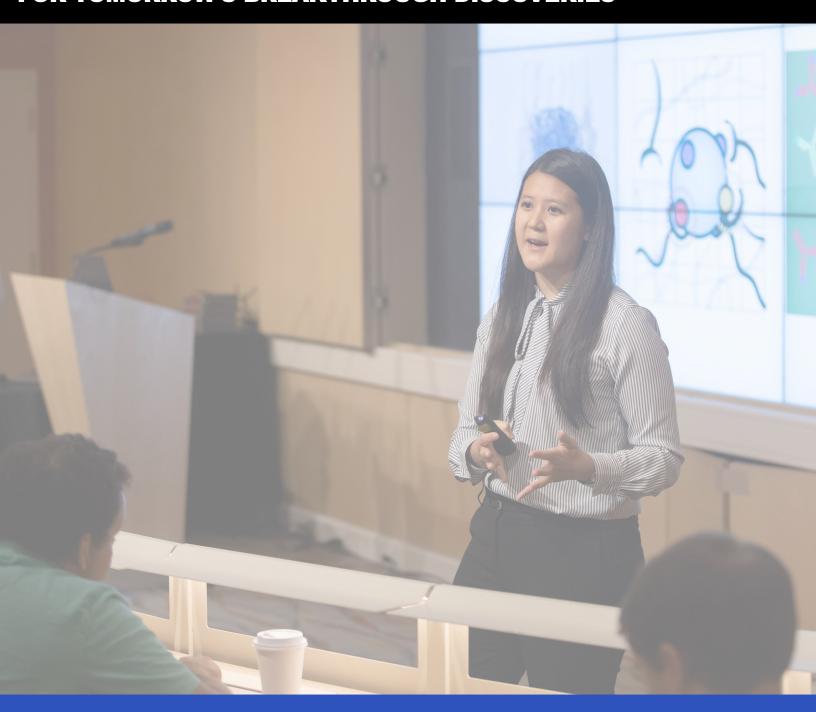
# Arnold and Mabel Beckman Foundation 2019 Annual Report

SUPPORTING YOUNG SCIENTISTS TODAY
FOR TOMORROW'S BREAKTHROUGH DISCOVERIES



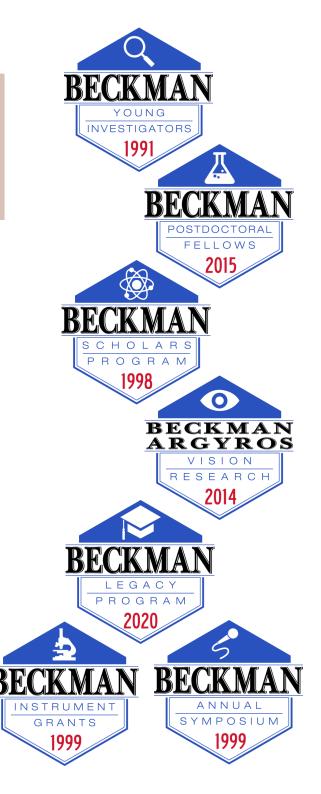
**On the cover:** 2017 AOB Postdoctoral Fellow Danielle Mai, PhD, presents her research during the annual Beckman Symposium.

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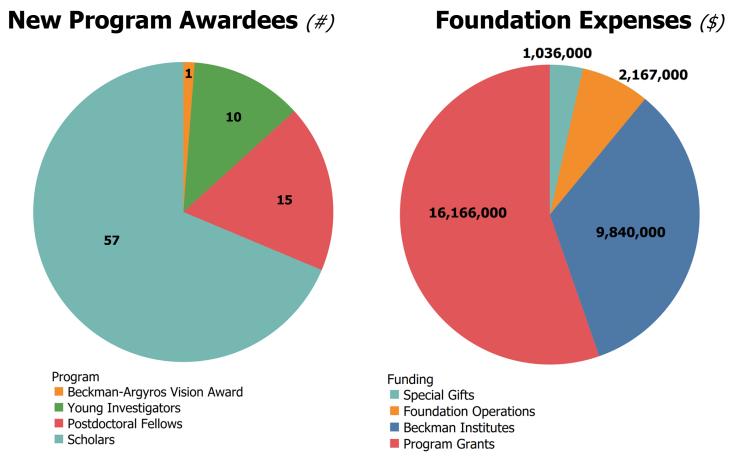
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### **Our Mission**

Dr. Arnold O. Beckman and his wife Mabel established the Foundation to support leading edge research in the fields of chemistry and life sciences, broadly interpreted, and particularly to foster the invention of methods, instruments, and materials that open up new avenues of research and application in those disciplines and related sciences.

