

# College of Science and Engineering Technology (COSET)

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2018 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 2017-2018**

**Goals for 2018-2019**

# 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

SHSU ONLINE COURSE DESIGN ASSISTANCE

Amber Gates replaces Katie McGuire for  
Instructional Design Support

# New Faculty and Staff

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# Agricultural Sciences

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Chair-Dr. Doug Ullrich (started June 1)

Tenure-Track Faculty:

Agricultural Business: Dr. Roozbeh Irani-Kermani

Agricultural Engineering Technology: Dr. Richard Ford

Lecturers:

Plant and Soil Science: Mr. Ian Scadden

# Biological Sciences

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Tenure-Track Faculty:

Infectious Disease and Microbiology: Dr. Jeremy Becheli

Roland Black Endowed Professor of Biological Sciences, Developmental Biology: Dr. Mardelle Atkins

Wildlife and Fisheries Science: Dr. Carmen Montana-Schalk

Environmental Science: Dr. Amber Ulseth (starts in January)

Staff:

Microscopy Technician: Mr. Rajesh Balaram (starts in November)

# Chemistry

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Lab Coordinator: Mr. Steve Hegwood



# Computer Science

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Tenure Track Faculty:

Director of the Digital Forensics Center: Dr. Brad Glisson (Digital Forensics and Cybersecurity)

Staff:

Digital Forensics Lab Coordinator: Brandon Sande

# Engineering Technology

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Tenure Track Faculty:

Construction Management: Dr. Mahdi Safa

Industrial Engineering: Dr. Awwad Dababneh

Staff:

Lab Assistant: Lilith England

# Geography and Geology

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Tenure Track Faculty in Geology:

Paleontology: Dr. David Moss

# Mathematics and Statistics

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Tenure Track Faculty in Statistics:

Dr. Di Gao (Bayesian Lasso Analysis)

Dr. Doo Kim (Statistical Modeling of Time Dependent Data)

# Physics

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Tenure-Track Faculty:

Dr. Will Shepard (Collider Physics and Phenomenology)

Full Time Pool:

Christian Seberino

Please join me in congratulating the winners:

**Graduate Student Excellence in Research – Mrs Indika Kasun Warnakula  
(Chemistry)**

**Student Excellence in Teaching – Mr. Sasanka Adikari (Statistics)**

**Adjunct Faculty Excellence in Teaching – Alisha Bullion (Agricultural Sciences)**

**Faculty Excellence in Research – Dr. Aaron Lynne (Biological Sciences)**

**Faculty Excellence in Teaching – Dr. Faruk Yildiz (Engineering Technology)**

**Faculty Excellence in Service – Dr. Stanley Kelley (Agricultural Sciences)**

College of Science & Engineering  
Technology Excellence Awards

# Tenure and Promotion to Associate Professor

- Phillip (Ryan) Saucier (Agricultural Sciences)
- James Harper (Biological Sciences)
- Jeffrey Wozniak (Biological Sciences)
- Dustin Gross (Chemistry)
- Bing (Jenny) Zhou (Computer Science)
- Brandy Doleshal (Mathematics and Statistics)

Faculty Tenure and Promotion



## Promotion to Professor

- Chad Hargrave (Biological Sciences)
- Christopher Randle (Biological Sciences)
- Velvet Nelson (Geography and Geology)
- Dustin Jones (Mathematics and Statistics)
- Ananda Manage (Mathematics and Statistics)
- Hui Fang (Physics)

Faculty Tenure and Promotion



# Distinguished Professor

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Dr. Scott Chapman, Department of Mathematics and Statistics, will be our first COSET Distinguished Professor.

Congratulations to Dr. Chapman for this outstanding achievement.

# Retirements

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Ms. Sharon Frey, Agricultural Sciences

Dr. Joe Muller (20 years), Agricultural Sciences

Thank you for your years of service to SHSU!

We wish you the best in your retirement!

