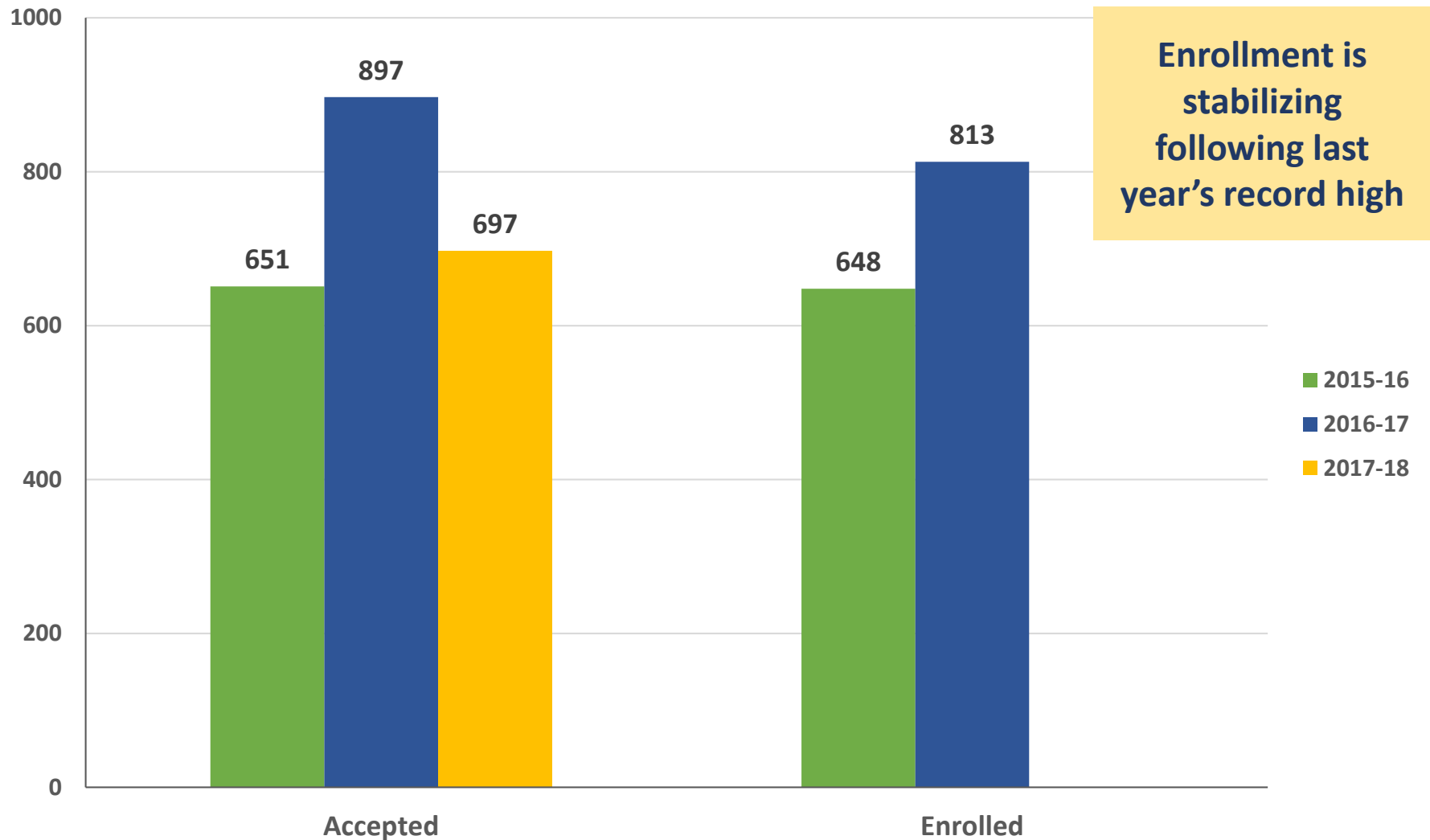




Marlan and Rosemary Bourns College of Engineering

COLLEGE MEETING 2017

UG AND TRANSFER STUDENTS



GRADUATE STUDENTS

Graduate acceptances

Master's

161



85

Ph.D.

