


CONSTRUCTION INDUSTRY ADVISORY COUNCIL

DEPARTMENT OF CONSTRUCTION SCIENCE

ANNUAL REPORT 2004

COLLEGE OF ARCHITECTURE
TEXAS A&M UNIVERSITY



The growth and involvement of the CIAC since it was established in January 1998, has been extraordinary. It has become an integral part of the Construction Science program, influencing every aspect of the program.

*— James Smith
Professor, COSC*

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Dear Colleagues:

As you review the pages of this report, you can see that 2004 was another successful year for the Construction Industry Advisory Council. From scholarships to student enrichment, the dollars provided by industry members do so much to increase the quality of the experience our future constructors enjoy during their years at Texas A&M University. Our goals for 2005 include increased membership and a continuation of the traditions provided by our semi-annual meetings.

The construction industry has many more Aggies that would benefit from being involved with the CIAC, and CIAC would benefit from their participation. I encourage you to bring a friend to our next meeting and share the excitement of getting back to campus, giving your input, and visiting with the faculty, students, and other involved industry professionals.

On behalf of everyone in the CIAC, I want to thank you for your participation and support.

— Stan Marek '69, President,
Construction Industry Advisory Council

CONSTRUCTION INDUSTRY ADVISORY COUNCIL AT TEXAS A&M UNIVERSITY

The Department of Construction Science at Texas A&M University has always enjoyed excellent support from dedicated professionals in the construction industry. The Professional Advisory and Development Board historically governed cooperation between the construction industry and Texas A&M University's Department of Construction Science.

Throughout the years the board facilitated dialogue and coordination between industry and academia. In 1997, efforts began to revitalize the council by merging the needs and expectations of industry with the academic training and expertise provided by the construction science department at Texas A&M University. On January 1, 1998, the Construction Industry Advisory Council (CIAC) emerged. This partnership is dedicated to advancing the quality of the construction industry. CIAC's objectives, as set forth in its by-laws, are to:

1. Promote and improve the construction profession by education and development of construction knowledge.

2. Advance and support the highest quality faculty, educational facilities, and undergraduate and graduate programs for the students enrolled in the Department of Construction Science.

3. Provide liaison between the construction industry and the Department of Construction Science.

4. Develop and implement innovative programs, which will benefit the Department of Construction Science and the construction industry.

5. Offer, advise and counsel through the active participation of the construction industry, and provide vision for the Department of Construction Science.

A&M's Department of Construction Science has the largest and most active industry advisory council in all of construction higher education with approximately 65-75 companies that offer counsel and provide funds for faculty development, research, student enrichment, and other fund-raising initiatives.

INTEGRITY
INTEGRITY

Many of the functions of the CIAC involve faculty and student interactions. Bi-annual meetings are held each year — one in April and one in November — where industry representatives meet on the Texas A&M University campus to discuss issues affecting both industry and academia. Sessions are held with faculty representatives to identify and respond to industry needs and expectations. Construction Science faculty report on research and new technologies being developed at Texas A&M, and industry participants help define and guide the role academia plays in testing and refining those theories, so that they can be implemented in practice.

Industry also plays a role in molding the department's curriculum so that A&M students are better educated and equipped to begin their careers in full force upon graduating. This teamwork makes for a better product, and a better construction industry overall.

A strong relationship and effective communication between current and future industry participants is an important component of the overall goal to improve and foster a professional industry image through future generations. With that in mind, one of the highlights of the CIAC meetings has become the focus group sessions in which students and industry

representatives are given the opportunity to interact. In these sessions, the students are able to speak candidly with industry representatives about their academic and industry-related experiences identifying what they believe has been beneficial, and what could be done better to

enhance their educational opportunities.

The CIAC also strongly supports the construction science student body with counsel, financial support in the form of scholarships, and employment opportunities. The first session of the construction sci-

ence department's bi-annual career fairs are reserved for CIAC members only. This provides an exclusive opportunity to recruit the construction science program's top students. The frequent interactions between CIAC members and the student body ensure that industry is well-served with the brightest and best graduates.

Providing high-quality educational programs for industry members and students is an integral component of CIAC's mission. As part this ongoing initiative, from time to time, CIAC and the department host events which highlight challenges and seek solutions to problems confronting today's construction industry. In the recent past, two such events, a diversity conference and an ethics seminar, were held at Texas A&M.

