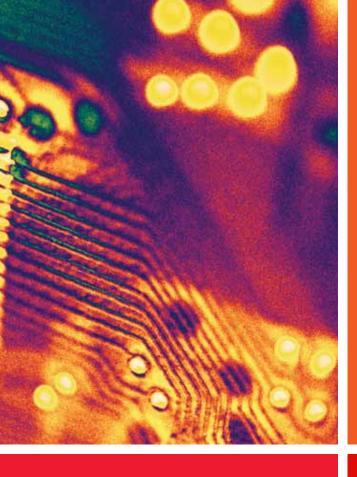
Advancing Science in America



Aeronautics Astronautics Applied Mathematics Aquatic Fishery Sciences Astronomy Atmospheric Sciences Biology Bioengineering Biostatistics Chemical Engineering Chemistry Civil & Environmental Engineering Computer Science & Engineering Crop & Soil Sciences Earth & Space Sciences Electrical Engineering Environmental Health Findustrial Engineering Materials Science & Engineering Mathematics Mechanical Engineering Medical Scientist Training Program Medicinal Chemistry Molecular & Cellular Biology Molecular Biosciences Molecular Plant Sciences Neurobiology & Behavior Neuroscience

Nursing Oceanography Pathobiology Pharmacy Physics Plant Pathology Public Health Genetics Quantitative Ecology & Resource Management Statistics Veterinary & Comparative Anatomy, Pharmacology & Physiology Veterinary Clinical Sciences Veterinary Microbiology & Pathology





Contents

Thoughts from the Presidents	1
Seattle Chapter: Thirty-five Years	2
Become an ARCS Foundation Donor	3
University of Washington Fellows	5
Washington State University Fellows	11
In Their Own Words	13
Where Are They Now?	14
ARCS Light Award	15
Donors	17

The Seattle Chapter of ARCS® Foundation, Inc. contributes to the worldwide by funding fellowships for academically outstanding students in the fields of science, engineering and medical research at the University of Washington and

Every great advance in science has issued from a new audacity of imagination.

— John Dewey

2013-2014 ARCS Foundation Seattle Chapter Officers

Andrea Thoreson **President Immediate Past President** Jacque Doane **President-Elect** Advisors-at-Large Vicki Glant Lynn Mowe **VP/Communications & Corporate Secretary** Cheryl Hadley **Communications Advisor**

VP/Finance

VP/Development

VP/Membership

Deborah Mizrahi

Marcia McGreevy Lewis Cori Kirkpatrick

Amy Rudolf

Deborah Mizrahi M.A. Sangeorzan

Lisa Losh **Beth Toomey** **VP/Programs**

Tina Neiders Nancy Mee

VP/University Relations

Emer Dooley

Director of Long-Range Planning

Susan Potts Janet McNae

Director of Nominations

2013 Annual Luncheon **Beverly Jefferson** Debbi Wilson

2014 Gala Co-Chairs

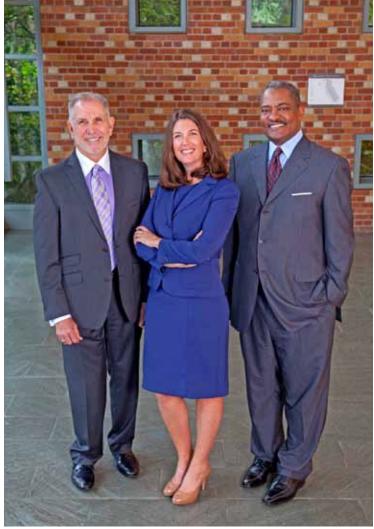
Co-Chairs

Kathy McQuaid Sally Wright

2014 Annual Luncheon **Co-Chairs**

Brooke deBoutray Ann McCutchan Wendy Rush

Thoughts from the Presidents



"ARCS Foundation, Seattle is one of the UW's most esteemed partners. For 35 years ARCS Foundation has promoted leadership in the sciences with its outstanding support of top doctoral scholars in science, engineering and medical research. We thank ARCS for its commitment and look forward to continuing our collaboration."

MICHAEL K. YOUNG — President, University of Washington

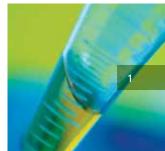
"As we celebrate 35 successful years, I'd like to extend our sincere gratitude to our remarkable supporters. Your visionary generosity gives our state's preeminent research institutions a competitive edge to recruit the nation's brightest PhD candidates in STEM-related disciplines. Your investment directly advances the nation's scientific and technological discoveries while stimulating our local and national economy. Thank you for your support!"

ANDREA THORESON — President, Seattle Chapter ARCS Foundation

"WSU's doctoral programs are among the best in the country. Supporting these PhD candidates helps ensure their success when one day they are charged with taking care of the world. I take pride in not only our students, but in the dedication and confidence shown by those who contribute to their education. ARCS Foundation, Seattle makes a huge difference to these students now, and its commitment will have lasting, global impact."

ELSON S. FLOYD, PhD — President, Washington State University





Seattle Chapter: Thirty-five Years of Advancing Science in America™

The Seattle Chapter of ARCS Foundation, Inc. was founded in 1978 as part of ARCS Foundation National, which today numbers more than 1,500 visionary women in 17 chapters across the United States who encourage the worldwide advancement of science and technology by funding scholar awards for undergraduate and graduate students in the fields of science, engineering and medical research.

Motivated by a unique combination of social consciousness, intellectual curiosity and generosity, ARCS Foundation National has provided more than \$87 million in awards to 14,754 scholars at 54 universities nationwide.

A dynamic, committed membership has made the Seattle Chapter one of the most successful in the nation, and both the UW and WSU view their relationship with ARCS Foundation as a strategic partnership.

The Seattle Chapter has been part of the UW community for 35 years and WSU's for more than 13. The chapter's annual funding of graduate scholars has grown from \$1000 in 1978 to \$785,000 in 2013, supporting 131 Fellows at UW and WSU this year.

Matching funds, initiated by the UW and WSU in 1990 to endow ARCS Fellowships, have encouraged generous donors to the Seattle Chapter to create 36 Endowments of more than \$100,000 each, an increase of nine in the last year. Through these Endowed Fellowships, a donor can support ARCS scholars in perpetuity.





Donate to ARCS Foundation Now Your Gift Makes a Difference

Please join the Seattle Chapter in supporting Washington State's vibrant intellectual and scientific community with a gift to ARCS Foundation. Your gift will support top science and engineering graduate students at our esteemed public universities, and is an opportunity to impact America's scientific and economic future.

