



Forging the Path to
Scientific Discovery

ARCS

ADVANCING
SCIENCE
IN AMERICA®

2019 Annual Report



SCHOLAR,
ZACHARY ELDREDGE | METRO WASHINGTON
UNIVERSITY OF MARYLAND
PHYSICS



“ARCS has enabled me to connect with a broad network of scientists and professionals who expand my research, enrich my experience, allow me to push scientific boundaries, and develop an awareness of community needs.”

SCHOLAR, **LIZZY CRIST | MINNESOTA**
UNIVERSITY OF MINNESOTA
BIOMEDICAL ENGINEERING

[ON THE COVER]

SCHOLAR,
THI NGUYEN | NORTHERN CALIFORNIA
UNIVERSITY OF CALIFORNIA, DAVIS
VITICULTURE AND ENOLOGY

“It can be difficult to secure funding for fundamental research, but ARCS Foundation has allowed me to carry out such research into the basic chemistry of wine aging that will benefit a prominent and deeply-rooted industry in California.”



Photo credit: Steven Zylius, UCI

ARCS MISSION

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

A VISION MORE RELEVANT THAN EVER

As the era of space exploration dawned, the 1957 launch of Sputnik shocked the nation, both fascinating and alarming the American people. But for one group of visionary women in Los Angeles, the event sparked an idea. They realized a need for scientific philanthropy to advance the United States' competitive standing and believed the women in America could make a difference. With the assistance of their leadership and support, our nation could increase its pool of scientific talent and regain its position in the world. In 1958, ARCS founders met with the California Institute of Technology President, Lee DuBridge, and together they created a unique partnership between science and philanthropy. ARCS Foundation would become a source of much-needed support for young American scientists poised to make important discoveries.

More than 60 years later, ARCS Foundation has provided more than \$115 million in financial awards to the brightest STEM scholars across the nation.



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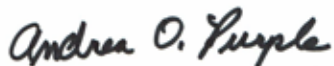
FROM THE 2017-19 NATIONAL PRESIDENT

There have been many changes since I joined ARCS Foundation at ARCS Metropolitan Washington Chapter in 1987, but our focus hasn't changed. ARCS continues to promote American competitiveness by supporting talented US citizens working to complete degrees in science, technology, engineering, mathematics (STEM) and health disciplines at 49 leading research universities across the country. We have a clearly defined and consistent mission, and we haven't wavered from that.

My two-year term has been challenging but also very rewarding. Based on our 2017-22 Strategic Plan, we refined and downsized our national board to put more focus on strategic responsibility. We hired our first association management company, and then made the difficult decision to part ways with them, and a new contract was signed with our current company, Association Services Group (ASG). We celebrated our 60th anniversary thanks to the dedicated members of ARCS who are passionate about advancing science in America and donate many volunteer hours and the funds to make that happen.

I am most proud, however, of the strengthened relationship between chapters and the national organization that has grown with more understanding of how National supports all 15 chapters.

I am thrilled to have had the honor of serving as your National President, which gave me the opportunity to meet and work with a diverse and dynamic group of women, both on a local and national level, and also to meet so many of our scholars. It was a truly wonderful experience for me.



Andrea "Andi" Purple, 2017-19 National President



2017-19 National President, Andi Purple, left, with President-elect Sherry Lundeen, right.

FROM THE 2019-20 INCOMING NATIONAL PRESIDENT

As my term as President begins, I am looking forward to leading ARCS Foundation in our 62nd year as an organization dedicated to fostering the success of future scientists, engineers, and research physicians. I am proud of the contribution ARCS Foundation is making, but we must continue to keep our mission of advancing science and technology in the United States front and center.

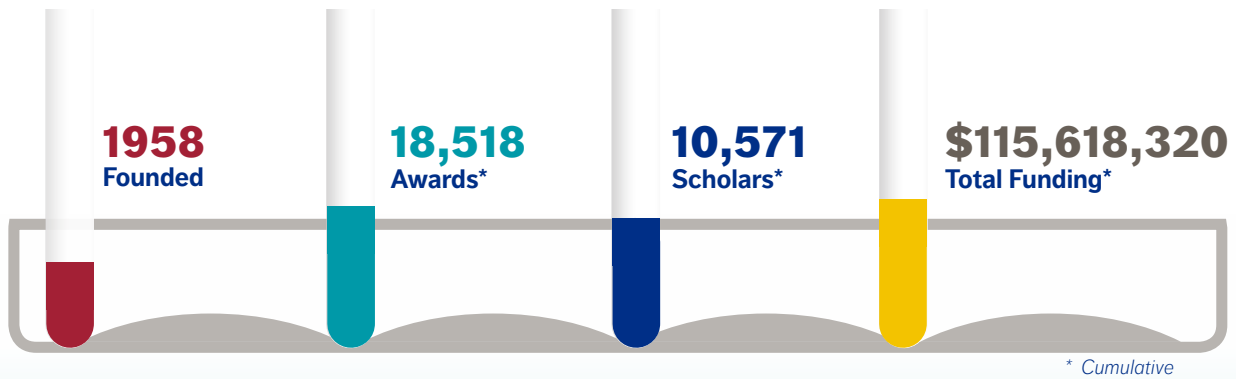
I look forward to visiting ARCS Chapters, meeting with members and scholars, and continuing to build on the past success of those who have come before me.