138



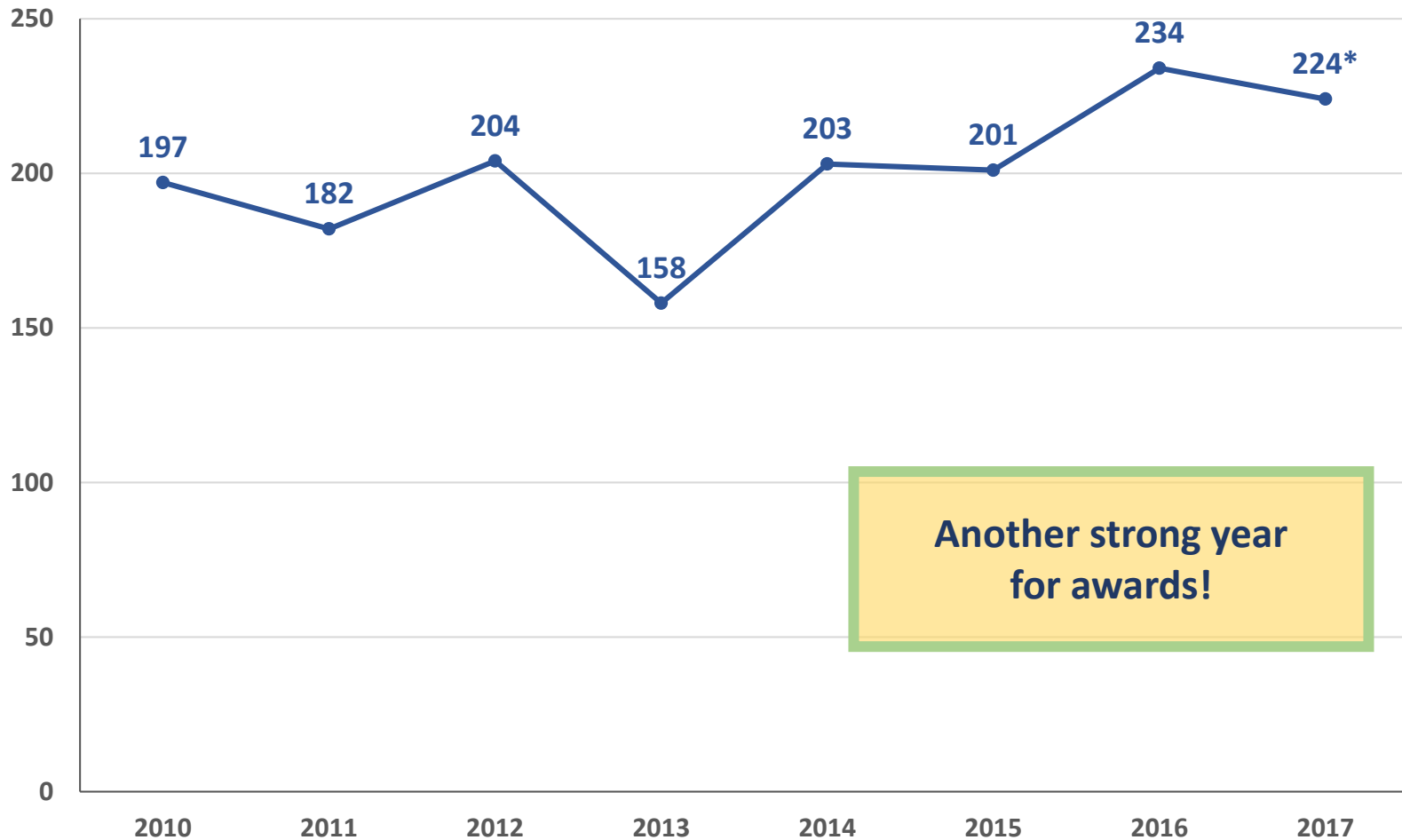
124

299

209

GRANT AWARDS

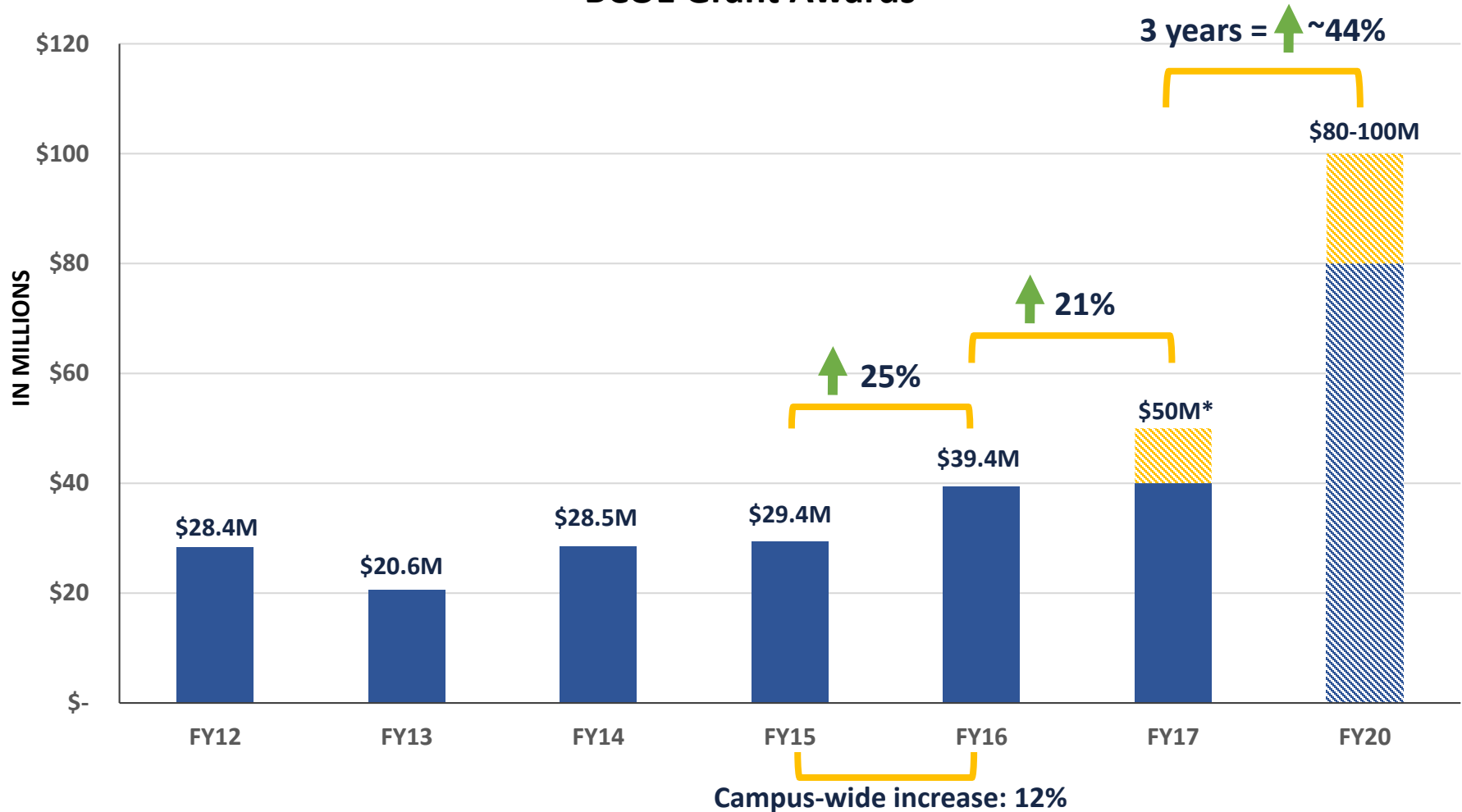
Number of BCOE Awards



*Does NOT include estimate for the final weeks of the fiscal year
Fiscal year numbers taken from July

GRANT AWARDS

BCOE Grant Awards



*Includes estimate for the final weeks of the fiscal year
Fiscal year numbers taken from July

