# College of Engineering

## Fall 2019 Faculty & Staff Retreat

## Welcome to the 2019 -20 AY!

### August 22, 2019

# AGENDA – FALL'19 FACULTY & STAFF RETREAT

**SAN DIEGO STATE UNIVERSITY**

**1:00-1:15**    Welcome Remarks to Faculty & Staff – Dean Olevsky

**1:15-1:35**    Dr. Hector Ochoa, Provost & Senior Vice President

**1:35-2:15**    State of the College Presentation – Dean Olevsky

**2:15-2:20**    Approval of 4/23/2019 CoE Faculty Meeting Minutes

**2:20-2:50**    2019-20 College of Engineering Committee Elections

**2:50-3:00**    Break

**3:00-3:30**    Padma Nagappan, Science/Research Writer, Strategic
                 Communications & Public Affairs

**3:30-4:00**    Dr. Radmila Prislin, AVP for Academic Affairs – Resource

**4:00-4:10**    Kate Carinder, Sr. Director of Development for Engineering, University
                 Relations & Development

**4:10-4:25**    Kara Peterson, Design Administrator, Project Management

**4:25-4:30**    Closing Remarks/Adjournment – Dean Olevsky

**SAN DIEGO STATE UNIVERSITY**

**College of Engineering**

# Welcome Remarks

# CoE - Secretary

- **College of Engineering Secretary:  (is elected at the first meeting of the academic year.  The tenure of the Secretary is for (2) years and the term begins upon election)**

  — **S. Bhattacharjee (ME)          (term ends 5/19)**

# San Diego State University
## College of Engineering

# Introduction of New Faculty & Staff

# MEET OUR NEW AE FACULTY

**Dr. Pavel Popov**

Ph.D., Cornell University,
Ithaca, New York
Assistant Professor of Aerospace Engineering

**Previous Position**

Research Scientist
University of Illinois at Urbana-Champaign

**Areas of Specialization**

Computational fluid dynamics and combustion; combustion-acoustic instability; rocket propulsion; plasma-combustion interactions; turbulent reactive flows; high-performance computing; stochastic methods and machine learning methods for reactive flows.

# MEET OUR NEW CCEE FACULTY

San Diego State University

**Dr. Reza Akhavian**

Ph.D., University of Central Florida, Orlando, FL

Assistant Professor of Civil, Construction and Environmental Engineering

**Previous Position**

Assistant Professor, Construction Management Program, School of Engineering California State University East Bay

**Areas of Specialization**

Construction engineering and management; data analytics; automation and robotics; artificial intelligence (AI); cyberphysical systems (CPS); internet-of-things (IoT); discrete-event simulation (DES); safety and productivity of construction project operations; and sustainability and resiliency of the built environment.

# MEET OUR NEW CCEE FACULTY

**Dr. Marta Miletić**
Ph.D., Kansas State University,
Manhattan, KS
Assistant Professor of Civil, Construction and
Environmental Engineering

**Previous Position**
Assistant Professor, Department of Civil
Engineering
Auburn University

**Areas of Specialization**

Strain localization in geo-materials;
computational modeling of pressure sensitive
materials; multiscale and multiphysics processes
in geomechanics; soil improvement (fibers,
(bio)polymers, geosynthetics, industrial waste
products); soil-structure interaction; thermally
active geosystems; resilient and sustainable
infrastructure materials; advanced geotechnical
laboratory testing.

# MEET OUR NEW ECE FACULTY

SAN DIEGO STATE UNIVERSITY



**Dr. Junfei Xie**
Ph.D., University of North Texas,
Denton, TX
Assistant Professor of Electrical and Computer Engineering
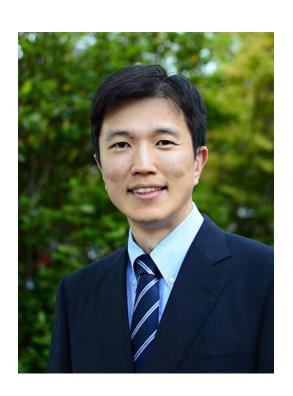
**Previous Position**
Assistant Professor, Department of Computer Science
Texas A&M University- Corpus Christi

**Areas of Specialization**

Large-scale dynamic system design and control; spatiotemporal data analysis; unmanned aerial systems; airborne networks; air traffic flow management; complex information system.

# MEET OUR NEW ME FACULTY

San Diego State University

**Dr. Sungbum (John) Kang**
Ph.D., Georgia Institute of Technology,
Atlanta, GA
Assistant Professor of Mechanical Engineering

**Previous Position**
Resolution Enhancement Technology Design
Engineer
Intel Corporation

**Areas of Specialization**

Optical Metrology; Mechatronics; Industrial Automation; Digital Fringe Projection; Moiré Interferometry; Phase Measuring Deflectometry; Machine Vision; Machine Learning; Optical Proximity Correction; Metrology Applications for Additive/Semiconductor/LCD/Solar-Cell Manufacturing.

# MEET OUR NEW ME FACULTY

SAN DIEGO STATE UNIVERSITY

**Dr. Sung-Yong (Sean) Park**
Ph.D., University of California at Los Angeles
Los Angeles, CA
Assistant Professor of Mechanical Engineering

**Previous Position**
Assistant Professor
National University of Singapore, Singapore

**Areas of Specialization**

Optofluidic solar power technologies (concentrated solar energy, solar indoor lighting, and solar spectrum splitting) for sustainable buildings; tribo-electric energy harvesting from waste water sources (e.g. raindrop, waterfall, ocean wave); smartphone-integrated environmental monitoring for on-site and real-time air/water quality detection; lab-on-a-smartphone (LOS) as an optofluidic portable device for automated sample preparation and on-chip microscopic detection.

# MEET OUR NEW ME FACULTY

**Dr. Yang Yang** (*Spring 2020*)
Ph.D., Wuhan University,
Wuhan, China
Joint Ph.D. student, University of California at Los Angeles
Assistant Professor of Mechanical Engineering

**Previous Position**
Postdoctoral Research Associate
University of Southern California, Los Angeles, CA

**Areas of Specialization**

Bioinspired 3D printing; Ceramic 3D printing; 3D printing of micro-scale superhydrophobic structure; Novel applications of 3D printing; Mechanism of materials and structures; Stereolithography; Piezoelectric/Thermoelectric Energy harvesting device; Wearable Sensor; 4D Printing; High Dielectric Nanocomposites; Self-healing Materials.

# MEET OUR NEW STAFF

**Nicole Brokaw**

Previous Position:

Administrative Support Coordinator for CCEE

**Position**

Department Coordinator for Aerospace Engineering

# WELCOME
# NEW INTERIM ASSOCIATE DEANS

SAN DIEGO STATE
UNIVERSITY

**Dr. Temesgen Garoma**

Interim Associate Dean, Graduate Studies & Research

Professor
Blasker Chair in Environmental Engineering
Director of the Environmental Engineering Program

**Dr. Yusuf Ozturk**

Interim Associate Dean, Undergraduate Studies

Professor
Electrical & Computer Engineering

# Faculty Award

**NORTHROP GRUMMAN**

2018-19 Excellence in Teaching Award

SAN DIEGO STATE UNIVERSITY

College of Engineering
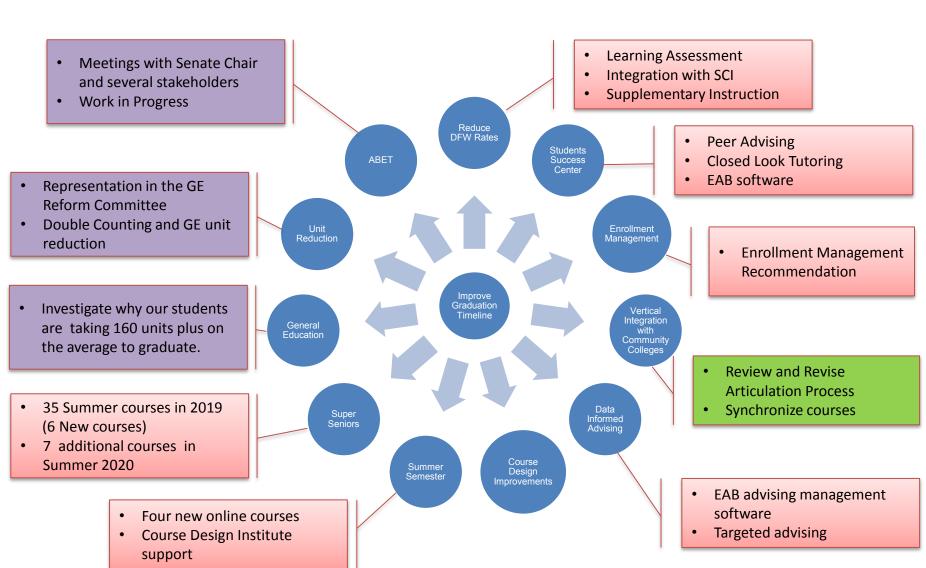
# STATE OF THE COLLEGE

