UCR | Marlan and Rosemary Bourns College of Engineering



COLLEGE RANKING

U.S. News & WORLD REPORT

No. 61

No. 67 last year

Considering public and private universities, we are tied with:

UT DALLAS

University at Buffalo
The State University of New York

LEHIGH UNIVERSITY

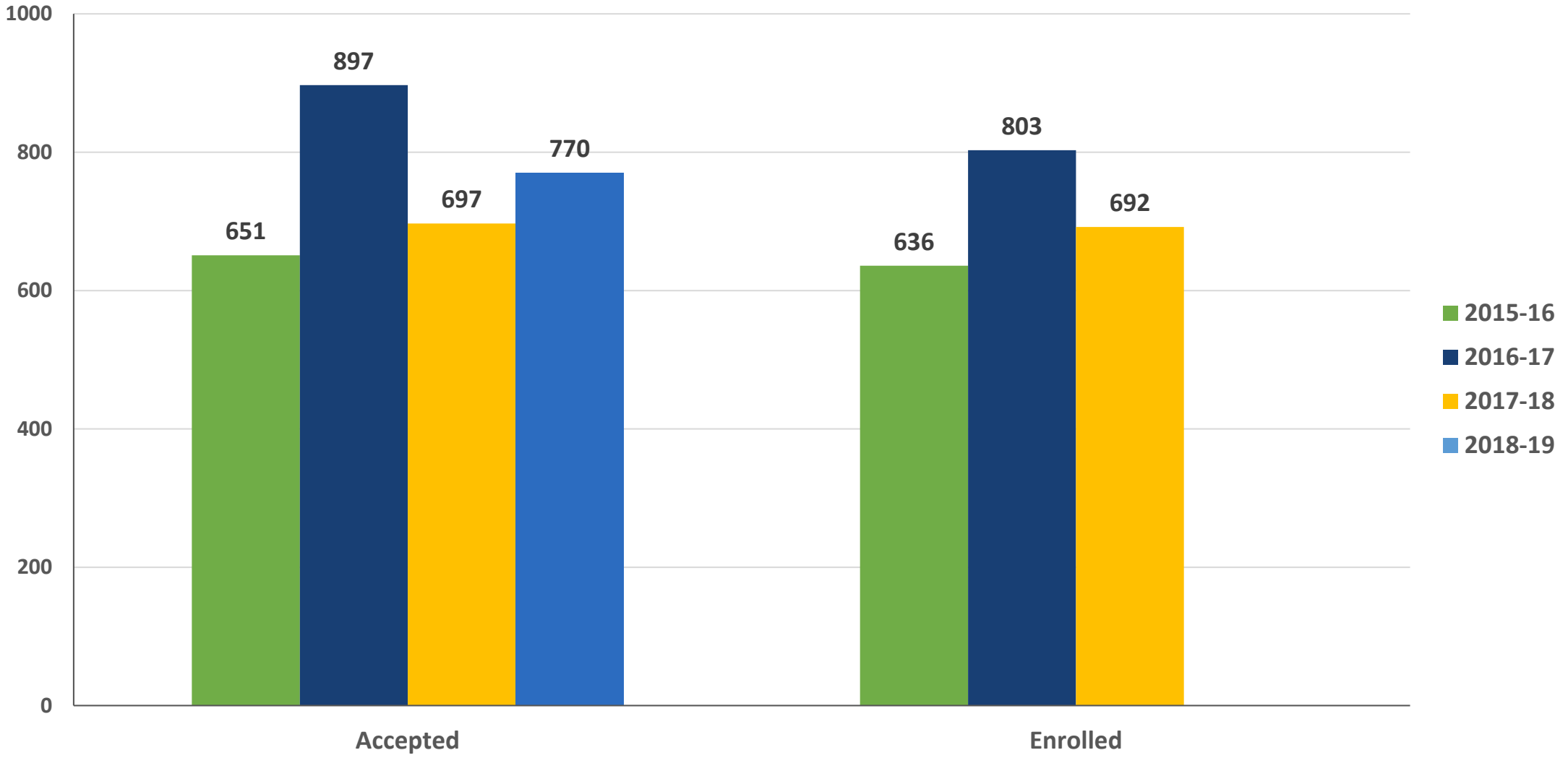
No. 33

Among public engineering colleges

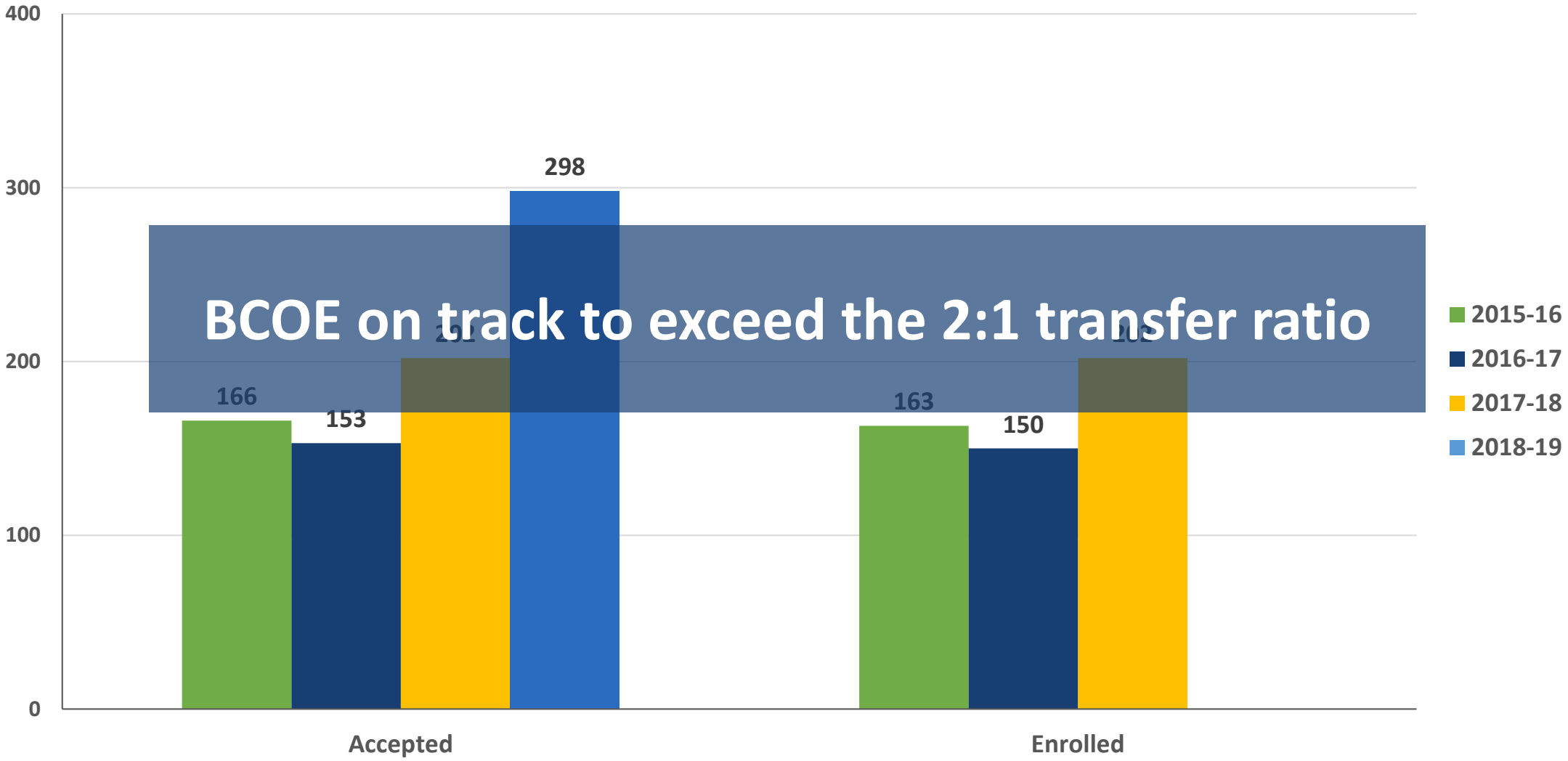
Top 5

Hispanic-serving public engineering colleges in the U.S.

