College of Science and Engineering Technology (COSET)

2019 STATE OF THE COLLEGE ADDRESS
Overview

Dean’s Office Introductions
Departmental New Faculty and Staff Introductions
Presentation of College Awards
Recognition of Tenure and Promotion

Year in Review
- Enrollment and Teaching
- Research and Scholarship
- Service

Review of Goals for 2018-2019

Goals for 2019-2020
Office of the Dean

Dean-Dr. John Pascarella

Associate Dean of Curriculum and Assessment
  ◦ Dr. Marcus Gillespie

Associate Dean of Research and Graduate Programs
  ◦ Dr. Anne Gaillard

Assistant to the Dean-Angie Burgess

Administrative Coordinator-DeLynn Say

Administrative Associate-Shellie Armstrong

Administrative Assistant- Susan Floyd
New Faculty and Staff joining COSET since August 2018

15 new full time faculty
11 new staff members
Agricultural Sciences
Chair: Doug Ullrich

TT in Wildlife Management: Dr. Philip Urso (starts in January)

Visiting Assistant Professor: Dr. Darrin Paine

Staff: Farm Manager, Alvin Kmiec
Biological Sciences
Chair: Tamara Cook

Tenure-Track Faculty:
Environmental Science: Dr. Amber Ulseth (started in January 2019)

Staff:
Microscopy Technician: Dr. Rajesh Balaram (started in November 2018)
Curator, Natural History Collections: Dr. Will Godwin (transferred from ORSP Fall 2019)
Administrative Assistants: Ericka Dupclay and Crystal Radican
Chemistry

New Chair: Donovan Haines

Tenure-Track Faculty:

Dr. Meagan Hinze (Biochemistry/Organic Chemistry)
Computer Science
Chair: Peter Cooper

Tenure Track Faculty:
Dr. Rezbaul Islam

Visiting Assistant Professor: Dr. Pat Ko

Staff: Administrative Assistant Ashley Miksch and Megan Ellisor
Digital Forensics Lab Coordinator: Dustin Thornton
Systems Administrator: Ricky Malcom
Engineering Technology
Chair: Faruk Yildiz

Tenure Track Faculty:

Construction Management: Dr. Ebrahim Karan (Quanta Professor)

Design and Development: Dr. Ulan Dakeev

Safety Management: Dr. Ali Aljaroudi

Visiting Assistant Professor: Dr. Sorin Teodorescu
Geography and Geology
Chair: Brian Cooper

Tenure Track Faculty in Geology:
Hydrology: Dr. Renjie Zhou
Mathematics and Statistics
Chair: Melinda Holt

Visiting Assistant Professor:
Dr. Robert Williams

Visiting Lecturer:
Dr. David Dippel
Mrs. Julie Albert
Mrs. Ryanne McNeese

Administrative Assistant: Brandy Robinson
Physics
Chair: Joel Walker
Staff: Administrative Assistant Anne Wheary
CAREER SERVICES AT SHSU

- **Julio C. Quiralte, M.Ed, LPC**
- **Liaison to the College of Science and Engineering Technology**
- **Offices - ABIV 210 & LDB 425**

- Help with choosing a major
- Career Counseling/Assessments
- Resume critiques
- Mock interviewing
  - In person or online
- Employer information sessions
- Job Searching Strategies
- Help with LinkedIn profiles
- Career events and Job Fairs
Please join me in congratulating the winners:

- **Graduate Student Excellence in Research** – Ms. Duwani Katumullage (Statistics)
- **Student Excellence in Teaching** – Ms. Alexandria Brown (Biological Sciences)
- **Adjunct Faculty Excellence in Teaching** – Sarah Couch (Biological Sciences)
- **Faculty Excellence in Research** – Dr. Shyam Nair (Agricultural Sciences)
- **Faculty Excellence in Teaching** – Dr. Dusty Jones (Mathematics)
- **Faculty Excellence in Service** – Dr. Faruk Yildiz (Engineering Technology)
Ava Fujimoto-Strait: SHSU Staff Excellence Award
Tenure and Promotion to Associate Professor

- Mark Anderson (Agricultural Sciences)
- Min An (Computer Science)
- Samuel Adu-Prah (Geography)
- Taylor Martin (Mathematics and Statistics)
Promotion to Professor