8 NEW FACULTY...SO FAR



Asst. Professor, BIEN

Justin Chartron



Asst. Professor, BIEN

Joshua Morgan



Asst. Professor, BIEN

Kevin Freedman



Asst. Professor, CEE

Kandis Gilliard*



Asst. Professor, CEE

Cesunica Ivey*



Asst. Professor, CSE

Silas Richelson



Asst. Professor, CSE

Amr Magdy



Asst. Professor, ECE

TBA**

*Will begin faculty appointment after one-year postdoc

** Will begin faculty appointment January 2018

8 NEW FACULTY: 3 STANDARD



Asst. Professor, BIEN

Justin Chartron



Asst. Professor, BIEN

Joshua Morgan



Asst. Professor, BIEN

Kevin Freedman



Asst. Professor, CEE

Kandis Gilliard*



Asst. Professor, CEE

Cesunica Ivey*



Asst. Professor, CSE

Silas Richelson



Asst. Professor, CSE

Amr Magdy



Asst. Professor, ECE

TBA**

*Will begin faculty appointment after one-year postdoc

** Will begin faculty appointment January 2018

8 NEW FACULTY: 2 PDEF FELLOWS



Asst. Professor, BIEN

Justin Chartron



Asst. Professor, BIEN

Joshua Morgan



Asst. Professor, BIEN

Kevin Freedman



Asst. Professor, CEE

Kandis Gilliard*



Asst. Professor, CEE

Cesunica Ivey*



Asst. Professor, CSE

Silas Richelson



Asst. Professor, CSE

Amr Magdy



Asst. Professor, ECE

TBA**

*Will begin faculty appointment after one-year postdoc

** Will begin faculty appointment January 2018

8 NEW FACULTY: 3 CLUSTER HIRES



Asst. Professor, BIEN

Justin Chartron



Asst. Professor, BIEN

Joshua Morgan



Asst. Professor, BIEN

Kevin Freedman



Asst. Professor, CEE

Kandis Gilliard*



Asst. Professor, CEE

Cesunica Ivey*



Asst. Professor, CSE

Silas Richelson



Asst. Professor, CSE

Amr Magdy



Asst. Professor, ECE

TBA**

*Will begin faculty appointment after one-year postdoc

** Will begin faculty appointment January 2018

8 NEW FACULTY



Asst. Professor, BIEN

Justin Chartron



Asst. Professor, BIEN

Joshua Morgan



Asst. Professor, BIEN

Kevin Freedman



Asst. Professor, CEE

Kandis Gilliard*



University of Nevada, Reno

Asst. Professor, CEE

Cesunica Ivey*



Asst. Professor, CSE

Silas Richelson



UNIVERSITY OF MINNESOTA

Asst. Professor, CSE

Amr Magdy



Asst. Professor, ECE

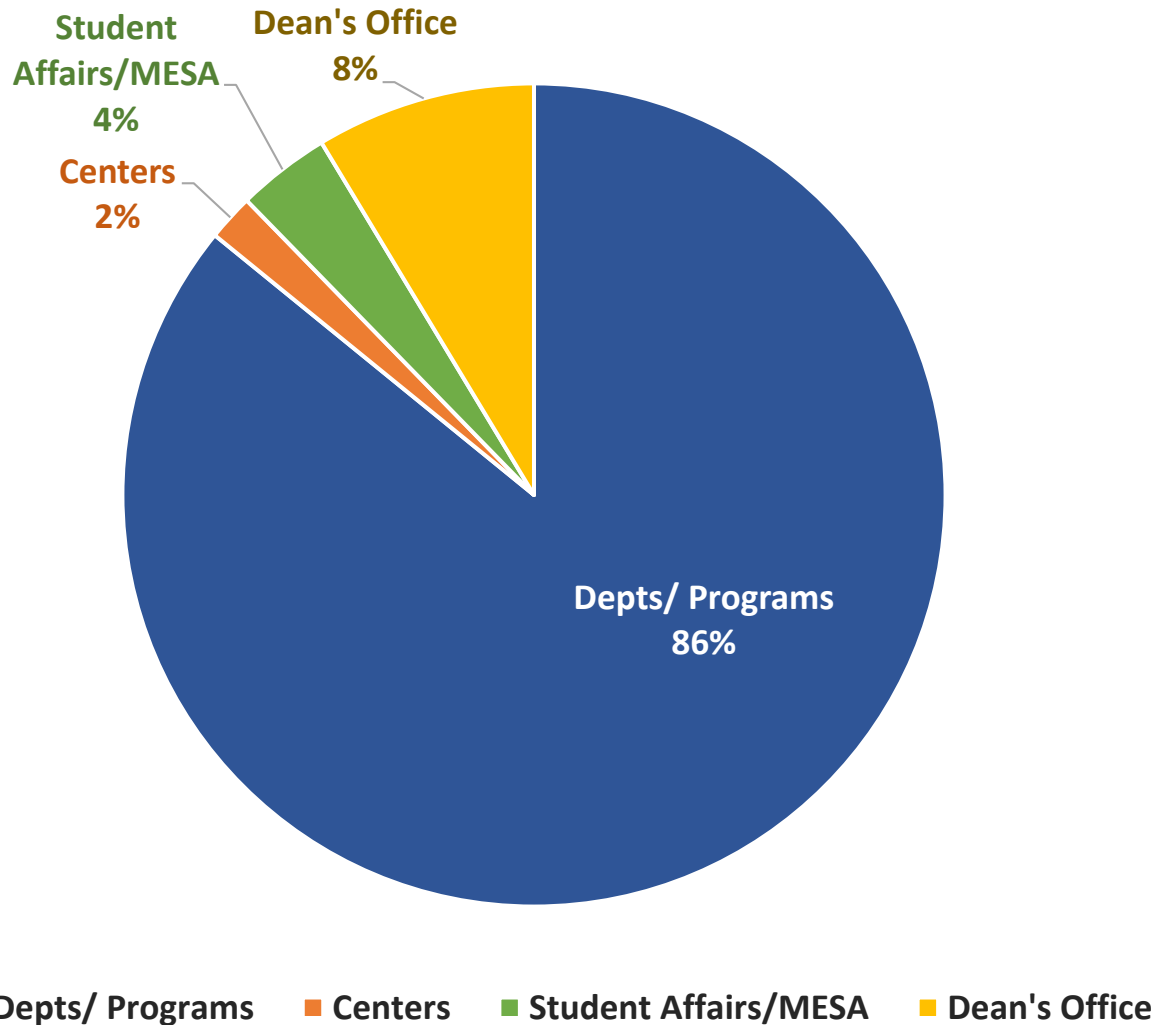
TBA**

ASSOC. DEAN JAY FARRELL



- **Addressing needs** of tenure track faculty, research faculty, and LSOEs
- Coordinating, evaluating and improving the **academic personnel merit and promotions process**
- **Advising the Dean** on academic files and hiring
- Collaborating with departments on **award nominations**
- Developing and leading **faculty development programs**