The diversity conference, "Building Excellence Through Diversity: Partnering with the Construction Industry," sought solutions for increasing the enrollment of traditionally under-represented minorities in Texas A&M's construction science programs. The event, which drew over 500 participants, was moderated by Bill Guillory, president and CEO of Innovations Consulting International, Inc. and one of the foremost authorities on professional ethics. At the conference, panels featuring both student and industry leaders

The students and faculty of our construction science department have always enjoyed the support of the construction industry. Industry involvement was re-vitalized and taken to new levels with the creation of the CIAC.
— James Craig
Interim Department Head



CIAC members at the fall meeting on Texas A&M University campus.

There are few contractors in Texas that do not have Aggie Constructors in responsible management positions. Approximately 95 percent of the students enrolled in the construction science program at Texas A&M University are from Texas, and most stay in the state to work for Texas contractors or for the Texas divisions of national and international contractors.

CIAC helps fund the Department of Construction Science's graduation banquets where, in addition to the honors presentations, each graduate receives a personalized Aggie hard hat commemorating their time at Texas A&M University.



Matt Coons '04, AGC Outstanding Student in Construction Science receives a hard hat during the department's spring 2004 graduation celebration.

examined a variety of issues related to enhancing student diversity and overcoming barriers to enrollment for these target populations. The ethics seminar, attended by about 500 students, faculty and industry representatives, was held in Rudder auditorium and was facilitated by Professor Jimmy Gill of LSU.

Through programs of this kind the CIAC encourages its members, the faculty, and

students to become leaders in both their personal and professional endeavors.

Additionally, the CIAC helps fund the department's regular graduation banquets, where graduates and their families are honored after graduation ceremonies at Reed Arena. In addition to the honors presentations, each graduate receives a personalized Aggie hard hat commemorating their time at Texas A&M University.

GOVERNANCE

The CIAC is governed by by-laws listed in detail on the construction science department's Web site at http://archnt2.tamu.edu/cosc/CIAC/ind_CIAC.html. The council conducts some of its affairs and business through standing subcommittees appointed by and from members of its executive committee. The following standing subcommittees are appointed every two years:

1. **Research and Studies:** Research and studies to advance quality and industry innovation are among CIAC's objectives. The council sets goals in this area with the input of research faculty members, who are funded by and report to the CIAC on an annual basis. This subcommittee sets priorities for spending CIAC funds and selects faculty proposals for funding.
2. **Budget:** This subcommittee prepares the proposed annual budget for consideration by the executive committee and monitors expenditure of funds from the CIAC account to ensure that expenditures are in accordance with approved budgets.

3. **Membership:** This subcommittee promotes and solicits CIAC membership and manages the council's awards program which provides recognition for students, faculty and individual and corporate members.
4. **Curriculum:** This subcommittee provides continuous review of the department's undergraduate and graduate curriculum and helps foster changes where needed to promote constant improvement.
5. **Development:** This subcommittee supports and promotes the fund-raising activities of the construction science department.

The Construction Industry Advisory Council maintains four standing subcommittees: research and studies, budget, membership, and curriculum development.

ETHICS

HOW TO JOIN CIAC

The CIAC by-laws provide four categories of membership: corporate, emeritus, association, and individual.

For CIAC membership information contact Bobbie Smith at 979.845.1017 or write: Department of Construction Science 3137 TAMU College Station, TX 77843-3137

Corporate members, or Partner Corporations, are industry sponsors who agree to pay annual dues and may appoint a company representative to sit on the executive committee, the CIAC's governing body. Additionally, any corporation that participates in the "PARTNERS FOR THE FUTURE," as detailed in Article III of the by-laws, is entitled to designate a representative of the corporation to participate in the council's activities and to serve on the executive committee. Dues for partner corporations are \$2000 per year.

A current list of Corporate/Partner members and their contact information can be found, beginning on page 17 of this publication, in "Attachment A."

Emeritus members are a special category of membership that was approved by the executive committee to recognize very experienced individuals. These are members who have made extraordinary contributions to the construction industry, but who are retired from active participation in a corporation, and whose expertise

and participation makes a valuable contribution to the CIAC. Emeritus membership is subject to approval by the executive committee and these members are invited and encouraged to participate in all council activities. Emeritus members do not pay dues, and are non-voting members of the executive committee. Emeritus members are also listed in "Attachment A" on page 16.