Sincerely,



Sherry B. Lundeen, 2019-20 National President

61 YEARS OF SUPPORT FOR SCIENTIFIC INNOVATORS



ANNUAL IMPACT FY 2019

93%
In Support of
Graduate
Students

646
Number of
Scholar
Awards

\$4,958,804
Amount of Scholar Awards

OUR NATIONAL REACH

49
Approved
Universities

15
Chapters

611
Approved Programs
& Departments

1,270
ARCS
Members

\$7,676
Average scholar
Award

ENDOWMENT
FUNDS

{ **\$2.2 MILLION**
National Endowment

\$36.2 MILLION
Chapter Endowments



2018-19 BOARD OFFICERS AND DIRECTORS - LEADING THE WAY



Andi Purple*
PRESIDENT
 Metro Washington,
 Atlanta



Nancy Chambers*
**VICE PRESIDENT,
 FINANCE/
 OPERATIONS**
 Atlanta



Penny Papadopoulos*
SECRETARY
 Phoenix



Dawn Carson Senger*
TREASURER
 Phoenix



Sherry Lundeen*
PRESIDENT-ELECT
 Atlanta



Lynne Brickner
**AUDIT AND ENDOWMENT
 FUND COMMITTEES**
 Los Angeles/Utah



Sara Jean Burke
**COUNCIL OF PRESIDENTS
 REPRESENTATIVE**
 Atlanta



Christy Burton
AUDIT COMMITTEE
 Phoenix



Linda Celesia
**CHAIR, UNIVERSITY
 RELATIONS**
 Illinois



Jane Dolinger
CHAIR, NOMINATING
 Atlanta



Joan Foley
**COUNCIL OF PRESIDENTS
 REPRESENTATIVE**
 Oregon



Sue Harter*
PARLIAMENTARIAN
 (non voting)
 Pittsburgh



Christine Hawes
**IMMEDIATE PAST
 CHAIR, COUNCIL OF
 PRESIDENTS**
 Phoenix



Jackie Henson*
**CHAIR, COUNCIL OF
 ADVISORS**
 Metro Washington



Anna Maria Matteucci
**NATIONAL ENDOWMENT
 FUND COMMITTEE**
 Phoenix



Sally McDaniel
**CHAIR, FUND
 DEVELOPMENT**
 Atlanta



Margaret McGann
CHAIR, AUDIT
 Seattle/Utah



Patty Sparrell*
**CHAIR, COUNCIL OF
 PRESIDENTS**
 Metro Washington



Carol Stockman
**CHAIR, CHAPTER
 ENGAGEMENT**
 Pittsburgh/Atlanta



Kathy Testoni
**COUNCIL OF PRESIDENTS
 REPRESENTATIVE**
 Pittsburgh



Sarah Vandenplas
**COUNCIL OF PRESIDENTS
 REPRESENTATIVE**
 Illinois



Beth Wainwright
**CHAIR,
 COMMUNICATIONS AND
 MARKETING**
 Pittsburgh

*Executive Committee

ARCS NATIONAL ADVISORS

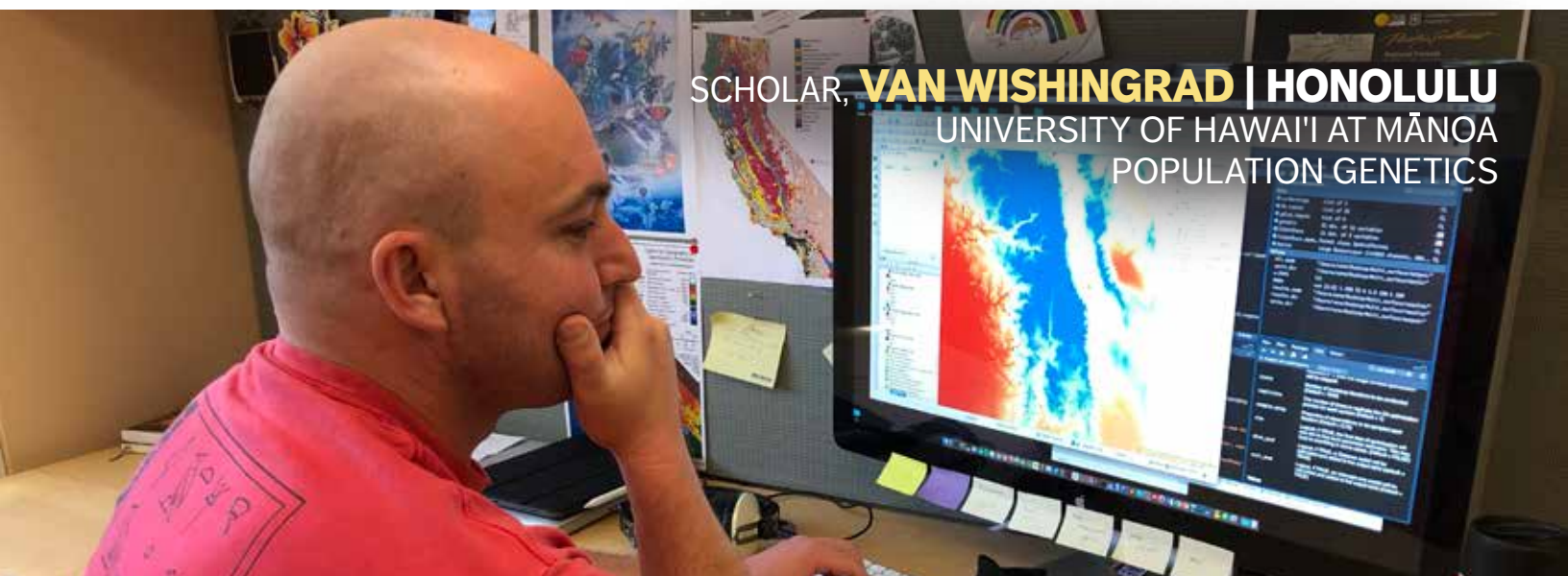
COUNCIL OF ADVISORS

- **Jackie Henson (Chair)** - Metro Washington
- **Roulhac Austin** - Northern California
- **Judy Benham** - Minnesota
- **Lynne Brickner** - Los Angeles/Utah
- **Donna Casey** - Northern California
- **Angela Phillips Diaz** - Metro Washington
- **Jane Dolinger** - Atlanta
- **Vicki Glant** - Seattle
- **Bennetta Kelly** - Illinois
- **Marcia McGreevy Lewis** - Seattle
- **Anna Maria Matteucci** - Phoenix
- **Sandra Matteucci** - Phoenix
- **Judith Miller** - Los Angeles/Utah
- **Caron Ogg** - Oregon
- **Lynne Sonntag** - Phoenix
- **Nancy Spetzler** - Phoenix
- **Donna Spivey** - Illinois
- **Andrea Thoreson** - Seattle
- **Shirleen Tucker** - Colorado
- **Yolanda Walther-Meade** - Los Angeles/San Diego
- **Janie Wilson** - Atlanta

SCIENCE & ENGINEERING ADVISORY COUNCIL (SEAC)