# Undergraduate Program Update

# UNDERGRADUATE STUDY PROJECTS AND PROGRESS

San Diego State University
College of Engineering

**Meetings with Senate Chair and several stakeholders**
**Work in Progress**

**Representation in the GE Reform Committee**
**Double Counting and GE unit reduction**

**Investigate why our students are taking 160 units plus on the average to graduate.**

**35 Summer courses in 2019 (6 New courses)**
**7 additional courses in Summer 2020**

**Four new online courses**
**Course Design Institute support**

**Learning Assessment**
**Integration with SCI**
**Supplementary Instruction**

**Peer Advising**
**Closed Look Tutoring**
**EAB software**

**Enrollment Management Recommendation**

**Review and Revise Articulation Process**
**Synchronize courses**

**EAB advising management software**
**Targeted advising**

## Central diagram

Improve Graduation Timeline

- Reduce DFW Rates
- ABET
- Students Success Center
- Enrollment Management
- Unit Reduction
- Vertical Integration with Community Colleges
- General Education
- Data Informed Advising
- Super Seniors
- Course Design Improvements
- Summer Semester

# Enrollment Trends by Major (Fall Semester) (FTES)
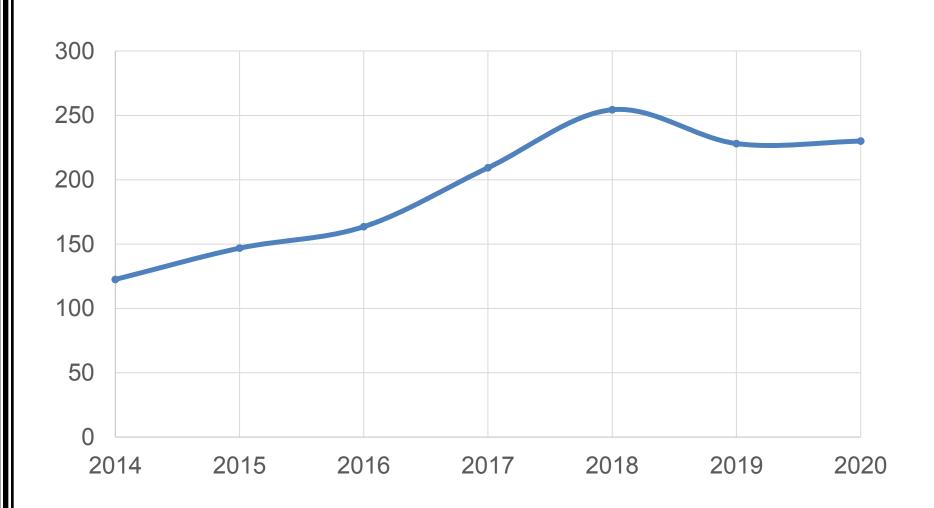
| Year | Aerospace | Civil | COMPE | Construction | Electrical | Engineering | Environmental | Mechanical | Grand Total |
|------|-----------|-------|-------|--------------|------------|-------------|---------------|------------|-------------|
| 2014 | 225.5 | 191.3 | 143 | 100.3 | 329.5 | 12.2 | 50.9 | 540.7 | 1593.4 |
| 2015 | 220.6 | 243.5 | 155.9 | 98.6 | 352.9 | 13.7 | 63.6 | 599.4 | 1748.2 |
| 2016 | 248.6 | 244 | 206.1 | 100.5 | 338.1 | 13.1 | 68 | 638.3 | 1856.7 |
| 2017 | 304.2 | 257.4 | 217.8 | 82.7 | 389.3 | 16.3 | 67.9 | 706.6 | 2042.2 |
| 2018 | 304.7 | 286.6 | 202 | 90.9 | 356.4 | 21.1 | 82.1 | 703.3 | 2047.1 |
| 2019 | 282.3 | 267.5 | 179.5 | 73.8 | 303.0 | 8.9 | 69.7 | 664.8 | 1850 |



There is a decline in engineering student counts due to the changes in admission process and increase in Summer Program. All majors are effected with Construction and Electrical Engineering leading with 22% and 18% decline respectively.
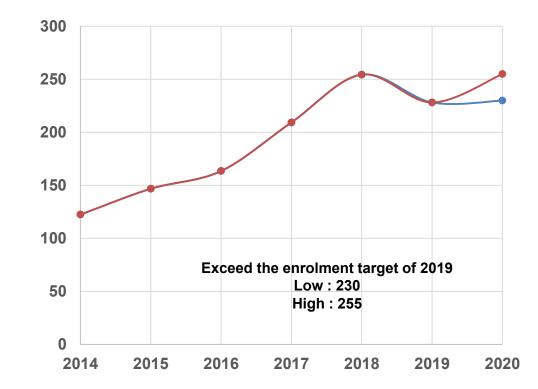
# Summer 2019

- We offered 35 Summer Courses
- Introduced 6 new courses in the Summer program (EE 300, COMPE 475, COMPE 470, CIVE 521, ENVE 355, ME 202)
- Offered 3 new online courses (EE300, COMPE 375, COMPE 470)
- FTES dropped to 228.1 from all time high 254.4 (Summer 2018)
- Issues :
  - Enrollment decline in Engineering
  - Students are dropped from Summer Session 2 at the end of spring semester for lack of prerequisite

| Year | FTES | Percent Change |
|------|------|----------------|
| 2015 | 146.8 | 19.84% |
| 2016 | 163.5 | 11.38% |
| 2017 | 209.3 | 28.01% |
| 2018 | 254.4 | 21.55% |
| 2019 | 228.1 | -10.34% |

# Summer 2020

- 7 New summer courses
    - AE 280
    - AE 340
    - COMPE 270 (Hybrid)
    - EE210
    - EE410 (Online)
    - ME 555
    - ME 496
- Explore possibility of offering
    - AE341
    - EE204
    - CIVE 220
- Total number of courses in Summer 2020 program 42+
- Introduce Summer Session 2 as a separate semester (increase number of semesters to 5, Winter, Spring, Summer 1, Summer 2, Fall)

**Exceed the enrolment target of 2019**
**Low : 230**
**High : 255**

# NEW COURSES IN SUMMER 2020

San Diego State University — College of Engineering

| Course | Fall 2018 | Spring 2019 | Fall 2019 |
|---|---|---|---|
| AE 280 | 354 | 313 | 268 |
| AE 340 | 373 | 230 | 270 |
| AE 341 | 253 | 169 | 220 |
| CIV E0220 | 238 | | 235 |
| COMPE 270 | 105 | 77 | 84 |
| EE204 | 170 | 186 | 145 |
| EE210 | 112 | 93 | 61 |
| EE410 | 103 | 115 | 71 |
| ME 555 | 106 | 183 | 93 |
| ME 496 | | | 58 |

Courses that have a high demand and/or high impact are elected.
High impact courses are the courses that effect graduation timeline (courses that are being explored for summer offering are highlighted in yellow)
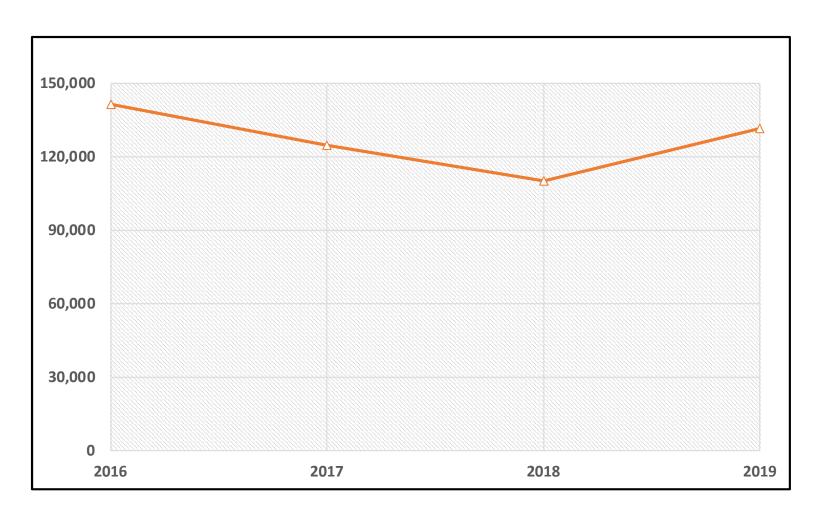
# GRADUATE STUDIES & RESEARCH