### 2019 At-A-Glance



# 40 Years of Impact (1978-2018): \$700<sup>+</sup> Million in Research Support

Special	Program	Beckman
Gifts	Grants	Institutes
\$145M	\$174M	\$405M

## The Future Looks Bright

### A Message from the Executive Director

Dear "Beckman Family" and Friends,

We hope you enjoy this inaugural annual report of the Arnold and Mabel Beckman Foundation! Last year we completed the 40<sup>th</sup> anniversary year of the Foundation, with several special events designed to reflect on the impact and legacy of the Beckmans in supporting the next generation of scientists through their philanthropy. We didn't rest long after all the celebrations, though, and 2019 was again a busy year.

In addition to selecting our new classes of Beckman Young Investigators and Beckman Scholars, we also welcomed our first class of Arnold O. Beckman Postdoctoral Fellows in Chemical Sciences. In the Spring, we hosted Needs" an "Instrumentation meeting, gathering a diverse group of experts to discuss how the Foundation could best make broad research through а impact instrumentation grants, which led to our release of a one-time grant opportunity for the Advanced Light Sheet Microscopy and Data Science program. Finally, we also launched our new Orange County Beckman Legacy Award program—an opportunity for local high schoolers to build their own spectrophotometer and conduct lab activities for a chance to win a college scholarship valued at up to \$16,000. We look forward to meeting the first awardees from this program in early 2020!



Anne Hultgren, PhD Executive Director

On top of everything else, we designed and launched a new <u>website</u> to highlight our grant programs and award recipients—please take a moment to look through the newly designed content and images from our awardees.

We remain laser focused on the Foundation's goal of supporting young scientists today for tomorrow's breakthrough discoveries, directing our energy and efforts to the young minds interested in science who may one day become the next Arnold Beckmans of the world.

It's an exciting time to be a part of Arnold and Mabel Beckman Foundation. From our local high school students to our BYIs, Postdocs and Scholars across the country, the future indeed looks bright!



Above: Arnold and Mabel Beckman Foundation's Board of Directors (2019).

## Leadership

"Hire the best people and then get out of their way." - Dr. Beckman

We're grateful to the team of individuals who dedicate themselves to the success of the Arnold and Mabel Beckman Foundation, including:



### **Board of Directors**

Mr. William May (Chairman)

Mr. Gary Wescombe (Treasurer)

Mrs. Jacqueline Dorrance-Tomlinson (Secretary)

Mr. Jon Fosheim

Dr. Jeffrey Johnston, PhD

Dr. Lawrence Kline, MD

Dr. Andrew Lyon, PhD

Mr. Steven Pizula

Mrs. Lynn Rahn

Mr. Peter Simon

Dr. Deborah Wuttke, PhD

# LEADERSHIP

### **Foundation Staff**

Ms. Catrina Bryant, BA

Ms. Jackie Chamberlin, MS, MBA

Ms. Esther Devanney, BS

Mrs. Tiana Godges, BA

Dr. Anne Hultgren, PhD

Ms. Elizabeth Koppe, BA

Mrs. Nicole Patras, BA

Ms. Kaerie Ray, MBA

Ms. Danica Resurreccion, BS\*

### **Scientific Advisory Council**

Dr. Nancy Allbritton, PhD\*

Dr. Annaliese Franz, PhD

Dr. Kent Hill, PhD

Dr. Philip LeDuc, PhD

Dr. Anne McNeil, PhD

Dr. Karl Mueller, PhD

Dr. Jason Shear, PhD

Dr. Scott Strobel, PhD\*

The Foundation's Program Executive Committees are instrumental in leading the proposal review committees, developing final award recommendations, and conducting annual assessments of the program requirements.