- **Leonard A. Fisk, SEAC Chair, PhD**
Thomas M. Donahue Distinguished University Professor of Space Science, University of Michigan
- **Chad Evans**
EVP, Council on Competitiveness
- **Sharon Feng, PhD**
Executive Director, Institute for Molecular Engineering, University of Chicago; Head, Industrial and Packing Coatings R&D of PPG Industries, Inc.
- **Scott Fouse**
Retired, Vice President, Lockheed Martin Advanced Technology Center
- **Wayne Goodman, PhD**
EVP Operations and Support Group, The Aerospace Corporation
- **Karin Hollerbach, PhD**
CEO, Taku Group
- **Steven Koonin, PhD**
Director, NYU Center for Urban Science and Progress
- **Marty Kress**
AVP Research, Ohio State University
- **Irene McGee, PhD**
VP Health, Safety, Environment and Quality, Covestro
- **Norine Noonan, PhD**
Professor Emerita of Biology, University of South Florida at St. Petersburg
- **Suneel Sheikh, PhD****
CEO and Chief Research Scientist, Advanced Space Technology and Research Laboratories
- **Mary Lassiter Snitch***
Sr. Manager, External Strategic Relations, Corporate Engineering and Technology, Lockheed Martin Corporation (ARCS Metro Washington)
- **Lynne Brickner***
SEAC Secretary (ARCS Los Angeles/Utah)

*Member ARCS Foundation
**ARCS Scholar Alum



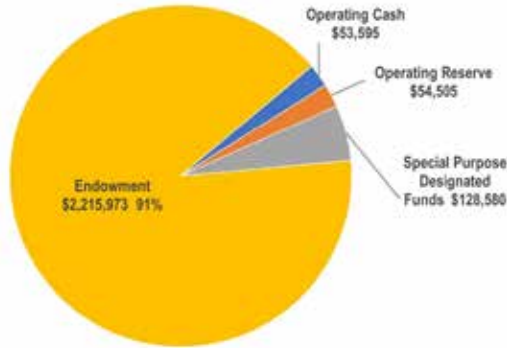
SCHOLAR, **VAN WISHINGRAD** | HONOLULU
UNIVERSITY OF HAWAII AT MĀNOA
POPULATION GENETICS

ARCS NATIONAL OPERATIONS FY 2019

FINANCIAL STABILITY – FISCAL MANAGEMENT AND OVERSIGHT

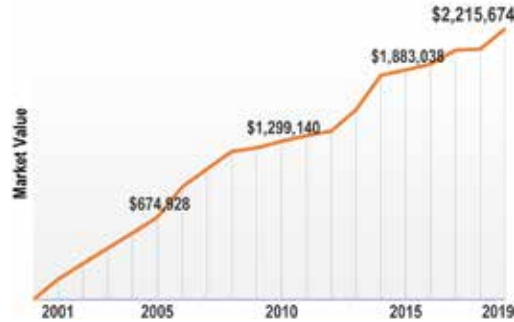
ARCS National Assets

As of June 30, 2019; Total = \$2,452,653

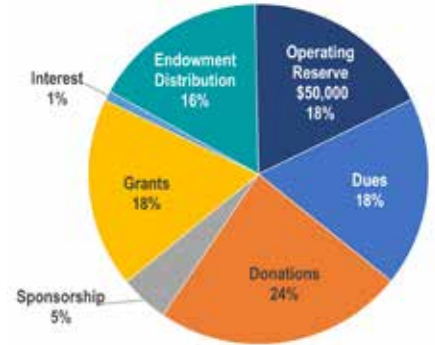


National Endowment

19 Year History of Growth



Sources of 2019 Operating Funds



FUND DEVELOPMENT – BUILDING ORGANIZATIONAL SUSTAINABILITY

Growth in National Donors



Growth in National Contributions



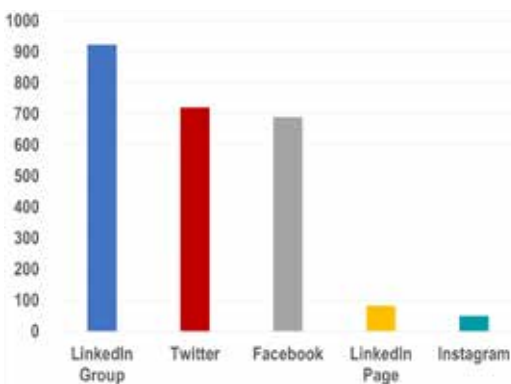
Designation of Contributions

Median National Donation = \$100

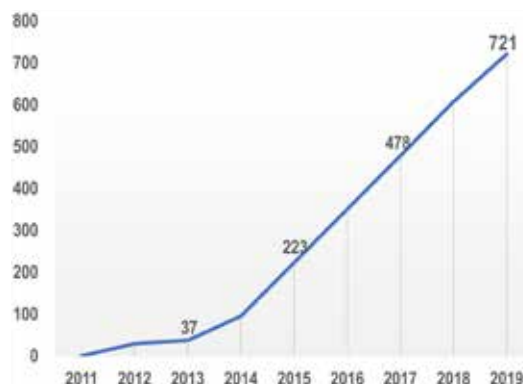


COMMUNICATIONS – INCREASING ARCS AWARENESS AND NATIONAL OUTREACH

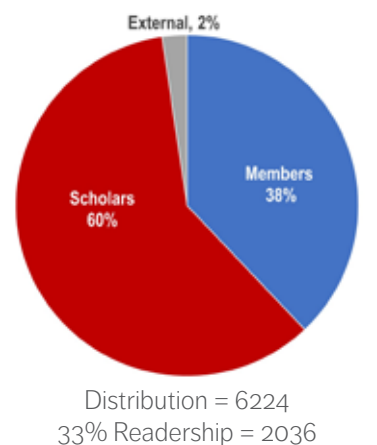
ARCS Social Media Followers



Growth in Twitter Followers



National Newsletter Readers



2018-19 MILESTONES

✓ 3 AWARD MILESTONES

Most annual funding ever awarded
Highest number of scholar awards in any year
Cumulative awards exceeded \$115 million

✓ 4 CHAPTER AWARD MILESTONES

Atlanta (More than \$5 million total funded)
Colorado (More than 1,000 scholars funded)
Minnesota (Chapter Challenge Grant recipient with 100% members giving to ARCS National)
San Diego (More than \$10 million total funded)

✓ 3 NEW INTERDISCIPLINARY PROGRAMS APPROVED

✓ 3 FUNDRAISING MILESTONES

35% Increase in National donor loyalty
100% Board Directors and Council of Advisors donated to ARCS National
348% Increase in first-time donors to ARCS National