# PROGRAM UPDATE

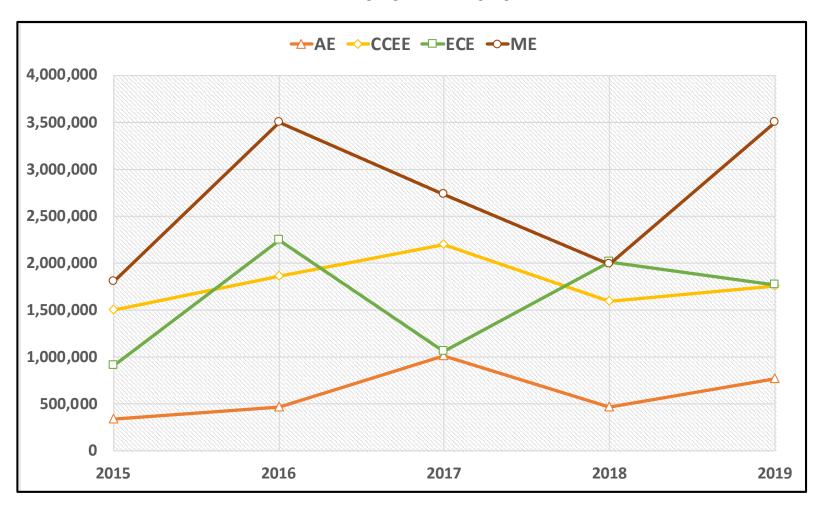# Research Awards per Engineering Faculty

San Diego State University
College of Engineering

## Total Dollars Awarded per TT Faculty for FY 2016 - FY 2019

# RESEARCH AWARDS TO ENGINEERING FACULTY

**Average Number of Proposal Submission by TT Faculty Per Year for FY 2015 - FY 2019**

| Average Number of Proposals by TT Faculty /year | Number of Assistant Professors | Number of Associate Professors | Number of Professors | Total Number TT Faculty |
|---|---|---|---|---|
| 0 to 1 | 3 | 3 | 10 | 16 |
| 1 to 3 | 12 | 5 | 2 | 19 |
| 3 to 5 | 7 | 2 | 9 | 18 |
| 5 to 7.5 | 0 | 1 | 3 | 4 |
| 7.5 to 10 | 0 | 0 | 2 | 2 |

**Total = 59**

# RESEARCH AWARDS TO ENGINEERING FACULTY

San Diego State University
College of Engineering

**Average Total Dollars Awarded to TT Faculty Per Year for
FY 2015 - FY 2019**

| Average Total Dollars Awarded to TT Faculty /year | Number of Assistant Professors | Number of Associate Professors | Number of Professors | Total Number TT Faculty |
|---|---|---|---|---|
| 0 to 10k | 12 | 4 | 9 | 25 |
| 10 to 50k | 4 | 2 | 1 | 7 |
| 50 to 100k | 2 | 1 | 4 | 7 |
| 100 to 250k | 4 | 4 | 5 | 13 |
| 250 to 500k | 0 | 0 | 4 | 4 |
| 500 to 750k | 0 | 0 | 3 | 3 |

**Total = 59**

# ENGINEERING FACULTY PUBLICATION RECORDS

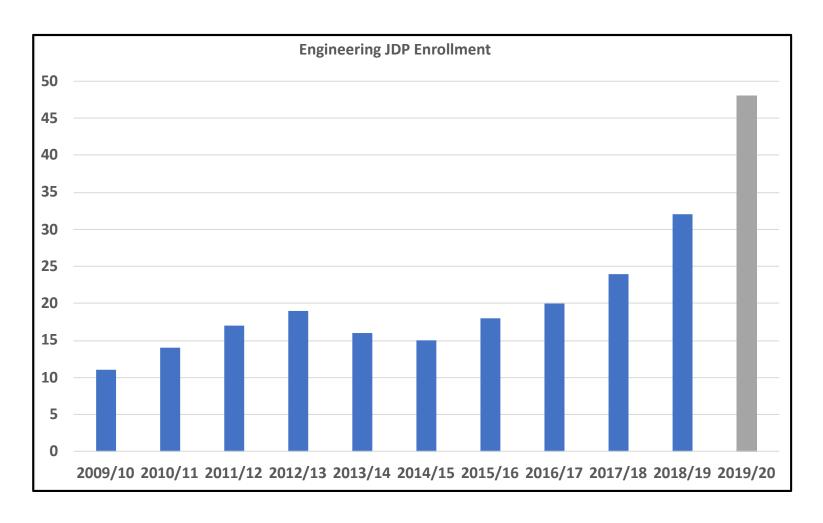**SAN DIEGO STATE UNIVERSITY**
College of Engineering

**Average Number of Peer-reviewed Journal Papers by TT Faculty Per Year for 2016 - 2018**

| Average Number of Peer-reviewed Journal Papers by TT Faculty /year | Number of Assistant Professors | Number of Associate Professors | Number of Professors | Total Number TT Faculty |
|---|---|---|---|---|
| 0 to 1 | 3 | 1 | 4 | 8 |
| 1 to 3 | 10 | 5 | 6 | 21 |
| 3 to 5 | 6 | 5 | 7 | 18 |
| 5 to 10 | 3 | 0 | 6 | 9 |
| 10 to 16 | 0 | 0 | 3 | 3 |

**Total = 59**

# JDP Updates



Engineering JDP Enrollment

# JDP Updates

August 1, 2019

To:          Eugene Olevsky, Dean
             College of Engineering

From:        S. Hector Ochoa, Provost & Senior Vice President

Subject:     JDP Engineering Admissions and Student Support

1. In the absence of additional funds, the limited central resources currently available to cover the basic and non-resident tuition may require reduced future admissions until a steady state with funding is reached. Should the JDP Engineering requests for future admissions exceed the central resources available for basic and non-resident tuition, the College will be able to admit only those additional students whose basic and non-resident tuition is covered from the College's internal funds.

2. College of Engineering is responsible for payments of UCSD fees for all JDP Engineering students.

3. College of Engineering is responsible for identifying sources of funding for each doctoral student's stipend. Stipends not covered by existing sources (e.g., start-ups, grants, University Grant Fellowships) are the responsibility of the College, students, or both.

# JDP Updates

**The Estimated Annual Cost for a JDP Student Supported with Grant through SDSURF**

| JDP Student Estimated Costs of Attendance | | |
|---|---|---|
| | Residents | Nonresidents |
| **Basic Tuition** | $5,932 | $5,932 |
| **Nonresident Tuition** | $0 | $4,752 |
| **Salary** | $22,920 | $22,920 |
| **Benefits** | $5,272 | $5,272 |
| **UCSD Fee** | $5,500 | $5,500 |
| **TOTAL (without F&A)** | $39,624 | $44,376 |
| **F&A (excluding tuition and fees)** | $14,942 | $14,942 |
| **TOTAL (with F&A)*** | **$54,565** | **$59,317** |

**\* If hired through SDSU, the total cost increases by about $10k**

# MS PROGRAMS UPDATES

**SAN DIEGO STATE UNIVERSITY**
College of Engineering

## Program Graduates/Completers for Last Three-Year

| Master of Science Degrees in | 2015-2016 | 2016-2017 | 2017-2018 | Three-year average |
|---|---|---|---|---|
| Aerospace Engineering | 5 | 10 | 14 | 10 |
| Civil Engineering | 34 | 20 | 26 | 27 |
| Electrical and Computer Engineering | 51 | 99 | 65 | 72 |
| Mechanical Engineering | 22 | 27 | 28 | 26 |
| Interdisciplinary Master of Engineering | 14 | 11 | 7 | 11 |
| **All Masters Programs in the COE** | **126** | **167** | **140** | **144** |

# SAN DIEGO STATE UNIVERSITY

## College of Engineering

# COMMUNITY & COMMUNICATION

**SAN DIEGO STATE UNIVERSITY**

**College of Engineering**

# FEMINEER™ PROGRAM

# SDSU College of Engineering Femineer™ Program

☐ **Mission:** To inspire and empower K-12 female students to pursue STEM (Science, Technology, Engineering, and Math) in their education and future careers

