ACHIEVEMENT REWARDS
FOR COLLEGE SCIENTISTS FOUNDATION, INC.

ATLANTA CHAPTER
SCHOLAR AWARDS LUNCHEON
2013

ARCS® FOUNDATION MISSION STATEMENT

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.

arcsfoundation.org

ARCS® Foundation Advancing Science in America is registered in the U.S. Patent & Trademark Office.
From the President

It is with pleasure that I welcome you to the 22nd annual ARCS Foundation Atlanta Scholar Awards Luncheon. We are here to celebrate the achievements of 42 young women and men who will be receiving a total of $300,000. Since its founding, the Atlanta chapter has awarded nearly $3 million to more than 330 individuals. These are our country's scientists. It is you, our generous members, corporate donors, foundations and friends who are to be thanked for making this possible.

As you will learn today, our scholars are studying in multiple fields of science. They are tomorrow's leaders who will be university professors, medical doctors, computer scientists, earth scientists, engineers or life-long research scientists. The possibilities are endless. Please take the opportunity to meet a scholar at today's luncheon. Learn more about her/him. These are the leaders of tomorrow. We are honored to have them here today to celebrate their achievements.

ARCS Scholars are selected by their universities and are citizens of the United States, enrolled full time, have a grade point average of 3.5 or higher and are selected without regard to race, gender or religion. ARCS funding is used for the departments that specialize in research majoring in the natural sciences, engineering or medicine.

To our scholars, I want to leave this quote from Astronaut Ellison S. Onizuka, who was aboard the ill-fated Challenger space shuttle mission in 1986, "Your vision is not limited to what your eye can see, but by what your mind can imagine. Many things that we take for granted were considered unrealistic dreams by previous generations. If you accept these past accomplishments as commonplace, then think of the new horizons you can explore. From your vantage point, your education and imagination will carry you to places which we won’t believe possible. Make your life count and the world will be a better place because you tried."

Atlanta has a vital ARCS Foundation chapter that seeks to continue its essential membership and strengthen its relationship with scholars, donors and the community at large. Thank you, Sylvia Dick and your committee, for making today's Scholar Awards Luncheon a memorable celebration.

Gracia Conn
President, ARCS Foundation Atlanta Chapter
November 21, 2013
ACHIEVEMENT REWARDS FOR COLLEGE SCIENTISTS FOUNDATION, INC.

ATLANTA CHAPTER
2013
SCHOLAR AWARDS LUNCHEON
THE RITZ-CARLTON, ATLANTA

PROGRAM

Welcome
Gracia Conn, President
ARCS Foundation Atlanta Chapter

Invocation
The Reverend Doyt L. Conn, Jr., Rector
Epiphany Episcopal Church, Seattle, Washington

LUNCHEON

Introduction of Keynote Speaker
Gracia Conn

Keynote Speaker
Dr. Joy Doran-Peterson
University of Georgia
Director, Professional Science Master of Biomanufacturing and Bioprocessing
Associate Professor, Microbiology Department

Moderator
Bill Liss
Financial, Consumer and Legal Editor, WXIA-TV

Closing Remarks
Gracia Conn
ARCS® FOUNDATION
HISTORY AND ACHIEVEMENTS

ARCS Foundation, Inc. is a national organization dedicated to supporting the best and brightest U.S. graduate and undergraduate scholars by providing financial awards in science, engineering and medical research.

ARCS Foundation was formed in 1958 in Los Angeles in response to Sputnik and the perceived lack of U.S. supremacy in the technology race. Since then, ARCS Foundation has provided more than 14,000 scholar awards totaling nearly $87 million at 54 universities, and has grown to more than 1,600 members in 17 Chapters across the United States. More than $4.3 million was awarded in academic year 2012-2013.

Much has happened in the years since ARCS Foundation was established, but some things never change:

• 100 percent of contributions go directly to fund scholars.
• Recipient schools are qualified through rigorous eligibility requirements.
• Schools select scholars based on academic achievement without regard for race, creed or gender.
• Scholars are U.S. citizens and students of high achievement in the basic sciences.
• ARCS Foundation scholar awards funds are raised and distributed locally.
• ARCS Foundation is an all-women volunteer organization.

The following observation from Dr. Richard A. DeMillo, Distinguished Professor and Director of the Center for 21st Century Universities at Georgia Institute of Technology, truly articulates the vision and the achievements of this unique and important organization:

"ARCS Foundation has from its inception been dedicated to the renewal of the science-based workforce. Its success has been stunning. [...] If all of the ARCS Scholars gathered in one place, they would be in the top rank of world universities, a remarkable achievement for a small group of women whose goal was to help American scientists compete with Sputnik."
IN APPRECIATION

The Board of Directors of the Atlanta Chapter of ARCS Foundation extends special appreciation to the following whose time and talents contributed to the success of our annual celebration.