Association members are representatives of professional industry organizations (AGC, ABC, NAHB, etc.) who advise the CIAC and the construction science program on current issues of importance to the construction industry. This membership category was added to the by-laws at the spring 1999 meeting. Association members, in deference to the other significant association contributions to the construction science program, are not required to pay dues, but may vote on executive committee issues. "Attachment A" on page 16 lists associate members.

Individual members are construction industry representatives who choose to support the construction science program at Texas A&M University. Many are graduates of the program who elect to provide continuous support to the program through gifts of time and/or dollars.

Individuals seeking CIAC membership must submit an application form — which may be downloaded from http://archweb.tamu.edu/cosc/industry_frame.html — and the appropriate membership fee:

Annual Membership	\$50.
Five-year Membership	\$200.
Lifetime Membership	\$500.

For additional membership information, or to join the CIAC, contact Bobbie Smith at the Texas A&M Department of Construction Science — phone: 979.845.1017, or by mail at:

Department of Construction Science
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Information is also available online at http://archweb.tamu.edu/cosc/industry_frame.html.

LEADERSHIP

Stan Marek presents Fred Raley with the CIAC Constructor Hall of Fame Award during the annual awards banquet.



ANNUAL REPORT

I. BUDGET/DEVELOPMENT

An annual budget is approved each year at the fall meeting. A summary of budget activity for 2004 can be found in "Attachment C" on page 28.

II. FUNDING

The CIAC by-laws provide that CIAC-generated funds be used for (1) student enrichment, (2) scholarships, (3) research and summer studies and (4) faculty development.

1. Student Enrichment

The CIAC funds support the student chapters of professional associations, student field trips to construction sites and student competition teams. This past year each of the following student organizations received \$1000.00 from the council:

- Associated Builders and Contractors (ABC)
- Construction Management Association (CMA)
- Design Build Institute of America (DBIA)

- Society of Women in Construction (SWIC)
- National Association of Home Builders (NAHB)
- Associated General Contractors (AGC)
- Mechanical & Electrical Contractors Association (MECA)

2. Scholarships

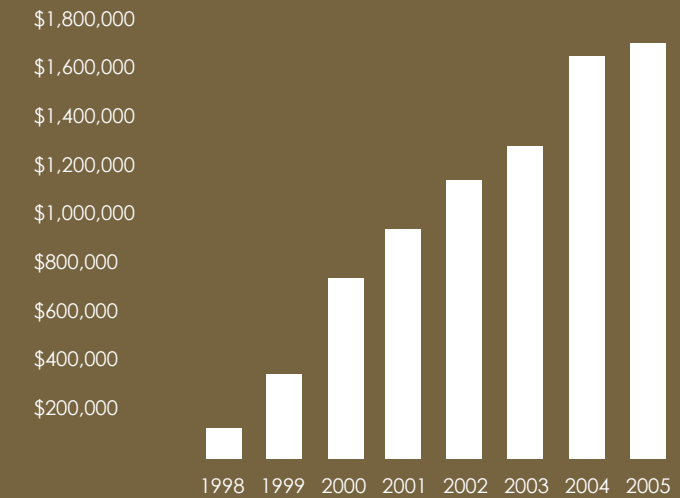
Scholarships are an important component of higher education that allow students to more fully participate in the academic process. Many good students are able to continue their studies due to the generosity of industry supporters, and their gratitude extends beyond graduation. Many of the current industry scholarship contributors were recipients of scholarship monies while students in the construction science department. In the 2004 school year, 128 students received scholarship awards totaling \$162,375. CIAC funds accounted for \$10,500 of this total.

EDUCATION

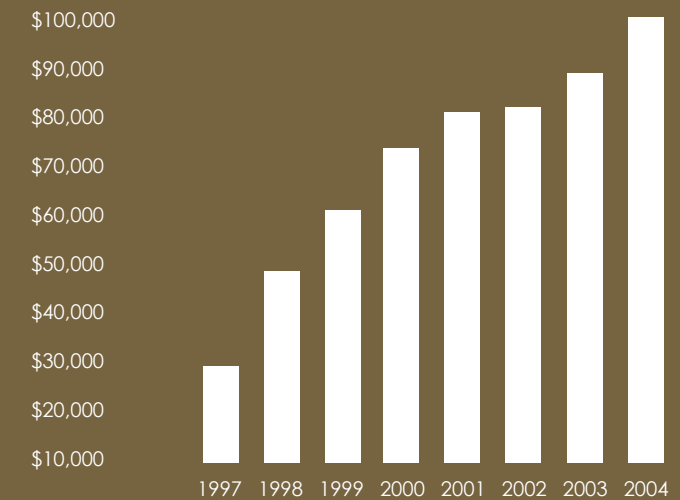
In the 2004 school year, 128 students received scholarship awards totaling \$162,375. CIAC funds accounted for \$10,500 of this total.