☐ **Year-round experience:** Femineer™ courses offered during or after school, Femineer™ Summit held in late Spring semester, Girls Day Out Saturday STEM events during Fall/Spring, Girls STEM Summer Camps



Over 200 MS & HS Femineer™ Students, teachers, SDSU alumni, industry & community partners, and SDSU Faculty & Staff attended our SDSU's First Annual Femineer™ Summit (May 23, 2019)

# SDSU College of Engineering Femineer™ Program



- **Benefits of having the Femineer™ Program at SDSU**

    - Students feel connected to our University, our College, its faculty & staff, and our students

    - Is designed for girls to develop and use skills that will be directly useful in college – **not just exposure to an engineering program**

    - Connect and engage SDSU alumni and local industry partners

# SDSU College of Engineering Femineer™ Program

- ❑ SDSU is 1 of 3 universities that offer the Femineer™ Program

- ❑ Since 2017, SDSU's College of Engineering has adopted 6 schools to start the Femineer™ Program

- ❑ 8 schools in San Diego County offering the program for 2019-2020
  - 111 schools nationwide
  - 2,700+ students served

- ❑ Summer 2019, 17 Femineer™ teachers trained at SDSU

- ❑ Summer 2019 – Offered all 3 Femineer™ course teacher trainings (Creative Robotics, Wearable Technology, and Pi Robotics)

# MESA PROGRAM

**MESA College Prep**

Luis E. Topete
Director
San Diego County

Jeanette Espino
Director
Imperial Valley County

- STEM Project-based learning
- STEM Competitions
- Career and College Exploration
- Industry Exposure
- Teacher Professional Development
- Parent Education Programs
- Undergraduate Mentors

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- Approx. 2,000 diverse students served
- Partnered middle & high schools in San Diego & Imperial Valley

**MESA Undergraduate**

- **First Year Course**
- **Tutoring & Academic Workshops**
- **Scholarships**
- **Alumni Engagement**
- **Shadow Day**
- **Research Academies**
- **Leadership Conference**
- **Industry Training Academy**

- **250 diverse undergrads served**

*A few supporters:*

NORTHROP GRUMMAN

Solar Turbines
A Caterpillar Company

SDG&E
A Sempra Energy utility

RICK
ENGINEERING COMPANY

NAVWAR

# How MESA contributes to COE



**Alumni & Industry Relationships**
- ❑ Mentors, Panelists, Presenters
- ❑ Donors ($50K from Alex Mora, Alum, endowed scholarship)
- ❑ Shadow Day - 191 students/24 companies participated in 2018, 49%, of college students were non-MESA
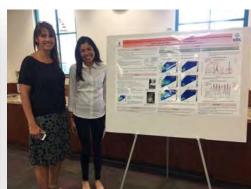


**Community**
- ❑ Relationships with San Diego County School Districts & STEM community
- ❑ Pre College Visits & Community College Engagement
- ❑ SDSU Compact Success (500+ students) & SDSU Compact Middle School (200+ students) STEM Engagement
- ❑ Facilitates COE Tutoring program



**Faculty**
- ❑ Letters of Support/Collaboration
- ❑ Identify/Recruit undergraduates for research opportunity within COE
- ❑ Research Lab Tours
- ❑ Research Academy & Jr. Research Academy
- ❑ Opportunities for faculty to share research w/undergrads

# SAN DIEGO STATE UNIVERSITY

## College of Engineering

# TROOPS TO ENGINEERS

# SAN DIEGO STATE UNIVERSITY
## Troops to Engineers

Brittany Field
Troops to Engineers
Program Coordinator
SDSU Alumna BA in
Communication 2015
Navy Veteran
619-594-8549
bfield@sdsu.edu

Elisa East
Troops to Engineers
Program Coordinator
SDSU Alumna BA in
Psychology 2014
SDSU Alumni MA in
Education 2018
Army Veteran
619-594-0383
ceast01@sdsu.edu

# Program Overview

## Mission

SDSU Troops to Engineers Program (T2E) supports the career development of student veterans majoring in Engineering and Computer Science.

## Program Goal

Place 100% of program participants into a paid internship while enrolled and into a full-time position upon graduation.

## How We Do It

We collaborate with Hiring Managers at engineering companies in San Diego to create and provide student veterans with:

- Hiring Events
- Networking Mixers
- Tours of Engineering Companies
- Employer-led Skills Training
- Placement Assistance
  - Paid Internships
  - Full-time Jobs

# How YOU can support our veteran engineering students!

- Distribute Troops to Engineers promotion flyers and verbally promote the program, as appropriate to your veteran students.

- Share any engineering company contacts with coordinators to expand their connections in San Diego.

- Communicate any challenges or advantages to teaching student-veterans.

- Complete Military Ally Training to learn more about veteran student unique experience. Please email Todd Kennedy to register. [Tkennedy@sdsu.edu](mailto:Tkennedy@sdsu.edu)

SAN DIEGO STATE UNIVERSITY
**Troops to Engineers**

T2E has been successful for the last **8 years** and continues to thrive each year

- **397** students have participated in the program.

- Placement success rate of **100%** .

- This academic year we've connected with **3,700+** community members at **28** outreach events.

- **174** students participated in professional development events:
  - Recruiting: **39**
  - Industry tours: **83**
  - Resume building: **52**

- Partnered with **46** engineering companies.

- Received **$386,200** in grant funding.

# COE IMPORTANT DATES TO REMEMBER

# FALL 2019
# CoE IMPORTANT DATES TO REMEMBER

- **Aug 23, 2019 (Fri) –** 6:30pm-8:30pm **– CoE Gathering** – Tom Ham's Lighthouse

- **Oct 8, 2019 (Tue) –** 11:00am-12:00pm – **CoE Faculty Mtg** – Bioscience Gold Auditorium

- **Oct 10, 2019 (Thu)** – 1:30pm-2:30pm – **CoE Staff Mtg** – Engineering Dean's Conf. Room

- **Oct 23, 2019 (Wed)** – 8:00am-4:30pm – **Provost Ochoa CoE Visit** – Location TBD

- **Nov 15, 2019 (Fri)** – 8:30am-1:00pm – **Engineering Dean's Advisory Board Mtg** –
  Templo Mayor Conf. Room, Aztec Student Union

- **Dec 3, 2019 (Tue) –** 11:00am-12:00pm – **CoE Faculty Mtg** – Bioscience Gold Auditorium

- **Dec 5, 2019 (Thu)** – 1:30pm-2:30pm – **CoE Staff Mtg** – Engineering Dean's Conf. Room

- **Dec 10, 2019 (Tue) –** 11:30am-1:00pm – **CoE Holiday Luncheon** – Cuicacalli Suites,
  The Garden

- **May 6, 2020 (Wed)** – 8:30am-1:00pm – **Engineering Dean's Advisory Board Mtg** –
  Templo Mayor Conf. Room, Aztec Student Union

- **May 6, 2020 (Wed)** – 1:30pm-4:00pm – **2019 Engineering Design Day** – Montezuma Hall

San Diego State University
College of Engineering

# Approval of 4/23/2019 Faculty Minutes

# Elections & Review Of 2019 – 2020 College of Engineering Committees

# CoE - Secretary

- **College of Engineering Secretary:  (is elected at the first meeting of the academic year.  The tenure of the Secretary is for (2) years and the term begins upon election)**

    — **S. Bhattacharjee (ME)          (term ends 5/19)**

**SAN DIEGO STATE**
**UNIVERSITY**

- **College of Engineering Representative to UPTRP: (is a tenured full professor elected by the probationary and tenured members of the faculty for a two-year term. At the May faculty meeting of each odd year, the College's current representative shall conduct, by democratic process and secret ballot, the election of the faculty member to represent the College for the next two academic years).**

    - **UPTRP Representative:  J. Valdes (CCEE) elected to UPTRP Committee (term ends 5/19)**

# CoE - Parliamentarian

- **CONSTITUTION AND BYLAWS Committee:  (members elected by respective Departments [AE & CCEE terms expire in January of even years; ECE & ME terms expire in January of odd years] and serve 2-year terms; Chair is the College Parliamentarian and is elected by the faculty at-large)**

