Welcome
CAP Executive Board
June 3, 2021
CAP Chairman and Vice Chairman

GB Singh
Director, Package & Systems Engineering
Solar Turbines

John Black
Senior Vice President, New Product Development
Brain Corporation

Welcome
Meeting Protocol

➔ We will be recording this meeting
➔ Turn on video when talking
➔ Mute all, use chat for comments
➔ Use “raise hand” for discussion
Agenda

4:00-4:15pm  CAP Executive Board Chairman Welcome

4:15-4:30pm  Dean’s Report

4:30-4:45pm  Transforming Physical Health and Performance via the Human Digital Twin

  Ken Loh, Director, Center for Extreme Events Research

  Professor and Vice Chair, Structural Engineering

4:45-5:00pm  IDEA Engineering Student Center: The Next Phase

  Darren Lipomi, Incoming Faculty Director, IDEA Engineering Student Center

  Professor, Nanoengineering

5:00-5:20pm  CAP Executive Input

5:20-5:30pm  CAP Business

5:30pm  Adjournment
Welcome New CAP Partners

UC San Diego
JACOBS SCHOOL OF ENGINEERING
Corporate Affiliates Program

Welcome New CAP Partners

amv inc.

HRL Laboratories

MATERION
Welcome Guests

Dell EMC

ESET North America
Dean’s Report

Albert P. Pisano
Dean, Jacobs School of Engineering

Stepping Out and Being Bold
UC San Diego
JACOBS SCHOOL OF ENGINEERING

#9
BEST ENGINEERING SCHOOL IN THE NATION
Return to Campus

- June 2021 graduation ceremonies will be held in-person with optional virtual attendance

- Planning for fall 2021 teaching to be primarily in-person with normal classroom occupancy in accordance with public health guidelines

- No documented cases of COVID-19 on campus to date

- UC San Diego has been nationally recognized for COVID-19 response
Franklin Antonio Hall

Thank you
For all of your support!

Opening
Early March 2022
fah.ucsd.edu

Today
More good news!
Franklin Antonio Hall - Announcement

Special Announcement & Recognition - Café Naming has been secured!
Minerva’s Café Donor Circle

Martha G. Dennis
Principal
Gordian Knot

Amb. Diana Lady Dougan

Arlene J. Harris
CEO
Dyna LLC

Yvonne Hildebrand
Systems Engineer
Program Manager
Viasat*

Kristi Jaska
Vice President
Global Technology Customer Experience
Viasat*

Peggy Johnson
Chief Executive Officer
Magic Leap

Vera Kripalani

Anna Scipione

Jan Talbot
Professor
Mechanical & Aerospace Engineering
Jacobs School of Engineering

Susan Tousi
Sr. Vice President
Product Development
Illumina, Inc.

*CAP Partner
Increasing Engineering Faculty Diversity

Jacobs School has partnered with U. of Michigan to run NextProf Pathfinder events

1st- and 2nd- year PhD students from across the country converge for short, intensive workshops aimed at keeping the pipeline of students pursuing careers in academia as diverse as possible.

Another move to engage in national projects in engineering education.
National Academy of Inventors

- UC San Diego is the first UC campus to establish a chapter of the National Academy of Inventors (NAI)

- Important move to strengthen innovation on campus in particular for our undergraduates
What Keeps Me Up at Night

Stepping out and being bold.

- Leveraging our rising reputation
- Driving the national agenda on innovation
● **YOU and NAE/NSF said:**
  Your vision for Innovation Centers has merit. Keep going!

● **We Did:**
  NAE member-led event scheduled! June 24 & 25 2021
  Participating in NSF meetings on future of innovation
  6G / Future of Wireless
  Genome Engineering

● **Next Steps:**
  Build teams for Genome Engineering and 6G / Future of Wireless
National Academy of Engineering
Innovation Center for Wireless (6G) Event
24 & 25 June 2021
(virtual event)

Event and registration details will be emailed to all CAP Executive Board Members
# NAE Innovation Center for Wireless (6G) Event Agenda Sample

## Session I – Industry Applications Panel

**Objective:** Discuss the applications and use cases enabled by future wireless

<table>
<thead>
<tr>
<th>Session I – Industry Applications Panel</th>
<th>1:00 p.m. – 2:00 p.m. EDT</th>
</tr>
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<tbody>
<tr>
<td>Welcome</td>
<td>Dr. Albert P. Pisano, Dean and Walter J. Zable Distinguished Professor, Jacobs School of Engineering, University of California San Diego</td>
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<td>Opening Remarks</td>
<td>Dr. Irwin M. Jacobs, Founding Chairman and Chief Executive Officer Emeritus, Qualcomm</td>
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<td>Dr. David J. Teece, Thomas W. Tusher Professor in Global Business and Faculty Director, Haas School of Business, University of California Berkeley</td>
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### Session III – Wireless CTO Panel

