Teaching

Strengths
Weaknesses
Hopes
Fears
INCREASED CHOICE

Future:

19-20
  Cultural Discourse (CD)
  FYE – Pilot

20-21
  FYE - Mandatory
  CD (COSC)
  New Degree Plan

21-23
  Fine Tuning Electives
Congratulations Dr. Ahn on receiving the Best Paper Award (1st place) for his paper titled "saliency detection analysis of pedestrians' physiological responses to assess adverse built environment features" that was presented at the ASCE International Conference on Computing in Civil Engineering (ICCE) in Atlanta last week.

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Projects and Grants

Below is a list of active funded projects and grants led by the CDIT faculty. For more information, please contact individual faculty members.

- **Developing an Improved South Dakota Construction Code**
  - South Dakota Department of Transportation
  - April 2021
  - Dr. David Jeong

  This project will identify current and potential uses for construction code actors (CCAs) in South Dakota Department of Transportation and develop methodologies for certifying, monitoring, and using a CCA for each use. This study will also evaluate the level of risk or uncertainty for projects made using the CCA methods.

- **Cognition-Driven Display for Navigation Activities (CogDNA)**
  - Personified Spatial Information System Based on Information for Personnel of First Responders
  - National Institute of Standards and Technology (NIST)
  - June 2018 to May 2021
  - Dr. Patrick Switowhom

  This project proposes and tests an innovative concept called Spatial Information Personified (SIP). SIP is a region of information that represents a familiar and behavioral patterns for different spatial objects. The information will be displayed for each individual, allowing individuals to determine if different objects, quantities, and display methods of information are more effective for training. The information that is most effective for each individual can be integrated as a necessary part of training sessions.

- **Systematic Approach for Estimating Construction Contract Time (NCHRP)**
  - NCHRP 08-116
  - National Cooperative Highway Research Program (NCHRP), Transportation Research Board (TRB), National Academy of Sciences

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History of (Scholarship) Giving

- Since 2000, a total of 80 new permanent endowed scholarships created
- The largest, with multiple donations over multiple years as well + investment growth is more than $333,000
- Total amount donated to the program, including the matching funds, is more than $2.5 million
- 9 of 12 scholarships spoken for this year
- Future Brick and Mortar Opportunities?
HOWDY CIAC!

2019 Summer Luncheon
Texas A&M Construction Science

Industry Relations Office

Hernan Guerra, MSCM, STS, LEED AP

Melissa Sodolak
Welcome to CIAC: New to 2019

<table>
<thead>
<tr>
<th>Architectural Fabrication</th>
<th>ERDMAN</th>
<th>Moss &amp; Associates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Avinext</td>
<td>F.A. Nunnelly Co.</td>
<td>National Property Holdings</td>
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<tr>
<td>BKT Construction</td>
<td>Franco Builders</td>
<td>ONCOR Electric Delivery</td>
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<tr>
<td>Noble Construction</td>
<td>Freese and Nichols</td>
<td>Osburn Contractors</td>
</tr>
<tr>
<td>Bosworth Steel Erectors, Inc</td>
<td>Granite Construction</td>
<td>Prime Controls, LP</td>
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<tr>
<td>Brown &amp; Root Industrial Services</td>
<td>Greater Austin Development (AGADCO)</td>
<td>R.K. Hall LLC</td>
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<tr>
<td>C.A. Walker Constructions</td>
<td>Herman &amp; Kittle Properties, Inc.</td>
<td>S. Watts Group</td>
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<tr>
<td>Chamberlin Roofing &amp; Waterproofing</td>
<td>Jim Cooper Construction Co., Inc.</td>
<td>Steve Hoegger &amp; Associates</td>
</tr>
<tr>
<td>Chesmar Homes</td>
<td>Katerra</td>
<td>Streetlights Residential</td>
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<tr>
<td>Clark Construction of Texas</td>
<td>King of Texas Roofing</td>
<td>TriFection Remodeling &amp; Construction</td>
</tr>
<tr>
<td>Clune Construction</td>
<td>LP Corporation</td>
<td>Turner &amp; Townsend</td>
</tr>
<tr>
<td>EDI Building Consultants, Inc.</td>
<td>Robinson General Contractors</td>
<td>WBW Construction, LLC</td>
</tr>
<tr>
<td>Williams Company</td>
<td>MMC Corps</td>
<td>JPI Construction</td>
</tr>
</tbody>
</table>
• **Early Engagement**