UNDERGRAD AND TRANSFER STUDENTS

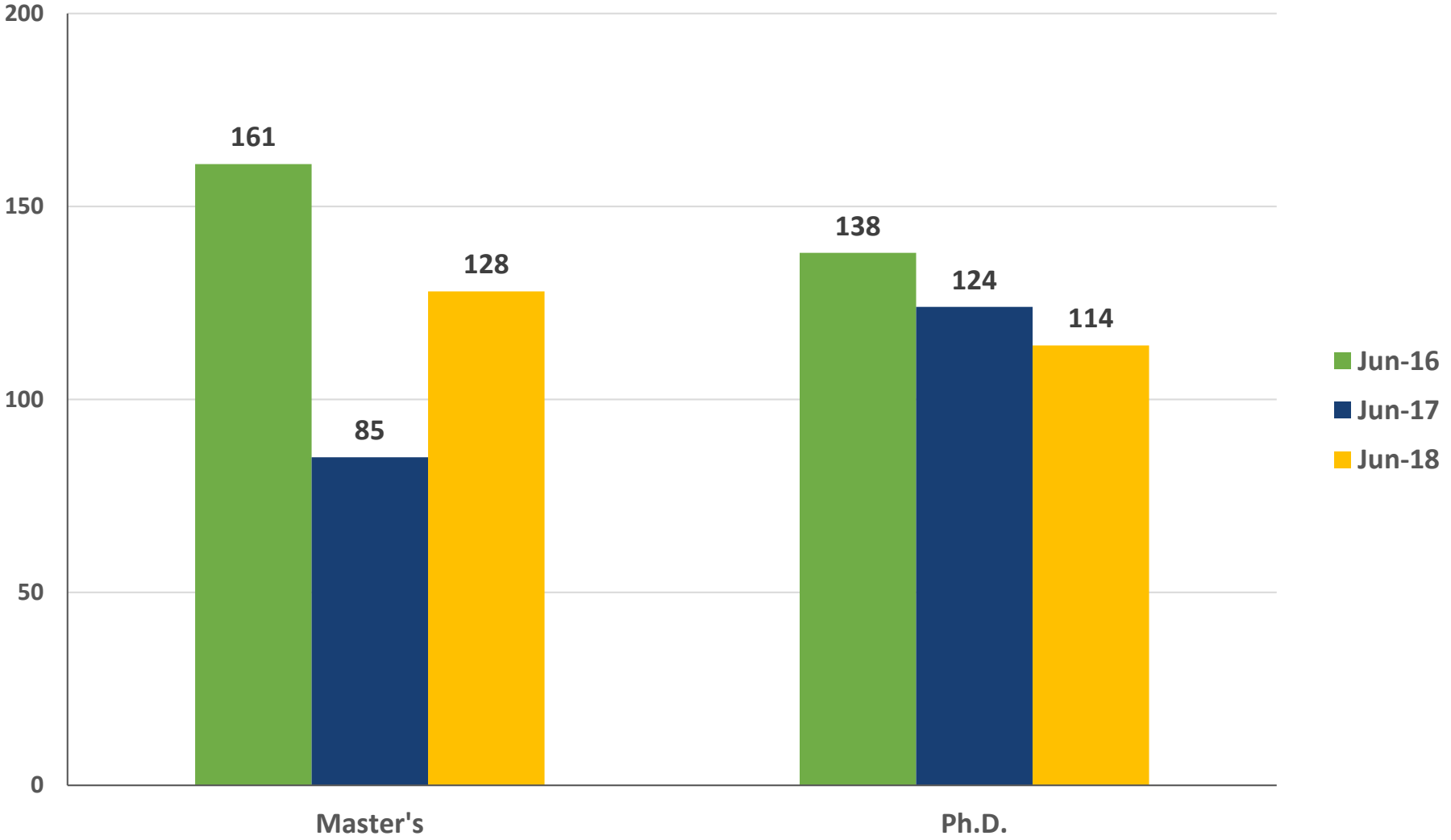


TRANSFER STUDENTS

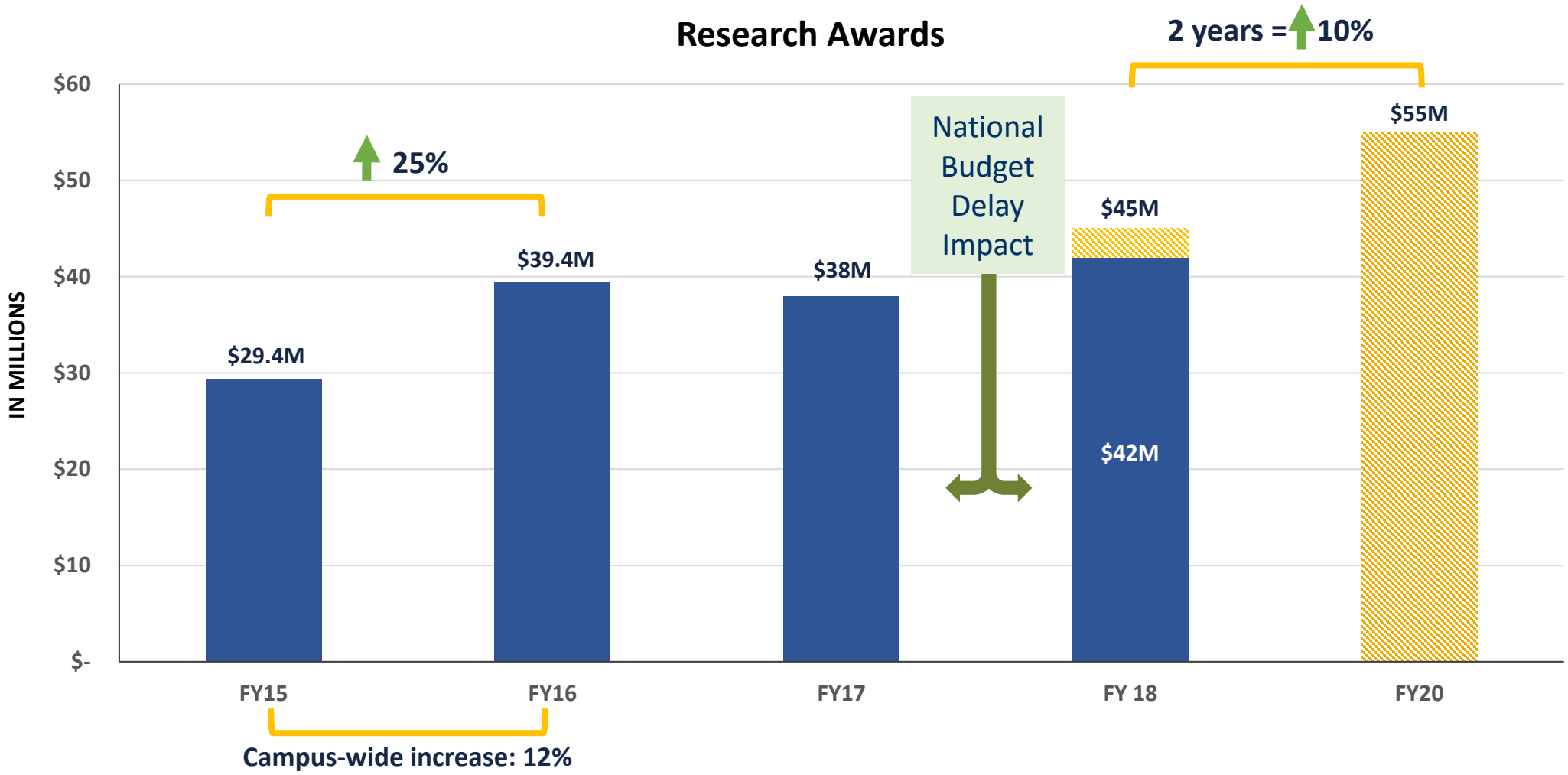


BCOE on track to exceed the 2:1 transfer ratio

GRADUATE STUDENTS



GRANT OVERVIEW



NEW FACULTY SO FAR...