✓ 5 CHAPTER ANNIVERSARIES

Honolulu (45 years)
Orange County (20 years)
Oregon (15 years)
Minnesota (10 years)
Utah (10 years)

✓ 8 YEARS OF CONTINUOUS GROWTH IN SCHOLAR FUNDING BY ARCS CHAPTERS

✓ 10TH INDUCTEE INTO ARCS ALUMNI HALL OF FAME

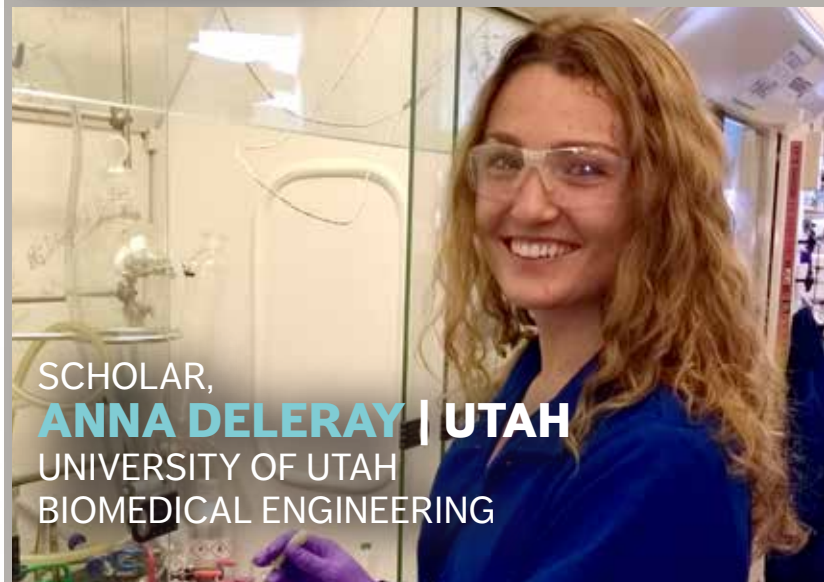
Peter J. McDonnell, MD



SCHOLAR,
HANIA FLATEN | COLORADO
UNIVERSITY OF COLORADO
ANSCHUTZ MEDICAL CAMPUS
PERSONALIZED MEDICINE



SCHOLAR,
JACOB ZBESKO | PHOENIX
UNIVERSITY OF ARIZONA
IMMUNOBIOLOGY



SCHOLAR,
ANNA DELERAY | UTAH
UNIVERSITY OF UTAH
BIOMEDICAL ENGINEERING

SCHOLARS - PIONEERING INNOVATION

Hundreds of current ARCS Scholars are paving the way to new discoveries that will lead to scientific progress, global STEM competitiveness, and advances in national security. But many ARCS Scholars face extremely limited options to fund their work and living expenses.

ARCS Foundation's unrestricted funding helps put scholars on the road to scientific exploration and discovery.

Over the past 60 years, ARCS has funded more than 10,000 scholars, many of whom continue to contribute as alumni — innovating, founding companies, and publishing groundbreaking research. Their work drives US economic growth, global competitiveness, and discoveries that lead to a better quality of life.

GUIDING PRINCIPLES FOR SCHOLAR AWARDS

To ensure the strongest possible impact on scholars, ARCS Foundation follows strict standards:

- 100% of Scholar Award contributions go directly to scholars.
- Scholars must be US citizens, enrolled full-time, with a GPA of 3.5 or higher, and majoring in STEM research fields.
- Partner universities that are approved by the ARCS National Board on the basis of excellence in science, engineering, mathematics, and/or medical research select ARCS Scholars.

SCHOLAR, **MARIE TOSA** | OREGON
OREGON STATE UNIVERSITY
AGRICULTURAL SCIENCE

IMPACT ON SCHOLAR EDUCATION



89% SIGNIFICANT DIFFERENCE IN SCHOLARS' EDUCATION



77% IMPORTANT FOR MORAL SUPPORT AND ENCOURAGEMENT



63% SIGNIFICANT IMPORTANCE TO LIFE AFTER GRADUATION



64% IMPORTANT FOR COMPLETION OF THE RESEARCH



48% IMPORTANT FOR COMPLETION OF THE DEGREE



34% IMPORTANT FOR COMPLETING THE DEGREE MORE QUICKLY

AREAS OF STUDY

AERONAUTICS
AGRICULTURE
ASTRONAUTICS
ASTRONOMY
ATMOSPHERIC SCIENCES
BIOCHEMISTRY
BIOLOGY
BOTANY
CHEMISTRY
COMPUTATIONAL BIOLOGY
COMPUTER/INFORMATION SCIENCE
DENTISTRY
ECOLOGY
ENGINEERING
ENTOMOLOGY
ENVIRONMENTAL STUDIES
EPIDEMIOLOGY
FISHERY SCIENCE
FOOD SCIENCE & NUTRITION
FORESTRY
GENETICS
GEOLOGY
IMMUNOLOGY
MATHEMATICS
MEDICINE
MOLECULAR BIOLOGY
NEUROSCIENCE
NURSING
OCEANOGRAPHY
PHARMACOLOGY
PHYSICS
PUBLIC HEALTH
RANGE MANAGEMENT
SPACE SCIENCE
SPEECH AND HEARING SCIENCES
STATISTICS
VETERINARY MEDICINE
WILDLIFE MANAGEMENT
ZOOLOGY



SCHOLAR,
RIGO CINTRON-COLON | SAN DIEGO
SCRIPPS RESEARCH
NEUROBIOLOGY AND PHYSIOLOGY OF
TEMPERATURE REGULATION



SCHOLAR,
JESSICA SAW | ILLINOIS
UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN
MOLECULAR AND INTEGRATIVE PHYSIOLOGY

OUR ALUMNI - DISCOVERING A NEW FUTURE

ARCS SCHOLAR ALUMNI MAKE SIGNIFICANT CONTRIBUTIONS

RESEARCH

Publications, presentations,
largescale grants



ECONOMIC DEVELOPMENT

Founding science-related
companies



INNOVATION

Acknowledged by significant
scientific awards and patents



BUILDING THE STEM PIPELINE

Teaching, mentoring K-12 and
current scholars



Thousands of ARCS Alumni go on after graduation to make outstanding contributions to the advancement of science and to our nation's competitiveness. As evidence of ARCS Foundation's impact, alumni develop new therapies, secure patents for important technology, start innovative companies, become national science leaders, and push discovery forward.