Gifts of any size are greatly appreciated and will help support our scholars. There are also special opportunities to fund Named Fellowships as detailed below.

FUND A SEATTLE CHAPTER FELLOWSHIP

\$17,500

Funds one scholar's three-year Named Fellowship.

ENDOW AN ARCS FOUNDATION FELLOWSHIP

\$100,000

Funds one Named Endowed Fellowship in perpetuity.

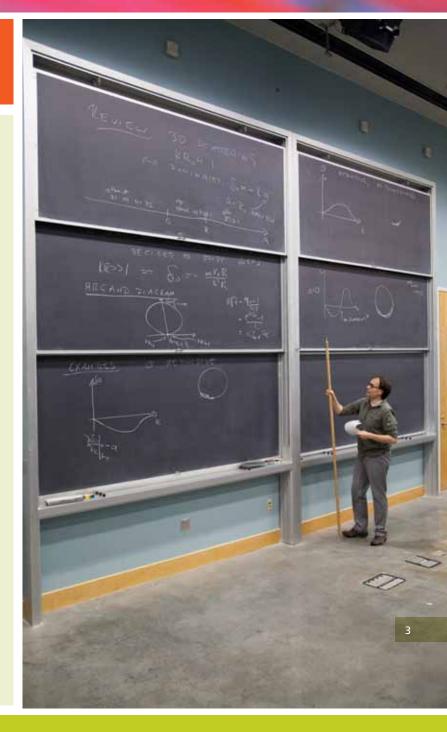
MATCHING OPPORTUNITIES

Through the generosity of the UW and WSU, any donor wishing to create an Endowed ARCS Foundation Fellowship will be entitled to matching funds. Please contact us to learn more about this worthwhile opportunity.

TO LEARN MORE ABOUT HOW YOU CAN MAKE A GIFT, PLEASE CONTACT THE SEATTLE CHAPTER AT:

Seattle Chapter ARCS Foundation, Inc. Private Mailbox 429 4616 25th Avenue N.E. Seattle, WA 98105

E-mail: information@seattlearcsfoundation.org Website: www.seattlearcsfoundation.org



ARCS Foundation, Inc. is a non-profit organization incorporated in 1978. Tax ID 91-1042292.

UNIVERSITY OF WASHINGTON

FIRST YEAR FELLOWS

NAME

Trevor Avant Anne Simpson & Charlie Conner Cheryl & David Hadley Sylvia Badon **Gabby Barsh** Brookshire-Green Foundation

Ken Chen William Chen

Erin dela Cruz Gabriel Dorfsman-Hopkins Mike Doud Samuel Entwisle Jacqueline Garrick Dennis Goulet Rochelle Kelly Laura Kehrl

Bethany Kondiles Krithika Manohar Sophia Masi ARCS Foundation Seattle Tim Mesikepp ARCS Foundation Seattle Austin Montgomery Ana Ordonez Jacob Ortega-Gingrich ARCS Foundation Seattle Pavel Panchekha Washington Research Foundation

Travis Scholl Aaron Seo April Shen Cassandra Simonich Melissa Steele-Ogus Olivia Telford Michael Tillotson William "BJ" Valente Natalie Vandeven

Edward Wang

Anna Plantinga

Kathleen & Brooks Simpson with

Keith & Mary Kay McCaw Family ARCS Endowment Eleanor & Charles Nolan

Washington Research Foundation Candice Rosenberg Peterson ARCS Endowment Zevenbergen Capital Investments LLC Tina & Karl Neiders with Susan & William Potts Jim & Nancy Woods

Eve & Chap Alvord Emer Dooley & Rob Short

Virginia M. Dickenson Memorial ARCS Endowment

Marlene & John Durbin Vicki & Gary Glant ARCS Endowment

Ginger & Barry Ackerley Foundation Chisholm Foundation ARCS Endowment

Nancy Mee & Dennis Evans Gladys Harrington ARCS Endowment

in Honor of Eve Alvord Barbo Family

Julie Tall ARCS Endowment Christensen O'Connor Johnson Kindness

MAC Consortium ARCS Endowment Vicki & Thomas Griffin Washington Research Foundation

Mary Dunnam

Fairway Fund ARCS Endowment Leslie Rosenberg

Hussey Family Jean B. Viereck

John W. & Elaine A. Zevenbergen, Sr.

ARCS Endowment

FIELD OF STUDY

Aeronautics & Astronautics

Epidemiology MD/PhD - Molecular & Cellular Biology/GO-MAP MD/PhD - Pathology

Quantitative Ecology & Resource

Management MD/PhD - Molecular & Cellular Biology Mathematics/GO-MAP

MD/PhD - Genome Sciences Molecular & Cellular Biology

Environmental Health (Toxicology)

Earth & Space Sciences Neurobiology & Behavior Applied Mathematics

MD/PhD - Chemistry/GO-MAP Mathematics

Forest Sciences/GO-MAP Atmospheric Sciences/GO-MAP Applied Mathematics/GO-MAP Computer Science & Engineering Atmospheric Sciences/GO-MAP

Biostatistics

Mathematics MD/PhD - Molecular & Cellular Biology

Computer Science & Engineering MD/PhD - Molecular & Cellular Biology

Biology Materials Science & Engineering

Aquatic & Fishery Sciences Environmental Health MD/PhD - Pathology MD/PhD - Pathology

Electrical Engineering

SECOND YEAR FELLOWS

NAME

Michael Barbour Kate Bayliss

Mark Brunson Owen Coyle Sarah Dewey Benjamin Drum

Aaron Garcia Kristen Garofali Julieta Gruszko

Siva Kasinathan

Ken Laszlo Elena Latorre-Esteves Rosie Leung Leander Love-Anderegg Rodrigo Luger

Marita Mann Natalie Miller Susana Orozco Austin Phillips

Warren Pinkard Audrey Ragsac Sarah Roberts Jack Rose **Gabriel Schubiner**

Benjamin Segal Megsie Siple Theo Sottero Jonathan Swenson Cheuk Tam

Ali Weber Ellita T. Williams **David Young**

DONOR

PACCAR Inc Keith & Mary Kay McCaw Family ARCS Endowment Washington Research Foundation ARCS Foundation Seattle

Barton Family

Graduate School Diversity

Nancy & Doug Norberg ARCS Endowment Linda & Tony Whatley

Micki & Robert Flowers ARCS Endowment

ARCS Foundation Seattle Micki & Robert Flowers ARCS Endowment ARCS Foundation Seattle