- Kyle Stutts (Agricultural Sciences)
- Justin Williams (Biological Sciences)
- Luis Garcia-Puente (Mathematics and Statistics)
- Linda Zientek (Mathematics and Statistics)
- Joel Walker (Physics)
Emeritus Professor

Dr. Brian Chapman, former Dean of the College of Arts and Sciences and Researcher at TRIES
Regents Professor

Dr. Scott Chapman (Mathematics and Statistics)
Retirements

Ms. Kathyrn Robertson (15 yrs), Computer Science
Dr. Nedom Muns (41.5 yrs), Engineering Technology

Thank you for your years of service to SHSU!
We wish you the best in your retirement!
Funded Budget Initiatives FY20

New Initiative Funding: $382,605
- Cohort #2 of Doctoral Students in PhD program
- Quanta Professor Dr. Pecen
- Chemistry Assistant Professor
- O&M Budget for Natural History Museum
- Math Lecturer

Funded HEF: $390,000
- Start-up for new Faculty: $285,000
- $50,000 for Renovation of Art buildings for Engineering Technology
- $15,000 for software purchase for Engineering Technology
- $40,000 for servers for Computer Science
New College Lab Fee

Most COSET majors will begin paying a $50 fee in the fall and spring semesters but will be exempt from the current $8/course fee (non-majors will continue to pay the course fee)

Increased college revenue of around $225,000 ($310,780 program fee plus $68,040 course fee) per year to support laboratory instruction;

All departments will receive base funding from FY19; 5 largest will receive additional funds based on enrollment;

Beginning FY21, $60,000 withheld each year for a $120,000 competition to be held every other year, beginning in FY22-all departments can participate
  - FY20-will replace 3 vans ($120,000), support the Mechanical Engineering program start-up costs ($50,000), and provide additional funds to department ($40,000)
  - FY21-save $60,000 for competition, support for departments ($155,000)
  - FY22-save $60,000 for competition; $120,000 available for competition (details to be announced Fall 2021), support for departments ($155,000)
Enrollment and Credit Hours

UNIVERSITY ENROLLMENT EXPECTED TO BE UP 2% (UG UP 1.99%, GRAD UP 2.26%), 21,759
### Undergraduates in COSET

Data (8/13/2019)-compared to 2018 and 2017, 3530/3475/3586, +1% over last year, -1% from 2 years ago. Largest College by Majors!

<table>
<thead>
<tr>
<th>Major</th>
<th>2017</th>
<th>2018</th>
<th>2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>Animal Science</td>
<td>562</td>
<td>557</td>
<td>530</td>
</tr>
<tr>
<td>Biomedical Sciences</td>
<td>433</td>
<td>307</td>
<td>279</td>
</tr>
<tr>
<td>Biology</td>
<td>385</td>
<td>447</td>
<td>450</td>
</tr>
<tr>
<td>Forensic Chemistry</td>
<td>340</td>
<td>303</td>
<td>302</td>
</tr>
<tr>
<td>Construction Management</td>
<td>263</td>
<td>271</td>
<td>255</td>
</tr>
<tr>
<td>Computing Science</td>
<td>257</td>
<td>247</td>
<td>354</td>
</tr>
<tr>
<td>Agricultural Business</td>
<td>158</td>
<td>182</td>
<td>205</td>
</tr>
<tr>
<td>Mathematics</td>
<td>130</td>
<td>150</td>
<td>151</td>
</tr>
<tr>
<td>Agricultural Eng. Tech</td>
<td>119</td>
<td>108</td>
<td>93</td>
</tr>
<tr>
<td>Engineering Technology</td>
<td>119</td>
<td>105</td>
<td>103</td>
</tr>
<tr>
<td>Computer Software ET</td>
<td>113</td>
<td>89</td>
<td>89</td>
</tr>
<tr>
<td>Applied Arts and Sciences</td>
<td>104</td>
<td>118</td>
<td>130</td>
</tr>
<tr>
<td>Elec. And Computer Eng. Tech</td>
<td>91</td>
<td>92</td>
<td>78</td>
</tr>
<tr>
<td>Interdisciplinary Ag</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chemistry</td>
<td>77</td>
<td>102</td>
<td>113</td>
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<tr>
<td>Geology</td>
<td>57</td>
<td>55</td>
<td>76</td>
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<tr>
<td>Plant and Soil Science</td>
<td>48</td>
<td>43</td>
<td>46</td>
</tr>
<tr>
<td>Design/Development ET</td>
<td>48</td>
<td>41</td>
<td>37</td>
</tr>
<tr>
<td>Digital Forensics Eng. Tech</td>
<td>45</td>
<td>20</td>
<td>9</td>
</tr>
<tr>
<td>Environmental Science</td>
<td>41</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Physics</td>
<td>39</td>
<td>45</td>
<td>56</td>
</tr>
<tr>
<td>Agricultural Communications</td>
<td>37</td>
<td>37</td>
<td>40</td>
</tr>
<tr>
<td>Geography</td>
<td>35</td>
<td>43</td>
<td>44</td>
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<tr>
<td>Composite Science</td>
<td>17</td>
<td>3</td>
<td>2</td>
</tr>
</tbody>
</table>

