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ARCS, San Diego Chapter

#### **FOUNDERS' TOAST**

Barbara McColl, Karen Bowden, Pattie Wellborn

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#### **ARCS SCIENTIST OF THE YEAR**

#### **SCHOLAR ALUMNI SPEAKERS**

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# 2019-2020 ARCS SCHOLARS



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John Matthew Allen - Cell and Molecular Biology  
Erik Alexander Blackwood - Cell and Molecular Biology  
Mariel Manaloto Cardenas - Chemistry  
Corey Allyn Clatterbuck - Ecology  
Molly Elizabeth Clemens - Ecology  
Liwen Deng - Cell and Molecular Biology  
Joshua Terence Kelly - Geological Sciences  
Lucas Aaron Luna - Biochemistry  
Clifford Dennis Pickett Jr. - Cell and Molecular Biology  
Adriana Sara Trujillo - Cell and Molecular Biology  
Janet Kathleen Walker - Ecology  
Melissa Ann Ward - Marine Ecology  
Joi LaGrace Weeks - Cell and Molecular Biology  
Nicholas Benjamin Williams - Chemistry

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**Scripps  
Research**

Carlos Andres Aguirre - Neuroscience  
Lisa Marie Barton - Chemistry  
Christopher Andrew Cottrell - Immunology  
Joseph Michael McGraw - Biomedical Sciences  
Anthony Nicholas Milin - Biomedical Sciences  
Jessica Danielle Rosarda - Chemical Biology  
Sophia Louise Shevick - Chemistry  
Mia Shin - Biomedical Sciences  
Leonard Heekyu Yoon - Chemical Biology

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of San Diego®

Byron Batz - Nursing  
Nicole Tamara Martinez - Nursing  
Allison Kathleen Perkins - Nursing  
Brooke Haley Rakes - Nursing



# 2019-2020 ARCS SCHOLARS



Bryce Eric Ackermann - Biochemistry  
Miriam Kathleen Bell - Mechanical Engineering  
Laura Brown Chipman - Biological Sciences  
Gabrielle Marie Colvert - Bioengineering  
Bethanny Patricia Danskin - Neurosciences  
Cayce Elizabeth Dorrier - Biomedical Sciences  
Michelle T Dow - Bioinformatics and Systems Biology  
Mickey Finn III - NanoEngineering  
Shereen Georges Ghosh - Biomedical Sciences  
John Patrick Gillies - Biological Sciences  
Mark Kalaj - Chemistry  
Emil Mario Karshalev - Materials Science and Engineering  
Kevin Richard Kaufmann - NanoEngineering  
Andrew Thomas Kleinschmidt - Chemical Engineering  
Jenna Joaquin Lawrence - Mechanical and Aerospace Engineering  
Chi-Wei Man - Biochemistry  
Ryan Jared Marina - Biomedical Sciences  
Nicole Patricia Mlynaryk - Neurosciences  
Colman Arthur Moore - NanoEngineering  
Jessica Yi-Jun Ng - Geochemistry  
Victor Wingtai Or - Chemistry  
Jason Alexander Platt - Biophysics  
Homa Rahnamoun - Biological Sciences  
Dimitrious Adrian Schreiber - Electrical and Computer Engineering  
Benjamin Shih - Mechanical and Aerospace Engineering  
Matthew David Stone - Public Health - Health Behavior  
Anthony Quoc Vu - Biomedical Sciences  
Alexander Jeffrey Whitehead - Bioengineering  
Andrew Ying - Statistics  
Jiarong Zhou - NanoEngineering

UC San Diego

# SCIENTIST OF THE YEAR

**HONORING: Paul Schimmel, PhD**

**Introduction: Dr. Benjamin Cravatt**



**Dr. Schimmel** is a biophysical chemist and translational medicine pioneer and is the Ernest and Jean Hahn Professor of Molecular Biology at Scripps Research. Prior to his arrival at Scripps Research, he was the John D. and Catherine T. MacArthur Professor of Biochemistry and Biophysics at The Massachusetts Institute of Technology (MIT).