In 2004 the CIAC authorized matching funds in the amount of \$80,000 to create endowed scholarships. As a result of this program, originally four new endowed scholarships were created for 2004. Donors matched the CIAC funds on a three-for-two basis to generate endowed scholarships with a corpus of \$100,000. In 2005, the total number of endowed scholarships will reach 42. The growth in endowed scholarships will assure that funds will be available in perpetuity. Figure 1 shows the pledged value of these endowed scholarships.

ENDOWED SCHOLARSHIPS PLEDGED AMOUNT
FIGURE 1



SCHOLARSHIPS
FIGURE 2



The support of all industry donors contributes to the continued growth of the Texas A&M construction science program and provides much needed funds to its students. Figure 2 depicts the phenomenal overall success of the scholarship program since the inception of the CIAC.

3. Research and Studies

As faculty coordinator for the Research Subcommittee, Charles Graham, the Mitchell Endowed Professor of Construction Science, assisted the CIAC Board in allocating \$30,000 for research in 2004-05. At the spring board meeting, \$15,000 was approved for a project by Julian Kang, assistant professor of Construction Science, and graduate student Narendra Nigudkar entitled "Effectiveness of 4D construction modeling in minimizing time-space conflicts in construction planning." The committee reviewed the research progress and Kang and Nigudkar demonstrated their visualization and preliminary findings from their ongoing research.

To utilize the remaining balance of \$15,000, an additional request for research proposals was issued in summer 2004. Four proposals were received in August for the subcommittee's evaluation. The subcommittee voted on the proposals via e-mail and facsimile communications and two projects were selected for funding.

Richard Burt, assistant professor of construction science, received funding for a graduate student, Bentley Scott, to attend the U.S. Green Building Council's Green Building Conference in Portland, Ore. While in Oregon Bentley investigated project managers' opinions of the Lead-

ership in Energy and Environmental Design Green Building Program. "With the results of Bentley's research," Burt said, "Ken Williamson, associate professor of construction science, and I have submitted a paper which will be presented this April at the Associated Schools of Construction 41st Annual Conference in Cincinnati, Ohio."

Additionally, Neil Eldin, associate professor of construction science and Tao Wang were awarded \$13,000 to conduct their study entitled "Construction Automation: Visualization and Validation of a Drywall Robot." Eldin and Wang gave the subcommittee a demonstration of the drywall robot's movements and capabilities.

The board has budgeted \$10,000 (two projects at \$5,000.00 each) for faculty research in 2005-06. Requests for proposals were issued in January.

4. Faculty Development

In November 2004, with the help of CIAC funds, the construction science faculty gathered for a department "retreat" to plan for future growth and facilitate structured movement of the department in a positive direction.

III. CURRICULUM

The Curriculum Subcommittee's focus for

the past year was two-dimensional, explained subcommittee coordinator Leslie Feigenbaum, senior lecturer in the Department of Construction Science. Regarding classes taught within the department, the internal dimension was somewhat constrained by preparations in progress for an upcoming accreditation self study. The major curriculum issue addressed last year was improving the content and methodology for the department's surveying instruction. There was a keen interest in moving this requirement to a "mini-mester," taught between semesters by industry professionals in an all-day camp setting. Evaluation of this idea continues.

Early in the year, discussion focused on the need for continuing education for industry professionals who are transitioning into company management. The CIAC provided funds to survey the current availability of such courses. The results were presented at the fall meeting and the curriculum subcommittee has begun putting together a multi-year certificate program. The subcommittee is actively seeking input for topics and presenters.