BCOE BUDGET ALLOCATIONS



Budgetary Items	Total
Faculty Salaries/Benfits	18,352,039
Lecturers	1,319,917
Staff Salaries/Benefits	6,119,244
TA-ships	2,901,561
GSRs	344,692
Supplies/Services, etc.	364,738
ICR	264,999
Initial Comp Funding	1,719,120
GPP	615,400
MSNRT	536,121
Summer Session	144,900
Faculty PC Replacement	34,800
Faculty Recruitment	91,206
Instruc. Equipment	208,732
Grad Stdnt Recruitment	93,256
Match/Retention/IAA	583,677
Conf. Room usage	66,800
Other	442,769
Grand Total >	34,203,971

EXTERNAL RELATIONS TEAM



Jun Wang

Asst. Dean of Strategic
Initiatives



Jed Schwendiman

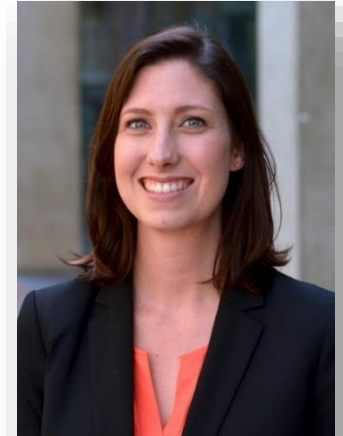
Sr. Director of Development

Development:
BCOE Asst. Director
Status: Underway



Mike Allen

Assoc. Director of Corporate
Strategic Partnerships



Angela Meluski

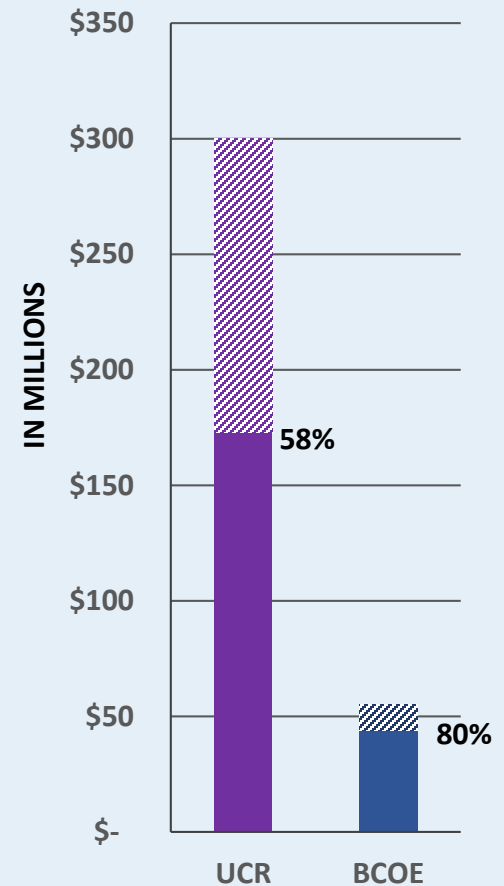
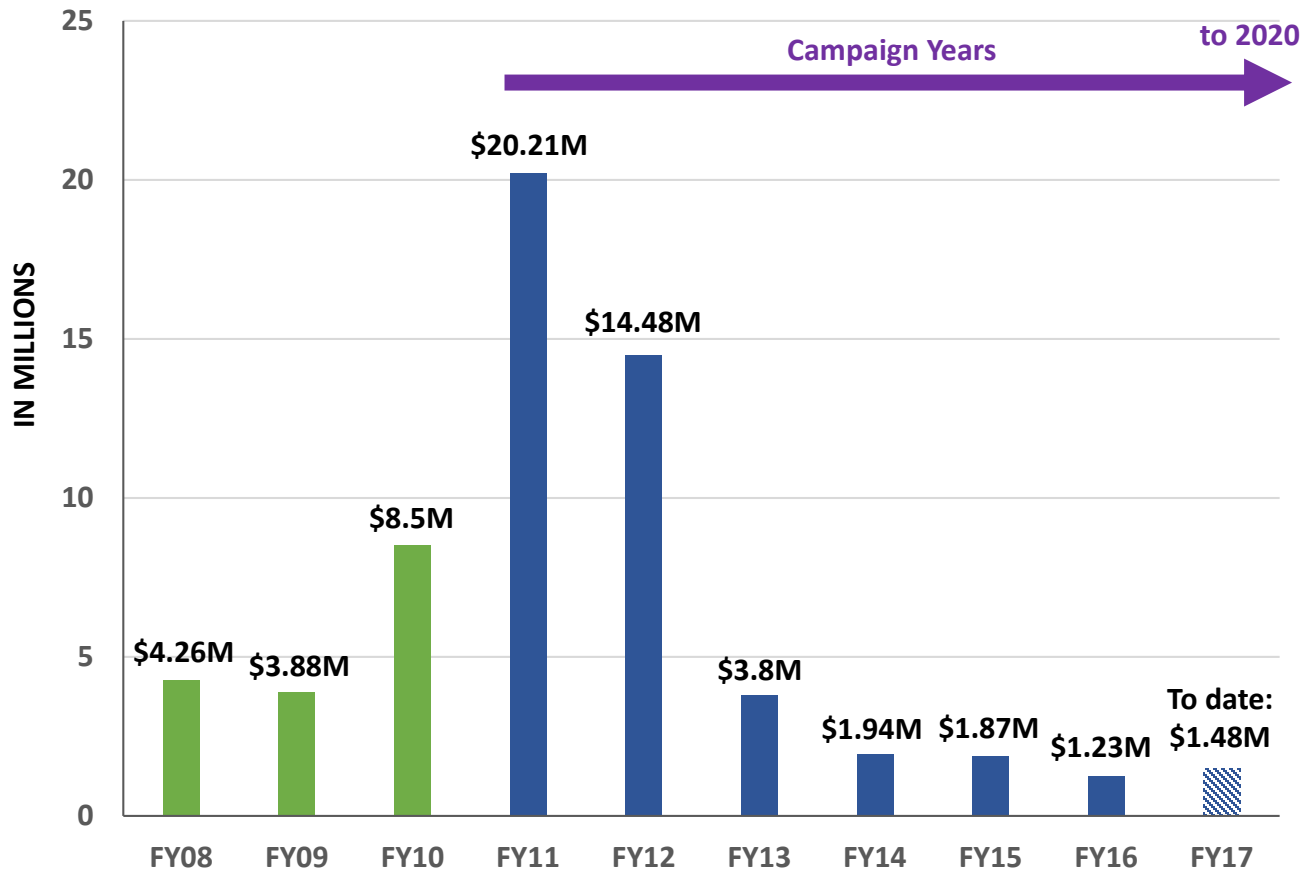
Sr. Marketing &
Communications Manager