Dr. Schimmel's research interests have focused on aminoacyl tRNA synthetases as fundamental interpreters of genetic information. His lab also discovered what others have referred to as a primordial, or "second" genetic code that was incorporated into the modern code. Dr. Schimmel is the author of more than 500 research publications, several textbooks, and holds a portfolio of patents. He has also founded several companies whose FDA-approved medicines have saved thousands of lives.





## ARCS ALUMNI SPEAKER

Jeffrey T. Roberts, PhD



Dr. Roberts completed his undergraduate degree at the University of California, Berkeley, where he earned a BS in Chemistry in 1982. He earned a PhD in Chemistry from Harvard University in 1988. Dr. Roberts served as Chair of the Department of Chemistry from 2005-09. In 2009, he moved to Purdue University, where he served as Frederick L. Hovde Dean of Science until 2017. Dr. Roberts became the Dean of the College of Sciences and Professor of Chemistry at San Diego State University in January 2019.

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## 2020 NATIONAL ARCS HALL OF FAME HONOREE

Jessica Meir, PhD



Dr. Meir is an astronaut, marine biologist and physiologist who received her undergraduate degree from Brown University in 1999. She received a Master's degree from the International Space University in Strasbourg, France in 2000 and obtained her PhD degree from the Scripps Institute of Oceanography in 2009.

In 2013 Dr. Meir was selected as a member of Astronaut Group 21 at NASA. In 2019 she became part of the first all-women team to walk in space when she spent 7 months on the International Space Station. She was awarded the 2020 ARCS Scholar Alumna Hall of Fame award in February, while on the Space Station, and returned to Earth in April 2020.





# ARCS SCIENTISTS OF THE YEAR



- 2018 Fred "Rusty" Gage, PhD**  
President, Salk Institute and Professor of Genetics Vi and John Adler Chair  
for Research on Age-Related Neurodegenerative Disease
- 2017 Karen E. Nelson, PhD**  
President  
J. Craig Venter Institute
- 2016 Lawrence S.B. Goldstein, PhD**  
Professor at UC San Diego,  
Stem Cell Research Scientist
- 2015 Gregory T. Lucier**  
Chairman and CEO, NuVasive
- 2014 V.S. Ramachandran, MD, PhD**  
Director of the Center for Brain and Cognition,  
University of California, San Diego  
Adjunct Professor of Biology, Salk Institute
- 2013 Eric J. Topol, MD**  
Director of Scripps Translational Science Institute  
Voted most influential physician executive in the United States 2012
- 2012 Dean Kamen**  
2000 National Medal of Technology Recipient  
Inventor of Segway® Human Transporter  
Founder of DEKA Research and Development  
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- 2011 Richard C. Atkinson, PhD**  
Former Director, National Science Foundation  
Chancellor Emeritus, University of California, San Diego  
President Emeritus, University of California System
- 2010 J. Craig Venter, PhD**  
Founder, Chairman and President  
J. Craig Venter Institute
- 2009 Erminia "Mimi" Guarneri, MD, FACC**  
Medical Director  
Scripps Center for Integrative Medicine
- 2008 Dr. Bruce Margon**  
Vice Chancellor for Research,  
Professor of Astronomy and Astrophysics  
University of California, Santa Cruz