Red: -5% change, blue: +>5% change; New degrees in Green; SHSU up 1.74% in undergraduate students.
Graduate Students in COSET

Data as of 8/13/2019, compared to 2018 and 2017
SHSU up 3.2% in graduate students
down 2.9% total
8.6% of all graduate students
3% of all COSET sch

### Doctoral

<table>
<thead>
<tr>
<th>Program</th>
<th>2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>Digital and Cyber Forensic Science (New)</td>
<td>4/6</td>
</tr>
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### Masters

<table>
<thead>
<tr>
<th>Program</th>
<th>2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agricultural</td>
<td>35/30/31</td>
</tr>
<tr>
<td>Sustainable Agriculture</td>
<td>22/32/22</td>
</tr>
<tr>
<td>Biology</td>
<td>30/29/39</td>
</tr>
<tr>
<td>Chemistry</td>
<td>9/9/6</td>
</tr>
<tr>
<td>Computing and Information Science</td>
<td>13/16/15</td>
</tr>
<tr>
<td>Digital Forensics</td>
<td>20/19/19</td>
</tr>
<tr>
<td>Information Assurance and Security</td>
<td>37/33/30</td>
</tr>
<tr>
<td>Geographic Information Systems</td>
<td>22/19/15</td>
</tr>
<tr>
<td>Mathematics (MA, MS)</td>
<td>20/20/20</td>
</tr>
<tr>
<td>Statistics</td>
<td>13/16/13</td>
</tr>
</tbody>
</table>

### Graduate Certificate

<table>
<thead>
<tr>
<th>Program</th>
<th>2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cyber Security</td>
<td>4/10/4</td>
</tr>
<tr>
<td>Data Assurance</td>
<td>1/2/1</td>
</tr>
<tr>
<td>Digital Investigation</td>
<td>4/5/4</td>
</tr>
<tr>
<td>Geographic Information Systems</td>
<td>1/2/3</td>
</tr>
</tbody>
</table>
Enhancing Graduate Programs

Through a combination of reduced number of TA lines and/or use of college funds, increased graduate stipends for Biological Sciences, Computer Sciences, and Mathematics and Statistics to $14,301 (up from $13,005)

New Scholarship went into effect Fall 2018-$2000 scholarship for all admitted MS TA students for first year, $1000 competitive scholarships for first year (non-TA students) and second year for all students (TA or not); was able to fund nearly all second year and non-TA first year requests; this year may be more competitive

Filled all but 3 TA slots; did not reallocate this year

Please have all graduate students apply for Scholarships from Office of Graduate Studies (3 competitions per year). Please write a personalized letter of support and have students include all relevant experience (not just work) in section on experience.
## SCH-Fall 2019 to Fall 2018

Data from 8/13/2019, class day -7

<table>
<thead>
<tr>
<th></th>
<th>2019</th>
<th>2018</th>
<th>Difference</th>
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<tbody>
<tr>
<td>Academic Affairs</td>
<td>3,313</td>
<td>2,970</td>
<td>343</td>
</tr>
<tr>
<td>Business Administration</td>
<td>21,260</td>
<td>19,882</td>
<td>1,378</td>
</tr>
<tr>
<td>Criminal Justice</td>
<td>37,106</td>
<td>37,181</td>
<td>-75</td>
</tr>
<tr>
<td>Education</td>
<td>28,007</td>
<td>24,723</td>
<td>3,284</td>
</tr>
<tr>
<td>Fine Arts and Mass Comm.</td>
<td>21,391</td>
<td>21,703</td>
<td>-312</td>
</tr>
<tr>
<td>Health Sciences</td>
<td>22,179</td>
<td>21,983</td>
<td>196</td>
</tr>
<tr>
<td>Humanities and Social Sciences</td>
<td>63,623</td>
<td>63,816</td>
<td>-193</td>
</tr>
<tr>
<td>Science &amp; Engineering Technology</td>
<td>62,906</td>
<td>63,578</td>
<td>-672</td>
</tr>
<tr>
<td>Grand Total</td>
<td>259,785</td>
<td>255,836</td>
<td>3,949</td>
</tr>
</tbody>
</table>