• CIAC Company Market Diversity

  • See Update
Early Engagement Update

- In Fall 2018, 33% of Junior Students Seeking COSC 494 Internships had Zero Construction Experience
  - IDEAS
  - Encourage Freshman/Sophomore involvement through CIAC summer jobs
  - Field Trip Rotation of CIAC Members (expand your brand) – We rotated 8/10 field trips on Spring and will rotate 8 new ones in the Fall.
- UPDATE - Career Fairs in 2019 saw an increased number of Freshmen and Sophomore students
Field Trip Rotations
• Early Engagement

• CIAC Company Market

Diversity

• See Update
175 Companies in July 2018
Around 71% Commercial GCs
49 New Companies Added since July 2018

- 11 Commercial
- 12 Specialty Subcontractors
- 6 Residential
- 6 Owner/Developer/CM
- 5 Heavy Civil
- 3 Industrial
- 4 Consulting and or Technology
- 1 Design/Fabricaton
- 1 All Inclusive Design/Fabrication/Build/Deliver
CIAC Member Update at 206 companies - Commercial GC’s are at 45%, Specialty Subs are at 15%, Residential is at 11%, Industrial at 7%, Heavy Civil at 6%
Status of our CIAC:

As of July 15\textsuperscript{th} we are at \textbf{206} (up from \textbf{175} last year on July 1\textsuperscript{st})
167 have renewed so far (up from 162 last year)
39 new companies have joined since November 2018

Currently Tracking at 231 Companies
End of year expectation – conclude the year at \textbf{225-240} company members. (up from 205 at end of 2018)
IRO Vision Fall 2019 and Beyond

• Continue to encourage Early Engagement of Students / Companies (example – Industry Internship Mentoring Group – guest lectures)
• Develop and Implement Retention / Partnership Strategies with CIAC members (example – multi year memberships at discount)
• Continue to support and increase CIAC matched endowed scholarships for our students
• CIAC Support Service Opportunities (example – ongoing Academies, and future Constructarium)
• New Outreach strategies (example – Golf/Fish/Skeet Tournaments, Casino Night – CIAC exclusive or partnering with CIAC members)

ANY IDEAS ARE WELCOME
STUDENT EXIT SURVEY DATA

NEW NUMBERS AVAILABLE

FROM SPRING 2019 EXIT SURVEY
• 127 Internship Students – Fall 2018
• 159 Internship Students – Spring 2019
• Average Salaries - $16.72/hr
• Most Common hourly salary - $17/hr
• Highest Salary (within the US) - $28/hr
• Lowest Salary - $12/hr
Internship – CIAC Exposure
Internship and Employment

**Student Employment Data**

89% Have secured a job before graduation
90% had at least one job offer
88% plan to enter construction-related employment
64% received a job offer from their internship provider (down from 71%)
49% accepted a job offer from their internship provider (up from 43%)
Full Time Sectors, Areas and Titles
Spring 2019 Data

Sectors in which students will be employed
- 60% Commercial (down from 67%)
- 5% Residential – Single Family (Internships at 10%)
- 5% Industrial
- 4% Oil/Gas/Energy
- 4% Specialty

Top 4 major Texas cities in which students will work upon graduation
- **27% Dallas/Fort Worth (up from 23%)**
- 26% Houston (down from 30%)
- 13% Austin (down from 18% in Fall 2018 - was 13% Spring 2018)
- 11% San Antonio (down from 13% Fall 2018, at 5% in Spring 2018)
- 23% Other (including out of state – up from 16%)

Top 4 job titles students will hold upon graduation
- 34% Project Engineer
- 10% Assistant Project Manager
- 12% Field Engineer
- 7% Assistant Superintendent
Starting Salaries by Title

Starting Salary Mode, Average, and Range of Top 3 Job Titles Students Will Hold Upon Graduation (Table 32)