Our special thanks to the 2019 Executive Committee members:

### **Young Investigators**

Prof. Susana Cohen-Cory, PhD

Prof. Shiv Halasyamani, PhD

Prof. Ke Hu, PhD

Prof. Vassiliy Lubchenko, PhD

### **Postdoctoral Fellows**

Prof. Carolyn Anderson, PhD

Prof. David Forbes, PhD

Prof. Philip LeDuc, PhD

Prof. Jill Millstone, PhD

### **Scholars**

Prof. Jeff Brodsky, PhD

Prof. Craig Gatto, PhD

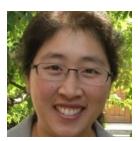
Prof. Laura Hunsicker-Wang, PhD

Prof. Carol Parish, PhD

<sup>\*</sup>Served in this role for part of 2019

# AWARDEE

# **Awardee Highlights from the Past Year**



Kang-Kuen Ni, PhD 2015 Beckman Young Investigator Published in Science: "An Optical Tweezer Array of Ultracold Molecules" (cover)



Erin Fish
2018 Beckman Scholar
Received Goldwater Scholarship\* and Earned
Top Poster Honors from Protein Society



Krzysztof Palczewski, PhD
2014 Beckman-Argyros Awardee
Elected to the National Academy of Medicine



Alex Shalek, PhD
2015 Beckman Young Investigator
Named Institute Member of the Broad Institute



Neville Bethel, PhD 2019 AOB Postdoctoral Fellow Named Hanna H. Gray Fellow by HHMI



Chang Liu, PhD 2015 Beckman Young Investigator Received 2019 ACS Synthetic Biology Young Innovator Award

<sup>\*</sup>Beckman Scholars Christina Beck, Alicia Bostwick, Andrea Cheng, Ariel Gale, Marlene Lawston, Ella Mullikin, Charlotte Mineo, and Grace Solini also received Goldwater Scholarships.

# HIGHLIGHTS

## Awardee Highlights—cont'd.



Elena Schroeter, PhD
2017 AOB Postdoctoral Fellow
Published in Journal of Proteome Research:
"A Comparison of Common Mass Spectrometry
Approaches for Paleoproteomics"





Megan Thielges, PhD & Darren Lipomi, PhD 2001 & 2003 Beckman Scholars
Received Presidential Early Career Award for Scientists and Engineers





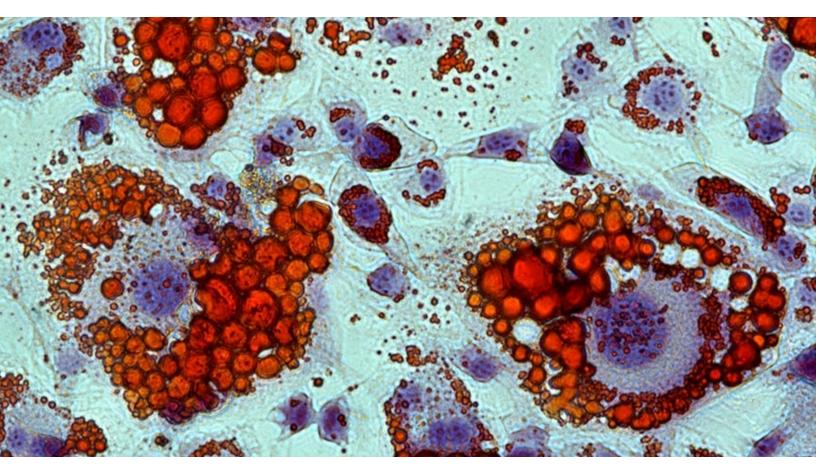
Yevgenia Kozorovitskiy, PhD & Elena Gracheva, PhD 2015 & 2018 Beckman Young Investigators Received NSF Career Award



Eric Beltrami
2018 Beckman Scholar
Published in Nature Neuroscience:
"Single-cell Transcriptomic Analysis of
the Lateral Hypothalamic Area Reveals
Molecularly Distinct Populations of Inhibitory
and Excitatory Neurons", and received
Margaret F. Ertman Award for Outstanding
Undergraduate Research in Biology



Ariel Furst, PhD
2016 AOB Postdoctoral Fellow
Published in Current Opinion Electrochemistry:
"Toward Multimarker and Functional Assays
from Crude Cell Lysates: Controlling Spacing
and Signal Amplification in DNA-CT-based
Bioelectrochemical Devices" (cover)



**Above**: Adipocytes differentiates from 3T3-L1 cells were fixed and stained with Oil Red O for lipid droplets and counterstained with hematoxylin for nuclei. Image was acquired using Nikon Ti-E microscope at 200x magnification. Photo by Xiaojing Su, in the lab of 2018 BYI Ashleigh Theberge, PhD.