Susan Adkins & Sandy Carlson Alta & Stan Barer

Carlyn & George Steiner ARCS Endowment Ruth & William P. Gerberding ARCS Endowment

ARCS Foundation Seattle Margery S. Friedlander ARCS Endowment

Washington Research Foundation Catherine & David Skinner Zevenbergen Capital Investments LLC

Camille & Jim Uhlir ARCS Endowment Washington Research Foundation Dorothy Lewis Simpson ARCS Endowment

Lisa & Mike Losh Cori & John Kirkpatrick Walker Family ARCS Endowment

Althea Stroum ARCS Endowment Barbo Fam Rosa Ayer ARCS Endowment

Jana & Jeff Foushée Pengra Capital Management FIELD OF STUDY

Mechanical Engineering

MD/PhD - Molecular & Cellular Biology

Materials Science & Engineering

Oceanography Oceanography

Seattle Chapter ARCS Light in Honor of Susan Potts MD/PhD - Physiology & Biophysics Neurobiology & Behavior/GO-MAP

Physics MD/PhD - Molecular & Cellular Biology/

Molecular & Cellular Biology/GO-MAP Applied Mathematics

Biology Astronomy

Pharmacy

MD/PhD - Pathology Molecular & Cell Biology/GO-MAP Quantitative Ecology & Resource

Management Chemical Engineering

Biology

MD/PhD - Molecular & Cellular Biology

Computer Science & Engineering
Applied Mathematics

Aquatic & Fishery Sciences MD/PhD - Pharmacology

Mathematics

Molecular & Cellular Biology Neurobiology & Behavior

Nursing MD/PhD - Genome Sciences Computer Science & Engineering

Nothing has done more to enhance graduate student diversity at the UW than ARCS Foundation, Seattle Fellowships. They make the difference in competing successfully with elite private universities for top graduate student talent.

— Toby Bradshaw, Chair, Biology, University of Washington



THIRD YEAR FELLOWS

NAME

Tolulope Abe
Caroline Bennette
Kevin Bielawski
Jackie Corbitt
Michael Duyzend
Anna Engstrom
Musetta Chang-Chi Fu

Alexandra Grier Yasmeen Hussain Jakob Kotas Daisy Krakowiak-Redd John Lee Max Libbrecht

Bradley Markle Andrea McQuate Maximo Menchaca Edward Michor Caitlin Milligan Alipi Naydenov Kiva Oken

Paneen Petersen Stephanie Rosse Joseph Sanchez Michael Schwendeman Anna Simpson

Lisa Taylor-Swanson Michael Tremmel Caroline Weller William Chad Young

DONOR

Althea Stroum ARCS Endowment
Marnie & Jeremy Stamper
North Coast Electric Company
Chisholm Foundation ARCS Endowment
Marcia McGreevy Lewis & Robert D. Lewis, MD
Debbi & John Wilson with Jenny & Scott Wyatt
UW Nursing Recognition Fellowship-

Dean Marla Salmon
Barbo Family
Washington Research Foundation
Washington Research Foundation
Alida & Christopher Latham
Harriett & John Morton
Washington Research Foundation
ARCS Endowment

Betty Bottler
Carmen & Carver Gayton
Gerald J. Baldasty Diversity
Candice Rosenberg Peterson ARCS Endowment
Lynn & Mikal Thomsen
Keith & Mary Kay McCaw Family ARCS Endowment
Washington Research Foundation

Graduate School Diversity Sroufe-Barnes Family Phyllis Wise ARCS Diversity Virginia M. Dickenson Memorial ARCS Endowment Pendleton & Elisabeth Carey Miller Charitable Foundation

ARCS Light in Honor of Janet McNae Jean Chisholm Lindsey Memorial Fellowship Betty Lou & Inwin Treiger

Zevenbergen Capital Investments LLC

FIELD OF STUDY

Industrial Engineering
Pharmacy
Mechanical Engineering
Physics
MD/PhD - Genome Sciences
Environmental Health
Nursing

MD/PhD - Immunology Biology Applied Mathematics Epidemiology Physics Computer Science & Engineering

Earth & Space Sciences
Neurobiology & Behavior/GO-MAP
Atmospheric Sciences/GO-MAP
Chemical Engineering
MD/PhD - Immunology
MD/PhD - Neurobiology & Behavior
Quantitative Ecology & Resource
Management
Epidemiology/GO-MAP
Public Health Genetics
Molecular & Cellular Biology/GO-MAP
Civil Engineering

Nursing Astronomy Chemistry Statistics

Forest Resources

COLLEGE OF ARTS & SCIENCES GRADUATE SCHOOL (INTERDISCIPLINARY)

The Seattle Chapter of ARCS Foundation, Inc. currently supports UW students in the following

UNIVERSITY OF WASHINGTON FELLOWSHIP SUPPORT AREAS

Molecular & Cellular Biology Neurobiology & Behavior Pathobiology Quantitative Ecology & Resource Management (QERM)

COLLEGE OF ENGINEERING

departments and schools:

Applied Mathematics

Astronomy

Chemistry

Mathematics

Biology

Physics

Statistics

Aeronautics & Astronautics
Bioengineering (jointly with the School
of Medicine)*
Chemical Engineering
Civil & Environmental Engineering
Computer Science & Engineering
Electrical Engineering
Industrial Engineering
Materials Science & Engineering
Mechanical Engineering

COLLEGE OF THE ENVIRONMENT

Aquatic & Fishery Sciences Atmospheric Sciences Earth & Space Sciences Environmental & Forest Sciences Oceanography

SCHOOL OF MEDICINE

Bioengineering (jointly with the College of Engineering)* Medical Scientist Training Program (MSTP)

SCHOOL OF NURSING

SCHOOL OF PHARMACY

Medicinal Chemistry Pharmaceutics Pharmacy

SCHOOL OF PUBLIC HEALTH

Biostatistics Environmental Health Epidemiology Institute for Public Health Genetics



*New support area in 2013-2014



UNIVERSITY OF WASHINGTON Computer Science and Engineering An ARCS Foundation-Supported Program

The UW established its inter-college graduate program in Computer Science (now the Department of Computer Science & Engineering (CSE)) in 1967. Recognized by The New York Times as a major nexus of the west coast information economy, the graduate program annually receives more than 1100 applications and admits 10 percent.