**Objective:** Bring industry thought leaders to discuss “the set of attributes necessary for a successful innovation center” in future wireless

<table>
<thead>
<tr>
<th>Session III – Wireless CTO Panel</th>
<th>3:00 p.m. – 4:00 p.m. EDT</th>
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### Session V – Multidisciplinary Leader Panel

**Objective:** Thought leaders discuss the set of attributes necessary for a successful innovation center in future wireless

<table>
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<th>12 Noon – 1:00 p.m. EDT</th>
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### Session III – Wireless CTO Panel

**Moderated by:**

- Ms. Susan Miller, President and Chief Executive Officer, Alliance for Telecommunications Industry Solutions
- Mr. Erik Ekudden, Senior Vice President, Chief Technology Officer and Head of Group Function Technology, Ericsson
- Dr. Charles Clancy, Senior Vice President, General Manager, MITRE Labs, Chief Futurist
- Dr. John Smee, Vice President, Qualcomm Head of Wireless Research
- Dr. Monisha Ghosh, University of Chicago

### Session V – Multidisciplinary Leader Panel

**Moderated by:**

- Mr. Toby E. Redshaw, Chief Executive Officer, Verus Advisory
- Mr. Donald Jones, IMPACT Co-Founder, Chair, Virtual First Medical Practice Collaborative, Digital Medicine Society (DiMe)
- Mr. Laurent Therivel, President and Chief Executive Officer, US Cellular
- Dr. Jahmy Hindman, Chief Technology Officer, Deere & Company
- Dr. Mallik Tatipamula, Chief Technology Officer, Ericsson Silicon Valley
- Dr. Preston F. Marshall, Engineering Director and Principal Wireless Architect, Google
- Mr. John Donovan, Chair of the US President’s National Security Telecommunications Advisory Council (NSTAC), and Former CEO of AT&T Communications
- Dr. Paul E. Jacobs, Founder, Chairman and Chief Executive Officer, XCOM
- Mr. John Roese, Global Chief Technology Officer, Dell Technologies
- Professor Argojaswami Paulraj, Emeritus Professor, Stanford University
- Dr. David Tennenhouse, Chief Research Officer, VMware
- Professor Ted Rappaport, The David Lee/Ernest Weber Professor of Electrical Engineering, New York University Tandon School of Engineering, (NYU-Tandon)
Towards Genome Engineering:
Analogy to microelectronics

Simple electronic circuit (1960s)

Integrated electronic circuit (1990s)

Moore’s Law

Simple genetic circuit (2002)

Multiple metabolic genetic circuits (2019)

UC San Diego is a part of the largest public BioFoundry

Overall structure

- Biofoundry
- Design
- Application
- Translation

Integrated Informatics Platform

Design teams

Application Area 1

Application Area 2

Application Area 3

Translation

Innovation Institute

Start-up Companies
Questions, Comments, Input?
Faculty Presentation

Ken Loh
Director, Center for Extreme Events Research (CEER)
Professor & Vice Chair, Structural Engineering
kenloh@eng.ucsd.edu

Transforming Physical Health and Performance via the Human Digital Twin
Faculty Presentation

Darren Lipomi
Incoming Faculty Director, IDEA Engineering Student Center
Professor, NanoEngineering

IDEA Engineering Student Center: The Next Phase
IDEA Engineering Student Center: The Next Phase

Prof. Darren J. Lipomi
Department of NanoEngineering
Chemical Engineering & Materials Science Programs
Incoming Faculty Director, IDEA Center

https://jacobsschool.ucsd.edu/idea
The IDEA Engineering Student Center is the nexus of the student experience at the Jacobs School of Engineering

We serve all engineering students, but offer targeted programs for students from underrepresented, low-income, and disadvantaged groups

Retention and success of our students rests on four pillars:

1. **Academic support**: Helping students before they are in trouble academically and providing an environment that supports students during academically tough times

2. **Leadership opportunities**: Helping students see what it takes to be an engineering student and feel as if they have control over their engineering experience by providing leadership opportunities that allow them to shape their engineering experience

3. **Maintaining interest**: Exposing students to various disciplines and opportunities and help them see the connection between engineering courses and engineering in real-world applications

4. **Building community**: Helping students believe they are more than a number and that the Jacobs School cares about their success and achievement as individuals
Meet the Staff