# I. Beckman Young Investigator Program

The Beckman Young Investigator (BYI) Program provides four years of research support amounting to \$600,000 to promising young faculty members in the early stages of their academic careers in the chemical and life sciences, broadly defined, who have not yet received a major award from another organization.

Projects must be truly innovative, highrisk, and show promise for contributing to significant advances in chemistry and the life sciences, with preference to those that foster the invention of methods, instruments and materials that will open new avenues of research in science.

### 2019 BYI National Recognition:

Elected to the National Academy of Sciences
Arlene Sharp, Yang Dan

Presidential Early Career Awards
Erik Grumstrup, Prashant Jain

NSF Career Awards Genia Kozorovitskiy, Elena Gracheva, Xiaoji Xu

### 2019 BYI Program Stats:

300+ Applicants

**10** Researchers Selected for Awards, Representing **9** Institutions

\$6 Million in Funding for '15-'19 Awardees

# BYI

## 2019 Beckman Young Investigator Awardees

Keriann Backus, PhD
University of California, Los Angeles
Chenfeng Ke, PhD



Dartmouth College

Wesley Legant, PhD
University of North Carolina, Chapel Hill
"Intelligent Microscopes to Observe and
Interact with Dynamic Biological Specimens"

Frank Leibfarth, PhD
University of North Carolina, Chapel Hill
Jarad Mason, PhD



Harvard University

Jia Niu, PhD
Boston College
"A General Strategy for the Synthesis of
Precision Sustainable Polymers with MainChain Functionalities from Renewable
Resources"

**Leslie Schoop, PhD**Princeton University



Kimberly See, PhD
California Institute of Technology
"Divalent Ion Conductivity in the Solid-State"

**Kirk Wangensteen, MD/PhD** University of Pennsylvania



Brad Zuchero, PhD
Stanford University
"Elucidating New Roles of Myelin in Plasticity, Learning, and Disease"





**Above**: 2016 Arnold O. Beckman Postdoctoral Fellow Ariel Furst, PhD (right), working with Natalie Muren, PhD (left), while attending Caltech..

### II. Arnold O. Beckman Postdoctoral Fellows

The Arnold O. Beckman Postdoctoral Fellows Award Program supports first and second year postdoctoral fellows at research institutions who are judged to have the highest potential for success in a career in chemistry, and who will become the next generation of leaders and innovators in science, engineering, and technology.

The program awards \$180,000 over 2 years for salary, fringe benefits, and research expenditures; instrumentation fellowships will receive additional one-time \$100,000 for material/development costs.

### 2019 Program Highlights:

After a pause in 2018, the Postdoctoral Fellows Program was restructured and relaunched in 2019, with a new focus on chemistry and chemical instrumentation.

### 2019 Postdoc Program Stats:

45 Applicants

15 Researchers Selected for Awards11 Institutions Represented

**\$4 Million** in Funding for '17-'19 Awardees

# POSTDOC

# 2019 Arnold O. Beckman Postdoctoral Fellows

**Neville Bethel, PhD**University of Washington

James Bour, PhD
Massachusetts Institute of Technology

**Quinn Burlingame, PhD**Princeton University



Alice Chang, PhD
University of Minnesota, Twin Cities
"Tough, Sustainable Plastics via Graft
Block Polymer Design"

Kangway Chuang, PhD University of California, San Francisco



Julie Fenton, PhD
Northwestern University
"Macrocyclic Nanotubes as a Platform
for Functional Membranes and Materials
Discovery"

Miguel Gonzalez, PhD Harvard University

Stewart Mallory, PhD
California Institute of Technology



Hossein Robatjazi, PhD University of California, Santa Barbara "Atomistic Insights into Surface Phenomena in Heterogeneous Catalysis"

Sam Sanders, PhD Harvard University

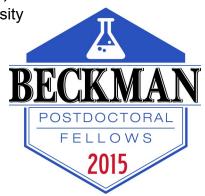
Alexander Schuppe, PhD
Massachusetts Institute of Technology

Adam Slavney, PhD Harvard University

Patrick Smith, PhD
Massachusetts Institute of Technology

**Benjamin Snyder, PhD**University of California, Berkeley

**Dayne Swearer, PhD**Stanford University





**Above**: 2018 Beckman Scholar Karina Targos, BA, creates a web-like material made of cubic siloxanes monomers decorated with an aryl and ester functional group on each corner, an example using organic chemistry and catalysts to make new functionalized nanomaterials.