HONORING ARCS ALUMNI

Among this exceptional group are alumni to whom ARCS Foundation pays the highest tribute with induction into ARCS Alumni Hall of Fame. Inductees have distinguished themselves by demonstrating leadership in one or more of the following areas:

- **Scientific innovation and discovery**
- **Recognition by peers**
- **Mentoring future scientists to fill the STEM pipeline**
- **Founding or leading an organization that has had a significant impact on the US economy**
- **Increasing awareness of the importance of national scientific competitiveness**

MEMBERS ARCS ALUMNI HALL OF FAME

*recognized
for their outstanding
contributions to the
advancement of science*

SHANNON BROWNLEE, MS - Inducted 2015
ARCS Scholar 1982 at University of California, Santa Cruz
For scientific writing and advocacy that has improved public understanding of science and medicine and helped transform US health care.

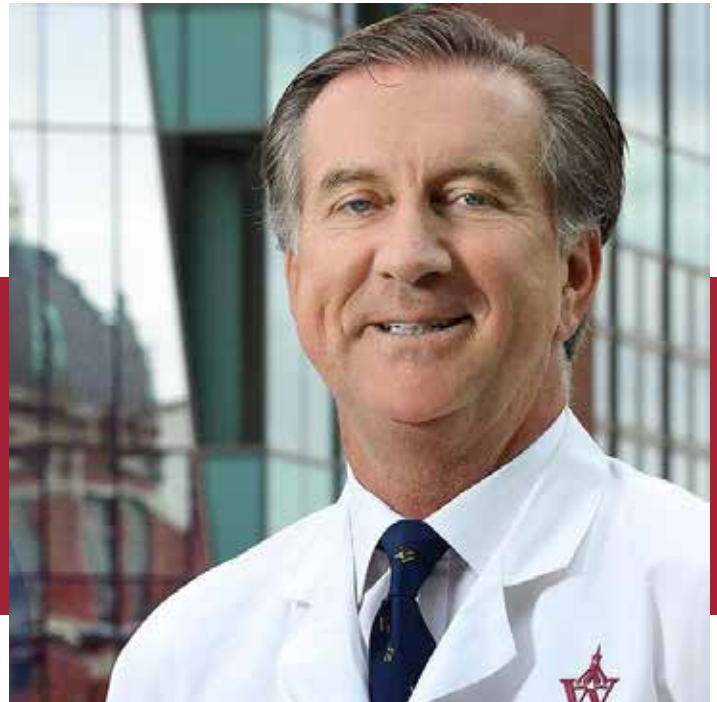
BARBARA JACAK, PhD - Inducted 2015
ARCS Scholar 1975 at University of California, Berkeley
For significant contributions to our understanding of how the universe evolved and her role in the development of the PHENIX large collider at Brookhaven National Laboratory.

RALPH B. JAMES, PhD - Inducted 2015
ARCS Scholar 1979-80 at California Institute of Technology
For substantial impact as an inventor and transformative research in photoconductive science that has led to improvements in astrophysics and medical imaging.

2019 HALL OF FAME INDUCTEE, **PETER J. McDONNELL, MD**

**ARCS Scholar 1981
at The Johns Hopkins University**

**Recognized for advances in
ophthalmology that have improved
sight for patients worldwide**



“The encouragement I received 30 years ago from a group of women who simply wanted a young scientist to thrive in the world of science inspired me to pursue the joy of scientific discovery and ultimately decided my career.”

- **Director of Wilmer Eye Institute, largest ophthalmology center in the US • International leader in corneal transplantation, laser refractive surgery, and treatment of dry eye • Holder of seven ophthalmic patents • Member of prestigious Academia Ophthalmologica Internationalis**

STEPHEN M. LICHTEN, PhD - Inducted 2016
ARCS Scholar 1981 & 1983 at California Institute of Technology
For leadership at NASA's Jet Propulsion Laboratory and contributions to the invention of GPS technology that ensures reliability and accuracy of commercial aircraft navigation.

DAVID MANGELSDORF, PhD - Inducted 2015
ARCS Scholar 1985 at The University of Arizona
For groundbreaking research on orphan receptors that helped launch an entire field of biology and led to important breakthroughs in treatments for human diseases.

SUNEEL SHEIKH, PhD - Inducted 2017
ARCS Scholar 2002-04 at University of Maryland
For aerospace research and inventions, including one that is used on the International Space Station, and for educational initiatives that inspire future scientists.

CHRISTOPHER STUBBS, PhD - Inducted 2017
ARCS Scholar 1987-88 at University of Washington
For profound impact on physics through work detecting the expansion of the universe and discovery of “dark energy” and his role as US government advisor on national security technology.

NEIL DEGRASSE TYSON - Inducted 2018
ARCS Scholar 1991-92 at Columbia University
Recognized for significant contributions in communications that have raised scientific awareness for millions.

JEANNE VANBRIESEN, PhD, PE - Inducted 2016
ARCS Scholar 1992-97 at Northwestern University
For influence on water quality, sustainability, and engineering practices through research; contributions to water policy; and mentoring the next generation of engineers.

ACADEMIC PARTNERS - BUILDING THE STEM PIPELINE

WIDENING THE SCOPE FOR NEW DISCOVERIES

A new cure for a disease or an innovative new technology is always a big story, but what's rarely reported is the critical work that led to these discoveries—basic research.

This is the research on which our scientific solutions and technology wonders are built, and it takes time, constant pursuit, and a collaborative, supportive environment.

Though federal support for basic research at US colleges and universities has steadily reduced, ARCS Foundation continues to step in to fill the gap.

For more than 60 years we have partnered with US universities ranked in the top 50 in the country for science, technology, engineering, and mathematics.



CHANCELLOR,
GEORGE R. BLUMENTHAL
UNIVERSITY OF CALIFORNIA, SANTA CRUZ

“The generosity of ARCS Foundation allows our talented students a pathway to complete their dissertations and move into the professional world across a variety of STEM disciplines. The importance of ARCS funding is demonstrated by the impressive professional success that our ARCS Scholars have achieved over the years.”