Dean, BCOE

Christopher Lynch



Asst. Professor, BIEN

Giulia Palermo



Asst. Professor, ME

Bhargav Rallabandi



Asst. Professor, ME

Luat Vuong



Asst. Professor, ECE

Ran Cheng



Assoc. Professor, CSE

Manu Sridharan



LSOE, CSE

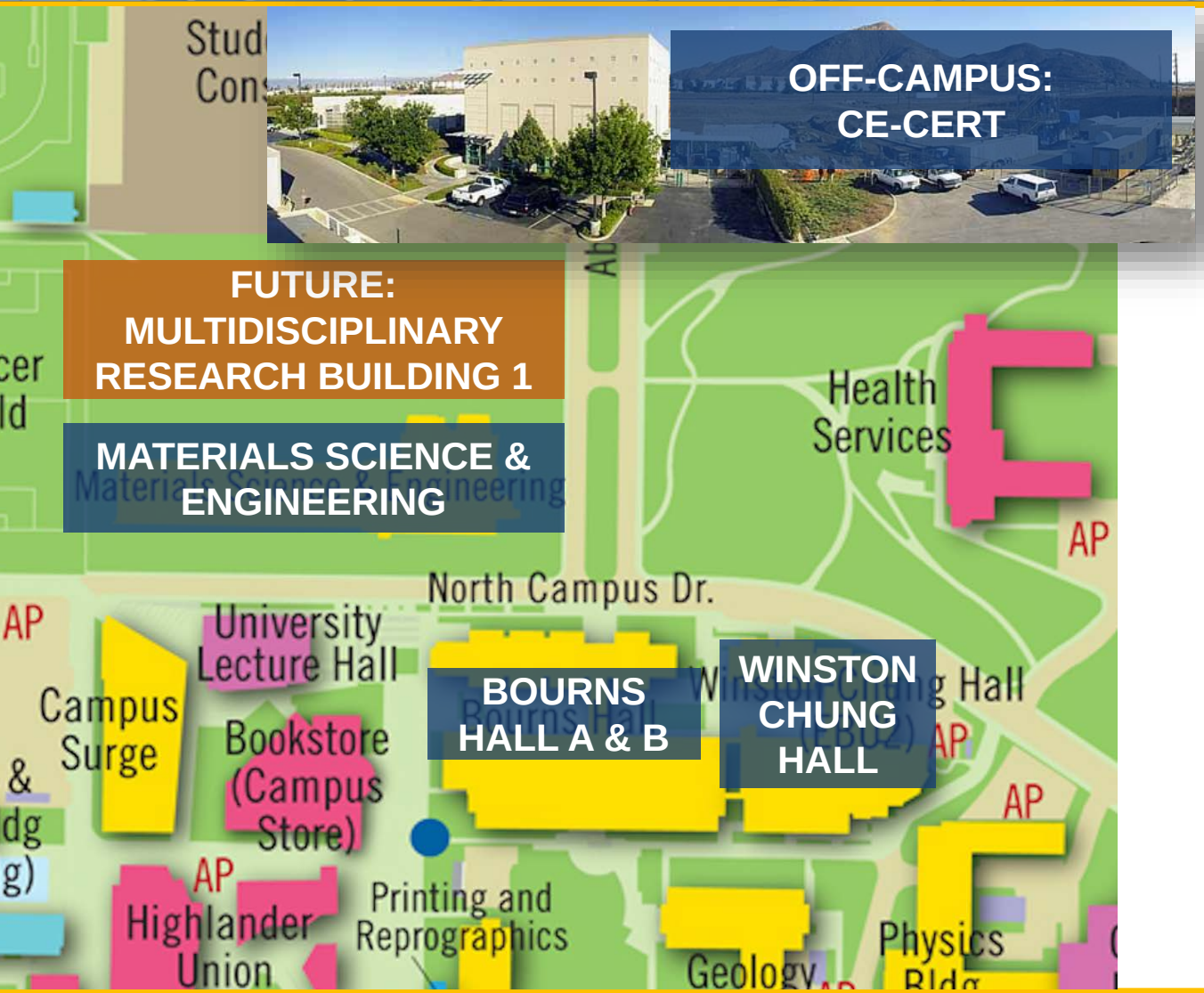
Paea LePendu

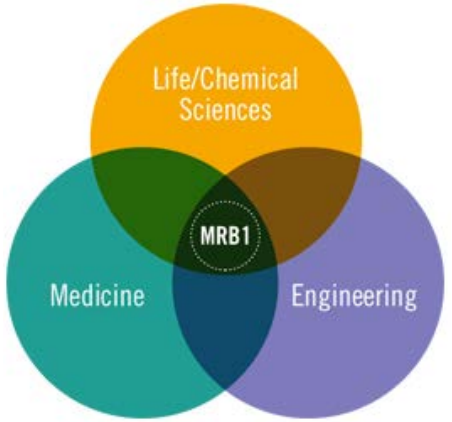


LPSOE, CSE

Mariam Salloum

INFRASTRUCTURE: ENGINEERING FOOTPRINT





Engineering:
6 of 8
MRB1 Teams

Data Science Center	Environmental Toxicology Group	**Food, Bugs, Guts & Brains**
Imaging	Interdisciplinary Center for Quantitative Modeling in Biology	**Mind & Brain Health: Neuroinflammation, Neurotrauma & Neurodegeneration**

Molecular, Circuit & Behavioral Mechanisms of Neurodevelopment Disorders	**Systems Biology of Infectious Disease**

NEW EFILE

MAIN GOAL

- **Enhanced usability by faculty and staff**
  - Better user interface
  - Ex. Import using DOI

TIMELINE

- **Coming online summer 2018**
- **Current faculty info ported from old efile, except those with an active action during AY17/18, who will be ported later**

SPECIAL THANKS

WALID NAJJAR

One of three faculty members serving on the design and consultation committee

COUNCIL OF ADVISORS: CONTINUING MEMBERS



Chairman & CEO
Bourns, Inc.

Gordon Bourns



Physician

Ernest Levister



Chairman
Winston Chung Global Energy

Winston Chung



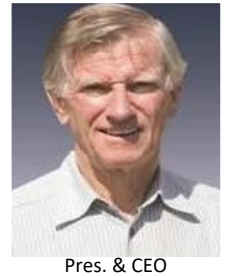
Sr. Consultant
Innoval Technology

Michael Clinch



Vice Provost
Stevens Institute of Tech

Mo Dehghani



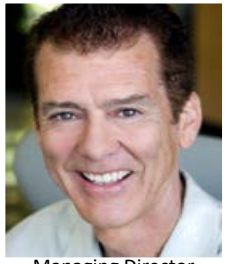
Pres. & CEO
Johnson Machinery

William Johnson



Chairman, CEO & President
RBC Bearings, Inc.