## III. Beckman Scholars Program

The Beckman Scholars Program provides an in-depth, sustained research experience for exceptional undergraduate students in chemistry, biological sciences, or interdisciplinary combinations thereof. The program's award of \$26,000 for a student and mentor team over 15 continuous months of research, in conjunction with the Annual Beckman Symposium, offers an academically stimulating and unique educational experience.

The award spans three years with four to six student/mentor pairs named per institution; applications submitted by invitation only.

### **BSP National Recognition in 2019:**

2019 Goldwater Scholars
Christina Beck, Alicia Bostwick,
Andrea Cheng, Erin Fish, Ariel Gale,
Marlene Lawston, Charlotte Mineo,
Ella Mullikin, Grace Solini

### 2019 BSP Program Stats:

13 Institutions Selected for 2019 Awards

**57** Scholar/Mentor Teams began their Research Projects

**\$1.7 Million** in Funding for '17-'19 Awardees

# BSP

### 2019 Beckman Scholars

Sahar Amin

San Francisco State University

**Christina Beck** 

Pomona College

**Erik Bidstrup** 

Northwestern University

Nicole Carrillo-Vallejo

College of William and Mary

Alicia Caughman

Georgia Institute of Technology

Ziyan Chen

College of William and Mary

Ryan Clark

University of Virginia

Julianna Cresti

Villanova University

Gillen Curren

Villanova University



Shaoni Dasgupta

Clemson University

"The Role of Carnitine Acetyltransferases in the Virulence of the Fungus Cryptococcus Neoformans"

**Alexis Davison** 

Pennsylvania State University

**Jasmine Esparza** 

University of California, Los Angeles

**Aidan Fike** 

**Tufts University** 

**Taylor Fish** 

**Brigham Young University** 

**Lucas Frye** 

University of Virginia

#### 2019 Awardee Institutions

Calvin University

**Clemson University** 

**Colgate University** 

Georgia Institute of Technology

Pennsylvania State University

San Francisco State University

Santa Clara University

University of California, Los Angeles

University of Chicago

**University of Connecticut** 

**University of Kansas** 

University of Virginia

Whitman College



# BSP

## 2019 Beckman Scholars—continued

**Ariel Gale** 

Furman University

**Grayson Hamrick** 

Haverford College

Xiaoyi Sean Hu

Northwestern University

Kathleen Imbach

Georgia Institute of Technology

**Angelica Lang** 

University of Kansas



**Brandon Lookfong** 

Texas A&M University
"The Use of Functional Ubx Proteins for Nerve Growth"

Molly Madden

University of Colorado, Boulder

**Kaitlin Malley** 

**Boston College** 

Vennela Mannava

University of Chicago

**Nathan Matzko** 

Clemson University

Patrick McGeoghegan

**Boston College** 

Silas Miller

Whitman College

**Alexandra Moore** 

Whitman College

Ella Mullikin

Wellesley College

**Jett Murray** 

University of Idaho

**Audrey Muscato** 

**Bowdoin College** 

**Emi Nakahara** 

University of California, Los Angeles

**Kartik Nath** 

**Union College** 

**Benjamin Neubert** 

University of Virginia

**Kevin Pataroque** 

Case Western Reserve University

**Gwendolyn Pyeatt** 

**Boston University** 

Ryan Rahman

Texas A&M University

**Jeffrey Rasmussen** 

University of Connecticut



# BSP

### 2019 Beckman Scholars—continued

Kristen Read

**Brigham Young University** 

Megan Rodriguez

University of Chicago

**Alice Sardarian** 

**Barnard College** 



**Bradley Scholten** 

Calvin University

"The Effects of Human Technology on Behavioral and Physiological Stress in Tachycineta bicolor and Danio rerio"