IV. STUDENT PLACEMENT

Student placement activities center on the department's bi-annual career fairs. Each career fair brings approximately 80 companies to the College of Architec-

ture at Texas A&M University and the first two-day session of each career fair is reserved exclusively for CIAC members. The income from the second session, which is open to all companies regardless of affiliation, has historically offset expenditures for both sessions, so career fair typically has no cost to the CIAC members. Career fairs provide opportunities for companies to interview and interact with students. A dinner, hosted by the department, allows a more casual atmosphere to network before the formal interviews on the second day of the session.

Companies interested in participating in future career fairs should contact Leslie Feigenbaum at 979-845-1017 to reserve a spot.

Graduation exit surveys indicate that virtually all graduates from Texas A&M's construction science program have a job waiting for them. Many students have reported that they made two to four offers for every one accepted. Hiring data for the year can be found on page 27.



*Julian Kang
assistant professor,
Department of
Construction Science*



*Richard Burt
assistant professor,
Department of
Construction Science*



*My graduate students and I appreciate the funds that CIAC gave allowing us to pursue our research in the area of construction automation.
— Neil Eldin
associate professor,
Department of
Construction Science*

RESEARCH
RESEARCH

V. 2004 ACCOMPLISHMENTS

The department's annual awards banquet was held at the Hilton Hotel in April. Approximately 35 CIAC companies sponsored tables and over 500 students, faculty, industry representatives, and guests attended. The CIAC Constructor Hall of Fame Award was presented to Fred Raley, president of SpawGlass. Other awards and scholarship donors and recipients were recognized, but perhaps the biggest event of the evening was the announcement of a new endowed professorship honoring Jim Smith, outgoing head of the Department of Construction Science. When fully funded, the professorship will support teaching, research and service initiatives of the appointed faculty member. The evening's keynote speaker, Fightin' Texas Aggie Head Football Coach Dennis Franchione, talked about teamwork and leadership qualities. The evening culminated with a casino night and live band in the ballroom.

The department's Spring 2005 Awards Banquet will be held April 14, 2005 at the College Station Hilton. "Save the date" cards were recently mailed and a formal invitation will soon follow. Once again, a live band is booked for the event, which offers a great opportunity to meet other industry participants, faculty, and students in the construction science program.

Membership Subcommittee:

Faculty moderator for the Membership Subcommittee was John Nichols, assistant professor of construction science, and industry coordinators included James Boyd, SpawGlass project executive, and Heidi L. Boucher-Roberts, project manager with Tellepsen. The subcommittee is currently exploring strategies for a CIAC membership drive and plans to provide suggestions at the spring CIAC meeting.

Residential Subcommittee:

This fall another subcommittee met with students who have a particular interest in the residential side of the construction industry. The faculty moderator for the group was Joe Horlen, assistant professor of construction science. The committee co-chairs for the coming year will be Chad Schramme, vice president of customer relations for Pulte Homes and Chris Broussard, a project manager with Hannover Company.

The subcommittee heard from a number of the officers of the National Association of Home Builders Student Chapter, which has 125 members. In early January, 31 students competed at the International Builders Show in Orlando, Fla.

LOOKING FORWARD

The spring CIAC Executive Board Meeting will be held on the Texas A&M University campus April 14 & 15, 2005. Members will receive further information regarding the meeting in early spring. Non-members should contact the Department of Construction Science at Texas A&M University for information on joining. Membership information is available on page 8.

The accomplishments detailed above represent a vital contribution to the construction science program at Texas A&M University's College of Architecture. The challenge is fostering continuous program improvements that accommodate the rampant change endemic to the global society. With industry help, the past years have been overwhelmingly successful and great strides have been made towards accomplishing and maintaining the goals set forth by the council. The Department of Construction Science thanks the CIAC and looks forward to collaborating with the council for continued success.

Upcoming Events:

- CIAC Executive Board Meeting
April 14-15 at Texas A&M University
- Spring 2005 Awards Banquet
April 14, 2005 at College Station Hilton



*Jim Smith
Professor,
Department of
Construction Science*



Langford Architecture Center, Building A.

ATTACHMENT A – MEMBERSHIP LISTINGS

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*For information on joining CIAC,
please see page 8.*

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*Corporate members, or
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to pay annual dues and
may appoint a company
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in 2003 as the outstanding
chapter in the nation
— competing with 140
student chapters.*

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Individual members are construction industry representatives who choose to support the construction science program at Texas A&M University. Many are graduates of the program.



Chasity Jansa receives the Bernice V. Stewart Endowed Scholarship.