Michael Hartnett



Managing Director
Cloud Strategies

David Key



Chairman
Krieger & Stewart Inc.

Bob Krieger



Manager
Arcadis

Carole Sanders



Retired
Boeing

Thaddeus Sandford

COUNCIL OF ADVISORS: NEW MEMBERS



General Affairs Manager
Delta Electronics, Ltd.

Ruth Chao



Chief Innovation Officer
City of Riverside

Lea Deesing



Chairman, CTO
Luminex Software

Brian Hawley



Visiting Scholar
UCR

Nora Hackett



Executive Vice President
SolarMax Technology, Inc.

Ching Liu



Founder & CTO
Versium Analytics, Inc.

Kevin Marcus



Research Assoc. Professor
Hampton University

Eric Sheppard



President & CEO
B&K Precision Corp.

Victor Tolan



President
Trussell Technologies

Shane Trussell



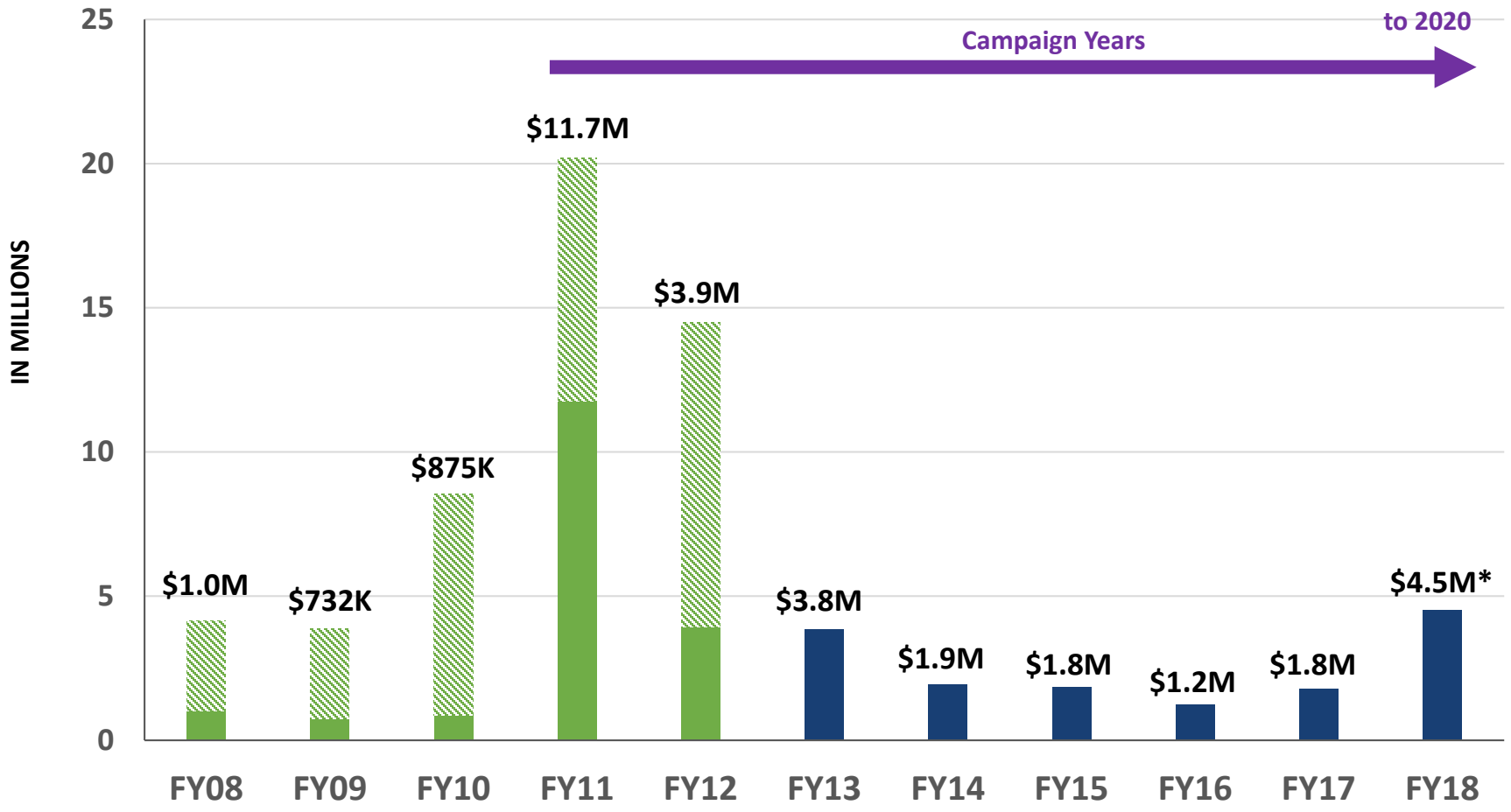
Co-Managing Partner
Vinson & Elkins LLP

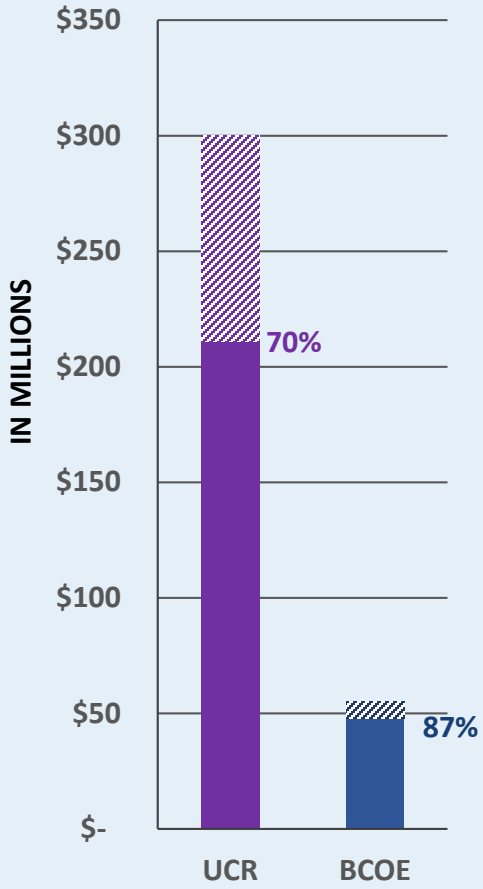
David Tsai

DEVELOPMENT: GIFTS AND CAMPAIGN

LIVING THE PROMISE
THE CAMPAIGN for UC RIVERSIDE

Totals by Fiscal Year





GOAL: $300M BY 2020

*Fiscal year ends June 30, 2018

NOTEWORTHY GIFTS

Everett and Imogene Ross Term Chair in Computer Science
Ross Family Term Chair in Computer Science

- Gift from **Estate of Everett and Imogene Ross**, neighbors of Bourns family
- Two **term chairs** in computer science, match provided by CSE
- **Three-year term** renewable one time for a total of up to six years



Allen Van Tran Endowed Student Award in Engineering Fund

- **Youngest UCR alum** to establish an endowment
- Scholarship supporting **undergraduate and/or graduate students**
- **Follow the example** set by donors who created scholarships that supported him



NOTEWORTHY GIFTS

UCR-China Collaboration

- **$2M** over five years (part endowment, part current use)
- To increase the number of **sustained research collaborations** between BCOE faculty and top tier universities in China
- To develop **international educational opportunities** between UCR and China
- To help **bridge the divide between industry and academia** across the two countries

Winning Proposals for 2018:

Juchen Guo
(with Nanpeng Yu and David Wong)
$37,500

Eamonn Keogh
$25,000

Huinan Liu
$37,500

Vagelis Papalexakis
$35,000

Albert Wong
$35,770

AVL

- Gift helped develop the **Mobile Emissions Lab** at CE-CERT