Sarah Shnayder

**Tufts University** 

**Ekaterina Skaritanov** 

University of Connecticut

Jonah Stiel

University of Kansas

**Jamison Takashima** 

University of Arizona

Isabel Thompson

**Grand Valley State University** 

**Peyton Tierney** 

**Boston University** 

**Brooke Van Wyk** 

Hope College

Ana Verma

Amherst College

**Elizabeth Wade** 

University of San Diego

**Jacob Watts** 

**Colgate University** 

**Catherine Weibel** 

University of Arizona

**Shoshana Williams** 

**Barnard College** 

Katherine Xia

Santa Clara University

Katherine Yan

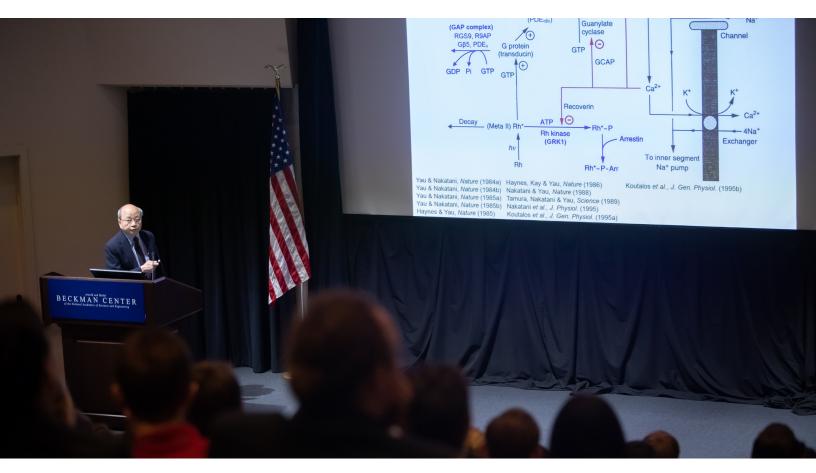
Case Western Reserve University



**Taylor Yount** 

Pennsylvania State University "Small-molecule Signaling between Bacterial Populations within a Host"





**Above**: 2019 Beckman-Argyros Vision Research Awardee King-Wai Yau, PhD, delivers a presentation during the Annual Beckman Symposium.

## IV. Beckman-Argyros Award in Vision Research

The Beckman-Argyros Award in Vision Research rewards one individual who has made, and is continuing to make, significant transformative breakthroughs in vision research; including those whose contributions are to science in general, or through the development of an innovative technology or fundamental scientific breakthrough have been applied to, aided and/or improved the vision sciences. One award of \$500,000, consisting of the prize and grant, is presented annually along with a commemorative medallion.

### 2019 Program Highlight:

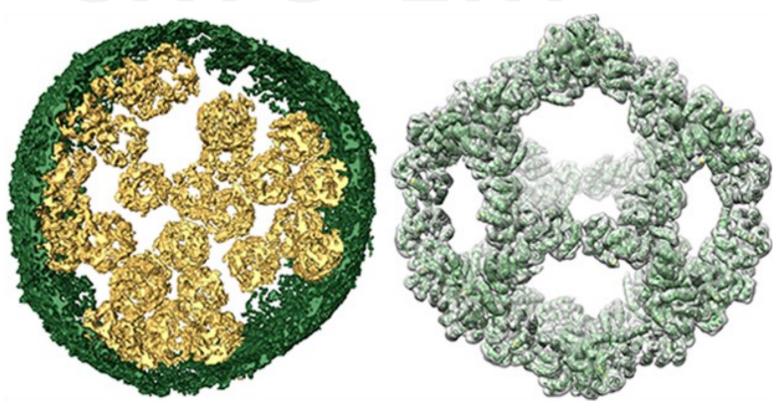
The final selection for this program was made in 2019.

Since 2014, the Program has provided a total investment of **\$3 Million** to support innovative research in the vision sciences.