The UW's CSE PhD program, regarded among the top 10 in America, is poised to become one of the top five due to its national and international reputation for producing highly sought-after graduates who have benefited from the program's "open" collegial, collaborative, interdisciplinary culture. Twenty-nine of CSE's 50 faculty have won Presidential National Science Foundation Young Investigator Awards; twenty have received Sloan Research Fellowships; and one has been recognized with a MacArthur "Genius" Fellowship.

Through revolutionary, far-reaching research, these PhD scholars are improving multiple aspects of everyday life in Washington State and beyond, from reducing home energy consumption, to strengthening the security of modern automobiles, to improving implanted medical devices. Over the past five years, 49 percent of those receiving PhDs in Computer Science & Engineering have remained in Seattle and Washington.



Ben Segal

DEPARTMENT Applied Mathematics
DONOR Dottie Simpson



Ben Segal has been a swimmer all his life — in fact, he swam competitively from age seven until just last year. "I'm fascinated by water," he says. "Sitting on the beach, watching the waves come in — it's always interested me."

Ben has applied that lifelong fascination to his research: he's studying ocean waves to predict how they will act. It's not an overstatement to say that this research has the potential to save lives. "It could lead to improved tsunami prediction," says Ben, "gauging how fast the tsunami will move, where it will hit, and how high it will be when it reaches shore." His work could also help predict rogue waves, the massive and seemingly spontaneous surface waves that occur far out at sea and pose a threat to even the largest ships.

Ben, whose ARCS Fellowship is funded by Dottie Simpson, is pursuing a PhD in applied mathematics at the University of Washington. "The Fellowship was one of the leading reasons I came to UW," he says. "Life as a graduate student is typically pretty tough, and having this money has been like a security blanket." He adds, "My whole life has been a little better because of this ARCS Fellowship."

John Lee

DEPARTMENT Physics

DONOR John and Harriett Morton



Harriett Morton isn't a member of the Seattle Chapter of ARCS Foundation, but she and her husband, John, believe in the ARCS mission. "We like to support these bright young people," says John Morton. "It benefits them as individuals and has the potential to benefit our local economy and society overall as well."

The bright young person that John and Harriett Morton are supporting is ARCS Fellow John Lee, who is in his second year pursuing a PhD in physics at the University of Washington.

John is testing the equivalence principle, which assumes that gravitational forces accelerating a body are independent of the mass of the body. "But current thinking is that acceleration by gravitational force may actually be something quite different," John says. "Many theories incorporating gravity with quantum mechanics predict violations of the equivalence principle. Confirming this predicted violation would be a significant step toward determining which proposed theory best describes our universe."

John and the Mortons have bonded over their shared interests in science — and hiking: all three enjoy the mountains. "I appreciate that the Mortons care about what I'm doing," says John. "It's nice to know that someone outside the field is curious about it." Harriett, a chemistry major in college, adds, "The pleasure of doing this is that it allows me to be virtually involved in science — science that may change the world."

WSU FELLOW

Yvonne Manning

DEPARTMENT Crop and Soil Sciences
DONOR Delphine and Charles Stevens



"Getting to know the people who are encouraging me, who put their money on the line for me — it just makes me want to work that much harder," says Yvonne Thompson, recipient of an ARCS Fellowship funded by Delphine and Charles Stevens. Yvonne is in her second year pursuing a PhD in crop and soil sciences at Washington State University. Her research focuses on two diseases of wheat that are responsible for tremendous crop losses in the Pacific Northwest.

Yvonne enjoys the personal relationship she has with the couple. "They're interested in my work and in who I am; I'm interested in them, too." Delphine echoes those sentiments. "We felt an instant connection to her," she says, perhaps because all three share the experience of moving far from home to pursue an education: Yvonne is from Memphis, Tennessee; Delphine and Charles, from England. "We understand what it's like to start from scratch, as Yvonne has," notes Delphine. "She's got the right attitude to take that on. Charles and I know what a life-changing experience a good education can be."

Yvonne, for her part, is grateful for how ARCS — and the Stevens family — have made it easier for her to concentrate on her research. "It's truly been a blessing," she says.

WASHINGTON STATE UNIVERSITY

FIRST YEAR FELLOWS

NAME

Korey Brownstein Zack Frederick Andrea Garfinkel

Kathy Helling Aileen Helsel Jessica Higginbotham Tessa Lecuyer

Adan Medina Paul Mihalyov Craig Nes Drew Neyens

Elena Skornyakov

Andrea & Eric Thoreson with Kate Janeway & H. S. Wright III

Sally Behnke
Seattle Chapter ARCS Light in Honor of Micki Flowers
ARCS Foundation Seattle
ARCS Foundation Seattle

ARCS Foundation Seattle Blaze Barrier

ARCS Foundation Seattle ARCS Foundation Seattle Lynn & Mikal Thomsen Eve & Chap Alvord

Jeannie Nordstrom in Memory of Pepper Payne

Catherine Mee

FIELD OF STUDY

Molecular Plant Sciences Plant Pathology

Plant Pathology Chemical Engineering & Bioengineering Molecular Biosciences **Veterinary Science**

Veterinary Science
Veterinary Science
Chemical Engineering & Bioengineering
Molecular Plant Sciences

Veterinary Science Veterinary Science Veterinary Science Crop & Soil Sciences

SECOND YEAR FELLOWS

NAME

Christian Aguilar Jake Elder Cory Gall Kendra Gregory Jernigan Rebecca Holcomb Shao Yeh Lu

Aaron Mahoney Yvonne Manning Katie McKeever

Nicholas Mueth Darin Weed

DONOR

ARCS Foundation Seattle Aven Foundation ARCS Endowment

ARCS Foundation Seattle

Lynn & Mikal Thomsen ARCS Endowment Lynn & Mikal Thomsen

Stevens Family Eve & Chap Alvord

ARCS Foundation Seattle Jacque & Rick Doane in Honor of Henry ARCS Foundation Seattle

FIELD OF STUDY

Plant Pathology Veterinary Science Veterinary Science Crop and Soil Sciences Molecular Plant Science Veterinary Science/GAH Molecular Plant Science Crop and Soil Sciences Plant Pathology Molecular Plant Science Veterinary Science Veterinary Science

THIRD YEAR FELLOWS

NAME

Lindsay Fry Michael Gonzalez Kimberly Honn Benjamin Kilian Nevin Lawrence Gracen Smith Jacquelyn Stone Jonathan Wachte

DONOR

Trish & Jim Rogers ARCS Foundation Seattle WSU President's Award **ARCS Foundation Seattle** WSU Graduate School **ARCS Foundation Seattle** Lynn & Mikal Thomsen Amy & Matt Rudolf