- Included emissions testing **instrumentation and software**



QUESTIONS



THANK YOU
DEPARTMENT AND PROGRAM CHAIRS



Bioengineering

Xiaoping Hu



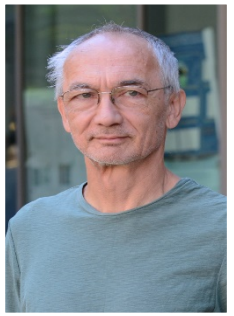
Chemical & Environmental Engineering

Charles Wyman



Computer Engineering

Walid Najjar



Computer Science & Engineering

Marek Chrobak



Electrical & Computer Engineering

Ilya Dumer



Masters of Engineering Online

Kambiz Vafai



Materials Science & Engineering

Ashok Mulchandani



Mechanical Engineering

Guillermo Aguilar

THANK YOU
CENTER DIRECTORS



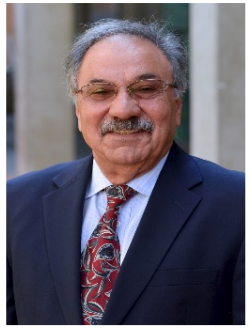
CE-CERT

Matt Barth



SC-RISE

Alfredo Morales Martinez



WCGEC

Reza Abbaschian



CNSE and POEM

Alex Balandin



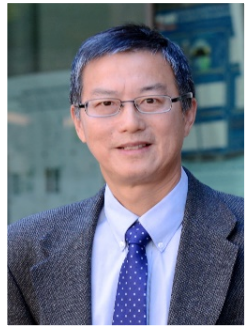
CRIS

Bir Bhanu



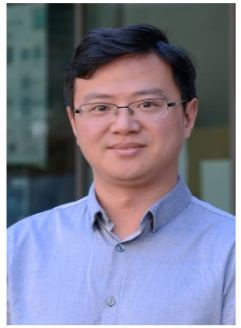
UC-LIGHT

Albert Wang



UCR CAN

Xiaoping Hu



CRESP

Heng Yin

THANK YOU
SENATE COMMITTEE SERVICE

BIEN

Jiayu Liao
Library, Information Technology & Scholarly Communication (Chair)

Victor Rodgers
Committee on Committees

Hyle Park
Graduate Council (Vice Chair)

CEE

Ian Wheeldon
Committee on Charges

Jianzhong Wu
Privilege & Tenure

CSE

Rajiv Gupta
Academic Personnel (Vice Chair) & Grievance Consultation

Tao Jiang
Preparatory Education

Srikanth Krishnamurthy
Committee on Committees

Nael Abu-Ghazaleh
Privilege & Tenure

Stefano Lonardi
Faculty Welfare & Ad Hoc Committee on Student Evaluation of Teaching (Chair)

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
University Extension

Eamonn Keogh
Graduate Council

Thomas Payne
Faculty Welfare

Chinya Ravishankar
Special Review on BSAD Major Proposal

ECE

Matt Barth
Physical Resource Planning

Nanpeng Eric Yu
International Education

Amit Roy Chowdhury
Committee on Research (Chair)

Elaine Haberer
Educational Policy

ME

Heejung Jung
Committee on Courses

Suveen Mathaudhu
Diversity & Equal Opportunity (Chair)

Tom Stahovich
Executive Council

Marko Princevac
Preparatory Education (Ex Officio)

Kambiz Vafai
Resolutions & Jurisdiction (Chair)

Akula Venkatram
Planning and Budget

Reza Abbaschian
Memorial Resolutions

THANK YOU
SENATE COMMITTEE SERVICE

Joint Senate/Administrative Committees

Tom Stahovich
Ad Hoc Committee on Remote Learning, "Hybrid," and Online Courses (Chair)

