$ 6,000.00
Graduation Event	\$ 1,000.00
Annual Awards Banquet	\$ 15,000.00
Career Fair	\$ 5,000.00
AIC Certification Exam	\$ 3,000.00
Scholarships	
Individual	\$ 15,000.00
Endowed Matching	\$ 60,000.00
Research Studies	\$ 15,000.00
Departmental Support	
Endowed Matching Professorship	\$ 30,000.00
Program Enhancement	\$ 45,000.00
CIAC Operations	
Meeting Expense	\$ 15,000.00
Former Student Tailgate	\$ 2,000.00
CIAC Endowment Fund	\$ 10,000.00
Development Fee	\$ 10,125.00
Total Expenses	\$ 232,875.00
Balance	\$ 26,283.29





Department of Construction Science

College of Architecture ■ Texas A&M University

3137 TAMU ■ College Station, Texas 77843-3137

979. 845.1017 ■ <http://cosc.arch.tamu.edu>

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