    - **Y. Ozturk (ECE) – Parliamentarian & Chair    (term ends 5/19)**
    - **B. Narang (AE)                                               (term ends 1/20)**
    - **T. Mitropoulos (CCEE)                              (term ends 1/20)**
    - **M. Gupta (ECE)                                          (term ends 1/19)**
    - **S. Bhattacharjee (ME)                              (term ends 1/19)**

# CoE Committees 2019 - 2020

San Diego State University

- **PERSONNEL TENURE AND PROMOTION: (members elected by respective Departments in September [AE&ME in odd years; CCEE&ECE in even years] and serve 2 year terms; Chair selected from the membership of the committee which served the previous year)**

    — Z. Bayasi (CHAIR - CCEE)      (term ends 5/20)
    — **J. Katz (AE)**      **(term ends 5/19)**
    — S. Sharma (ECE)      (term ends 5/20)
    — **A. Beyene (ME)**      **(term ends 5/19)**

- **SCHOLARSHIP AND AWARDS: (members elected by respective Departments and serve 2 year terms; AE&ECE members elected in odd years, CCEE&ME elected in even years; Chair elected by the committee at the beginning of each year)**

    — **S. Seshagiri (CHAIR - ECE)**      **(term ends 5/19)**
    — **B. Narang (AE)**      **(term ends 5/19)**
    — A. Kinoshita (CCEE)      (term ends 5/20)
    — F. Miller (ME)      (term ends 5/20)

- **ACADEMIC POLICY AND PLANNING:** **(members elected by respective Departments and serve 3-year terms; members are eligible for re-election; Chair elected by the committee at the beginning of each year)**

  — S. Kumar  (CHAIR - ECE)                          (term ends 5/21)
  — G. Jacobs (AE)                                        (term ends 5/21)
  — **R. Dowell (CCEE)**                                **(term ends 5/19)**
  — A. Beyene (ME)                                       (term ends 5/21)

  E. Olevsky (Dean) – ex-officio

- **CURRICULUM:** **(members elected by respective Departments and serve 2-year terms; Chair elected by the committee at the beginning of each year)**

  — **G. Youssef (CHAIR - ME)**                      **(term ends 5/19)**
  — N. Mladenov (CCEE)                               (term ends 5/20)
  — **L. Demasi (AE)**                                   **(term ends 5/19)**
  — E. Engin (ECE)                                       (term ends 5/20)

- **INTRAMURAL GRANTS COMMITTEE – (formerly RSCA): (members elected by respective Departments and serve 1-year term; Chair elected by the Committee; a graduate student member selected by Committee)**

  — **S. Venkataraman (CHAIR - AE)**          **(term ends 5/19)**
  — **S. Ghanipoor-Machiani (CCEE)**          **(term ends 5/19)**
  — **S. Sharma (ECE)**                              **(term ends 5/19)**
  — **S. Kassegne (ME)**                           **(term ends 5/19)**

# CoE – Graduate Studies & Research Programs Committee

- **Members made up of Department Graduate Advisors, JDP Director, and Associate Dean (Chair) called by the Dean and Executive Committee to serve indefinitely as of 9/24/08 Executive Committee Meeting**

    – **T. Garoma (Interim Assoc. Dean) - Chair**

    – **S. Venkataraman (AE)**

    – **T. Alves (CCEE)**

    – **M. Sarkar (ECE)**

    – **F. Miller (ME)**

    – **S. Kassegne (BioEng)**

# CoE - Computer Infrastructure & Software Committee

• **Members made up of Department Chairs, IT Lead, and Associate Dean. This Committee was recomposed at the 9/24/08 Executive Committee Meeting**

— W. Nguyen (IT Lead) – Chair
— G. Jacobs & P. Lu (Chair, AE)
— A. Jahangiri & J. Supernak (Interim Chair, CCEE)
— Y. Ozturk & Chris Mi (Chair, ECE)
— A. Bhalla (replacing Dr. Subrata Bhattacharjee for 2018-19) & J. Abraham (Chair, ME)

  T. Garoma (Interim Assoc. Dean) – ex-officio

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- **Members made up of faculty with existing International Study-Abroad Programs, and the Assistant Dean of Engineering for Student Affairs**

    - **T. Garcia, Assistant Dean of Engineering for Student Affairs - Chair**
    - **N. Nosseir (AE)**
    - **J. Supernak (CCEE)**
    - **C. Mi (ECE)**
    - **K. Moon (ME)**

# CoE - STUDENT SUCCESS FEE COMMITTEE

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- **Chaired by the Assistant Dean for Student Affairs, (2) Faculty members, selected by the Department Chairs, will serve each year on a rotating basis.  AE & ME members serve in odd years; CCEE & ECE members serve in even years)**

  — T. Garcia (Assistant Dean of Student Affairs) - Chair
  — X. Liu (AE)
  — A. Kinoshita (CCEE)
  — K. Huang (ECE)
  — K. Moon (ME)

INTERMISSION

SAN DIEGO STATE
UNIVERSITY
College of Engineering

**PADMA NAGAPPAN**

SCIENCE/RESEARCH WRITER

**MELISSA PORTER**

SOCIAL MEDIA STRATEGIST

# SAN DIEGO STATE UNIVERSITY

Strategic Communications and Public Affairs

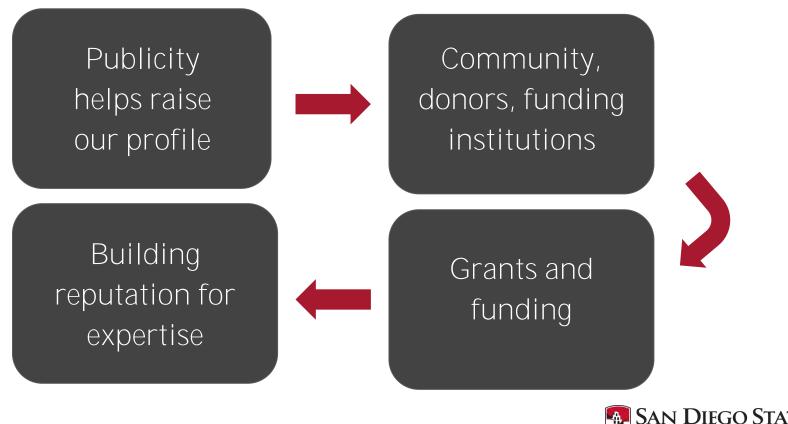Padma Nagappan
Science & Research Writer

Melissa Porter
Social Media Strategist

# How StratComm can help

- NewsCenter Story
- Social Media posts on Twitter, Facebook
- Media promotion - **if it's a good fit**
- Visuals - photo/video - to draw attention
- Media and messaging training
- Experts Directory
- Why make the effort?

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# Why is Publicity Important?

Publicity helps raise our profile → Community, donors, funding institutions → Grants and funding → Building reputation for expertise

# When to reach out to us

For study papers

- <u>As soon as</u> you get acceptance from a journal
- Why? We need time to evaluate the best approach - NewsCenter story/social media/media promotion, a combination of all three, or only college website
- Lead time to publishing varies for journals from two days to many weeks
- Send a brief description in <u>lay</u> terms - what are the key findings and what impact can/will it have; are you first/senior/co-author; is this new or continuing research; where will it be published; when will it be published.

# Can you understand this?

*Many bacteria interact with target organisms using syringe-like structures called Contractile Injection Systems (CIS). CIS structurally resemble headless bacteriophages and share evolutionarily related proteins such as the tail tube, sheath, and baseplate complex. In many cases, CIS mediate trans-kingdom interactions between bacteria and eukaryotes by delivering effectors to target cells. However, the specific effectors and their modes of action are often unknown. Here, we establish an ex vivo model to study an extracellular CIS (eCIS) called Metamorphosis Associated Contractile structures (MACs) that target eukaryotic cells. MACs kill two eukaryotic cell lines, Fall Armyworm Sf9 cells and J774A.1 murine macrophage cells, by translocating an effector termed Pne1. Before the identification of Pne1, no CIS effector exhibiting nuclease activity against eukaryotic cells had been described. Our results define a new mechanism of CIS-mediated bacteria-eukaryote interaction and are a step toward developing CIS as novel delivery systems for eukaryotic hosts.*

# Neither could we!

Here's the lay description of the same microbiology study:

**It's about how bacteria interact with marine animals, specifically tubeworms and** hydractinea. The study focused on this intriguing syringe like structure that bacteria produce, which is injected into animals. The structures actually promote **growth in animals, so they're beneficial. This is the 2**nd study on it, and they show how this bacteria can interact in-vitro with animals, and how these nano-scale injectors can be used for novel drug delivery by loading them with vaccines or targeted therapeutics.