# Funded Budget Initiatives FY19

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New TT faculty in Digital Forensics to support PhD program

New Administrative Assistant in Computer Science to support PhD program

New Lecturer in Mathematics to support co-requisite courses

Enhanced OM budget for Engineering Technology to reflect growth in Department

# Enrollment and Credit Hours

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UNIVERSITY ENROLLMENT EXPECTED TO BE  
UP AROUND 0.1%

# Undergraduates in COSET

Data (8/15/2018)-compared to 2017 and 2016 3475/3586/3425, down 3.1 % over last year, up 1.5% from 2 years ago

<b>Animal Science</b>	<b>557/530/453</b>	<b>Elec. And Computer Eng. Tech</b>	<b>92/78/53</b>
<b>Biology</b>	<b>447/450/441</b>	<b>Computer Software ET</b>	<b>89/89/51</b>
<b>Biomedical Sciences</b>	<b>307/279/203</b>	<b>Interdisciplinary Ag</b>	<b>85/81/86</b>
<b>Forensic Chemistry</b>	<b>303/302/306</b>	<b>Geology</b>	<b>55/76/97</b>
<b>Construction Management</b>	<b>271/255/202</b>	<b>Physics</b>	<b>45/56/78</b>
<b>Computing Science</b>	<b>247/354/279</b>	<b>Plant and Soil Science</b>	<b>43/46/40</b>
<b>Agricultural Business</b>	<b>182/205/224</b>	<b>Geography</b>	<b>43/44/54</b>
<b>Mathematics</b>	<b>150/151/154</b>	<b>Design/Development ET</b>	<b>41/37/32</b>
<b>Applied Arts and Sciences</b>	<b>118/130/141</b>	<b>Agricultural Communications</b>	<b>37/40/25</b>
<b>Agricultural Eng. Tech</b>	<b>108/93/86</b>	<b>Digital Forensics Eng. Tech</b>	<b>20/9/0</b>
<b>Engineering Technology</b>	<b>105/103/98</b>	<b>Composite Science</b>	<b>3/2/0</b>
<b>Chemistry</b>	<b>102/113/103</b>	<b>Environmental Science</b>	<b>1/0/0</b>

# Graduate Students in COSET

Data as of 8/15/2018, compared to 2017 and 2016

## Doctoral

**Digital and Cyber Forensic Science (New) 6**

<b><u>Masters</u></b>	<b><u>223/210/233</u></b>
<b>Agriculture</b>	<b>30/31/39</b>
<b>Sustainable Agriculture</b>	<b>32/22/24</b>
<b>Biology</b>	<b>29/39/36</b>
<b>Chemistry</b>	<b>9/6/11</b>
<b>Computing and Information Science</b>	<b>16/15/21</b>
<b>Digital Forensics</b>	<b>19/19/23</b>
<b>Information Assurance and Security</b>	<b>33/30/30</b>
<b>Geographic Information Systems</b>	<b>19/15/17</b>
<b>Mathematics (MA, MS)</b>	<b>20/20/20</b>
<b>Statistics</b>	<b>16/13/17</b>
<b><u>Graduate Certificate</u></b>	<b><u>19/12/13</u></b>
<b>Cyber Security</b>	<b>10/4/5</b>
<b>Data Assurance</b>	<b>2/1/1</b>
<b>Digital Investigation</b>	<b>5/4/5</b>
<b>Geographic Information Systems</b>	<b>2/3/2</b>

# Enhancing Graduate Programs

PhD Stipends and Scholarships for CS program will be \$30,000. Funding is committed for 4 cohorts of 5 students each.

Chemistry reduced number of TA lines by 6 but increased stipend amount to \$18,000 (all offers were accepted); other departments may want to consider this approach.

Increased number of TA lines by 4 using Distance Learning Funds, with GIS receiving 2 lines, Agriculture 1, and Mathematics and Statistics 1 additional line

Beginning this summer, all departments had to fill by July 15 all dedicated lines or lines will be released (up to 2 for BIO, CHEM, MATH or 1 for AG, CS, GIS) for 2 years for use by other departments in college with waiting students. Chemistry is currently loaning 3 fellowships to other departments. All other slots were filled.