Gennie Miranda
Director of Operations

Lisa Trahan
Director of Strategy & Assessment

Alejandra Arguelles
Program Coordinator

Ruben Rodriguez
Program Coordinator

Jessica Baldis
Student Success Coordinator

Sinai Cota
Sloan Scholars Prgm Asst

Sara Eckardt
IDEA Center Coordinator
Olivia's Legacy

- **Professor Olivia Graeve**
  - Faculty Director, IDEA Center, 2015-2021

- **Steadfast advocate for students & the IDEA Center**
  - Oversaw staff increase from 4 to 7
  - Increased attention to outcomes & assessment

- **Oversaw creation & growth of new programs**
  - IDEA Scholars (URM) cohort grew to 450; better outcomes than control
  - Study Center → Engineering Learning Communities
  - 5-day Summer PrEP → 5-week Summer Engineering Institute
  - Creation of 3 new experiential & professional courses (ENG 10, 15, 20)
  - Addition of 3 new diversity organizations
  - Launched the Guided Engineering Apprenticeships in Research (GEAR) program

- **Impact: >4,500 direct student-engagements through 20+ programs**
  - Additional >1,000 students through diversity organization events, Triton Day, Welcome Week
  - e-Newsletter reaches all ~9,000 engineering students
  - Administers >$150,000 in scholarships, project matching funds, & travel opportunities

- **Role model & mentor**
  - Presidential Award for Excellence in Science, Mathematics, & Engineering Mentoring
Biosketch

- **Dad**
  - Born 1931
  - Tailor
  - No college

- **Mom**
  - Born 1944
  - BA, RIT ‘66
  - MLS, U Buffalo ‘2012
  - Acting town librarian until retirement / COVID

- **Undergraduate: Boston University (2005)**
  - Chemistry, Beckman Scholar
  - Physics minor

- **PhD: Harvard University (2010)**
  - Chemistry, ACS Organic Fellow
  - Nanofabrication engineering

- **Postdoc: Stanford University (2012)**
  - Chemical Engineering, CIA fellowship
  - Mini-MBA from Stanford GSB
Lipomi Research Group at UC San Diego
Mechanical Phenomena in Organic & Nanostructured Electronic Thin Films

Mechanical Properties of Electronic Polymers

- Intramolecular forces
- Statistical mechanics
- Molecular recognition
- Entropic elasticity
- Thin film mechanics

Mechanical Biosensors

- a. Role of fingerprints in tactile interfaces (simulation data)
- b. Wireless intracranial pressure sensor (mouse)
- c. Swallowing activity in throat cancer patients
- d. In vitro cardiomyocyte / cell contraction with graphene sensors
- e. Mechanics of cells transiting microchannels
- f. In vitro musculoskeletal cell force: electrical stimulation + optical measurement
- g. Respiration & pulse waveform (human data)
- h. Wearable energy patch
- i. Manual motion tracker

Haptic Biomaterials

- Conductive
- Stretchable

Human-Subject Testing

Fabrication engineering

Device Integration

Materials Chemistry

VR & AR

Mechanical biosensors developed by PI, Lipomi Group
Student Accomplishments

- PhD (former): Adam Printz (postdoc Stanford; now faculty, U of A, ChE), Aliaksandr Zaretski (Founder & CTO, GrollTex), Suchol Savagatrup (postdoc MIT; now faculty, U of A, ChE), Brandon Marin (Intel), Timothy O’Connor (ASML, then Founder, HyperSpace Lighting), Sam Root (postdoc, Harvard), Daniel Rodriquez (ASML), Cody Carpenter (MBA, Wharton), Julian Ramirez (Omniome)

- Postdocs (former): Daniel Burke (Tesla), Laure Kayser (faculty, U Delaware, MSE), Charles Dhong (faculty, U Delaware, MSE)

- PhD (current): Laura Becerra, Guillermo Esparza, Andrew Kleinschmidt, Mickey Finn, Rory Runser, Beril Polat, Alex Chen, Samuel Edmunds, Tarek Rafeedi, Steven Schara

- Postdocs (current): Rachel Blau, Allison Lim

- 13 NSF GRFP Awardees (PhD inst.): Suchol Savagatrup (UCSD), Aliaksandr Zaretski (UCSD), Daniel Rodriquez (UCSD), Julian Ramirez (UCSD), Laura Becerra (UCSD), Rory Runser (UCSD), Liban Jibril (Northwestern), Eduardo Valle (Stanford), Anne Cardenas (Berkeley), Armando Urbina (USC), Celine Liong (Stanford), Kartik Choudhary (Stanford), Marigold Malinao (Stanford)