✓ **New approved interdisciplinary program: Department of Environmental Studies**

2018-19 APPROVED UNIVERSITIES

Arizona State University
California Institute of Technology
Carnegie Mellon University
Colorado School of Mines
Colorado State University
Emory University
Georgetown University
Georgia Institute of Technology
Harvey Mudd College
Illinois Institute of Technology
Loyola University Chicago Stritch School of Medicine
Morehouse College
Northern Arizona University
Northwestern University
Oregon Health & Science University
Oregon State University
Pomona College

San Diego State University
San Francisco State University
Scripps Research
Stanford University
The George Washington University
The Johns Hopkins University
The University of Arizona
University of California, Berkeley
University of California, Davis
University of California, Irvine
University of California, Los Angeles
University of California, San Diego
University of California, San Francisco
University of California, Santa Cruz
University of Chicago
University of Colorado Anschutz Medical Campus
University of Colorado at Boulder

University of Colorado at Colorado Springs
University of Colorado at Denver
University of Georgia
University of Hawai'i at Mañoa
University of Illinois at Urbana-Champaign
University of Maryland
University of Minnesota
University of Oregon
University of Pittsburgh
University of San Diego
University of Southern California
University of Utah
University of Virginia
University of Washington
Washington State University

INSIGHT FROM ARCS ACADEMIC PARTNERS [29 respondents who collaborate with ARCS expressed opinions]

90% agree that ARCS Scholar Award and selection criteria fulfill ARCS mission.

75% agree that ARCS Award, relative to other awards at their university, is very prestigious.

80% agree that ARCS mission to strengthen US STEM capacity is more valid today than in 1958.

66% agree that ARCS Award enhances their ability to attract top students.

WITH INTERDISCIPLINARY RESEARCH PROGRAMS

Interdisciplinary research programs are on the rise in leading US universities. Through this diversified approach to research, scholars combine traditional coursework with social or clinical experience, cutting across fields of study. This leads to enhanced understanding and application, and, potentially, to new discovery.

ARCS Foundation is pleased to have approved three new interdisciplinary programs in FY 2019 with existing academic partners University of California, Santa Cruz; University of Georgia; and University of Washington.

PRESIDENT,
ANA MARI CAUCE
UNIVERSITY OF WASHINGTON

“Support from ARCS Foundation empowers UW graduate students in their search for interdisciplinary solutions to our most urgent problems. ARCS Foundation has been a steadfast partner with the UW for more than 40 years as we attract the most promising graduate students in STEM fields.”



✓ **New approved interdisciplinary program: Department of Speech and Hearing Sciences**



PRESIDENT,
JERE W. MOREHEAD
UNIVERSITY OF GEORGIA

“ARCS Foundation has been an outstanding partner in education, providing more than \$1 million in funding to nearly 100 UGA PhD students. I am excited that students in our Institute of Bioinformatics are now eligible for funding to conduct interdisciplinary research critical to medicine, agriculture, cybersecurity, and other fields. ARCS Foundation is helping our students make a positive impact on the world.”

✓ **New approved interdisciplinary program: Institute of Bioinformatics**

INDUSTRY PARTNERS - FUNDING THE FUTURE

NATIONAL CORPORATE SCHOLAR PROGRAM

The National Corporate Scholar Program is a collaborative joint-funding model that leverages the expertise and infrastructure of the ARCS Scholar Award program to help ARCS Scholars obtain advanced STEM degrees, filling the STEM pipeline with the future leaders of scientific innovation.

Funding comes from ARCS Corporate Partners with matching funds from individual ARCS Chapters. ARCS Scholars are chosen across all chapter regions based on consistent criteria and ARCS national standards. This structure enables the Foundation to offer multi-year support to the nation's top scholars who are dedicated to STEM research and discovery.

BRANDON MCFARLIN | SCHOLAR, **LOS ANGELES**
UNIVERSITY OF SOUTHERN CALIFORNIA
MEDICAL BIOLOGY

“ARCS Foundation represents an organization positively impacting the world through their support of the new generation of scientists, physicians, and engineers.”

COUNCIL ON COMPETITIVENESS

ARCS Foundation is dedicated to building bridges that will sustain our mission to advance science in America for years to come. Among corporate partnerships and organizational sponsors, this also includes maintaining a presence on leading scientific advisory boards in the United States.

As a member of the Council on Competitiveness, ARCS Foundation joins forces with national leaders in business, labor, academia, and government in the work of attracting high-value economic activity into the US. Membership on the Council is by invitation only, and ARCS Foundation leaders are proud to sit alongside chief executives of the country's most prominent nonprofit research organizations, professional societies, and trade associations to contribute our expertise.

ORGANIZATIONAL & EVENT SPONSORS

Organizations that support the mission of ARCS Foundation are vital to providing the resources needed to fund our work. These organizational sponsors commit to financially support the day-to-day operational needs of the Foundation. This enables ARCS Foundation to continue to achieve its mission to increase US scientific competitiveness worldwide.

The ARCS All Members Conference serves as the gathering place for dedicated philanthropists from around the nation to celebrate the successes of the past and share opportunities for advancing the mission of ARCS Foundation. Sponsors play a vital role in the event and all that it offers attendees — from world class speakers and seminars to fascinating, informative tours and top-notch networking.

Becoming a sponsor for ARCS Foundation nationwide events helps ensure that ARCS continues to elevate the work of our nation's best and brightest.

"America's leadership depends upon new discovery and the innovation that creates new opportunities and underpins future growth. ARCS Foundation is at the forefront of efforts to ensure the best and brightest scholars of science, engineering, and medical research pursue their dreams. The Council is honored to have ARCS Foundation as an affiliate member to the pursuit of our shared mission, bolstering our nation's competitiveness."

CORPORATE PARTNER BENEFITS

- ✓ Enhances corporation's national visibility
- ✓ Facilitates connections with new talent in partner's field
- ✓ Provides access to a network of top-ranked universities for recruiting recent graduates
- ✓ Taps established ARCS Foundation Scholar Award program administration

ARCS works closely with corporate and industry organizations to address STEM-related challenges to our nation's future.



**PRESIDENT AND CEO,
DEBORAH L. WINCE-SMITH
COUNCIL ON COMPETITIVENESS**

CHAPTER PRESIDENTS - FOSTERING GROWTH LOCALLY

ARCS Chapter presidents carry the mission throughout their home regions. They create relationships with partner institutions, champion ARCS Scholars, and connect members together to form lifelong friendships. Their grassroots leadership and support are vital to ARCS success.