GIFTS & CAMPAIGN

LIVING THE PROMISE

THE CAMPAIGN for UC RIVERSIDE

Totals by Fiscal Year



NOTEWORTHY GIFTS

Korea Institute of Materials Science - KIMS

- **Unrestricted seed funding** for proof of concept research
- Innovative materials for **energy and the environment**
- **Collaboration** between UC and KIMS

Dean's Innovation Fund

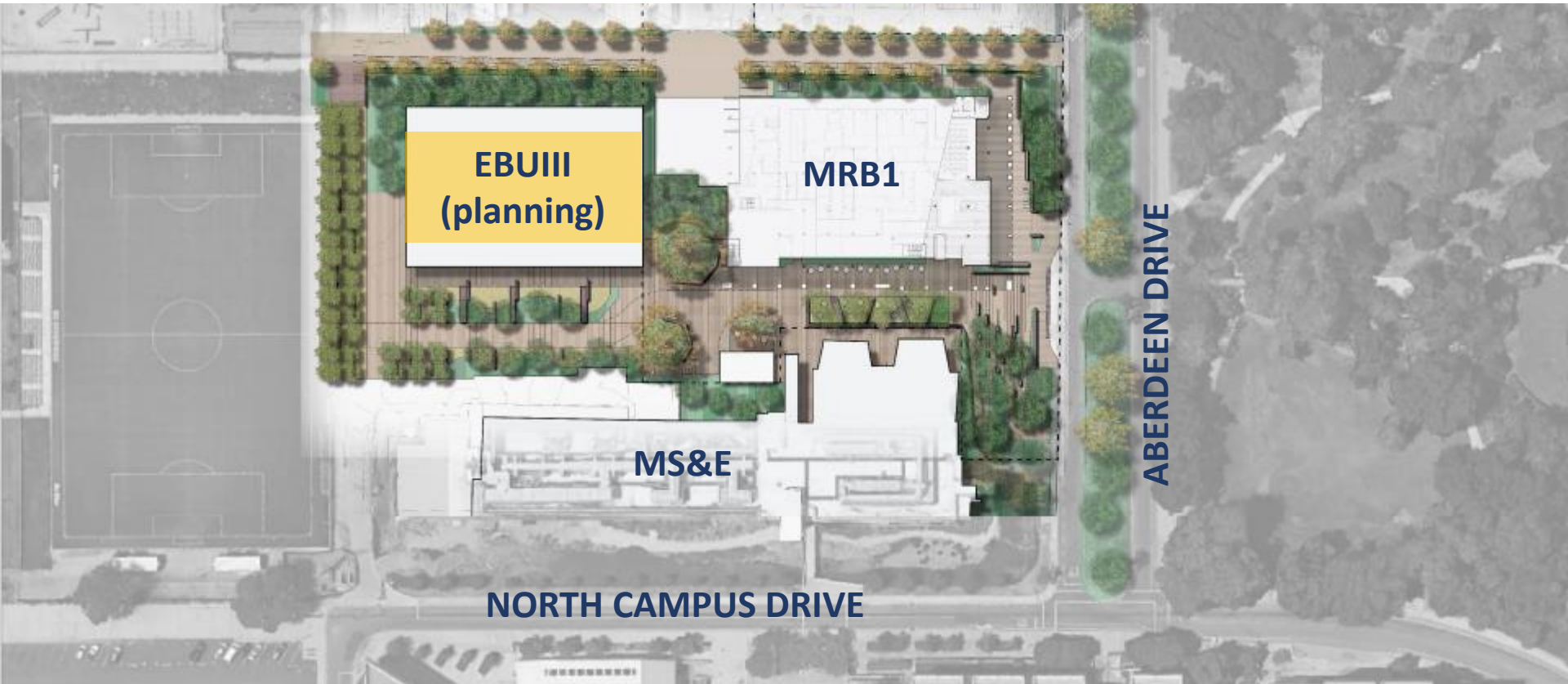
- Initial gift from **Susan Hackwood** toward **seed funding** for innovative, strategic projects
- **Support** for research projects, leadership development, and student educational experiences
- **Assist** with faculty retention, acquisition of new equipment, brand development and strategic planning

Reza Abbaschian Endowed Distinguished Lecture Fund

- **World-class speakers**
- **Enhance knowledge-base and experience** of faculty and students in engineering
- Open to **UCR and Riverside community**



ENGINEERING BUILDING UNIT III



ENGINEERING BUILDING UNIT III

Funding Solution

Philanthropic Donation OR Public-Private Partnership (PPP)

Current Situation

Approved and supported by

- Chancellor
- Provost
- VC of Planning and Budget

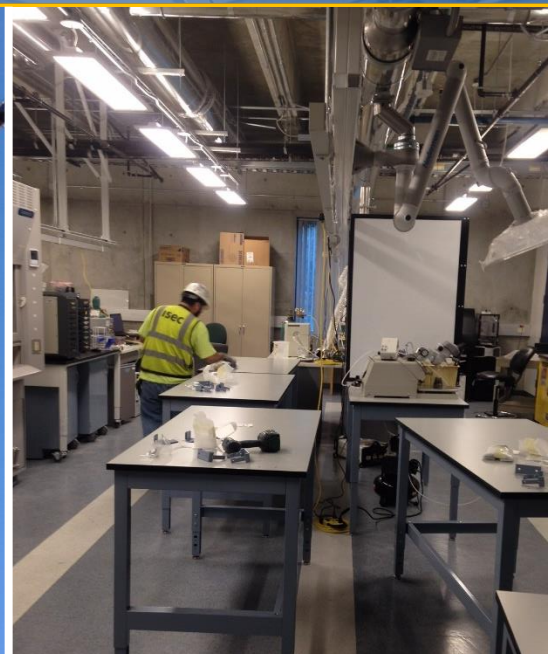
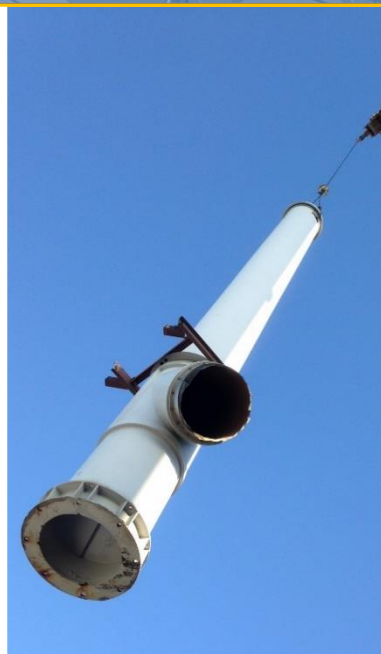
Early conversations with
potential Private Partners