New Scholarship model goes 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)

Scholarship funds increased using increase in Graduate Advising Fee, funds from Graduate Studies Office, and use of DLF funds

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 2018 to Fall 2017

Data from 8/14/2018 , class day -7

<b>Academic Affairs</b>	2,901	3,175	-274	-8.6%
<b>Business Administration</b>	36,593	38,114	-1,521	-4.0%
<b>Criminal Justice</b>	24,271	23,788	483	2.0%
<b>Education</b>	21,382	20,871	511	2.5%
<b>Fine Arts and Mass Comm.</b>	19,525	19,810	-285	-1.4%
<b>Health Sciences</b>	21,795	20,036	1,759	8.8%
<b>Humanities and Social Sciences</b>	62,833	61,897	936	1.5%
<b>Science &amp; Engineering Technology</b>	<b>62,617</b>	<b>60,737</b>	<b>1,880</b>	<b>3.1%</b>
<b>Grand Total</b>	<b>251,917</b>	<b>248,428</b>	<b>3,489</b>	<b>1.4%</b>

SHSU has a 1.4% increase in credit hour production with COSET doubling that at 3.1% increase

25% of all credit hours come from COSET



# COSET Graduates

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	Fall 2017/ Fall 2016	Spring 2018/ Spring 2017	Summer 2018/ Summer 2017	Total AY18/ AY17
Undergraduate	194/187	300/291	130/112	624/590
Graduate	24/20	43/50	20/21	87/91
Total	218/207	343/341	150/133	711/681

Total graduates up 4.4% over previous year.

Undergraduate up 5.8%

Graduates down 4.4%%

# Teaching and Curriculum

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## Curriculum and Degree Programs

- **PHD in Digital and Cyber Forensic Science starts Fall 2018; 6 students in program**

### **In development:**

- **Online MA in Mathematics Education**
- **Online Professional MS in GIS**
- **BS in Mechanical Engineering Technology**
- **Information Assurance and Security program ranked 5<sup>th</sup> in the nation by U.S. News and World Report for online programs; ranked 1<sup>st</sup> by BestCollegeReviews.org**

# Teaching Excellence Awards

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Dr. Robert Lane received the 2017 Regional United States Department of Agriculture Food and Agriculture Sciences Excellence in Teaching Award, joining Dr. Foy Mills and Dr. Stanley Kelly as former recipients.

We are the only non-land grant or research university with three teaching awards



# Texas State University Regents' Teacher Award

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Dr. Bill Jasper (Mathematics and Statistics) has been selected as the TSUS Regents' Teachers Award winner, the first winner from SHSU

# PACE Teaching Innovation Grants

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Junkun Ma and Keith Coogler

# STEM Center MiniGrants for Active Learning Incorporation in Courses

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Dr. Mardelle Atkins (Biological Sciences)-BIOL 3480

Dr. Jeremy Becheli (Biological Sciences)-BIOL 3470

Dr. James Harper (Biological Sciences)-BIOL 3460

Dr. Aaron Lynne (Biological Sciences)-UNIV 1301

Dr. Donovan Haines (Chemistry)-CHEM 3438

Dr. Khaled Rabieth (Computer Science)-COSC 2347

Dr. Karpoor Shashidar (Computer Science)-DFSC 2316

Ms. Sarah Fritsch (Mathematics and Statistics)-MATH 1420

Dr. Brandy Doleshal (Mathematics and Statistics)-MATH 1332H

Dr. James Dent (Physics)-PHYS 1401

# NSF STEM Grant 2017-2021

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\$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 will speak about ways to get involved with the STEM Center.

# Research and Scholarship

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# Office of Graduate Studies Awards

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Outstanding Graduate Student: Ryan Gueli, M.S. in Mathematics

Three-Minute Thesis Competition Winner: Emily Meridian, M.S. in Agriculture, on “The Prevalence of Internal Parasites in the Feral Hog Population of East Texas”. Two other Agriculture students placed in top 10.