# Here's a recent robotics abstract

*We formulate a predictor-based controller for a high-DOF manipulator to compensate a time-invariant input delay during a pick-and-place task. Robot manipulators are widely used in telemanipulation systems on the account of their reliable, fast, and precise motions while they are subject to large delays. Using common control algorithms on such delay systems can cause not only poor control performance, but also catastrophic instability in engineering applications. Therefore, delays need to be compensated in designing robust control laws. As a case study, we focus on a 7-DOF Baxter manipulator subject to three different input delays. First, delay-free dynamic equations of the Baxter manipulator are derived using the Lagrangian method. Then, we formulate a predictor-based controller, in the presence of input delay, in order to track desired trajectories. Finally, the effects of input delays in the absence of a robust predictor are investigated, and then the performance of the predictor-based controller is experimentally evaluated to reveal robustness of the algorithm formulated. Simulation and experimental results demonstrate that the predictor-based controller effectively compensates input delays and achieves closed-loop stability.*

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# And here's a lay description for it:

Elderly people typically suffer from jerky motion in their hands due to brain malfunctions. A robot manipulator that has been trained and configured in a San Diego State University lab to mimic the human brain may eventually help avoid such mishaps by bringing stability and safety in motion.

The research team has spent four years working on algorithms that can successfully command the robot to mimic the human brain and the jerky actions of an elderly person. This has helped advance the understanding of why the miscommunication and subsequent time-delay happens between the brain and muscles.

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# Why that description worked

It immediately paints a vivid picture, and our team understood this was a very visual story

Media and the public can relate to it

Actual research was in

control systems - highly technical -

but we focused on the end result -

older people - easy to understand.

# Other options for research

- Not all studies need to be stories - some may be better suited to a news announcement on your department & college website & social media channels

  Why and When:

- **If it's incremental findings from ongoing research**
- **If you're not the first or senior author**
- **It depends on the significance of your findings and the journal it's published in**
- We can help evaluate and suggest alternatives

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# When else to reach out to StratComm

- Student news - research, projects, innovations
  - (Shows the public the opportunities we offer for student research and innovation)
- Community connections - do you work with local schools, youth groups, non-profits, industry, government agencies?
  - (Highlights the impact we have on the local community)
- There are many such stories we could highlight - but we need <u>you</u> to tell us about it.

# How visuals help

Fact: A picture is worth a 1,000 words!

- Visuals = Appeal
- Draws many more eyes to the story or social media post
- Quick way to tell our story - slideshows and short videos - 30 seconds to 2 minutes
- No good visuals = little interest
- Media wants it too

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# Why this story did well

# Why you need to take pictures



Whether its research stories, or summer abroad, or student projects, or community engagement - take pictures along the way.

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# Why Use Social Media?

Social media is a powerful communication tool to share relevant and timely information. The benefits of using social media include:

- Increased visibility and awareness
- Promotion of initiatives and milestones
- Engagement with the online community
- Collaboration opportunities with other campus partners
- Increased website traffic

**SDSU Social Audience**

126.6K

99.3K

37.8K

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# Social Media Example: Video



Videos on social media do an excellent job at capturing the attention of the user. Social media videos are typically under 60 seconds and are created using still images, video clips and text.

Example: California Condor study:

- 1.1K media views
- 113 total engagements

# Social Media Examples



**San Diego State University** ✓ @SDSU · Jul 23
SDSU biology professor @millerlp and student researchers are conducting fieldwork in Bodega Bay, CA this summer.

Watch to learn more about their research. ⬇️

San Diego State University professor Luke Miller is studying tide pool communities in Bodega Bay, California with student researchers this summer.

💬 2    🔁 10    ♡ 45    ⬆️    �iⅼ

**San Diego State University** ✓ @SDSU · Jul 29
Another research breakthrough from @sdsuhealth! 🌿

Recent research spearheaded by #SDSU School of Public Health professor Eunha Hoh found that environmental contamination from cigarette butts can harm human health: okt.to/lK5oxu

💬 3    🔁 7    ♡ 19    ⬆️    �iⅼ

**San Diego State University** ✓ @SDSU · Jun 19
Using their microfluidic device, #SDSU researchers set out to better understand how clusters of cancer cells cause cancers to metastasize. See details of their research. ➡️ okt.to/M6Q7xF

💬    🔁 7    ♡ 22    ⬆️    �iⅼ

# Best Practices: Creating Social Media Posts

- **Think Visuals:** Identify any opportunities to use images or video clips to showcase the topic of the post.
- **Identify Web Property to Link to:** Determine any website related to the post that would be most appropriate to send traffic to. (i.e linking to an article about the research)
- **Keep Language Concise:** Avoid jargon and overly technical language. The social copy should be concise and easy to understand.
- **Tag and Collaborate When Possible:** Share any campus partners or other group/organization that are related to the post. Tagging other social profiles helps to encourage re-shares and increase impressions.

# Questions?

# Contact Information

Padma Nagappan

619-594-0389

[pnagappan@sdsu.edu](mailto:pnagappan@sdsu.edu)

Melissa Porter

619-594-2225

[mporter2@sdsu.edu](mailto:mporter2@sdsu.edu)

**SAN DIEGO STATE UNIVERSITY**

**College of Engineering**

# DR. RADMILA PRISLIN

## AVP FOR ACADEMIC AFFAIRS

## RESOURCE MANAGEMENT

# ACADEMIC AFFAIRS BUDGET PROCESS

Radmila Prislin, Associate Vice President
Academic Affairs – Resource Management

Presentation to CENG
August 22, 2019

# *First – Get the Money*

SDSU Operating Fund (UOF):
- State general fund (GF)
- Resident tuition net of SUG
- Non-resident tuition: 70% base, 30% 1-X
- SSF and other fees (e.g., course fees)
- Open University revenue (OU)
- Cost recovery (e.g., Reimbursement Release Time/RRT)

Lottery

Revenue from Auxiliaries (CERF, RSF)

# *Allocation of Revenue-Based Resources*

SSF
- 90% Faculty salaries and benefits
- 10% SSF-ARP
- 1-X SSF "savings": extra sections, start-ups

OU, Cost-Recovery, CERF
- All revenue stays where it is generated: departments/colleges

RSF on full F&A
- 10%+ to PIs,15% to Deans, 1% to VPR

# _GF: From State to San Diego State_

Budgeting Timeline:
- November – CSU budget request to the State
- January – CA State budget plan ("Governor's January" budget)
- March – CSU budget letter to campuses based on State January budget plan
- May – CA State May revise
- June – CA adopts budget
- July – CSU final budget letter to campuses based on State June final budget. For FY 2019-20:
  - SDSU new base allocation $20M, of which
  - $11.2M → compensation & minimum wage increases
  - $3.0M → increase in benefits costs (health & retirement)
  - $1.9M Graduation 2025 initiative
  - $3.9M 2% enrollment growth

# *GF: From State to San Diego State*

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  - $1.9M Graduation 2025 initiative
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# *Budgeting in Times of Uncertainty*

- GF allocation not known until July

- Tuition revenue not determined until Spring census

- 3$^{rd}$ certain thing in life: "surprises" with budgetary implications

- Budget conservatively!