FIELD OF STUDY

Veterinary Science Veterinary Science Molecular Plant Science Crop & Soil Sciences Molecular Plant Science Veterinary Science/GAH Crop & Soil Sciences



The impact of ARCS Foundation, Seattle Fellowships cannot be overstated. They help ensure that many of the best and brightest students choose to develop, pursue and apply their scholarship at Washington State. — William Andrefsky, Jr., Edward R. Meyer Distinguished Professor, Dean of the Graduate School, Washington State University



USPOTLIGHT

WASHINGTON STATE UNIVERSITY FELLOWSHIP SUPPORT AREAS

The Seattle Chapter of ARCS Foundation, Inc. currently supports WSU students in the following departments and schools:

COLLEGE OF AGRICULTURE, HUMAN AND NATURAL RESOURCE SCIENCES

Crop & Soil Sciences Molecular Plant Sciences Plant Pathology

COLLEGE OF ARCHITECTURE AND ENGINEERING

Chemical Engineering and Bioengineering

COLLEGE OF VETERINARY MEDICINE

Global Animal Health (GAH)
Molecular Biosciences
Integrative Physiology & Neuroscience
Veterinary Clinical Sciences
Veterinary & Comparative Anatomy
Veterinary Microbiology & Pathology



WASHINGTON STATE UNIVERSITY Gene and Linda Voiland School of Chemical Engineering and Bioengineering An ARCS Foundation-Supported Program

The Gene and Linda Voiland School of Chemical Engineering and Bioengineering is a rapidly growing program with a reputation for producing high-quality, hands-on engineers who become industry leaders.

The school's primary research foci are chemical and biological catalysis for clean energy and protein systems engineering. In partnership with the Pacific Northwest National Laboratory (PNNL), WSU is positioned to be a national leader in developing and testing catalysts for energy processing. Research in protein systems engineering is increasing fundamental understanding of protein-mediated molecular and cellular processes that will lead to improvements in health and quality of life for millions of Americans.

With their long history of interdisciplinary collaboration, Voiland School faculty and students are critically important to the success of high-profile endeavors institution-wide and in collaboration with PNNL. The school is seeing a growing number of PhD students, including those from nontraditional backgrounds and underrepresented groups, supported through competitively-awarded federal and industrial funds.

WSU FELLOW Lindsay Fry

DEPARTMENT Veterinary Science DONOR Trish and Jim Rogers



"It's tough to put into words what a difference having an ARCS Fellowship makes," says Lindsay Fry, who is a third year veterinary science PhD candidate at Washington State University. "It reduced the sacrifice I had to make coming back to school after working in private practice and frees me to truly enjoy what I came here to do."

Lindsay, whose Fellowship is funded by Trish and Jim Rogers, became a veterinarian in 2009 and worked in private practice for two years before deciding to pursue her doctorate. She's looking at the disease East Coast Fever, which affects cattle in thirteen countries in Sub-Saharan Africa. Caused by a tick-borne parasite, the disease kills over one million animals each year; in some populations, it's 90 percent fatal.

"We're looking at the cows that survive," says Lindsay.
"We're trying to understand their immune response with
the hope that someday a vaccine can be developed." She
continues, "This could change lives. East Coast Fever has a
huge impact on families, some of whom rely on just one
or two animals for many of their basic needs: meat, milk
and hide. Some people's very survival depends on these
animals."

In Their Own Words

WSU FELLOW Cory A. Gall



DEPARTMENT Veterinary Science DONOR Seattle Chapter ARCS

"The ARCS Fellowship has given me the resources to explore higher-risk projects in my research. And the camaraderie among ARCS Fellows is beneficial both academically and socially."

UW FELLOW Daisy Krakowiak



DEPARTMENT Epidemiology
DONOR Alida and Christopher Latham

"Professors give ARCS Fellows more responsibility than other grad students. The leadership experience I am gaining as a coordinator for a randomized clinical trial for home-based partner education and HIV testing in Kenya is invaluable to my career."

UW FELLOW Bradley Markle



DEPARTMENT Earth & Space Sciences
DONOR Betty Bottler

"In the last year I've conducted two field seasons in Alaska and one season in Antarctica. None of this would have been possible without help from ARCS Foundation that allows me to focus on research instead of searching for funding."

WSU FELLOW Gracen Smith



DEPARTMENT Molecular Plant Science
DONOR Seattle Chapter ARCS

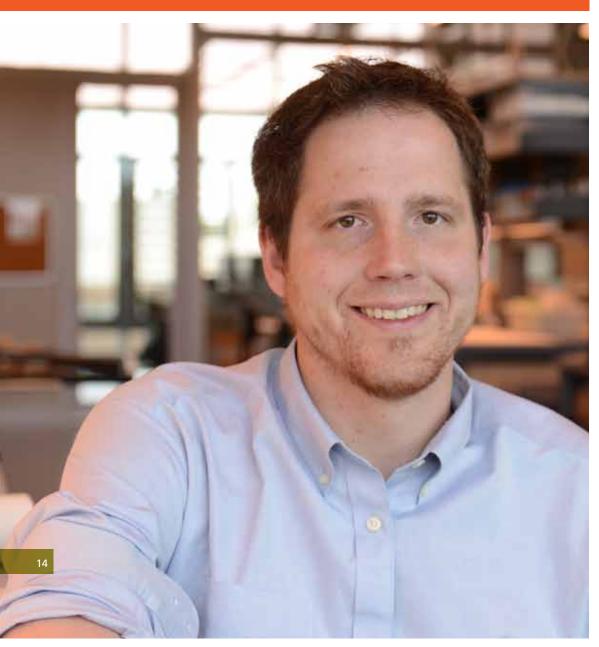
"Being an ARCS Fellow links me to other young researchers in different fields, providing the opportunity for collaborations I wouldn't have realized are possible. The ARCS Fellowship gives us the freedom to pursue answers to our questions without being limited by financial constraints, which means the only limits are those of our imaginations."

12

Where Are They Now?

James Peters, PhD

WSU ARCS FELLOW 2001 - 2004



Assistant Professor of Neuroscience and former ARCS Fellow Dr. James Peters received his PhD from WSU in 2005 and returned in 2010 as a faculty member. "Coming back has been really positive," he says, "and the work I'm doing now complements the work I did before."