Three Students named ASPIRES Scholars

- Ligia Flores and Kiara Sanches (MS Mathematics) and Javier Gomez (MS Biology)

# Other Items

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Tamara Cook (Biological Sciences): Anniversary Award (Highest Honor for Outstanding Contributions in Parasitology); Helminthological Society of Washington

Dongil Song (Computer Science): Young Researcher Award, Association for Education Communications and Technology

Quinzhong (Frank) Liu (Computer Science): Two Patents awarded

Emma Bullock (Mathematics and Statistics): Received the MMIRA/MAXQDA 2018 Award for Outstanding Dissertation Research

# Faculty Research Grant (\$5,000 each): 6 of 10 awards were to COSET faculty

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**Sibyl Bucheli** (Biological Sciences)-"Indoor versus Outdoor Decomposition on the Microbiome of Human Cadavers"

**Christopher Randle** (Biological Sciences)-A new model of parasite-host communication in leafy mistletoe

**Christopher Hobbs** (Chemistry)-"Preparation and use of new, ROMP-based Polymer-Supported Catalysts"

**Tarek Trad** (Chemistry)-"Efficiency enhancement of dye-sensitized solar cells using doped ZnO nanocolumns"

**Reg Pecan** (Engineering Technology)-"A novel smart grid test bench implementation by distributed generation"

**Hui Fang** (Physics)-"Efficiency enhancement of dye-sensitized solar cells using doped ZnO nanocolumns"

Faculty Research Grant Due Dates will be announced later in the fall

# Enhancement Research Grants (\$15,000): 5 of the 10 awards were to COSET Faculty

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**Madhusadan Choudhary** (Biological Sciences)-"Effects of gold mining on mercury methylation and freshwater microbiomes

**Quinzhong (Frank) Liu** (Computer Science)-"Steganographic forgery detection in JPEG images

**Khaled Rabieh** (Computer Science)-"Investigating fair and privacy aware EV's charging station reservation schemes

**Ross Guida** (Geography and Geology)-"Assessing dynamic growth and flood risk in metro Houston

**Timothy Trujillo** (Mathematics and Statistics)-"Infinite Ethics: a non-archimedian approach

Enhancement Research Grant due dates will be announced later in the fall

# Professional Development Leaves for FY19

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Funded by the Provost

**Dr. Brandy Doleshal** (Mathematics and Statistics)

# COSET Dean's Office Funding for Undergraduate Research (\$77,000)

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Funded undergraduate students through COSET Undergraduate Research Program (\$15,000) in summer 2018 competition

- See new guidelines for FY19 competitions; grants will fund spring and summer student stipends in 2019. Two application deadlines per year.

Funded Eight Additional Eureka FAST grants (\$62,000)

- Used salary savings to fund eight additional summer EURECA proposals for Faculty and Student Teams for undergraduate research

# External Funding (7/1/17-7/1/18)

Department	# New Apps	\$ New Apps	# Grants Awarded	\$ New Awards	# Active Awards	\$ spent active grants
Agricultural Sciences	6	\$1,573,065	1	\$15,124	3	\$57,795
Biological Sciences	8	\$977,507	5	\$148,878	15	\$124,967
Chemistry	6	\$1,463,334	3	\$268,818	7	\$249,941
Computer Science	14	\$3,355,716	0		2	\$68,617
Engineering Technology	3	\$764,179	0		0	
Geography/Geology	1	\$58,845	0		2	\$4,975
Math and Statistics	5	\$264,261	3	\$2,035,556	9	\$285,240
Physics	1	\$260,657	0		1	\$17,850
Total	44	\$8,717,564	12	\$2,468,386	39	\$809,565
Last Year	38	\$13,741,721	13	\$1,901,793	37	\$829,087

# Selected Grants

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Shyam Nair and Bobby Lane (Agricultural Sciences), new USDA NIFA grant on Sustainable Agriculture Education

Ilona Petrikovics (Chemistry)-Department of Army, Cyanide antidote research continuous funding for multiple years

Brian Loft and others (Mathematics)-AASCU, Frontier Set and NSF STEM Center

Dustin Jones-Math Education Consortium grant

Joel Walker and James Dent (Physics)-new NSF grant (not included in the table due to date of award)



# New Faculty Liaisons with ORSP from COSET

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Dr. Darren Williams-Chemistry