Kambiz Vafai
Ad Hoc Committee on Remote Learning, "Hybrid," and Online Courses

Shaolei Ren
Graduate Academic Integrity Committee

Zhijia Zhao
Graduate Academic Integrity Committee

William Grover
R'Courses Governing Board

Phillip Christopher
Special Review Committee (Admissions by Exception)

Zizhong Chen
Student Services Fee Advisory Committee

Chinya Ravishankar
Transportation & Parking Services Advisory Committee

Systemwide Committees

Rajiv Gupta
Academic Personnel (UCAP)

Suveen Mathaudhu
Affirmative Action, Diversity, and Equity (UCAADE)

Hyle Park
Coordinating Committee on Graduate Affairs (CCGA)

Jiayu Liao
Library and Scholarly Communication (UCOLASC)

Christian Shelton
Planning and Budget (UCPB)

KK Ramakrishnan
Research Policy (UCORP)

THANK YOU
SEARCH COMMITTEE SERVICE

BIEN

Bahman Anvari Chair
Megan Peters
Kevin Freedman
William Grover
Dimitrios Morikis

Computer Engineering

Nael Abu-Ghazaleh Chair
Sheldon Tan
Matthew Barth
Laxmi Bhuyan
Philip Brisk
Daniel Wong

CEE

Juchen Guo Chair
Yanran Li
Robert Jinkerson

CEE: Air Quality or Climate

Kelley Barsanti Chair
David Cocker
Ian Wheeldon

CEE: Advanced Materials

Nosang Myung Chair
Ruoxue Yan
Juchen Guo
Ashok Mulchandani
Jin Nam

CSE: Prof. of Teaching

Evangelos Christidis Chair
Eamonn Keogh
Marek Chrobak
Stefano Lonardi
Walid Najjar

CEE: Water Quality

Haizhou Liu Chair
David Cocker
Ian Wheeldon

ECE: Prof. of Teaching

Ping Liang Chair
Elaine Haberer
Alexander Korotkov
Shaolei Ren
Nanpeng Yu

ME: Thermofluids

Masaru Rao Chair
Heejung Jung
Guillermo Aguilar
Monica Martinez
Marko Princevac
Hideaki Tsutsui
Richard Wilson

Computational Materials Cluster

Roger Lake Chair
Elaine Haberer
Sinisa Coh
Ming Liu
Mihri Ozkan

Phonon and Magnon Materials and Devices Cluster

Ruoxue Yan Chair
Alexander Korotkov
Roger Lake
Richard Wilson

NOTABLE AWARDS

NSF CAREER Awards



Kelley Barsanti



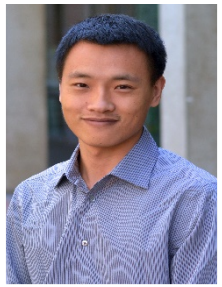
Juchen Guo



Zak Kassas



Chen Li



Zhijia Zhao

The Engineers' Council

Cengiz Ozkan
John J. Guarrera Engineering Educator Award

Charles Cai
Future Technology Leader Award

Matt Barth
Distinguished Achievement Award

Frank Vahid
Distinguished Achievement Award

Will Grover
Outstanding Engineering Achievement Merit Award

Eamonn Keogh
Outstanding Engineering Achievement Merit Award

NOTABLE AWARDS

Fulbright Awards



Sharon Walker

Ben-Gurion University of the Negev in Beersheva, Israel



Valentine Vullev

University of Sao Paulo in Brazil

NOTABLE AWARDS

BREAKING NEWS

Guillermo Aguilar

Member
National Academy of Engineering in Mexico

Academia de Ingeniería México



ACHIEVEMENTS

K.K. Ramakrishnan
ACM Fellow

Alex Balandin, Wei Ren, Charles Wyman
Most Highly Cited Researchers by Clarivate Analytics

Wei Ren
Named IEEE Control Systems Society Antonio Ruberti Young Researcher Prize

Nosang Myung
The Electrochemical Society
2018 ECS Electrodeposition Division Research Award

Kaustabh Ghosh
BrightFocus Foundation
Named "Featured Scientist"

Susan Hackwood
UCR
Edward A. Dickson Emeritus Professor

Kawai Tam
UCR
Chancellor's Award for Excellence in Undergraduate Research and Creative Achievement

Will Grover
UCR
2018 Junior Faculty Excellence in Teaching Award

Best Paper Awards

Vagelis Papalexakis
Misinformation and Misbehavior Mining on the Web
Best Paper

K.K. Ramakrishnan
MMSys and IEEE Transactions on Vehicular Technology
Best Paper

Hyoseung Kim
23rd IEEE International Conference on Embedded and Real-Time Computing Systems and Applications
Best Paper Award

Vagelis Papalexakis
ACM SIGKDD Dissertation Award Distinction

Ahmed Eldawy
SIGSPATIAL 2017
"Large Scale Analytics of Vector+Raster Big Spatial Data"

Zak Kassas
IEEE/ION PLANS 2018 Conference
"Precise UAV Navigation with Cellular Carrier Phase Measurements"

Nanpeng Yu
2nd International Conference on Green Communications, Computing and Technologies
Best Paper Award

Sharon Walker
AEESP Environmental Engineering science Journal
Best Paper Award

MAJOR AWARDS

Heng Yin
U.S. DOD: $4.68M
Help protect military software from hackers

Silas Richelson, Michalis Faloutsos, and Nael Abu-Ghazaleh
$3.6M
Smart Campuses

Hamed Mohsenian-Rad
U.S. DOE: $3.2M
New energy management prototype system

Kaustabh Ghosh
National Eye Institute: $1.9M
The role of retinal capillary stiffness in diabetic retinopathy

Dimitrios Morikis
NIH: $1.5M
Discovery of biomarkers for age-related macular degeneration