Total GSF: 91,525 SF

Total ASF: 54,000 SF



BOURNS HALL B REMODEL



BOURNS HALL B REMODEL

Cost: \$13M
Approx. 27,000 asf

28 labs
(26 dry, 2 wet)

18 wet
6 dry
4 labs combined =
2 larger wet labs



Improvements

- ✓ **LEED** certification
- ✓ Increased **wet lab** space
- ✓ Addition of **fume hoods** and **sinks**
- ✓ Upgraded and expanded distribution of **research-appropriate power**
- ✓ Lab air **re-piping** and quality improvements
- ✓ **HVAC** system improvements
- ✓ **Photovoltaic** roof panel installation

Start
July 28, 2016

Phase 1

Phase 2 COMPLETE

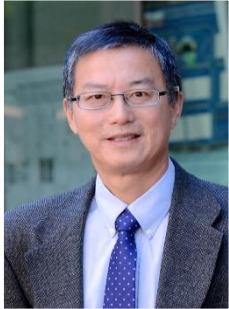
Phase 3

Complete
March 17, 2017

QUESTIONS?



THANK YOU DEPT. & PROGRAM CHAIRS



Bioengineering

Xiaoping Hu



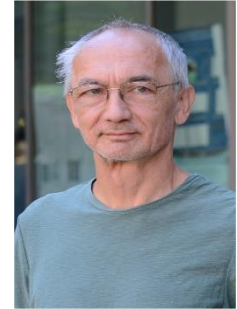
Chemical & Environmental
Engineering

Nosang Myung



Computer Engineering

Walid Najjar



Computer Science & Engineering

Marek Chrobak



Electrical & Computer Engineering

Jay Farrell



Masters of Engineering Online

Kambiz Vafai



Materials Science & Engineering

Ashok Mulchandani



Mechanical Engineering

Guillermo Aguilar

THANK YOU CENTER DIRECTORS



CE-CERT

Matt Barth



SC-RISE

Alfredo Morales Martinez



WCGEC

Reza Abbaschian



POEM and CNSE

Alex Balandin



CRIS

Bir Bhanu



UC-LIGHT

Albert Wang



UCR CAN

Xiaoping Hu

THANK YOU SENATE COMMITTEE SERVICE

BIEN

Jiayu Liao

Library, Information
Technology & Scholarly
Communication

Kaustabh Ghosh

Research

Hyle Park

Graduate Council

CEE

David Cocker

Planning & Budget

David Kisailus

Committee on Courses

Ian Wheeldon

Committee on Charges

Jianzhong Wu

Privilege & Tenure

CSE

Rajiv Gupta

Academic Personnel & Grievance
Consultation

Tao Jiang

Preparatory Education

Srikanth Krishnamurthy

Committee on Committees

Nael Abu-Ghazaleh

Privilege & Tenure (Chair) &
Academic Freedom

Tom Payne

Faculty Welfare

Michalis Faloutsos

Scholarships and Honors

Mike Pazzani

Research

Mart Molle

Undergraduate Admissions

Christian Shelton

Planning & Budget (Chair) &
Executive Council

Vassilis Tsotras

Educational Policy

KK Ramakrishnan

Research

Walid Najjar

Undergraduate Admissions

ECE

Matt Barth

Physical Resource Planning

Ertem Tuncel

Committee on Committees

Daniel Wong

Library, Information
Technology & Scholarly
Communication

Amit Roy Chowdhury

Graduate Council (Vice Chair)

Elaine Haberer

Educational Policy

Albert Wang

Memorial Resolutions

ME

Suveen Mathaudhu

Diversity & Equal Opportunity

Tom Stahovich

Executive Council

Marko Princevac

Preparatory Education (Ex
Officio)

Kambiz Vafai

Resolutions & Jurisdiction
(Chair)

THANK YOU SEARCH COMMITTEE SERVICE

BIEN

Bahman Anvari Chair
Victor Rodgers
Kaustabh Ghosh
William Grover
Xiaoping Hu
Jiayu Liao
Huinan Liu
Dimitrios Morikis
Jin Nam
Hyle Park
Jerome Schultz
Valentine Vullev

PDEF

Victor Rodgers Chair
Ruoxue Yan
Hamed Mohsenian-Rad
Masa Rao
Heng Yin

Data Science Cluster: Big Data in Astronomy

Vassilis Tsotras Chair
Christian Shelton

Data Science Cluster: Genome Data Science

Vassilis Tsotras Chair
Christian Shelton

Data Science Cluster: Statistical Approaches to Big Data

Vassilis Tsotras Chair
Christian Shelton

Human Neuroimaging Cluster

B. Hyle Park Chair
Amit Roy-Chowdhury
Tamar Shinar

Cyber Security Cluster

KK Ramakrishnan Chair
Stefano Lonardi
Nael Abu-Ghazaleh
Jiasi Chen

Computational Materials Cluster

Roger Lake Chair
Elaine Haberer
Alex Balandin
Sinisa Coh
Peter Greaney
Mihri Ozkan