### 2019 Awardee:

**Dr. King-Wai Yau, PhD**Johns Hopkins School of Medicine

# CRYO-EM



**Above**: Isosurface model of a vesicle filled with nanocages (left) and a cryo-EM reconstruction of a nanocage with the computational design model (green ribbon) fitted in (right). Image credit: Sundquist Lab, Univ. of Utah

## V. Beckman Center for Cryo-EM

Advances in instrumentation and methods have revolutionized applications cryogenic electron microscopy (Cryo-EM) determine atomic structures biological samples that are currently beyond the reach of other structural biology methods. However, the expense of the instrumentation is a roadblock to increasing access to this technology. In 2016, the Foundation provided 5 grants of \$2.5M each that could be used for purchase costs of new Cryo-EM instrumentation, support for a junior faculty hire in structural biology, and operational expenses.

The following 5 institutions were selected for awards: Johns Hopkins University School of Medicine, Massachusetts Institute of Technology, University of Pennsylvania, University of Utah, and University of Washington.

### 2019 Program Highlight:

This year marked the official opening of the final two CryoEM Centers at University of Pennsylvania and Johns Hopkins University, with all five Centers now operational and collecting data.



Above: BYI Jose Rodriguez presents his research during the Chemistry Breakout at the Beckman Symposium.

# VI. Annual Beckman Symposium

The annual Beckman Symposium brings together the nearly 300 grantees from our programs and Foundation leadership, including members of the Board of Directors, Scientific Advisory Council, Executive Committees, and Beckman Institutes.

The 3-day event features researchers from varied backgrounds, career stages, disciplines and institutions sharing their latest research findings in the form of oral and poster presentations, networking during group meals, and participating in career guidance workshops led by invited experts.

After the scientific sessions conclude, the participants relax with the colleagues and enjoy a variety of competitive lawn games.

"The exciting thing was that all of the stories being told in talks and posters were open and honest about the fact that no matter what problem they were tackling, they weren't there YET. Nobody felt compelled to tell a 'complete story.' The presentations were all wonderful snapshots of where the research stood, while presenting the sometimes daunting path forward to true understanding of the system under investigation."

— Dr. Andrew Lyon, Board of Directors











Left column (top down): Board Chair William May congratulates award winners Dr. Kent Hill, Dr. King-Wai Yau, Dr. Gary Firestone and Dr. Carolyn Anderson; BYI Executive Committee Member Dr. Vas Lubchenko relaxes with some friendly foosball competition, and Professor Brian Goess hosts a round of Beckman "Jeopardy." Right column (top down): BSP Stephanie Song delivers her poster presentation, guests take part in after-dinner ping pong. Corey Sandler, OC Event Photos



Above: Groundbreaking ceremony for the Beckman Institute at University of Illinois, Urbana-Champaign.

## VII. Beckman Institutes and Centers

In 1978, Dr. and Mrs. Beckman began their philanthropic giving by founding five basic science research institutes and centers at leading universities that had been influential in their own lives. Each of the research Institutes and Centers have a mission to promote novel interdisciplinary science programs, and provide access to leading instrumentation facilities.

In addition to the research Institutes, Dr. and Mrs. Beckman also established the Beckman Center of the National Academies as the west coast headquarters for National Academy activities and scientific conferences.

The Beckman Foundation continues the commitment to these Institutes and Centers through an annual Director's Fund grant, which may be used at the sole discretion of the Directors.



Welcome to Dr. Marianne Bronner, Director of the Beckman Research Institute at Caltech



**Beckman Research Institute at Caltech** 

Director: Dr. Marianne Bronner

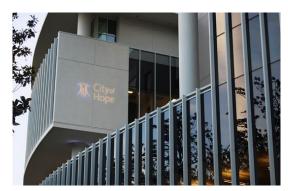
Pasadena, CA



Beckman Institute for Advanced Science and Technology at the University of Illinois, Urbana-Champaign

Director: Dr. Jeffrey Moore

Urbana, IL



**Beckman Research Institute at City of Hope** 

Director: Dr. Steven Rosen

Duarte, CA



Beckman Laser Institute & Medical Clinic at University of California, Irvine

Director: Dr. Matthew Brenner (interim)

Irvine, CA



Beckman Center for Molecular & Genetic Medicine at Stanford University

Director: Dr. Lucy Shapiro

Stanford, CA



**Above**: Teacher kits from 2019 Physical and Earth Sciences classes, offered by Kids@Science. The Foundation donated \$600,000 to extend support for the initiative for an additional three years.