SHSU up 1.5% in credit hour production with COSET down -1%
24% of all credit hours come from COSET, down 1% from 2018
## COSET Graduates (18/19)

<table>
<thead>
<tr>
<th></th>
<th>Fall 2018/ Fall 2017</th>
<th>Spring 2019/ Spring 2018</th>
<th>Summer 2019/ Summer 2018</th>
<th>Total AY19/ AY18</th>
</tr>
</thead>
<tbody>
<tr>
<td>Undergraduate</td>
<td>219/194</td>
<td>289/300</td>
<td>116/130</td>
<td>624/624</td>
</tr>
<tr>
<td>Graduate</td>
<td>22/24</td>
<td>55/43</td>
<td>15/20</td>
<td>92/87</td>
</tr>
<tr>
<td>Total</td>
<td>242/218</td>
<td>344/343</td>
<td>131/150</td>
<td>716/711</td>
</tr>
</tbody>
</table>

Total graduates up 1% over previous year.  
Undergraduates flat  
Graduates up 6%
Teaching and Curriculum

Curriculum and Degree Programs

• PHD in Digital and Cyber Forensic Science started Fall 2018; Cohort 2 recruited
• ABET accreditation for Computing Science BS degree renewed
• BS in Mechanical Engineering Technology approved by SHSU; goes to TSUS in August and THECB in November; pending start date Fall 2020
  • 2 faculty searches for MET underway
Curriculum -continued

• Online Professional MS in GIS (option within existing program, multiple students already recruited)
• Online MA in Mathematics Education (continuing development of online courses per Dr. Bullock)
• Astronomy minor planned, added Physics to CORE
• Moved Instructional Design and Technology courses and faculty position (Dr. Donggil Song) to College of Education (we were providing faculty and courses from Computer Sciences): Better alignment with mission of both colleges
• Completed external review of undergraduate Agricultural Sciences program
• Faculty and Programs of high quality, facilities need work
Program Rankings/Awards

• Information Assurance and Security program ranked 5th in the nation by U.S. News and World Report for online programs; ranked 1st by BestCollegeReviews.org

• Forensic Chemistry program ranked #1 in Texas

• Chemistry program ranked top 15% Best for the Money and top 15% most popular by College Factual
Teaching Awards

Dr. Marcy Beverly (Agricultural Sciences): 2019 USDA Food and Agricultural Sciences Excellence in Teaching Award

Dr. Robert Lane (Agricultural Sciences): 2019 Man of the Year in Texas Agriculture by Texas Agricultural Agents Association

Adrian Villalta-Cerda: Award for Chemistry in Pictures by Chemical and Engineering News
Open Educational Resources Grant (Reimagining the First Year Experience)

Lawrence A. (Art) Wolfskill (Department of Agricultural Sciences, COSET), redesigning AGBU 3367, partnered with librarian Kat Landry-Mueller.
ACE (Academic Community Engagement)

Dr. Jeff Wozniak (Biological Sciences) is the Coordinator for COSET

- Did not see an increase in ACE courses
- He will visit each department this fall to discuss how to ACE your course
- We need to increase our count of ACE courses to meet the university goal of an engaged university
NSF STEM Grant 2017-2021

$2.1 million NSF grant to establish a STEM Center (PI: **Brian Loft**, CoPIs **Taylor Martin, David Thompson, Faruk Yildiz, Adrian Villalta-Cerdas**). The STEM Center will increase student preparedness for first-year math and chemistry courses, provide training & incentives for faculty to adopt active learning techniques in their classrooms, and promote undergraduate research for second-year and transfer students.