Dr. Karpoor Shashidar-Computer Science

Dr. Recayi Pecen-Engineering Technology

Dr. James Harper-Biological Sciences

Dr. Chad Hargrave will speak about new initiatives in ORSP

# Scholarship

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Biological Sciences Faculty (and student co-authors) published 32 papers

John Strait and Ava Fujimoto-Strait, “The Mixed Plate, a field experience on the cultural and environmental diversity of the Big Island of Hawaii” NCGE (National Council of Geographic Education) “Best content” article in Geography Teacher

Jim Tiller (Geography) published two books on Texas-Louisiana Geographical History

Timothy Trujillo (Mathematics and Statistics): Invited speaker at Ramsey Theory in Logic, Combinatorics, and Complexity conference in Italy

# SERVICE

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# Gifts to COSET (7/1/17-6/30/18) compared to last year \$2,854,693/\$5,982,254

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Agricultural Sciences- \$443,125/\$426,625 (New Lincoln Lumbers Scholarship of \$15,000)

Biological Sciences- \$49,222/\$44,438

Chemistry- \$9,938/\$14,803

Computer Sciences-\$4,280/\$4,298

Engineering Technology-\$2,208,520/\$5,330,687 (Pirkle and Quanta gifts)

Geography and Geology-\$48,995/\$60,083

Mathematics and Statistics-\$8,108/\$7,392

Physics-\$29,970/\$8,447

College-\$52,536/\$85,481

# Dean's Office Service

Agricultural Sciences, Biology, and Engineering Technology Faculty attended "Houston Hispanic Forum"

Organized Annual College Career Fair

Attended College Recruiting Fair in Jordan and Study Abroad Fair in Spain

Supported Let's Talk Event for Honors College, Undergraduate Research Symposium, Student Athletics events, BioBlitz, Alumni Dinner

Supported College Tailgate activities at Football Games including Piney Woods Game



# COSET Faculty in Administration

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**Dr. Chad Hargrave (Biology), Assistant VP of Research**

**Dr. Madhusudan Choudhary (Biology), Director of EURECA**

**Dr. Patrick Lewis (Biology), Assistant Director of Honors Program**

**Dr. Bill Lutterschmidt (Biology), Director of University Research Centers**

**Dr. Todd Prim (Biology), Director of PACE**

**Dr. Brian Loft (Mathematics), Faculty Fellow in Office of Academic Affairs**

# ACE Academic Community Engagement

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Thank you to Diane Neudorf (Biological Sciences) for her service as the COSET ACE representative

Our new representative is Dr. Jeff Wozniak (Biological Sciences)

# Campus Meetings

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Dr. Don Albert and the SHSU Geography department hosted the SWAAG (Southwest Division of the American Association of Geographers Oct. 25-Oct. 28, 2017

Also hosted Texas Map Society





# Service

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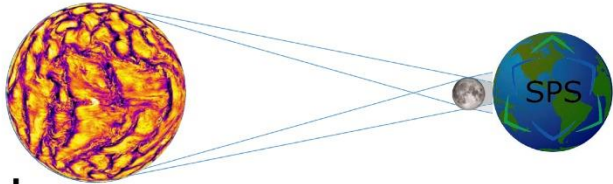
Dr. Darren Williams (Chemistry) held a Product Quality Cleaning Workshop May 16-17, 2018, including 36 participants, 8 sponsors, 7 suppliers from SHSU and 28 companies.



# Service

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## ***Solar Eclipse***



**Society of Physics Students**  
invites you to join us for the  
**Great American Eclipse viewing!**

**Date:** Aug 21 - 12:00pm to 1:30pm

**Location:** SHSU Observatory - 26 Knox Cir

\*We provide the glasses

\*T-shirts will be for sale! Let us know your size!