While pursuing his doctorate, James researched how messages are sent from the digestive system to the brain via the vagus nerve. "I'm looking at how the nervous system regulates when and how much we eat. Previously I studied how the neurons are activated in the gastrointestinal tract. Now I'm focusing on the other end of the nerve: the signal when it gets to the brain."

James' research focuses on the connection, or synapse, between the vagus nerve and the brain. He studies one important ion channel and its role in how the synapse "talks" to the brain. "If the synapse is dysregulated, the signal gets obscured — which may underlie issues such as obesity and type 2 diabetes," he says.

Jim credits ARCS Foundation with helping him get where he is today. "The funding not only made life easier at the time, it also helped set my trajectory," he says.

CORPORATE DONOR

Fred Hutchinson Cancer Research Center

Micki Flowers

ARCS LIGHT AWARD

A proud sponsor of ARCS Foundation since 2011, Fred Hutchinson Cancer Research Center supports dedicated students today who will advance science tomorrow. "Since 2000, 27 ARCS Fellows have participated in a variety of research programs at the Hutch. These scholars have benefited from faculty mentoring and our collaborative research environment," says Mark Groudine, MD, PhD, senior vice president and deputy director of FHCRC. "ARCS Fellowships are invaluable in recruiting the most outstanding students, who in turn energize the Center's research."

Since opening in 1975, Fred Hutch has made some of the world's most important medical advances, from developing the bone marrow transplant as a cure for many forms of leukemia, to pioneering powerful immune therapies to fight cancers such as melanoma.

Fred Hutch researchers, including three Nobel Laureates and a MacArthur Fellow, break ground in many areas: exploring fundamental mechanisms in cellular and molecular biology that lead to precisely targeted, lifesaving treatments; detecting cancer at its earliest, most curable stages; preventing cancer and other diseases by understanding how lifestyle choices impact risk; and studying the links between infectious diseases and cancer.

The Seattle Chapter of ARCS Foundation is grateful that this remarkable Northwest institution extends its support to our outstanding scholars.





ARCS LIGHT RECIPIENTS

Susan Adkins Bylieu Badgley Marjorie Bathum Lolly Baugh Maxine Blumenthal **Betty Bottler** Barbara Cable Sandra Carlson Marlene Durbin Micki Flowers **Bobbie Fowler** Margery Friedlander Ruth Gerberding Vicki Glant Barbara Goesling Vicki Griffin Patty Hall Betty Hedreen Janet McNae **Cathy Mullins** Susan Potts Jeannette Rockefeller Candice Rosenberg **Dottie Simpson** Kayla Skinner Althea Stroum Linda Suzman **Ginny Thomas** Camille Uhlir Jill Watkins Carol Wright Anne Zubko

ARCS Foundation, Seattle is pleased to present Micki Flowers with the 2013 ARCS Light Award. Given to members who have made significant contributions to the chapter, the award found its way to a worthy recipient in this former Chapter President, VP of University Relations, VP of Nominations and Chair of Public Relations.

Micki, a UW graduate, is the former health specialist, reporter and anchor for KIRO TV News. Her volunteer commitments have included Seattle Chapter of The Links, Odessa Brown Children's Clinic (OBCC), AIDS Housing of Washington, the UW Graduate **Opportunities and Minority Achievement** Program and the UW Foundation.

Her community service awards include Municipal League of King County Citizen of the Year, Nordstrom Outstanding Community Service Award, OBCC Spirit of Caring Award, Big Sisters of King **County Professional Leadership Award** and Seattle Junior League's 2010 Dorothy Bullitt Award. In 2012 Micki and her husband Bob were named Outstanding Philanthropic Individuals by the Association of Fundraising Professionals.

"I've been volunteering since high school, and the ARCS experience is unique. Working with talented women and exceptional young scholars to advance science is immensely rewarding," says Micki.

The Seattle Chapter is grateful for Micki's confident leadership, insight and vision, and we are most appreciative of her warmth.

INDIVIDUAL GIFTS HANK YOU!



The Seattle Chapter of ARCS Foundation thanks its many donors who made individual gifts between July 1, 2012 and June 30, 2013 (excluding contributions of Named Fellowships and Endowed Named Fellowships who are listed on the following page).

\$10,000 - \$17,499

Deborah Girdler & David Cutler Physio Control

\$5,000 - \$9,999

Boeing

Fred Hutchinson Cancer Research Center Goldman Sachs Microsoft Maryanne & David Tagney-Jones University of Washington

University of Washington Medical Center

Washington Research Foundation

\$2,500 - \$4,999

Clarisonic Costco Wholesale Jacque & Rick Doane Micki E. & Robert J. Flowers Vicki & Gary Glant Vicki & Thomas Griffin Leslie & Peter Higgins Nancy & George Lobisser Lynn Manley & Lex Lindsay Lockheed Martin Connie Niva & Jud Marguardt Elizabeth Roberts Lynn & Mikal Thomsen Andrea & Eric Thoreson Seattle Cancer Care Alliance Seattle Children's Hospital Research Foundation

ShadowCatcher Wells Fargo Peggy & Robert Wilkerson Wyman Youth Trust

Un to \$2,499

Mary Abbott
Nancy & Craig Abramson
Diana & Christopher Ackerley
Virginia B. Adams
Amgen
Scott Anderson
Susan & Charles Andonian
Susan & Charles Armstrong
Clodagh Ash
Janet Backus

Jan & Donald Bauermeister Kristin Bedard Janice Bede Lvnn Behar Linda Berry Liz Berry Larsen Erica Bever Vicki Billington Deirdre & Fraser Black Jane Blair Susan & Robert Blethen Cynthia Bostwick Harvey Bradshaw Debbi & Paul Brainerd Maria Bridge Carol & Jack Briggs David Buck Barbara Cahill Paul Cahill Alicia Carnevali Chris & Gary Carpenter Brian Carroll Jennie Carter Kanchan Chitaley Kristina Clawson Judith & Steven Clifford Kaaren Clifford Carolyn Collins Gail Cottle Judy Crutcher Vicki & Larry Culver Junia Curran Deborah Davis Brooke & Bertrand deBoutray Cecile Delafield Liz Demaree Lori & Rob Dickerson Holly & Eric Dillon Theresa Dowell Martha Draves Bonnie J. Dunbar Ryan Durkan Sophia Eitel Karen Eriksen Nancy & Dan Evans Vicki Fabre Gary Farris