# ARCS SCIENTISTS OF THE YEAR



- 2007 John C. Reed, MD, PhD**  
President and CEO  
Sanford-Burnham Institute for Medical Research
- 2006 Dr. Ivor Royston**  
Oncologist, Entrepreneur,  
Venture Capitalist and Philanthropist
- 2005 Elbert L. "Burt" Rutan**  
President and CEO  
Scaled Composites, LLC
- 2004 Dr. Sydney Brenner**  
Distinguished Professor  
Salk Institute for Biological Studies
- 2003 Marcia K. McNutt, PhD**  
President and CEO  
Monterey Bay Aquarium Research Institute
- 2002 Richard A. Lerner, MD**  
President  
The Scripps Research Institute
- 2001 Dean Ornish, MD**  
President  
Preventive Medicine Research Institute
- 2000 Dr. Irwin Mark Jacobs**  
Chairman and CEO  
QUALCOMM
- 1999 Francis H.C. Crick, PhD, OM, FRS**  
Nobel Laureate  
Distinguished Research Professor  
Salk Institute for Biological Studies
- 1998 Gail K. Naughton, PhD**  
President and Chief Operating Officer  
Advanced Tissue Sciences, Incorporated
- 1997 Kurt Benirschke, MD**  
Professor Emeritus of Pathology & Reproductive Medicine  
University of California,  
San Diego, Medical Center
- 1996 Dr. Floyd E. Bloom**  
Chairman and Member  
Department of Neuropharmacology  
The Scripps Research Institute  
Editor in Chief, Science





# ARCS SCIENTISTS OF THE YEAR



- 1995 Drs. Carolyn and Eugene Shoemaker**  
Codiscoverers of the Shoemaker-Levy 9 Comet
- 1994 Gerald M. Edelman, MD, PhD**  
Nobel Laureate  
Director  
The Neurosciences Institute
- 1993 Professor Walter H. Munk**  
Geophysicist  
Scripps Institution of Oceanography at the University of California, San Diego
- 1992 Dr. Paul MacCready**  
Inventor  
Gossamer Condor
- 1991 Admiral James D. Watkins, USN (Ret.)**  
Secretary  
U.S. Department of Energy
- 1990 Dr. Sally K. Ride**  
Astronaut  
Professor of Physics  
University of California, San Diego
- 1989 Dr. Simon Ramo**  
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TRW, Incorporated
- 1988 Dr. Cecil H. Green**  
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- 1987 Dr. Allen E. Puckett**  
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# HISTORY & IMPACT



The San Diego Chapter of ARCS began in 1985 and has grown from the original four founders to more than 100 members today. As we celebrate our 35th anniversary, we have made more than 1400 awards totaling well over \$10 million.

Our four academic partners are: San Diego State University, Scripps Research, University of California San Diego, and University of San Diego. ARCS Scholars are selected by their institutions in recognition of their achievements and their exceptional promise to contribute significantly to their fields. Basic requirements have been established by ARCS® Foundation, Inc.: Scholars must be U.S. citizens and have at least a 3.5 GPA; they must be enrolled in academic degree programs in science, engineering, or medical research. Awards are unrestricted and merit-based. The San Diego chapter focuses on supporting students in doctoral programs, and the ARCS Scholars we have funded have a 98% graduation rate, compared with the national rate of 60% for graduate students in the sciences and engineering. Annual awards to Scholars range from \$5,000 to \$10,000.

For the 2019-2020 academic year, the San Diego ARCS chapter has awarded \$405,000 to 57 Scholars.

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## ARCS MISSION

ARCS Foundation advances science and technology in the United States by providing financial awards to academically outstanding U.S. citizens studying to complete degrees in science, engineering and medical research.



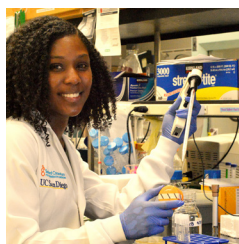


# ARCS INVESTING IN OUR FUTURE



Now more than ever it is important to focus on science, technology, research and innovation. Join us and be part of advancing science in America.

The Scholar Award Fund is supported by ARCS members, foundations, academic institutions, businesses, and individuals in the community.



Give on-line at [san-diego.arcsfoundation.org](http://san-diego.arcsfoundation.org)

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Gifts of any size are welcome. All gifts are tax-deductible and greatly appreciated by members, Scholars and their academic institutions.

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**100%**  
**OF EVERY DONATION IS USED FOR**  
**SCHOLAR AWARDS**

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The Chapter also accepts:

- Memorial and Honorary Gifts
- Endowment Fund Contributions
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= Union Bank

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