- Taylor Martin has taken over as lead PI from Brian Loft

Accomplishments 2018-2019
- 6 faculty participated in Fall 2028 Intro to STEM Research Course
- 10 faculty were 2018-2019 STEM Center Mini Grant Recipients
- 13 faculty served as 2019 STEM Camp Instructors and Guest Speakers
QEP-Active Learning-Brandy Doleshal

Active Learning Summer Institute-Summer 2019
  11 Faculty from 5 departments
Active Learning Teaching Fellows-Fall 2019 to Spring 2021
  3 faculty from Mathematics and Statistics
Faculty Learning Communities Facilitators-Fall 2019 and Spring 2020
  2 faculty from 2 departments
ACUE-Fall 2019 and Spring 2020
  5 faculty from 3 departments

Need faculty from Engineering Technology and Physics to participate and all eight departments will be engaged in the QEP.
Research and Scholarship
Office of Graduate Studies Awards

COSET ASPIRE Scholars:
Previous year 2019/2020:
  ◦ 2 Mathematics: Kiara Sanchez and Ligia Flores
  ◦ Biology: Javier Gomez

Incoming Cohort:
  ◦ Biology: Jovinna Villareal
  ◦ Mathematics: Jazmine Morales

COSET 3MT (3 minute thesis) Finalists:
Robyn Key, Agriculture
Payton Snokhous, Agriculture

Outstanding Assistantship Award – Masters – Upeksha Perera, Department of Mathematics and Statistics

Outstanding Graduate Student – Hayden Hays, Biological Sciences
Internal Faculty Research Grants

56 proposal requesting $581,812, 31 approved for $268,077
COSET received 9 awards totaling $95,000 (29% of all awards, 35% of all funding)

Jeremy Becheli (Biological Sciences)-”The role of mTOR during Rickettsiae infection”; $4,999;

Aaron Lynne (Biological Sciences) and Amanda Venta (Department of Psychology and Philosophy)- “Caregiver relationships and the gut microbiome”, $15,800;

Kathleen Rice (Counselor Education), Jeremy Bechelli, James Harper, and Aaron Lynne (Biological Sciences)-”Investigating scholastic performance, emotional and social functioning and biomarkers of college students of alcoholic parents”; $19,976

Adrian Villalta-Cerdas (Chemistry)-”Reformed chemistry laboratories: cooperative and project-based experimentation”, $5,000;

Donovan Haines (Chemistry)-”The skin disease Lamellar Ichthosis: enzyme modeling”, $4,946;

Mingkui Wei (Computer Science)-”On evaluation and analysis of the CDN Web cache poisoning attack”; $14,675;

Qingzhong (Frank) Liu (Computer Science)- “Exposing information hiding positions in advanced JPEG image”, $14,767;

Mahdi Safa (Engineering Technology)-”Increasing power distribution network resilience: pre- and post-disaster situation”, $4,461;

Junkun Ma and Iftekhar Ibne Basith (Engineering Technology)-”Integrating a FANUC industrial robot with an EMCO machining center”, $10,376;
Professional Development Leaves for FY20

Funded by Academic Affairs

Dr. Qingzhong (Frank) Liu (Computer Science)

Dr. Velvet Nelson (Geography)
COSET Dean’s Office Funding for Undergraduate Research ($15,000)

Funded undergraduate students through COSET Undergraduate Research Program ($15,000) in spring and summer 2019 competition

- Two application deadlines per year. Contact Anne Gaillard for more information.
Undergraduate Chemistry student Kendra Ireland (along with Ibeth Caceres from Biology) presented research on photo-caged substrates of P450 cytochromes at the Second World Congress on Undergraduate Research at the University of Oldenburg, Germany.

Adriana Bonin (undergraduate in Agricultural Sciences) received 2nd prize in the 2019 Agricultural Consortium of Texas Undergraduate Poster Competition.

Biology had 17 faculty involve 63 undergraduate students in research, 24 students gave presentations, 8 students were lead authors, 24 students were co-authors.

Biology major Jeff Belanger won the Assam Scholarship for Honors Research award at the 12th annual Undergraduate Research Symposium.