Ellen Ferguson

Linda Fiebig

Sarah Barton

Susan Formo Margaret Forsythe Dana Frank Becky Freer Renée Gaines Shannon Gardner Hope & Peter Garrett Doris H. Gaudette Cameron Givens Megan & Gary Glouner John Glover Barbara Goesling Pamela & Joshua Green Albert Greenberg Krista & Charles Grinstein Lvn & Geral Grinstein Shervl & Richard Gudaitis Patty Hall Elizabeth Halloran Ouven & Adam Hamilton Myra Hanover Katherine Hanson Cheryl Harrelson Cathi & Kenneth Hatch Jane & James Hawkanson Heather Hayes Betty & Richard Hedreen Jill Heijer Linda & Robert Helsell Ana Hergert Wanda Herndon Marion & Craig Hopkins Mary Ellen & Patrick Hughes Sharon Huling Julie & Mark Hutcheson Beverly & Donald Jefferson Paule & Peter Jensen Harold Johnston Melissa & Eric Jones Trish & Tom Keegan Suzanne & Travis Keeler Cassie Keister Kristin Kenefick Meredith Kenvon Susie Kirkpatrick Renee Klein Clementine Knight Pranav Krishnamoorthy Verla & A. L. Kwiram

Christine Lamson

Marianne Langenbach Lynne Langseth Diane Langstraat Shelley Pemberton Laramore & George Laramore Mary Jo and Ross Leventhal Sandy Lew-Hailer David Lewis Joy Lewis Mary Lewison Elle Lyons Margaret Makar Susan Marker Kay & Charles Maryatt Amy & Riley Mauldin Gwen McCaw Ann McCutchan Diane & Kirby McDonald Kristin McKee Janet & Roderick McNae Kathy & Michael McQuaid Marshal McReal Laura & David Midgley Alison & Glen Milliman Deborah & Yves Mizrahi Sally & John Morbeck Alexandra & Charles Morse Susan Moss Marla & Albert Moss Erin Moyer Marie & Craig Mundie Joan Myers Anne Nielsen Sheila Noonan & Peter Hartley Marcelle O'Connell Tracy Ostrem Peach Foundation Nancy Pellegrino Timmie Peterson Anne Phelps Judith Pierce Yvonne & Charles Pigott Dana Piraino Eleanor Pollnow Julie Prentice April Pride Allison Tori Ragen Gail Ransom Paula Rattigan Kristie Ratzlaff

Vicki & Edward Rauscher Ann Redmond Charlee Reed Rhona Rhyne Rosvall Hilary Richmond James Robart Victoria Roberts David Robinson Juliet Romano Vicki Rosellini Deborah & Douglas Rosen Jeanie & Bill Rosen Judy & Kermit Rosen Judy Rupert Wendy & Stockton Rush MA & Bruce Sangeorzan Fave & Herman Sarkowsky Ingrid & Stanley Savage Carlo Scandiuzzi Ty & Douglas R. Scheumann Diana Schiro Virginia Schmidt Esther B. & Walter Schoenfeld Lauren Schuchart Laurie & George Schuchart Sheila Schultz Annie Schwager Maria & John Schwager Lisa Sferra Kris & Rob Shanafelt **Greg Shaw** Frances Sherwood John Siegler Julie & Tom Skerritt Mary Snyder Aniko & Christopher Somogyi Randy Squires Bob Stacey Mari Stamper Julie Stein Nancy Stephens Joan Strecker Abbe Sutton Linda & Paul Suzman Jan Teal Ginny & George Thomas Katie Thompson Caren & John Tidwell Judy Tobin Beth Toomey

Hugh Toomey Betsy Troutman Michelle & Scott Ventoza Marka Jenkins Waechter & John Waechter Anne & Wayne Wager Iris & Theodore Wagner Linda & Wally Walker Sue & Bill Walker Washington State University David Weatherford Jackie Weeks Jennifer & John West Higgins Rob Wever Alice Weymuller Connie Willis Colleen Willoughby Shirley & Scott Wilson Leslie Workman Korvnne Wright Sally & David Wright Melissa Yeager Melissa Young

NAMED FELLOWSHIPS

ENDOWMENTS

Named Fellowships are created by donors who understand the difference multi-year awards can make in recruiting and supporting world-class graduate students. These donors have each contributed \$17,500 over three years to fund and name a Fellowship. A Named Fellowship also provides a donor with a unique opportunity to engage with an individual scholar and to support his or her research.

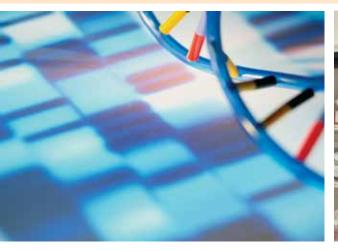
Ginger & Barry Ackerley Foundation Susan Adkins (5th) & Sandra C. Carlson (3rd) Eve & Chap Alvord (12th-13th) Gerald J. Baldasty Diversity Barbo Family (6th-8th) Alta & Stan Barer (3rd) Blaze Barrier (4th) Barton Family (3rd) Sally Behnke (4th) Betty Bottler (4th) Brookshire-Green Foundation (3rd) Christensen O'Connor Johnson Kindness (7th) Nora & Allan Davis (2nd) Jacque & Rick Doane in Honor of Henry (3rd) Emer Dooley & Rob Short Mary Dunnam (3rd) Marlene & John Durbin (5th) Jana & Jeff Foushée Carmen & Carver Gayton Vicki & Thomas Griffin (5th) Cheryl & David Hadley **Hussey Family** Cori & John Kirkpatrick Alida & Christopher Latham Marcia McGreevy Lewis & Robert D. Lewis, MD Jean Chisholm Lindsey Memorial (6th)

Lisa & Mike Losh Family (4th) Catherine Mee (2nd) Nancy Mee & Dennis Evans (2nd) The Pendleton & Elisabeth Carey Miller Charitable Foundation (5th) Harriett & John Morton Tina & Karl Neiders with Susan & William Potts (3rd) Eleanor & Charles Nolan (3rd) Jeannie Nordstrom in Memory of Pepper Payne North Coast Electric Company PACCAR Inc (5th) Pengra Capital Management, Inc. (5th) Trish & Jim Rogers (2nd) Leslie Rosenberg in Honor of Maxine Blumenthal (6th) Amy & Matt Rudolf Kathleen & Brooks Simpson with Anne Simpson & Charlie Conner (2nd) Catherine & David Skinner (4th) Sroufe-Barnes Family (3rd) Marnie & Jeremy Stamper Stevens Family (3rd) Lynn & Mikal Thomsen (8th - 12th) Andrea & Eric Thoreson and Kate Janeway & H. S. Betty Lou & Irwin Treiger University of Washington Graduate School Diversity (1st & 2nd)

University of Washington Nursing Recognition—Dean Marla Salmon
Jean B. Viereck (5th)
Washington Research Foundation (84th – 87th)
Washington State University Graduate School
Washington State University President's Award
Linda & Tony Whatley (2nd)
Debbi & John Wilson with Jenny & Scott Wyatt
Phyllis Wise ARCS Diversity
Jim & Nancy Woods (2nd)
Carol Wright (6th)
Zevenbergen Capital Investments LLC (13th – 16th)
Anne & Michael Zubko

We are pleased to acknowledge our generous donors who have already established Fellowships for the 2014-2015 academic year.