# *Allocation of the UOF resources at SDSU*

Base ("permanent") $ allocations: Incremental with new PBAC allocation added to prior years allocations

- New base allocations are zero-based

One-time $ allocations: zero-based

Allocations made through the PBAC process

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# *PBAC Process*

- Determine funds available (GF, Tuition) after addressing mandatory cost increases

- Each division determines its funding priorities

- VPs ↔ BRAT ↔ ARP ↔ PBAC → President

# *Increasing transparency of the budgeting process*

- Increase transparency: town-hall meetings, ARP+PBAC joint discussions, VP BFA budget updates, PBAC website

- Division-specific processes

- AA: Discussions at ADC, CCD, AVPs AA → Provost
- Discussions at UGC, URC → VPR & GD

- Get involved!
  - Department, College, & University – level discussions
  - Know your representatives at ADC, UGC, URC, ARP, PBAC

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# *Prioritizing AA Requests for Base Funding*

Must Fund:

- T/TT Faculty promotion-related salary increase ($503K)
- 2019/20 T/TT positions ($2.9M: $1.9M salaries, $1M benefits)
- Enrollment growth – partial funding ($1.5M)

Previous commitments:

- Library subscriptions ($100K)
- SDSU-IV operations ($20K)

Other priorities - examples:

- Staff positions ($600K)
- Support for MS/MA students ($250K)
- Bridge funding for faculty ($50K)
- Tribal liaisons ($150K)
- CIO positions ($216K)

# *Prioritizing AA Requests for 1-X Funding*

- Must-fund base →1-X
  - Enrollment growth funding ($2.25M x2)

- Other priorities – Examples:
  - Faculty start-up ($1.5M)
  - FERP funding base → 1-X ($1M)
  - Class-size reduction initiative ($1M)
  - Deferred Maintenance ($6M)
  - PSFA CSFM Corrections – Construction ($1.5M)
  - PSFA building environmental condition improvements ($3M)
  - Traffic mitigation ($2.6M)
  - Access control replacement/upgrade ($1M)
  - Academic building capital fund ($2M)
  - Campus to resume previous CES cost-shift ($3M)
  - Matching funds for grants ($400)
  - Partner hires ($500)

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# *Allocation of Resources to AA Units*

Incremental budgeting: New allocations added to prior year base (historic) allocations in the following 3 segments of an integrated budget:

- Instructional
- Staff/management ("Non-faculty")
- Operational

Also, elements of
- Activity-based budgeting (e.g., Summer enrollment incentive program)

# *Instructional Budget*

Adjustments to base funds made to account for:

- New T/TT faculty salaries (+)
- Promotion funds (+)
- Unit 3 GSI when applicable (+)
- Market-based, equity-based salary adjustments as available/applicable (+)
- Enrollment growth (partial FTES-based funding in base $) (+)
- Miscellaneous funds as available/applicable (e.g., EO 1110, ISA) (+)
- T/TT retirements and separations (-) → 80 : 20 model

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# *Instructional Budget (cont.)*

Temporary adjustments (1-X allocations)

- Enrollment growth (partial funding in 1-X allocations) (+)
- Support for new faculty reduced teaching load (+)
- Support for sabbatical leave replacement (+)
- UGP(+)
- Exceptional services AT (+)
- AUAT (+)
- Other instructionally-related support as available (e.g., summer incentive program)
- Reimbursed Release Time (+)

# *Staff-Management ("Non-faculty") Budget*

Base adjustments
- GSIs for staff and management (+)
- New staff salaries (+)
- Retirement and separation "savings" remain within unit

Temporary adjustments
- Project/Initiative-based funding for positions (e.g., advisors)

# _Operating Budget_

Base adjustment to historic allocations:
- Rare, strategic/corrective (e.g., UGF allocation → GRA → Colleges; Library subscription allocation)

Potential 1-X adjustments to historic allocations:
- Equipment

Potential zero-based new 1-X allocations:
- TT search support
- Sabbatical support for colleges

# *Stated Differently*

Looking at an integrated budget:

- Permanent (base) adjustments related to:
  - Strategic hiring initiatives (e.g., ~ 350 new T/TT faculty)
  - Contractually-obligated and negotiated salary increases
  - Enrollment growth (partially)
  - Separations and retirements

- 1-X (temporary) adjustments applied to:
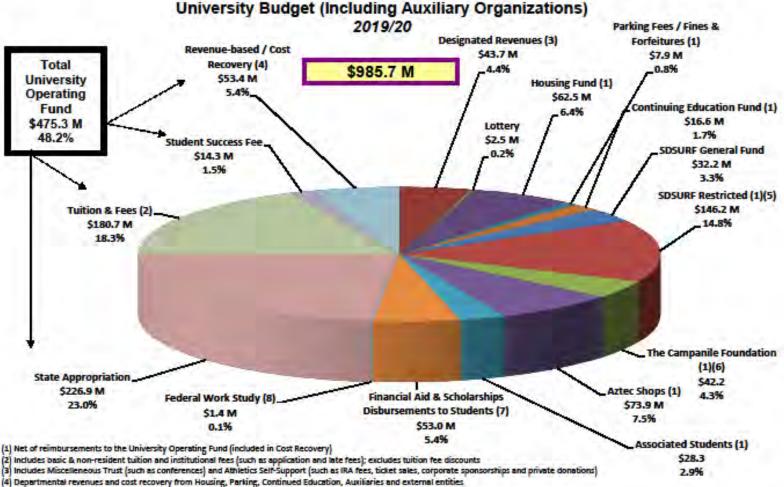  - Everything else: strategic initiatives, critical needs

# ACADEMIC AFFAIRS BUDGET PROCESS - SUPPLEMENTAL SLIDES

Radmila Prislin, Associate Vice President
Academic Affairs – Resource Management

Presentation to CENG
August 22, 2019

SAN DIEGO STATE
UNIVERSITY

# SAN DIEGO STATE UNIVERSITY
## University Budget (Including Auxiliary Organizations)
### 2019/20

**$985.7 M**

**Total University Operating Fund**
$475.3 M
48.2%

**Revenue-based / Cost Recovery (4)**
$53.4 M
5.4%

**Student Success Fee**
$14.3 M
1.5%

**Tuition & Fees (2)**
$180.7 M
18.3%

**State Appropriation**
$226.9 M
23.0%

**Federal Work Study (8)**
$1.4 M
0.1%

**Financial Aid & Scholarships Disbursements to Students (7)**
$53.0 M
5.4%

**Designated Revenues (3)**
$43.7 M
4.4%

**Housing Fund (1)**
$62.5 M
6.4%

**Lottery**
$2.5 M
0.2%

**Parking Fees / Fines & Forfeitures (1)**
$7.9 M
0.8%

**Continuing Education Fund (1)**
$16.6 M
1.7%

**SDSURF General Fund**
$32.2 M
3.3%

**SDSURF Restricted (1)(5)**
$146.2 M
14.8%

**The Campanile Foundation (1)(6)**
$42.2
4.3%

**Aztec Shops (1)**
$73.9 M
7.5%

**Associated Students (1)**
$28.3
2.9%

(1) Net of reimbursements to the University Operating Fund (included in Cost Recovery)
(2) Includes basic & non-resident tuition and institutional fees (such as application and late fees); excludes tuition fee discounts
(3) Includes Miscelleneous Trust (such as conferences) and Athletics Self-Support (such as IRA fees, ticket sales, corporate sponsorships and private donations)
(4) Departmental revenues and cost recovery from Housing, Parking, Continued Education, Auxiliaries and external entities
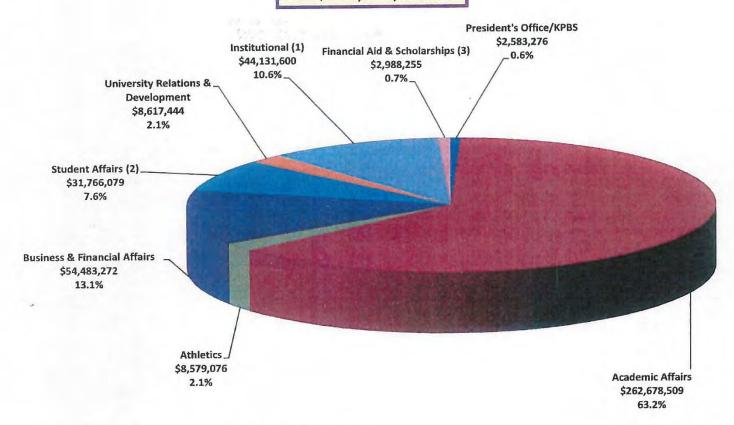(5) Includes KPBS self-generated sources (such as grants, membership fees and private donations)
(6) Excludes Athletics Grant-in-Aid (included in Athletics Self-Support)
(7) Excludes loans
(8) Excludes campus match

# SAN DIEGO STATE UNIVERSITY
## University Operating Fund Budget
## Expenditures by Division
### 2017/18

$415,827,511



**Institutional (1)**
$44,131,600
10.6%

**Financial Aid & Scholarships (3)**
$2,988,255
0.7%

**President's Office/KPBS**
$2,583,276
0.6%

**University Relations & Development**
$8,617,444
2.1%

**Student Affairs (2)**
$31,766,079
7.6%

**Business & Financial Affairs**
$54,483,272
13.1%

**Athletics**
$8,579,076
2.1%

**Academic Affairs**
$262,678,509
63.2%

(1) Institutional utilities, insurance premiums, and unallocated compensation
(2) Includes Student Health Services revenues of $10,936,000
(3) Includes Educational Opportunity Program Grant, Graduate Equity Grant, Education Doctoral Grant, Doctoral of Physical Therapy Grant, Graduate Business Professional Grant; excludes State University Grant (tuition fee discounting) and Athletics Grant-in-Aid