Heng Yin
ONR: $1.2M
Integrated perception and planning in mobile vision networks

STUDENT SUCCESS

Shivam Kardani, Mher Garibyan & Nolan Winicki
Chancellor's Research Fellowship Award

Drew Story
AAAS Fellowship

Vicente Robles
Ford Foundation Fellow

Shirin Haji Amin Shirazi, Saheli Ghosh, Wendy Li & Elise Lin
Awarded scholarships to attend the Grace Hopper Celebration Conference

Yan Zhu
Best Paper at ICDM 2017

Nicholas Pham
Goldwater Scholar

Donovan Argueta
Ford Foundation 2018 Dissertation Fellowship








WEDDINGS



John and Nicole (Davis) Cleary

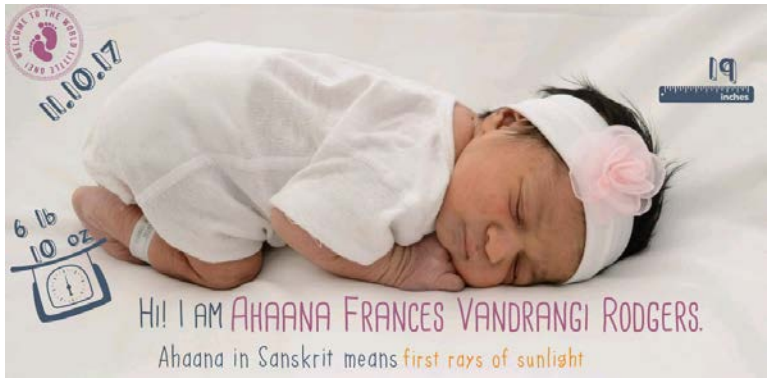
(Dean's Office & CE-CERT)



Katie Meumann (Dell)

(CE-CERT)

BABIES



Baby Ahaana Frances

Victor Rodgers



Baby Mia Giselle
with big brother Mason Gionni

Robert Godoy & Juana Guerrero



Baby Valentina

Elisa Franco

DISTINGUISHED TEACHING AWARD

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
Will Grover
Hamed Mohsenian-Rad
Eamonn Keogh
Vassilis Tsotras

2018 Distinguished Teaching Award goes to:

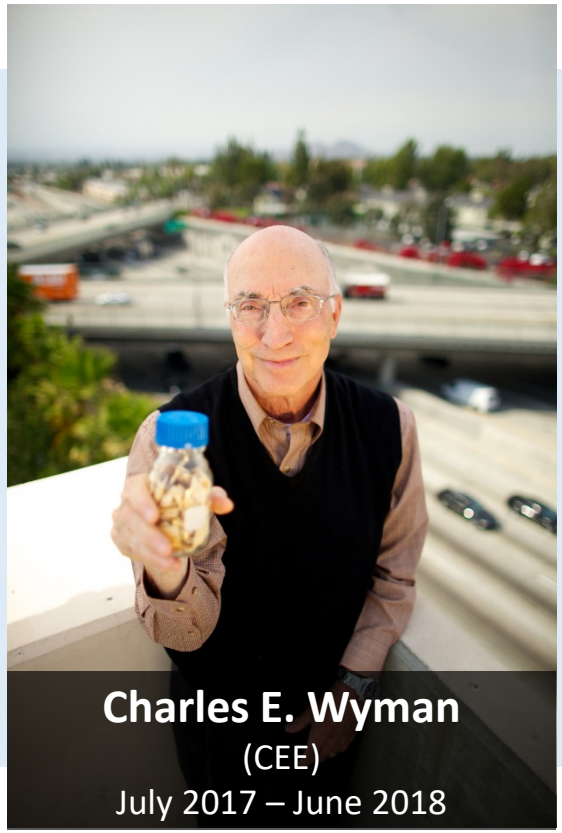


Kawai Tam
(CEE)

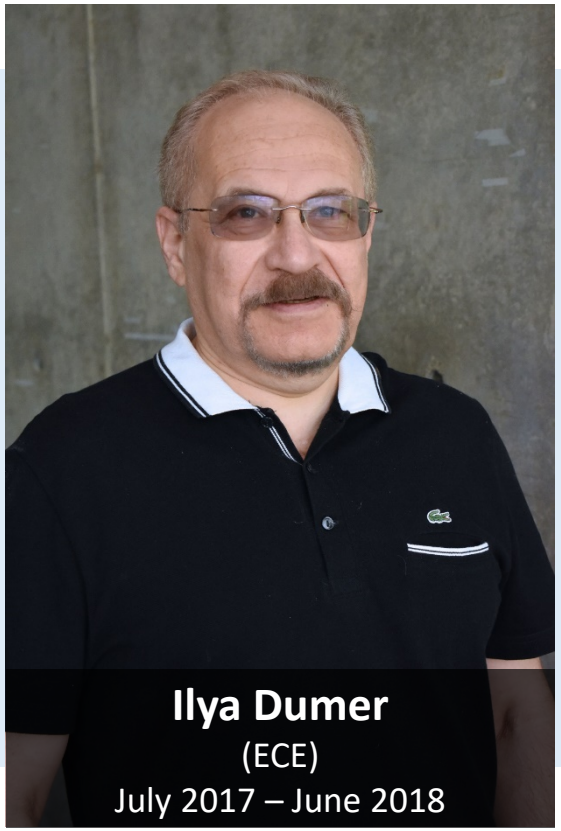
DISTINGUISHED SERVICE AWARDS



Marek Chrobak
(CSE)
July 2014 – June 2018



Charles E. Wyman
(CEE)
July 2017 – June 2018



Ilya Dumer
(ECE)
July 2017 – June 2018

RETIRING FACULTY



Susan Hackwood
(ECE)
1989 – 2018



Mart Molle
(CSE)
1994 – 2018



Ping Liang
(ECE)
1991 – 2018


UCR
THANK YOU