Biology major Stephanie Baker won the Best Overall Poster Presentation Award at the 12th annual Undergraduate Research Symposium.
# External Funding (7/1/18-7/1/19)

<table>
<thead>
<tr>
<th>Department</th>
<th># New Apps</th>
<th>$ New Apps</th>
<th># Grants Awarded</th>
<th>$ New 3Awards</th>
<th># Active Awards</th>
<th>$ spent active grants</th>
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<tbody>
<tr>
<td>Agricultural Sciences</td>
<td>6</td>
<td>$149,437</td>
<td>4</td>
<td>$1,126,055</td>
<td>6</td>
<td>$189,685</td>
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<tr>
<td>Biological Sciences</td>
<td>16</td>
<td>$1,331,429</td>
<td>5</td>
<td>$119,231</td>
<td>14</td>
<td>$177,287</td>
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<tr>
<td>Chemistry</td>
<td>5</td>
<td>$1,027,638</td>
<td>3</td>
<td>$493,849</td>
<td>9</td>
<td>$304,317</td>
</tr>
<tr>
<td>Computer Science</td>
<td>13</td>
<td>$3,684,831</td>
<td>1</td>
<td>$22,032</td>
<td>1</td>
<td>$4,286</td>
</tr>
<tr>
<td>Engineering Technology</td>
<td>4</td>
<td>$402,995</td>
<td>1</td>
<td>$85,000</td>
<td>2</td>
<td>$20,575</td>
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<tr>
<td>Geography/Geology</td>
<td>1</td>
<td>$469,150</td>
<td>0</td>
<td>$0</td>
<td>0</td>
<td>$0</td>
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<tr>
<td>Math and Statistics</td>
<td>5</td>
<td>$1,925,114</td>
<td>1</td>
<td>$95,288</td>
<td>7</td>
<td>$361,781</td>
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<tr>
<td>Physics</td>
<td>1</td>
<td>$750,197</td>
<td>1</td>
<td>$240,000</td>
<td>2</td>
<td>$37,781</td>
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<tr>
<td><strong>Total</strong></td>
<td>51</td>
<td>$9,740,701</td>
<td>16</td>
<td>$2,181,455</td>
<td>41</td>
<td>$1,095,713</td>
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<tr>
<td><strong>Last Year</strong></td>
<td>44</td>
<td>$8,717,564</td>
<td>15</td>
<td>$2,468,386</td>
<td>39</td>
<td>$809,565</td>
</tr>
</tbody>
</table>

33 PI applied, 13 awarded, 21 active
Selected Grants

Shyam Nair and Bobby Lane (Agricultural Sciences) - USDA NIFA, Integrated Approach to Enhance Sustainable Agriculture Education through research-based pedagogical practices; $676,635

Jerry Cook (Biological Sciences) - Texas Army National Guard, Invertebrate Planning Level Surveys of Camp Maxey, Swift, and Walters, $85,482

Dustin Jones (Mathematics) - Middle Math Matters, Greater Texas Foundation ($95,288)

Ilona Petrikovics (Chemistry) - Department of Army, Cyanide antidote research ($240,999);

Christopher Hobbs (Chemistry): NSF Career Award (1st Career Award at SHSU); “CAREER: Developing new polymer supported catalysts with high school, undergraduate, and graduate students”, $244,101

Joel Walker and James Dent (Physics) - joint NSF grant; RUI: Neutrino, Collider, and Dark Matter Phenomonology; $240,000
Selected Scholarship/Awards

Bobby Lane (Agricultural Sciences) won first place in plant identification competition in the 2018 American Forage and Grassland Conference, Louisville, KY.

Ryan Saucier (Agricultural Sciences) won the first place in the research paper competition in the 2018 National Agricultural Mechanics Professional Development Blue Ribbon Research Conference

Juan Daza in Biology published 8 papers last year

Chemistry had 11 publications and 1 patent


Dusty Jones (Mathematics) published a textbook: Fundamentals of Calculus for Teachers
SERVICE
<table>
<thead>
<tr>
<th>College</th>
<th>This Year</th>
<th>Last Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agricultural Sciences</td>
<td>$556,255</td>
<td>$443,125</td>
</tr>
<tr>
<td>Biological Sciences</td>
<td>$259,441</td>
<td>($53,307 excluding microscope donation)</td>
</tr>
<tr>
<td>Chemistry</td>
<td>$7,177</td>
<td>$9,938</td>
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<tr>
<td>Computer Sciences</td>
<td>$4,083</td>
<td>$4,280</td>
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<tr>
<td>Engineering Technology</td>
<td>$5,481,254</td>
<td>$2,208,520 (Pirkle and Quanta gifts were majority)</td>
</tr>
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<td>Geography and Geology</td>
<td>$23,495</td>
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<tr>
<td>Mathematics and Statistics</td>
<td>$12,618</td>
<td>$8,108</td>
</tr>
<tr>
<td>Physics</td>
<td>$6,359</td>
<td>$29,970</td>
</tr>
<tr>
<td>College</td>
<td>$30,631</td>
<td>$52,536</td>
</tr>
</tbody>
</table>
Fundraising 7/1/18-6/30/19