Julie Branford
Oregon

Amy Rudolf
Seattle

Sue Dintelman
Utah

Susan Speece
Colorado (Interim)

Barb Goergen
Minnesota

Sarah Vandenplas
Illinois

Suzanne McGrath
Oregon

Chris Simpson Brent
Northern California

Donna Tohidi Anderson
Los Angeles

Patricia Lee
Honolulu

Mary Lou Quick
San Diego

Helga Moore
San Diego

Chandra Jain
Orange County

Susan McGonigle
Atlanta

Dawn Carson Senger
Phoenix



IN MEMORIAM

Valerie Brown 1940-2019
ARCS FOUNDATION
COLORADO CHAPTER PRESIDENT 2018-19

ARCS Foundation was saddened by the sudden loss of committed member and friend Valerie Brown in February 2019. Valerie served ARCS diligently for more than 25 years and was a dedicated and talented volunteer in the Colorado Chapter. Valerie, we thank you.

“ARCS local chapters across the US are the life of the organization. We represent ARCS Foundation in local communities and spread the word across the country about the work we do supporting the best and brightest in the STEM fields and advancing science.”

The women who join ARCS Foundation believe in the possibilities of science. They recognize the need to increase the number of students undertaking STEM research necessary to compete in today's global economy.



Bev Elliott
Pittsburgh



Jennifer Martin
Pittsburgh



Patty Sparrell
Metro Washington

"Beyond the financial component, I have really appreciated ARCS members and donors. They truly feel like I have family. I have established lasting relationships with them that would never have existed had it not been for ARCS."

SCHOLAR, **CHRIS HUGHES**
| **PITTSBURGH**
UNIVERSITY OF PITTSBURGH
BIOENGINEERING



ARCS LIGHTS - IGNITING CHAPTER SUCCESS

The annual ARCS Light Award is given to an ARCS member selected by each chapter with profound appreciation for their ingenuity, sacrifice, and long-term service. These individuals are honored for the outstanding contributions they make at the chapter level.



Nancy Chambers
Atlanta



Sue Zoby
Colorado



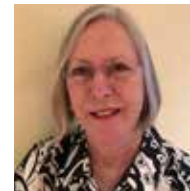
Susan Moore
Honolulu



Bennetta Kelly
Illinois



Cheryl Craft
Los Angeles



Susan Trice
Metro Washington



Leslie Martens
Minnesota



Jane Gardner
Northern California



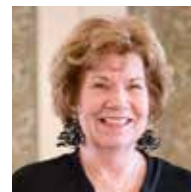
Carol Malouf
Orange County



Joan Foley
Oregon



Kathy Plenge
Phoenix



Pam Meadowcroft
Pittsburgh



Peggy Hanley
San Diego



Nancy Mee
Seattle

"It's an honor to join current and former ARCS Lights from Oregon and across the country. These committed, talented women are key to ARCS growth and success. Serving ARCS for the past 15 years has been a pleasure, and it has been rewarding to work with members and our universities to fund the stellar scholars I've come to know."

GENEROUS DONORS - LOOKING TO THE FUTURE



"I began donating my time and resources to ARCS National more than 25 years ago as a way to help set a good example for others and show my commitment to ARCS mission. Today, I contribute because I know that my gift will help National start new chapters, provide leadership and membership development, and grow our brand to strengthen US competitiveness nationwide."

Linda Celesia - National Chair, University Relations

HONORARY RECOGNITION - ARCS Foundation members know commitment and hard work when they see it. The individuals below were recognized as pillars of ARCS success through honorary donations.

- **Claudia Benack** – Metro Washington Chapter
- **Lynne Brickner** – Los Angeles/Utah Chapter
- **Sara Jean Burke** – Atlanta Chapter
- **Nancy Chambers** – Atlanta Chapter
- **Keith Cooley** – Atlanta Chapter Donor
- **Sue Harter** – Pittsburgh Chapter
- **Sherry Lundeen** – Atlanta Chapter
- **Sandra Matteucci** (pictured right) Friends showered Sandra with honorary gifts to her beloved ARCS Foundation in celebration of her 80th birthday.
- **Sally McDaniel** – Atlanta Chapter
- **Andi Purple** – Metro Washington Chapter
- **Dawn Carson Senger** – Phoenix Chapter



EVERY CHAPTER CHALLENGE

ARCS Minnesota Chapter claimed the prize during the first ever Every Chapter Challenge Contest! The Minnesota Chapter motivated 100 percent of members to donate and in turn received a \$2,500 grant for future scholar awards from ARCS National.

Pictured above: Minnesota Chapter President Barb Goergen accepts the check from ARCS National Fund Development Chair Sally McDaniel.

IN MEMORIAM – Memorial giving is often the greatest way to help loved ones treasure the legacy of a lost family member. These individuals were remembered through memorial donations to ARCS Foundation from family and friends.

- **Edwin Henson** – Treasured father to Jacqueline Henson, member of the Metro Washington Chapter.
- **Edith Anne Leonis** (pictured right) – A revered member of ARCS Los Angeles Chapter.
- **Kimiko Oshita** – Beloved mother to Lynne Brickner, member of Los Angeles and Utah Chapters. Kimiko was a passionate advocate of young women's education.
- **Dorothy "Dottie" Simpson** – Past ARCS National President, co-founder of ARCS National Endowment Fund, and esteemed member of the Seattle Chapter. Mother of Chris Simpson Brent, president of Northern California Chapter.



SPECIAL THANKS

to ARCS Foundation's most consistent donors who have supported the National organization for three consecutive years.

LOYALTY CIRCLE DONORS

- Di Alexander
- Roulhac Austin
- Lynne Brickner
- Sara Jean Burke
- Burton Family Foundation
- Donna Miller Casey
- Linda Celesia
- J. Richard Chambers
- Nancy Chambers
- Sue Dintelman
- Jane F. Dolinger
- Joan Foley
- Vicki Glant
- Barbara Goergen
- Eileen Haga
- Susan M. Harter
- Christine Hawes
- Jackie Henson
- Jean Josephson
- Patty Lee
- Marcia Lewis
- Debbie Liss
- Sherry Lundeen
- Anna Maria Matteucci
- Sandra Matteucci
- Sally S. McDaniel
- Margaret McGann
- Judith Miller
- Elli Nesbitt
- Caron Ogg
- Penny Papadopoulos
- Andi Purple
- Dawn Carson Senger
- The Sonntag Family Foundation
- Nancy Spetzler
- Donna R. Spivey
- Carol Stockman
- Kathy Testoni
- Beth Wainwright
- Yolanda Walther-Meade
- Janie Wilson
- Tyler Wingard

BURTON FAMILY FOUNDATION - GENEROSITY AND DEDICATION

ARCS National thanks the Burton Family Foundation for a generous three-year grant. With these funds, ARCS has been able to enhance visibility, expand fundraising, and execute a vibrant national conference.