- NIH Diversity Fellow – Brandon Marin (Intel)

- McNair Fellows: Eduardo Valle, Liban Jibril, Kyle Skelil (U Penn)

- Other noted undergraduates (of ~60 total): Eden Aklile (Northwestern), Kristan Hilby (MIT), Mohammad Alkhadra (MIT), Derick Ober (UCSB), Hamish Carr-Delgado (Stanford), Casey Kong (General Atomics), Colin Keef (Northrup Grumman)
Current Members: 2021

Graduate Students
- Guillermo Esparza
- Steven Schara
- Alex Chen
- Rory Runser
- Mickey Finn
- Beril Polat
- Tarek Rafeedi
- Laura Becerra
- Andrew Kleinschmidt

Postdocs
- Rachel Blau
- Allison Lim

Undergraduates
- Kartik Choudhary
- Marigold Malinao
- Juliana Foley
- Hamish Carr-Delgad
- Kyle Skelil

Recent honors & milestones
- 2019: PECASE (White House) award
- 2021: 100th paper & 10,000th citation
Summary of Diversity Activities

- IDEA Center Faculty Advisory Committee (2012-2016) – Quarterly meetings, provided input from the faculty perspective
  - **Mentor (2012-present):** IDEA Scholars, McNair Scholars, Overnight Stay, Breakfast with the Dean...
  - **Coordinator:** Grad & Postdoc Scholarly Talk Series (2016-2018) – Coordinated 36 talks over 2 years with speakers from academia, industry, and law
  - **Public speaker:** Delivered ~25 talks including 18 Grad & Postdoc talks
  - **Campus Diversity Champion Award (2017)**

- NanoEngineering Diversity Officer (2012-2016) – Served on Diversity/Excellence hiring committee, provided voice in graduate admissions

- Graduate Affairs (+Admissions) Committee Chair (2016-2019) – Encouraged equitable admissions practices; advocated for URM students in distribution/nomination for fellowships

- Jacobs School Strategic Planning Subcommittee on Diversity & Climate (2019)

- Committee on Extended Studies & Public Service (2019-present) – Liaison between the main campus and UCSD Extension, which is a locus of outreach & workforce development activity

- Faculty Director, IDEA Center (starting 7/1/21) – Maintain the programmatic strength established by Olivia
YouTube and Molecular Podcasting

- **Channel**: 160 videos
- **Podcast**: 50 episodes
- **Almost 10,000 subscribers**
- **Nearly 1,000,000 views/listens**
- **Audience**: 32% is US
- **Reach**: next 20 countries include India, South Africa, Malaysia, Indonesia, Philippines, Pakistan, Brazil, Saudi Arabia, Nigeria.
- **#3 podcast in chemical engineering (Feedspot.com)**
My Role as Faculty Director

- Be a resource to the IDEA Center and its stakeholders
  - Support existing programs, and to let the professionals on the staff flourish

- Promote compassion & rigor in student experience
  - Encourage trust & openness in meetings
  - Provide guidance toward execution of Strategic Plan

- Serve as a public face to the center and promotion of its programs and successes
  - Make talks and appearances at IDEA-sponsored events
  - Establish a social media presence
  - Produce IDEA-branded recorded talks/conversations

- Fundraise by way of grants and philanthropy; work with development & corporate partners

- Serve as a liaison to ENG faculty to recruit them as mentors/speakers for programs
  - Advocate for the IDEA Center to the Dean’s office and campus

- Assist in coordination of ENG 10, 15, & 20

- Evaluate scope and logic of new opportunities: “quality control” valve
  - Cast a “tie-breaking” vote at meetings, as opposed to principally executive function
Vision

- **Mission**
  - Continue to be the locus of the student experience at the Jacobs School of Engineering
  - Provide special forms of support for students from historically disadvantaged groups

- **Values**
  - Teach teamwork and culture of mentorship
  - Cultivate socially conscious engineers who value diversity
  - Strengthen connections with partners and stakeholders

- **Scope**
  - Inventory activities of IDEA Center & Departments to ensure complementarity vs. duplication
  - Evaluate where it makes sense to participate in engineering-focused outreach
  - Increase programmatic content and resources for graduate students
  - Work with young faculty to develop strategies for generating an inclusive climate in the classroom
  - Retain focus of staff on student interaction

- **Logic & sustainability**
  - To be the premier center for the engineering student experience in the US, and a model for nascent centers of inclusion
  - Exit surveys: “Involvement in IDEA Center programs significantly enhanced my experience at UC San Diego”  
    *Strongly Agree!!*
  - Students should want to come here because of the IDEA Center
  - Form super enthusiastic alumni network willing to serve as mentors, speakers, advisors, & sponsors
Engaging with IDEA