<table>
<thead>
<tr>
<th>Job Title</th>
<th>Mode Starting Salary</th>
<th>Average Starting Salary</th>
<th>Minimum</th>
<th>Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project Engineer</td>
<td>$63,000</td>
<td>$90,000</td>
<td>$53,000</td>
<td>$103,000</td>
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<tr>
<td>Field Engineer</td>
<td>$65,000</td>
<td>$95,000</td>
<td>$60,000</td>
<td>$100,000</td>
</tr>
<tr>
<td>Assistant Project Manager</td>
<td>$64,000</td>
<td>$64,000</td>
<td>$50,000</td>
<td>$70,000</td>
</tr>
<tr>
<td>Assistant Superintendent</td>
<td>$63,280</td>
<td>$68,000</td>
<td>$54,000</td>
<td>$86,500</td>
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</tbody>
</table>
DIFFERENCES FROM FALL 2018

Project Engineer highest starting salary jumped from 70K to 90K
Project Engineer Average starting salary moved from 62K to 63K (plus 1K)

Field Engineer highest starting salary jumped from 65K to 95K
Field Engineer Average starting salary moved from 62K to 66K (plus 4K)

Assistant Superintendent highest starting salary moved from 76K to 86K
Assistant Superintendent average salary moved from 65K to 63K (-2K)

OVERALL SALARY AVERAGE - $63,429 – UP FROM $62,200
AVERAGE HIRING BONUS - $3,947

Highest Starting Salary – $99K to Project Manager
Lowest Starting Salary - $42.5K to Junior Estimator

Bonuses Given Ranged from $750 to $25K
# Important Dates

## Construction Industry Advisory Council

<table>
<thead>
<tr>
<th>CIAC Important Dates</th>
<th>2019</th>
<th>2020</th>
<th>2021</th>
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<tbody>
<tr>
<td>CIAC Career Fair</td>
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<tr>
<td>Spring</td>
<td>Thurs and Fri, Feb 14-15</td>
<td>Thurs and Fri, Feb 20-21</td>
<td>Thurs and Fri, Feb 11-12</td>
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<tr>
<td>Fall</td>
<td>Thurs and Fri, Sept 19-20</td>
<td>Thurs and Fri, Sept 17-18</td>
<td>Thurs and Fri, Sept 16-17</td>
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<tr>
<td>CIAC Board Meeting</td>
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<tr>
<td>Spring</td>
<td>Friday, April 26</td>
<td>Friday April 3, 2020</td>
<td>TBD</td>
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<tr>
<td>Fall</td>
<td>Friday, Oct 25</td>
<td>TBD</td>
<td>TBD</td>
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<tr>
<td>Scholarship and Awards Banquet</td>
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<tr>
<td>Spring</td>
<td>Thursday, April 25</td>
<td>Thursday April 2, 2020</td>
<td>TBD</td>
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<tr>
<td>Summertime Luncheons</td>
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<tr>
<td>Austin</td>
<td>Wednesday, July 10</td>
<td>Wednesday, July 8</td>
<td>Wednesday, July 7</td>
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<tr>
<td>San Antonio</td>
<td>Thursday, July 11</td>
<td>Thursday, July 9</td>
<td>Thursday, July 8</td>
</tr>
<tr>
<td>Houston</td>
<td>Wednesday, July 17</td>
<td>Wednesday, July 15</td>
<td>Wednesday, July 14</td>
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<tr>
<td>Dallas</td>
<td>Thursday, July 18</td>
<td>Thursday, July 16</td>
<td>Thursday, July 15</td>
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<tr>
<td>Harlingen</td>
<td>Tuesday, July 23</td>
<td>Tuesday, July 21</td>
<td>Tuesday, July 20</td>
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<tr>
<td>Tailgate</td>
<td>Saturday October 26, BTHO Miss St</td>
<td>TBD</td>
<td>TBD</td>
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</tbody>
</table>

*Dates for CIAC meeting and Tailgate may change depending on SEC Football Schedule. Dates on Spring CIAC Board Meeting and Scholarship & Awards Banquet depend on Holidays, Parent's Weekend and Academic Calendar.*
Thank you

QUESTIONS