Departmental Support-$511,016
Departmental Endowment-$475,000
Annual Scholarships-$137,765
Endowed Scholarships-$17,550
Endowments for Scholarships-$5,243,763
Total Balances from Fundraising/Endowments

**Departmental Support Balances of $1,745,231**

$823,000 in unrestricted gifts to college and departments (Friends)

$922,231 in departmental funds generated by $15,659,814 in endowments

**Scholarship Balances of $873,832**

$108,000 in annual scholarship gifts

$765,832 in endowed scholarships from $14,494,017 in scholarship endowments

Total balance of endowments and funds = $32,733,117!
Dean’s Office Service

Supported Student Athletics events, BioBlitz, Alumni Awards Dinner, Piney Woods Game

Will be supporting College Tailgate activities at home Football Games this year—contact Susan Floyd for more information and to have your student organization host the event

Games are 9/7, 9/21, 10/12, 10/19, 11/16 and 11/23
Internationalization Activities

Dean visited Costa Rica with Faruk Yildiz, South Korea with Min Suh and Hungary with Ilona Petrikovics to pursue international agreements.

Computer Science hosted faculty member and students from Zhejiang Police College (Hangzhou, China) for three week visit summer 2019.

Study abroad course proposals have been submitted for Costa Rica and South Korea for 2020; Chemistry to explore options in Hungary.
COSET Faculty in Administration

Dr. Chad Hargrave (Biology), Associate VP of Office of Research and Sponsored Programs

Dr. Brian Loft (Mathematics), Associate Vice President for Faculty and Student Success, Academic Affairs

Dr. Patrick Lewis (Biology), Associate Dean, Honors College

Dr. Madhusudan Choudhary (Biology), Director of SHSU Center for EURECA

Dr. Todd Prim (Biology), Director of Professional and Academic Center for Excellence (PACE)

Dr. Brandy Doleshal (Mathematics), Assistant Director for Development (PACE/QEP)

Dr. Li-Jen Lester (Computer Science), Assistant Director for Assessment (PACE/QEP)
Editorships

Kyle Stutts and Lawrence Wolfksill (Agricultural Sciences), Editorial Board NACTA

Jerry Cook (Biological Sciences), Associate Editor, The SW Naturalist and Proc. Wash Ent. Soc.

Madhu Choudhary (Biological Sciences), Editorial Board, J. of Microbial Life
Juan Daza (Biological Sciences), Section Editor, S. American J. of Herpetology

Jim Harper (Biological Sciences), Editor, Frontiers in Endocrinology, WebMEdCentral

Aaron Lynne, Madhu Choudhary and Todd Primm (Biological Sciences), Editor Board, J. Microbiology and Biology Education.

Chris Randle (Biological Sciences), Editor, Castanea (Southern Appalachian Botanical Society)

Justin Williams (Biological Sciences), Associate Editor, Phytotaxa
Editorships-Continued

David Thompson (Chemistry), Associate Editor, Analytical Sciences Digital and reviewer for RSC Advances

Recayi Pecen (Engineering Technology), Editor, American Journal of Undergraduate Research Engineering/Technology

Min Jae Suh (Engineering Technology), Guest Editor, Int. J. Sustainable Building Technology and Urban Development

Don Albert and Samuel Adu-Prah (Geography), Editors-in-Chief, International Journal of Applied Geospatial Research

Velvet Nelson (Geography); J. of Cultural Geography editorial board

John Strait (Geography): Associate Editor of the European Science Journal

Scott Chapman (Mathematics and Statistics), Editor-in-Chief, Communications in Algebra (2nd largest circulation in world)
Other Service

Shyam Nair (Agricultural Science): Chair of NACTA Awards Committee

Tim Pannkuk (Agricultural Science): Chair, Ornamental Landscape and Turf Working Group, American Society of Horticultural Sciences

Bobby Lane (Agricultural Sciences): Walker County Livestock and Pasture Committee, Treasurer; Member Texas AgriLife Extension Service Advisory Board

Dwayne Pavelock and Doug Ullrich (Agricultural Sciences): Co-Chairs, Texas State FFA LDE Committee

Kyle Stutts (Agricultural Sciences): Chair of Young Animal Scientist Education Award Committee