**SAN DIEGO STATE UNIVERSITY**

**College of Engineering**

# KARA PETERSON

## DESIGN ADMINISTRATOR

## PROJECT MANAGEMENT

*ENGINEERING BUILDING CONSTRUCTION PROJECTS*

*WHAT ARE WE BUILDING?*

*WHERE WILL PROJECTS TAKE PLACE?*

*WHERE WILL SWING SPACE (TEMPORARY SPACE DURING CONSTRUCTION) BE LOCATED?*

*ENGINEERING*
*NEW RESEARCH LABS/OFFICES*

*SCOPE:*
*NEW RESEARCH LABS AND FACULTY OFFICES THROUGHOUT ALL LEVELS OF ENGINEERING BUILDING.*

*LOGISTICS:*
*2 CONTRACTORS (SWINERTON, AND KITCHELL) WILL BE WORKING IN THE BUILDING AT THE SAME TIME.*

*SCHEDULE:*
*E120: SEPTEMBER 9 – END OF DECEMBER*
*MAIN BUILDING: NOVEMBER – JANUARY*

ENGINEERING BUILDING
AREAS UNDER CONSTRUCTION
FALL 2019

FIRST FLOOR:
E108/E108A
E120

SECOND FLOOR:
E202G
E207

THIRD FLOOR:
E300A/300B/E301

FOURTH FLOOR:
E427
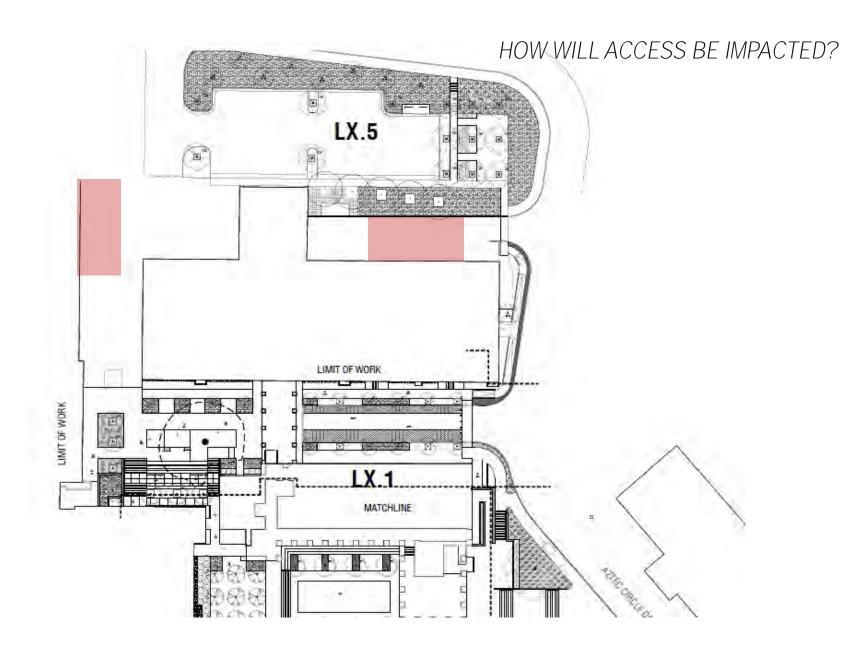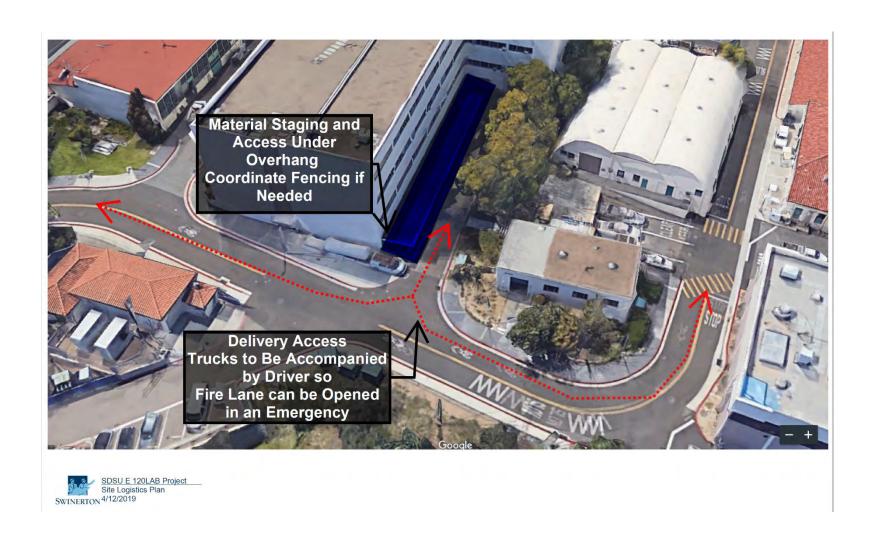
*WHEN WILL WE HEAR NOISE?*

*WHEN WILL BUILDING SYSTEMS BE AFFECTED?*

| ACTIVITY | ANTICIPATED DATES |
|---|---|
| DEMO | SEPTEMBER 9 – SEPTEMBER 20, 2019 |
| WALL FRAMING; MECHANICAL/ELECTRICAL/PLUMBING/ROUGH IN | MID OCTOBER |
| DRYWALL | LATE OCTOBER |
| PERIODIC SHUTDOWNS TO TIE IN TO BUILDING SYSTEMS | MID NOVEMBER |
| TEST/BALANCE NEW MECHANICAL SYSTEMS (A FEW HOURS OF HIGHER AIRFLOW) | EARLY DECEMBER |
| FIRE ALARM TESTING | AFTER CLASSES END |

LX.5

LIMIT OF WORK

LIMIT OF WORK

LX.1

MATCHLINE

AZTEC CIRCLE DR

**Material Staging and Access Under Overhang Coordinate Fencing if Needed**

**Delivery Access Trucks to Be Accompanied by Driver so Fire Lane can be Opened in an Emergency**

Google

SDSU E 120LAB Project
Site Logistics Plan
SWINERTON 4/12/2019

Muster
Area

Path of Travel

Lay Down

**SDSU**

**Engineering
Building
Tenant
Improvements**

Site Logistics
Plan

| Site Plan | 4/9/19 |
|-----------|--------|
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

Full Zip Wall until ceiling patch.
Then reduced to zip walls at door
openings until doors installed

Lay Down

Zip Wall

Path of Travel

| | |
|---|---|
| ▸▸▸▸ | Path of Travel |
| ▨ | Laydown/Dumpster Area |
| — | Construction Barrier |

**◄ KITCHELL**

9330 Scranton Road,
Suite 100
San Diego, CA 92121

Level 1 Barrier/Routing Plan

HOW WILL ACCESS BE IMPACTED?

Full Zip Wall until ceiling patch. Then reduced to zip walls at door openings until doors installed

Path of Travel

Lay Down

Zip Wall at opening

Path of Travel

Zip Wall

Zip Wall

Zip Wall

Level 3 Barrier/Routing Plan

**SDSU**

**Engineering Building Tenant Improvements**

Site Logistics Plan

| Site Plan | 4/9/19 |
|---|---|
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

- - - ▶ Path of Travel

▨ Laydown/Dumpster Area

— Construction Barrier

**KITCHELL**

9330 Scranton Road, Suite 100
San Diego, CA 92121

HOW WILL ACCESS BE IMPACTED?

SDSU
Engineering Building Tenant Improvements

Site Logistics Plan

| Site Plan | 4/9/19 |
|---|---|
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

Full Zip Wall until ceiling patch. Then reduced to zip wall at door opening until door installed

Zip Wall at opening

Lay Down

Path of Travel

Path of Travel

Zip Wall

Path of Travel
Laydown/Dumpster Area
Construction Barrier

KITCHELL

9330 Scranton Road, Suite 100 San Diego, CA 92121

Level 4 Barrier/Routing Plan

*WHO WILL BE RESPONSIBLE DURING THE PROJECTS?*

*HOW WILL WE COMMUNICATE PROJECT INFORMATION?*

# QUESTIONS

**CRITICAL INSTRUCTION/RESEARCH/EQUIPMENT DATES**

**COORDINATE ACCESS WITH ADJACENT SPACES**

**QUESTIONS FROM GROUP**

# CLOSING REMARKS

**SAN DIEGO STATE UNIVERSITY**

**College of Engineering**

THANK YOU!