# VIII. Local Community Support

The Foundation is proud to support innovative STEM and STEAM activities in the local community we call home, including:

Kids@Science

STEM teacher training initiative

Irvine Public Schools Foundation
CubeSat high school program

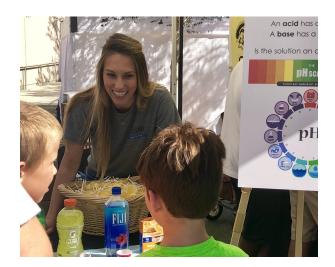
Beckman Arts & Science Family Day Festival-style science entertainment at the Segerstrom Center OC Science and Engineering Fair Special awards and support

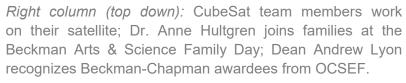
Chapman University Keck Center for Science and Technology

Capital campaign

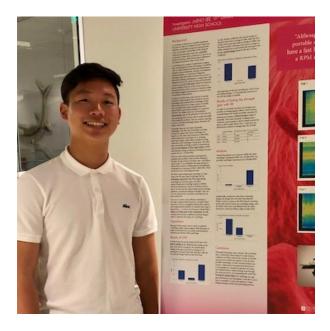
Richard Nixon Presidential Library and Museum

Apollo 11: One Giant Leap for Mankind Exhibit













Left column (top down): AMBF staff member Tiana Godges leads a pH activity with local kids; University High student Jaeho Lee presents his research poster; Center: BYI Dr. Chang Liu kicks off the OC Beckman Legacy Award reception.



# LEGACY



Above: Lead halide perovskite. Image credit: Erik Grumstrup

## IX. Orange County Beckman Legacy Award

The Arnold and Mabel Beckman Foundation is proud to announce the launch for the Orange County Beckman Legacy Award, a college scholarship competition with awards up to \$16,000.

Participating students work with a science teacher mentor at their school to complete project build inspired by revolutionary tools of Dr. Arnold O. Beckman, as well as perform experiments, create their own innovative experiment, report on experiment findings, answer essay-style questions. Submitted projects are evaluated by the Foundation using a panel of outside experts to select the award winners.

The following schools have students participating in the pilot year of this program:

Northwood High School
University High School
Arnold O. Beckman High School



# SPEAKERS



Above: 2015 Beckman Symposium Panel, Scientific Careers in the Business World.

# X. Beckman Speaker & Conference Support

The Arnold **Beckman** and Mabel Foundation Speaker and Conference Support Program is open to all current Foundation grant awardees, specifically from the BSP, AOB Postdoc, BYI, or Vision Research Beckman-Argyros programs. Current Beckman awardees organizing or hosting a seminar of conference at their institution can invite a member of the Beckman Family to be a speaker and submit an application to this program for funding up to \$3,000 per request, in support of, but not limited to: Speaker travel, room rental fees. reception costs, food, beverages, printed materials, etc.

The Foundation chooses a limited number of Speaker and Conference events based on their relevance to the mission of the program and Foundation as a whole, campus, scientific and community impact, and the scope of appeal of the event.

In 2019, Speaker and Conference support was provided to:

Prof. Shiv Halasyamani, PhD University of Houston

Prof. Bo Wang, PhD Stanford University



**Above**: 2016 BYI Jing-Ke Weng investigates harnessing the light production pathway of fireflies for other imaging and power applications.

# XI. Financial Report

In accordance with our Founders' wishes to 'not spend money to give money away,' the Foundation remains focused on finding operational efficiencies technology improvements without adding long-term operating costs. To this end, the Foundation implemented the nonprofit Salesforce edition for tracking awardees and grant deliverables, and a new grants application system to streamline collection of award documents. In 2019, we benchmarked our operating expenses as a percent of grant distributions, with the Beckman Foundation at 7% compared to the average of 24% for other similar private foundations.

During 2019, the Foundation announced a new Light Sheet Instrumentation and Data Science program, a one-time grant opportunity for the procurement of advanced light-sheet capabilities.

Fiscal Year (Sept. '18-Aug. '19) Financial Highlights:

Total expenses and disbursements: \$29,209,000

After our expenses, investment income, amounts set aside, and net accruals, the reduction in net assets was \$15,124,000.