Jerry Cook (Biological Sciences); US EPA Science Advisory Committee; Curator, SHSU Natural History Collections

Madhu Choudhary (Biological Sciences): President-Elect TX Branch of Am. Soc. of Microbiology
Service Continued

Samuel Adu-Prah (Geography); Visiting Fellow for 2019 Council for the Development of Social Science Research in Africa; visited Kwame Nkrumah University of Science and Technology (Ghana)

Falgungi Mukherjee (Geography): Regional Council of the SW division of the Gamma Theta Upsilon International Geographical Honor Society

Velvet Nelson (Geography): International Geographical Union Commission on Tourism, Leisure and Global Change board member; American Association of Geographers International Scholarship and Research Committee member

Faruk Yildiz (Engineering Technology), President-Electronics/Electricity and Computer Technology Division, ATMAE

Ram Kafle (Statistics) organized the 2nd Inter. Conf. on Applications of Mathematics to Nonlinear Sciences in Nepal.

Rebecca Garcia (Mathematics)-Director of the Mathematical Sciences Research Institute

Melinda Holt (Statistics) and Aaron Lynne (Biology) selected for 2019-2010 President’s High Potential Employee Leadership Academy
Equipment and Infrastructure
Improvements/equipment

Added new end and coffee tables, art, soft bench seating and bistro bar-height tables to LDB atrium and Video display monitor in LDB atrium to welcome visitors

LDB envelope sealing and repairs to address water penetration through roofs and external walls; 1st floor complete demolition to address water penetration through walls, remove mold sources, and prepare for reuse

Art Buildings A, C, and WASH transferred to COSET for use in expanded ETEC laboratories; assessing needs this fall with repairs/updates in spring 2020

Received a donated Hitachi Transmission Electron Microscope (value of $260,000) from NIH lab (Biological Sciences)

Repurposed old Biology 3rd floor space for Math/Stats and Geography/Geology use-Used for adjunct offices, GIS grad student space, and tutorial room

Developed a Master Plan for Gibbs Ranch improvements-pending funding for construction of animal science/equine, greenhouses, and meat science labs

$120,000 Computing Cluster with IT (Physics)
SHSU Natural History Museum

Museum moves from ORSP to COSET Fall 2019; Dr. Will Godwin joins Biology department

Housed in the old Huntsville High school

Houses all Natural History Collections (Entomology, Nematology, Invertebrates, Plants, Birds, Mammals, Fossils)

Special Horace Burke Library collection focused on Natural History, Expeditions, and Texas Biology

Art collections and galleries will also be housed in the building in the near future

COSET provided shelving and cabinets and other items from LDB move-out worth approximately $51,000 to the museum
Review of Goals for 2018-2019
Goals from FY19

Launched the PhD program in Digital and Cyber Forensic Science and recruited 2\textsuperscript{nd} cohort of students-Yes, full enrollment in both funded cohorts

Completed curriculum planning for:
  ◦ online Professional GIS track (3 students already recruited)
  ◦ BS in Mechanical Engineering Technology, at TSUS in August and CB in Fall for 2020 start date

Renewed ABET accreditation for BS in Computing Science-Yes

Continued preparing for ABET review in Engineering Technology-Yes

Complete all training for online faculty through SHSU online; as of 6/4/19, 52 signed up with 45 completed, \sim 47\% complete; need to complete this training this year.

Increased ACE course participation-did not increase; Jeff Wozniak will visit departments this fall to discuss ways to increase ACE participation

Encourage Faculty Participation in NSF Stem Center and QEP-completed

Repurposed old Geography and Geology 3\textsuperscript{rd} floor space for Math/Stats and Geography/Geology use-Use for adjunct offices, GIS grad student space, and tutorial room-completed

Repurposed Biology labs in LDB for Chemistry and Geology Use for Teaching/Research-completed
Goals for FY20

Recruit the 3rd cohort in PhD program in Digital and Cyber Forensic Science

Complete curriculum planning for online MA in Mathematics Education;

Hire 2 professor to support the BS in Mechanical Engineering Technology

Complete repairs/additions for ETEC to use ART A, C, and WASH for laboratories and research space.

Continue preparing for ABET review in Engineering Technology

External review of ETEC programs (Spring 2020)

Examine marketing efforts and curriculum revision in declining programs in Physics and Geography

Complete all training for online faculty through SHSU online