"Receiving the ARCS Scholar Award has inspired me to devote my career to pioneering new territories in the field of immunology and human health. I am grateful and encouraged to be the recipient.

This award will enable me to continue my studies with an enhanced effort to perform rigorous, interpretable science that is relevant and accessible to the public."

SCHOLAR, **ANNA MORRIS**
| ATLANTA
EMORY UNIVERSITY
IMMUNOLOGY

NATIONAL DONORS

\$50,000 and Above

Burton Family Foundation
Friends of Sandra Matteucci

\$25,000 – 49,999

Ellen Glazer Ziegler Foundation

\$15,000-24,999

Andrea (Andi) Purple

\$5,000-9,999

Lynne Brickner
Anna Maria Matteucci
Sandra Matteucci
Sally S. McDaniel
Nancy Spetzler

\$2,500 – 4,900

Chris Simpson Brent
Donna Miller Casey
Linda Celesia
Nancy Chambers
Susan M. Harter
Cecy Jones
Sherry Lundeen

\$1,000 – 2,499

Sarah L. Batts
Sara Jean Burke
James Richard Chambers
Jane F. Dolinger
Vicki Glant
Judith Greenspon
Jacqueline (Jackie) Henson
Bennetta Kelly
John Lundeen
M. Niver McGann
Diane and Tom Might
Elli Nesbitt
Penny Papadopoulos
Dawn Carson Senger
Erston Senger
The Sonntag Family Foundation
Patricia Sparrell
Nancy and Ed Squires
Carol Stockman
Sarah and Mark Vandenplas
Beth Wainwright

\$500 – 999

Erik and Laura Bierwagen
Beverlynn Elliott
Jennifer Galvin
Barbara Hamkalo
Leslie and Richard Hansen
Russell Kemerer
Marcia Lewis
Suzanne McGrath
Judith Miller
Donna R. Spivey
Janie Wilson



68% of donors made their first gift to National in FY 2019

\$100 – 499

Di Alexander
Sue Alexopoulos
Linda Armijio & Joseph Genchi
Roulhac Austin
Judith L. Benham
Charlotte Beukema
Carla Blumberg
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Mr. Chris Brookshire
Christy Brown
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Caroline Hardin
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Kathy Testoni
Linda Thier
Judith Thomas
Andrea Thoreson
Carol Towne
Susan Trice
Shirleen Tucker
Suzy Wasserman
Michele Wells
Susan Woodrow

HOW YOUR DONATIONS DRIVE CHAPTER GROWTH

Every donation to ARCS Foundation National enables us to support the efforts of the chapters. From fundraising to communications support, ARCS National aims to foster growth at local chapters to help US scientific competitiveness spread nationwide.

PROVIDES CHAPTER GRANTS AND FUND RAISING SUPPORT

Through grants, online support, and promotions, National helps chapters grow and increase scholar funding.

PROMOTES NATIONAL AWARENESS

ARCS Foundation has a mission and a story to tell. With press releases, a monthly national e-newsletter, and weekly social media posts, ARCS National promotes the ARCS mission and brand 365 days a year.

CONDUCTS CHAPTER TRAINING & WEBINARS

Chapter leaders can find professional development and leadership training on relevant topics year-round on ARCS PATS Online Learning portal and in webinars.

SUPPORTS CHAPTER FUNDRAISING

By absorbing major costs like credit card fees and supporting digital media campaigns such as #GivingTuesday, ARCS National helps chapters meet their development goals.

MEASURES IMPACT AND PROVIDES INSIGHT

ARCS National helps chapters stay abreast of changing trends through surveys and advice from the National Science & Engineering Advisory Council that deliver actionable insights to help chapters stay relevant and adjust.

MAINTAINS UNIFORM STANDARDS

From coast to coast, scholars and approved universities know the mission and value of ARCS support through ARCS Foundation's consistent national standards.

ELEVATES NATIONAL VISIBILITY OF SCHOLARS AND ALUMNI

ARCS Scholars are changing the future. Through promotion and nationally recognized ARCS Scholar Awards and ARCS Alumni Hall of Fame, ARCS National illustrates the impact of our mission.

PROVIDES CHAPTER COMMUNICATIONS SUPPORT


Every chapter receives the communications tools it needs for success. National provides an annual report, brochures, folders, marketing tool kits, a national online database, and a website with event registration and tech support for every chapter when needed.

SUPPORTS NETWORKING & SYNERGY

ARCS National meetings cultivate community. By bringing together members at the ARCS All Members Conference and focused national events throughout the year, cross-chapter relationships, shared resources and idea exchange are fostered.

MAINTAINS NATIONAL IDENTITY

By establishing brand uniformity, identity, and selection guidelines, ARCS National equips each chapter to promote and enhance the ARCS brand of scientific support and achievement. The national brand strengthens each chapter's local outreach and adds acclaim and credibility to ARCS Scholar Awards.



"The support from ARCS was catalytic in my choice to return to school and start research at UW. ARCS funding has enabled me to follow my calling in natural resources data science and pursue a PhD while continuing part-time as Director of Forestry Technology at Ecotrust."

SCHOLAR,
DAVID DANIEL DIAZ
| SEATTLE
UNIVERSITY OF WASHINGTON
ENVIRONMENTAL AND FOREST
SCIENCES

ARCS FOUNDATION CHAPTERS

ATLANTA

COLORADO

HONOLULU

ILLINOIS

LOS ANGELES

METRO WASHINGTON

MINNESOTA

NORTHERN CALIFORNIA

ORANGE COUNTY

OREGON

PHOENIX

PITTSBURGH

SAN DIEGO

SEATTLE

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ARCS® Foundation

PO Box 2649
LaGrange, GA 30241
national@arcsfoundation.org
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