CEE

David Cocker Chair
David Jassby
Matt Barth
Jianzhong Wu
Charles Wyman

FELLOWS & ACHIEVEMENTS

Fellows

Reza Abbaschian

Honorary AIME Member

Laxmi Bhuyan

Life Fellow IEEE

Charles Wyman

AICHe Fellow

Amit Roy-Chowdhury

IAPR Fellow

Jianzhong Wu

AICHe Fellow

Stefano Lonardi

ACM Distinguished Scientist

IEEE Fellow

Sharon Walker

AEESP Fellow

Bahman Anvari

BMES Fellow

Wei Ren

IEEE Fellow



The Engineers' Council

Guillermo Aguilar

Distinguished Achievement Award

Mihri Ozkan

Distinguished Achievement Award

Zizhong “Jeffrey” Chen

Outstanding Engineering
Achievement Merit Award

William Grover

Future Technology Leader Award

Suveen Mathaudhu

Outstanding Achievement Merit
Award

Hyle Park

Outstanding Engineering
Achievement Merit Award

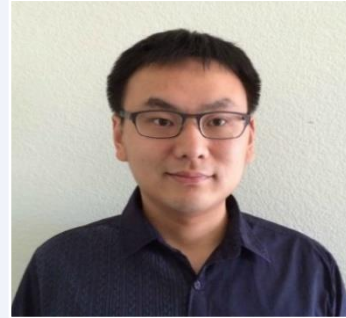
ACHIEVEMENTS: CAREER AWARDS



Haizhou Liu



Ming Liu



Zhiyun Qian



Hideaki Tsutsui



Ruoxue Yan



Out of the 10
UC campuses, UCR is
tied with UC Berkeley
for the

**HIGHEST
NUMBER**

of active
NSF CAREER awards

ACHIEVEMENTS

Alex Balandin

Thomson Reuters

Highly Cited Researcher
(h-index of 75, 30,989 total citations)

Matt Barth

IEEE ITS Society Outstanding
Research Award

Frank Vahid

UCR Academy of Distinguished
Teachers

Jay Farrell

Vice President, American Automated
Control Council

Sheldon Tan

Editor-in-Chief of
Integration, the VSLI Journal

MSOL Top Lecturer

Wei Ren

Thomson Reuters

"Most Influential Scientists" &
Honored Alumnus Award, BYU ECE Dept.

Bryan Wong

DOE Early Career Award &
ACS Outstanding Junior Faculty Award

Mihri Ozkan

"Climate Global Finalist" at Climate
Launchpad 2016

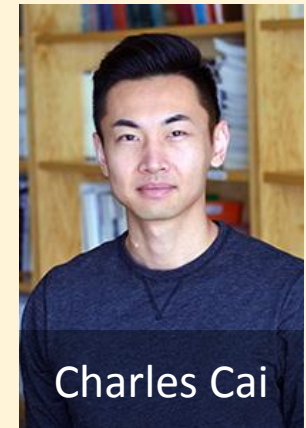
Guoyuan Wu

Finalist, Best of ITS America Awards
"Wheels and Things"

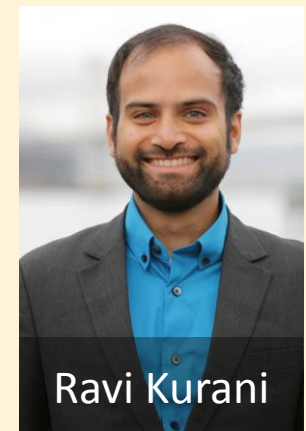
Zak Kassas

Associate Editor for IEEE Transactions
on Aerospace and Electronic Systems

Tom Fryer



Charles Cai



Ravi Kurani

OUTSTANDING PAPERS



Fabio Pasqualetti

IEEE Transactions on Control
of Network Systems

Outstanding Paper Award

“Controllability Metrics, Limitations and
Algorithms for Complex Networks”

**Nael Abu-Ghazaleh &
Israat Tanzeena Haque**
IEEE ICNP Conference

Zak Kassas

ION GNSS Conference

Two Best Paper Presentation Awards

Qi Zhu

53rd Annual Design

Automation Conference

“Security-Aware Design Methodology
and Optimization for Automotive
Systems”

Hyoseung Kim

Nominated at EMSOFT

“Real Time Cache Management for
Multi-Core Virtualization”

Dr. Guanxiong Liu (POEM)

SRC-DARPA Project Review
and Workshop

Best Poster Award for 2-D Materials

IN THE NEWS

**Charles Cai & Charles
Wyman w/ ORNL**
JACS

**"Local Phase Separation of Co-solvents
Enhances Pretreatment of Biomass for
Bioenergy Applications"**

Alex Balandin Group
U.S. Department of Energy

Dr. Mahesh R. Neupane
Roger Lake Group Alumni
U.S. Army Research Lab

Zak Kassas
**IEEE Signal Processing Magazine, ACM.org, Science
Magazine, Cnet.com, GPS World, Yahoo!, ScienceDaily.com,
and dozens more!**
"Non-GPS Navigation for UAVs and Ground Vehicles"

Wei Ren
**IEEE Control Systems
Magazine**



COVER FEATURES

Nature
Co-Author: Stefano Lonardi

GPS World Magazine
Author: Zak Kassas

**Journal of Chemical
Information & Modeling**
Author: Dimitrios Morikis w/ Zeid Gaieb

Journal of Physical Chemistry Letters
Author: Kelley Barsanti & Team

**IEEE Transactions on
Image Processing**
Author: Asongu Tambo and w/ Bir Bhanu

MAJOR AWARDS

Matt Barth

ARPA-E: \$3.2M

Smart Buses

Eamonn Keogh

NSF NRT: \$1.9M

Graduate training program in
computational entomology

Shane Cybart

MRPI: \$1.9M

Sensors transporting electrical
currents through high-temperature
superconductors

Daniel Wong & Nanpeng Yu

CEC: \$1.8M

Energy efficiency, demand response
in smart power distribution systems

Nanpeng Yu

CEC: \$1.12M

With Lawrence Livermore National
Laboratory on smart grids

Qi Zhu

NSF: Nearly \$1M

Cyber-Physical Systems grants

Elisa Franco

DOE & DARPA: Nearly \$1M

DNA nanostructures, Closed-loop
RNA-based PID control



GRADUATE STUDENT SUCCESS

Joe Khalife

Riverside Campus NCST
Outstanding Graduate Student of
the Year

Joe Khalife & Kimia Shamer

Best Student Paper Award in
IEEE/ION PLANS 2016 Conference

Joshua Morales & Paul Roysdon

Best Paper Presentation Award at
ION GNSS+ 2016

Danyang Tian & Fei Ye

Women in Transportation
scholarships totaling \$8K

Ahmed Darki

Best Paper Award at ACM CoNext
2016 Student Workshop

Brian Estrada & Maher Zaher & Mohammed Taymour

Guthrie Award

Jiacheng Yang

William R. Pierson/Ford Graduate
Fellowship

Partho Roy

Colin E. Hackett Endowed
Engineering Research Award

Robert Espinoza

Ford Undergraduate Scholarship
Award

Yu Jiang

Esther F. Hayes Graduate
Fellowship Award

Patrick Roth & Priyanka Singh & Jiacheng Yang

Hays Award

Xuwei Qi (1st) & Lijie Li (2nd)