Lee & Mike Brown (4th)
David Eaton with Julie Barbo & Mark Maghie
Gerald Baldasty Graduate School Diversity (3rd)
Washington Research Foundation (88th-90th)
Zevenbergen Capital Investments LLC (17th)





Stable, sustained financial support for our graduate students is the goal of the Seattle Chapter of ARCS Foundation. By creating an Endowed Named Fellowship with a gift of \$100,000 or more, a donor supports new graduate student Fellowships in perpetuity at the UW or WSU.

Thanks to the extraordinary generosity of the donors listed below, the Seattle Chapter has established 36 Endowed Named Fellowships since 1990. Many of these generous donors have benefited from matching funds provided through the University of Washington or Washington State University.

Aven Foundation (3rd) Rosa Ayer (5th) Becky & Jack Benaroya (10th) Nicole A. Boand in Chemistry Chisholm Foundation (7th & 8th) Virginia M. Dickenson Memorial (2nd & 3rd) Dooley-Short Fairway Fund (5th) Micki É. & Robert J. Flowers (4th & 5th) Jeff & Jana Foushée Family Margery S. Friedlander (5th) Bill & Melinda Gates Foundation in the School of Public Health Vicki & Gary Glant (6th) William P. and Ruth Gerberding (8th) Vicki J. & Thomas W. Griffin in Honor of Paige & Griffin Thoreson Gladys Harrington in Honor of Eve Alvord (14th) Mark A. Jones in Chemistry Kristin N. Kenefick & Nancy P. Norberg MAC Consortium (Margi & Jim Allison, Anne Simpson & Charlie Conner) (3rd) The Keith & Mary Kay McCaw Family Foundation (1st-3rd)

Pamela H. and Donald W. Mitchell in **Nursing Science** Joanne & Bruce Montgomery (8th) Joanne & Bruce Montgomery in Honor of the American Lung Association Nancy P. & Doug E. Norberg (2nd) Oceanus Candice Rosenberg Peterson (10th & Jim and Trish Rogers ARCS Foundation Endowed Fellowship Dorothy Lewis Simpson (13th) George & Carlyn Steiner (6th) Althea Stroum (21st & 22nd) Julie Tall Lynn & Mikal Thomsen (11th) Camille & Jim Uhlir (10th) Walker Family (6th) Washington Research Foundation (84th-87th) John W. and Elaine A. Zevenbergen, Sr. (13th-16th)

(*Denotes the number of Fellowships the donor has funded.)

Diana A. Ackerley
Susan G. H. Adkins
April Pride Allison
Eve Alvord
Julie Barbo
Alta Barer
Debbi Brainerd
Margaret Breen
Alexandra A. Brookshire
Barbara A. Cahill
Sandra C. Carlson
Brooke deBoutray
Jacque Doane
Emer Dooley
Micki E. Flowers
Jana Foushée
Carmen Walker Gayton
Vicki S. Glant
Vicki Giaffin

Sheryl Gudaitis
Cheryl Hadley
Patty Hall
Jennifer Higgins
Marion Hopkins
Beverly Jefferson
Christy Jones
Kristin Norberg Kenefick
Barbara Kirk
Cori Kirkpatrick
Shelley Pemberton Laramore
Mary Jo H. Leventhal
Marcia McGreevy Lewis
Melinda Morbeck Lewison
Lisa Losh
Lynn M. Manley
Amy Mauldin
Ann B. McCutchan
Janet V. McNae
Kathy McQuaid

Nancy Mee Deborah Mizrahi Joanne Montgomery Sally Morbeck Lynn Pigott Mowe Erin Moyer Tina J. Neiders Eleanor C. Nolan Sheila B. Noonan Nancy P. Norberg Molly E. Pengra Anne V. J. Phelps Susan Ward Potts Elizabeth Roberts Patricia A. Rogers Jill Ruckelshaus Amy Addison Rudolf Elizabeth Rudolf Judith G. Rupert Wendy Rush Mary Alice Sangeorzan Dorothy L. Simpson Kathleen Simpson Marnie Briggs Stamper Carlyn J. Steiner Delphine Stevens Julie Tall Lynn Thomsen Andrea Griffin Thoreson Caren Langhammer Tidwell Beth A. Toomey Camille Uhlir Valerie Voss Marka Jenkins Waechter Iris Wagner Sarah Watts Deborah R. Wilson Sally Wright Jennifer F. Wyatt Anne H. Zubko

Ambassador Members

Carmento Floyo Phyllis M. Wise Marti Young

Associate Members

Margaret Allison Susan Y. Armstrong Patty Barrier Jan Bauermeister Sally S. Behnke Betty Bottler Lee Brown Bonnie J. Dunbar Marlene Durbin Doris H. Gaudette Ruth Gerberding Barbara Goesling Pamela Green

Jane Hawkanson Betty Hedreen Linda C. Helsell Mary Ellen Hughes Kay Calvert Maryatt Diane McDonald Alexandra F. Morse Marla Moss Candice Peterson Yvonne Pigott Vicki M. Rauscher Deborah Rosen Jeanie Rosen Faye Sarkowsky Ty Scheumann
Virginia H. Schmidt
Esther B. Schoenfeld
Lesa Sroufe
Mari Stamper
Linda Hunter Suzman
Susan H. Swindells
Ginny Thomas
Jean Baur Viereck
Anne Wager
Margaret K. Walker
Carol Wright





Achievement Rewards for College Scientists
Seattle Chapter
ARCS® Foundation, Inc.
Private Mailbox 429
4616 25th Avenue NE
Seattle, WA 98105
Email: information@seattlearcsfoundation.org

Website: www.seattlearcsfoundation.org









Washington Research

FOUNDATION





Goldman Sachs

















Fred Hutchinson Cancer Research Center UW Medicine Seattle Children's