- **How to engage with us**
  - Participate in events held by diversity organizations
  - Nominate individuals to serve on panel discussions, recruiting events, GRAD talks, WISE talks, and podcast interviews

- **Join our Industry Advisory Board!**
  - Nominate individuals at your organizations
  - Quarterly meetings
  - Many spots are turning over now; please send interest to Darren Lipomi dlipomi@ucsd.edu

- **Internships**

- **Direct sponsorship of student projects**
  - Matching funds
  - Sponsorship of IDEA Scholars, SEI, & student support
Discussion with CAP Executive Board

- How can the next phase of the IDEA Engineering Student Center bring the most positive impact to your company?
- How can we equip our students to be diversity agents in your company?
- What programs are working to address equity that you’ve found to be most effective?
CAP Business

Wil Dyer
Director, Corporate Affiliates Program

CAP Updates
Meet our new Team Members

Alice Grgas
Associate Director, Talent Programs
Corporate Affiliates Program
agrgas@eng.ucsd.edu

- Leads all CAP Talent Programming
- Develops recruiting strategies with CAP Partners
- Manages Team Internship (TIP) & Cooperative Education (Co-op) Programs
- Advertises jobs/internships, screens resumes, targets specific student populations

Alina Mullen
Executive Assistant
Corporate Affiliates Program & Agile Research Centers
capassistant@eng.ucsd.edu

- Executive level administrative assistance
- Supports Corporate Affiliates Program & Agile Research Centers of Excellence teams
- Coordinates meetings, programs and events
- Assists with fiscal and reporting responsibilities
Start planning your 2021-2022 Recruitment

Schedule your recruitment strategy meetings with the CAP Team! Attract top talent for:

➔ Team Internship Program (TIP)
➔ Cooperative Education (Co-op) Program
➔ Individual internships
➔ Full-time/part-time

Contact Alice Grgas at agrgas@eng.ucsd.edu
2021 Virtual Research Expo a Success!

Best in Show
David Paz-Ruiz & Hengyuan Zhang,
Computer Science & Engineering Ph.D students
“Improved maps for self-driving vehicles”

Thank you to our Distinguished CAP Executive Judges
and CAP Partner Networking Hour Participants!
The Future of Robotics

June 22, 2021
5:00-5:45 pm

Zoom Webinar Link

Henrik Christensen
Director, Contextual Robotics Institute
Professor, Computer Science & Engineering

Michael Yip
Director, Medical Robotics Laboratory
Professor, Electrical & Computer Engineering
Masters of Advanced Studies (MAS) Applications Open for Fall 2021

Three engineering masters degree programs for working professionals

**Architecture-based Enterprise Systems Engineering** - address the challenges and issues that arise when an enterprise is attempting to develop and evolve their Enterprise Knowledge System (EKS)

**Data Science & Engineering** - combine the skills of software programmer, database manager, and statistician to create mathematical models of the data, identify trends/deviations, then present them in effective visual ways that can be understood by others

**Wireless Embedded Systems** - cross-disciplinary education paradigm, designed to provide high-level training in systems, software, hardware and communication theory

Apply by July 7!
Contact: Phil McMullen
pnmcmullen@eng.ucsd.edu
jacobsschool.ucsd.edu/mas
<table>
<thead>
<tr>
<th>Date</th>
<th>Event Description</th>
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<td>Franklin Antonio Hall Virtual Tour Series: Future of Robotics</td>
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<tr>
<td>June 24-25, 2021</td>
<td>National Academy of Engineering Innovation Center for Wireless (6G) Event</td>
</tr>
<tr>
<td>July (TBD), 2021</td>
<td>Franklin Antonio Hall Virtual Tour Series: Topic TBD</td>
</tr>
<tr>
<td>August 17, 2021</td>
<td>Franklin Antonio Hall Virtual Tour Series: Future of Energy</td>
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<tr>
<td>September 21, 2021</td>
<td>Franklin Antonio Hall Virtual Tour Series: The Brain as an Engineered System</td>
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<tr>
<td>September 26-29, 2021</td>
<td>Mechanistic Machine Learning and Digital Twins Conference</td>
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<tr>
<td><strong>October 7, 2021</strong></td>
<td><strong>Fall CAP Executive Board Meeting</strong></td>
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<tr>
<td>October 19, 2021</td>
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**All events virtual until further notice**
Thank you!

Next CAP Executive Board Meeting:
October 7, 2021