Southern California Chinese
American Environmental
Protection Association Awards

Thomas Dugger & Melina Fuentes- Garcia & Sarah Allec

NSF GRFP Fellowships

Ninad Kothari

Pierson Award

UC-Light

Three NSF IRES undergraduate
papers presented at SCCUR

Matthew Ealy

Ford UG Award

Drew Story

AAAS Poster Competition; Feature
in Science

Hira Yoshihara

Terry McManus Outstanding
Student Award

Fei Ye

Hackett Award

Fariborz Kargar

SHINES Best Poster Award

**Graduate student
faculty appointments**



UNIVERSITY of
HOUSTON



WEDDINGS AND BABIES – OH MY!



WEDDINGS

DANIEL WONG – ECE

HAIZHOU LIU – CEE



BABY BOOM!

CEE

CSE

ECE

ME

MSE

III

I

III

I

I

CONGRATS

Ruoxue & Ming

Elaine & Masa

Tamar S.

Christina G.

Yanran L.

Salman A.

Sharon W.

DISTINGUISHED TEACHING AWARDS

Honors outstanding faculty who are committed to **advancing the teaching profession** and **engaging students through innovation**.

Award Selection Committee

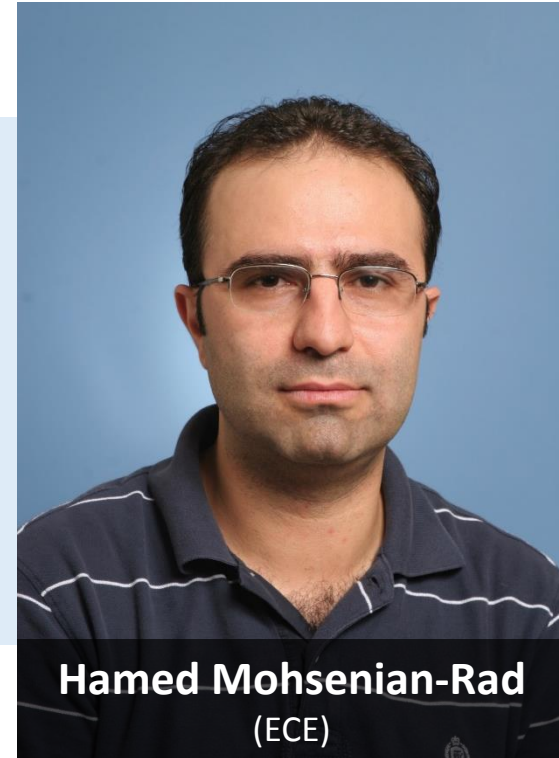
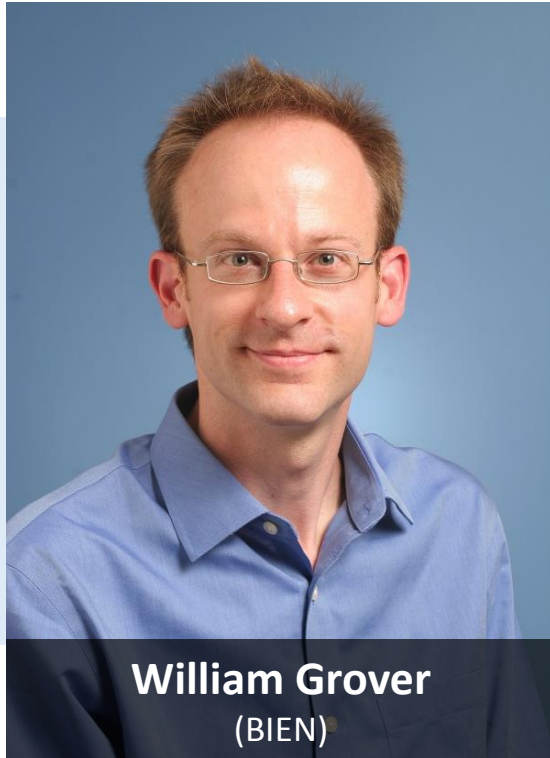
Made up of previous winners

David Cocker
Michalis Faloutsos
Ilya Dumer
Eamonn Keogh
Vassilis Tsotras

Honorable Mentions

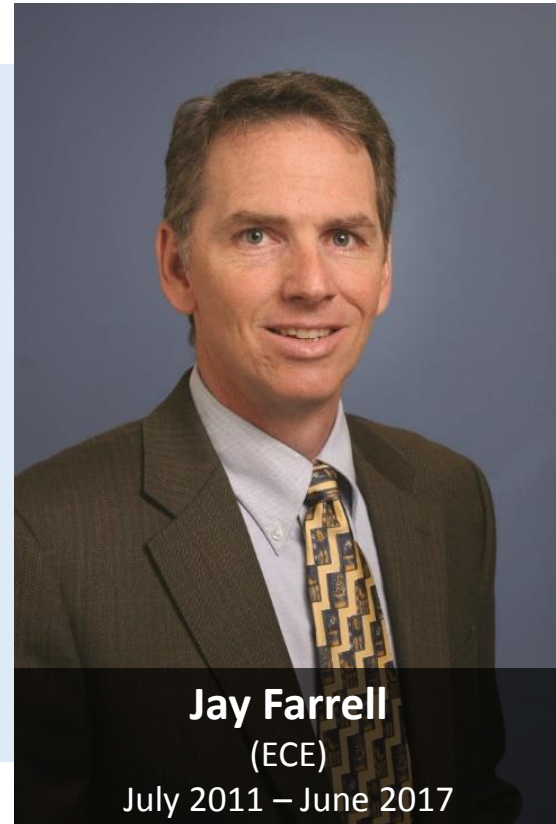


DISTINGUISHED TEACHING AWARD WINNERS



“Both Hamed and William share exceptional levels of teaching, many extracurricular activities and highly innovative teaching techniques.”

DISTINGUISHED SERVICE AWARDS



THANK YOU

BCOEDEAN@ENGR.UCR.EDU