For more information contact:  
Andre Guimaraes  
sps@shsu.edu  
936.333.2711



SHSU Society of Physics Students held a  
Solar Eclipse Viewing Aug. 21, 2017

# Mathematics Conferences

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Texas Women in Mathematics Symposium Conference: Organized and hosted by Brandi Doleshal (Mathematics and Statistics)

International Workshop on Difference Sets (Hangzhou, China): Organized by Ken Smith

CominaTexas, organized by Ken Smith and Luis Garcia-Puente

# Editorships

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

**Kyle Stutts (Agricultural Sciences), Editorial Board NACTA and Reviewer for Animal Scientist**

**Dongil Song (Computer Science), Managing Editor, International Journal of Multiple Research Approaches**

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

**Don Albert and Samuel Adu-Prah, Geography, Editors, International Journal of Applied Geospatial Research; journal now featured in Emerging Sources Citation Index of ESCI**

# Other Service

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**Cihan Varol (Computer Science), Member, IEEE Education Society Standards Committee**

**Faruk Yildiz (Engineering Technology); Division President, Electricity, Electronics, and Computer Technology, The Association of Technology, Management, and Applied Engineering**

**Velvet Nelson (Geography); Commission on Geography of Tourism, Leisure, and Global Change**

**Samuel Adu-Prah, Geography, awarded the Carnegie African Diaspora Fellowship Program Award (2nd time) to travel to Ghana for collaborative research and teaching with Kwame Nkrumah University faculty and students**

**Scott Chapman (Mathematics and Statistics); Selected to the Committee of Examiners for the GRE Mathematics Test**

**Melinda Holt (Mathematics and Statistics); Governing Board, American Statistical Association Council of Chapters and Chair of the ASA Traveling Course Committee**

**Mary Swarthout (Mathematics and Statistics); Board Member, Texas Council of Teachers of Mathematics;**

# Equipment and Infrastructure

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Aerial View From Northeast

# Life Science Building

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17 teaching laboratories, 1 dividable lecture hall

30 research labs

- 26 for Biology, 2 for Chemistry and 2 for Forensic Science (+DNA sequencing facility)

Biology Office and Lunch/Break Room

Office of Pre-Health Professional (OPPA) Advising Center

Faculty and Staff Offices

Shared Research Facilities:

- New Confocal, Scanning Electron, and Imaging Microscopes
- Cellular and Molecular Core Lab, Ecological Analysis Lab and Support Facilities, Sample Processing and Gear Washout room, Specialized Insect Rearing rooms
- Cold Room, Freezer and Refrigerator rooms, and glass wash/sterilizer room

Student Study rooms, Tutorial Rooms, and Flexible Seating on each floor



# Other improvements/equipment

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New Gibbs Ranch conference center

Center for Digital Forensics moved from White Hall to AB1

New soft bench seating and bistro bar-height tables (coming soon) in LDB atrium

New non-leaking roof on LDB

New Atomic Force Microscope in Physics

New Computer Cluster for Computational Research in Physics

Start-up and Equipment Funding for FY19 (~\$397,000)

# Review of Goals for 2017-2018

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# Goals from FY18

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Recruited students into the Composite Science and Environmental Science Bachelors degrees; Recruit Geography, Geology, and Physics students (partially)

Recruited students into the PhD degree in Digital and Cyber Forensic Science and Hired Director of Center for Digital Forensics and DF Lab Coordinator

Moved Biological Sciences into the new Biology Lab Building and Hired 4 TT faculty and Microscopy Technician

Completed Equipment Purchasing and Installation for Engineering Technology and Hired Construction Management TT Faculty

Proposed to administration for reuse of Art Buildings for Engineering Technology expansion in 2019

Implemented new Math rules on continuous enrollment/drop ban and hired 2 TT Statistics Faculty

Launched NSF STEM Center

Completed additional course development for Online GIS and Mathematics Education MS programs

# Goals for FY19

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Launch the PhD program in Digital and Cyber Forensic Science

Complete curriculum planning for online GIS, online MA in Mathematics Education and BS in Mechanical Engineering Technology

Renew ABET accreditation for BS in Computing Science

Continue preparing for ABET review in Engineering Technology

Complete all training for online faculty through SHSU online

Increase ACE course participation

Utilize NSF Stem funding for curricular improvement

Repurpose old Biology 3<sup>rd</sup> floor space for Math/Stats and Geography/Geology use-Use for adjunct offices, GIS grad student space, tutorial room, and student lounge space.