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ATTACHMENT B – HIRING DATA

	Spring	Summer	Fall	Total 2004
Total Number of Graduates	58 (13*)	34 (8*)	61 (15*)	153 (36*)
Graduates Providing Data:	56 (1*)	34 (2*)	61 (2*)	151 (5*)
Going on to Graduate School	1	2	0	3
Going into the military	1	2	1	4
Pursuing "other" careers or Undecided	10	9	17	36
Starting Base Salary**				
Low	\$36,000	\$36,000	\$30,000	\$30,000
High	\$50,000	\$55,000	\$55,000	\$55,000
Average	\$42,408	\$43,929	\$41,586	\$42,418

*Graduate Students

** Undergraduates only. Does not include hiring bonus or allowances of any kind. Excludes military and those on sales commission.

For the past five years, every graduate of the A&M Department of Construction Science who desired employment, had a job at graduation. Their average starting salaries have increased steadily from \$39,000 in 1997 to \$42,000 in 2004.

COMPANIES HIRING GRADUATES

Companies listed in **bold** are members of CIAC

American	2	Dorazio Enterprises	1	Perry Homes	2
AUI Contractors	1	DPR Construction, Inc.	2	Poole & Kent Corp.	1
Austin Commercial	3	Drymalla	1	Pulte Homes	3
Barger Industries	1	Durotech, Inc., GC	1	RM Dudley Construction	1
Beck	1	Dynamic Systems Inc.	3	Rodman Construction Company	1
Bob Moss & Associates	1	Galaxy Builders	1	Rogers-O'Brien Construction	1
Browning Construction	2	H & B Contractors	1	Satterfield and Pontikes	1
C & L Concrete Construction, Inc.	1	Hensel Phelps Construction Co.	4	Spaw Glass Holding, L.P.	4
C.F. Jordan	1	Highland Homes	4	TD Industries	1
Centex Homes	2	Howard Homes	1	Turner Construction Co.	1
Charter Builders	1	JE Dunn	3	Vaughn Construction	5
Circle KJ Builders	1	Joeris	4	VCC	1
Clark Construction	4	Lockheed Martin Missles & Fire Control	1	Western Builder Inc.	1
Constructors & Associates	4	Lyda Swinerton	1	Whiting-Turner Contracting Co.	3
D & H Masonry	1	Manhattan Construction	4	Yates Construction	1
D.E. Harvey Builders	3	McCarthy Building Companies Inc.	1	Zachry Construction Corp.	2
David Weekley Homes	1	Mills Electric	1		
Diamond K Corp.	1	MW Builders	1		
DKD Electric	1	Orion Construction	1		

ATTACHMENT C – BUDGET

	Budget for 2004	Actual through Dec. 31	Budget for 2005
Anticipated income			
Balance on Hand Jan. 1-TAMU	\$10,000	\$ -	\$ (5,000)
Balance on Hand Jan 1-FDN	\$33,065	\$33,065	\$(12,000)
Individual Membership (net)	\$8,500	\$2,300	\$6,000
Corporate Membership (net)	\$130,000	\$114,000	\$130,000
Total Available	\$181,565	\$149,365	\$119,000
Proposed Expenditures			
1. Student Enrichment			
Student Chapters	\$8,000	\$6,000	\$8,000
Student Competition	\$10,000	\$15,355	\$14,000
Graduation Hard Hat	\$3,000	\$1,250	\$2,000
"Build Day"	\$2,500	\$2,500	\$ -
Miscellaneous	\$5,000	\$5,454	\$5,000
Total	\$28,500	\$30,559	\$29,000
2. Research Studies			
	\$30,000	\$27,000	\$10,000
3. Student Scholarships			
Individual	\$10,000	\$10,350	\$10,000
Endowed	\$50,000	\$50,000	\$40,000
Total	\$60,000	\$60,350	\$50,000
4. Faculty Development			
	\$10,000	\$1,447	\$20,000
5. Unrestricted Endowment Account			
	\$20,000	\$60,000	\$10,000
Total Expenditures	\$148,500	\$179,356	\$119,000
Balance on Hand			
FNDN Account	\$15,303	-	-
TAMU Account	-	-	-
Total	\$33,065	\$12,196	-



Texas A&M University Construction Science Competition team attends the International Builder's Show in Orlando , Florida



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