Coxe Curry & Associates
Jim Fitts Photography
The Fresh Market
Bill Liss, Moderator
Marguerite Peele Fine Stationery
The Ritz-Carlton, Atlanta
Mona Austin, Meetings & Special Events Manager
Kurt Schwan, Director of Catering Sales

Our Partnership Schools
Emory University, James W. Wagner, President
Georgia Institute of Technology, G.P. “Bud” Peterson, President
Morehouse College, John Silvanus Wilson, Jr., President
University of Georgia, Jere Morehead, President
Dr. Joy Doran-Peterson
University of Georgia

Joy Doran-Peterson is the Founding Director of UGA’s Professional Science Master’s Program in Biomanufacturing and Bioprocessing (MBB), where students are trained in microbiology, biochemistry, biochemical engineering, genetics, and process development. MBB students are also given a solid foundation in business aspects of the industry. Doran-Peterson was also the Founding Director of the Biofuels, Biopower, and Biomaterials Initiative (B3i), now the Bioenergy Systems Research Institute, at UGA. She is an elected officer of the American Society for Microbiology as Divisional Group III Leader and an active member of the Society for Industrial Microbiology. Her research interests include biotechnology for biofuels and bioproducts development, including metabolic pathway engineering and directed evolution for improved biocatalysts. Her work is also inspired by nature’s methods for deconstructing plant biomass in insect systems, whether it is via the animals’ contributions or the activities of its microbial consortium.

Dr. Doran-Peterson received her undergraduate degree from UGA and her PhD from the Department of Microbiology and Cell Science at the University of Florida in 1994. After graduation Dr. Peterson was tenured at Central Michigan University in the Biology Department. She moved to UGA’s Microbiology Department in 2002 where she is currently a tenured Associate Professor. Dr. Peterson launched the Biofuels initiative, B3i, in 2008 and she started the PSM program in Biomanufacturing with funding from the National Science Foundation in 2010. In addition to driving new program development at UGA, Dr. Peterson serves on the General Meeting Planning Committee for the American Society for Microbiology and was recently selected to serve on the D.C. White Research and Mentoring Award Committee. Dr. Peterson was selected to Chair the American Academy of Microbiology Colloquium on Training the Next Generation of Microbiologists for Bio-based Industries and was a featured speaker on the “Microbiology of the Bioeconomy” at the Microbes After Hours event at ASM headquarters in Washington, DC. She has received awards for Excellence in Teaching and for Outstanding Research and Creativity and recently shared some of her laboratory’s achievements and perspectives via an invited TEDxAtlanta talk. Grants from the National Science Foundation, the US Department of Agriculture, the US Department of Energy, and private industry have helped to make her research and program contributions possible.
MONARCS®

We are proud to recognize the following donors who have contributed to the Atlanta Chapter of ARCS Foundation throughout our brief history.

Donors who have given cumulative gifts of $100,000 or more:
ARCS Foundation Atlanta Membership
Wilbur and Hilda Glenn Family Foundation
Joachim Herz Stiftung

Donors who have given cumulative gifts of $75,000 or more:
Marcia and John Donnell
Frannie and Bill Graves
Betsy and Harald Hansen
Siemens Industry, Inc.
The Zeist Foundation, Inc.

Donors who have given cumulative gifts of $50,000 or more:
Madeline and Howell E. Adams, Jr.
Joseph G. and Inez Crawford Burtchaell Foundation, Inc.
Cooley Family Foundation
Patsy and Jere Drummond
Georgia-Pacific Foundation
The Imlay Foundation, Inc.
Sally and Warren Jobe
Linda T. Mauldin
The Sartain Lanier Family Foundation, Inc.

Donors who have given cumulative gifts of $25,000 or more:
Kathy and Dennis Berry
Sylvia and Bruce Dick
Georgia Gulf Corporation
Harry and Caroline Gilham Foundation
Lou and Tom Glenn
Petra Herz
James R. Kuse Foundation
Deborah and William Liss
Sherry and John Lundeen
Carol and Bob Meier
Harriett and Sandy Miller
Printpack Inc. and The Gay and Erskine Love Foundation
Charles & Catherine B. Rice Foundation
Synovus
Dr. and Mrs. Martin Teem
Turner Enterprises, Inc.
UPS Foundation
Kay and Buddy Weiss
2013 SCHOLAR AWARD DONORS

Galileo Circle
$7500 and above

Madeline and Howell E. Adams, Jr.
ARCS Foundation Atlanta Membership
Joseph G. and Inez Crawford Burtchaell Foundation
Cooley Family Foundation
Cox Enterprises, Inc.
Sylvia and Bruce Dick
Marcia and John Donnell
Patsy and Jere Drummond
Shearon and Taylor Glover
In Memory of Betsy Hansen
Petra Herz
Sally and Warren Jobe
Libby and Gary Jones
Printpack Inc. and The Gay and Erskine Love Foundation
Linda T. Mauldin
Siemens Industry, Inc.
Turner Enterprises, Inc.
UPS Foundation

Einstein Circle
$5000 - $7499

The Erroll & Elaine Davis Charitable Giving Foundation
Genuine Parts Company
Lou and Tom Glenn
King & Spalding
The Sartain Lanier Family Foundation, Inc.
Carol and Bob Meier
Cheryl and Jerry Nix
The Ritz-Carlton, Atlanta

Madame Curie Circle
$2500 - $4999

Anonymous
Kathy and Dennis Berry
Ada Lee Correll
Michael and Anne Deeley Easterly
John and Mary Franklin Foundation, Inc.
Harry and Caroline Gilham Foundation
Cheryl Dabney Johnson
Deborah and William Liss
Patty and Doug Reid Family Foundation
Century Circle
$1000 - $2499

Eliot Arnovitz
Yetty and Charlie Arp
Mollie Winston Barrow
Anne and David Boyd
Sara Jean Burke
Jenny Cannon
Nancy and Richard Chambers
Gracia Conn
Susie and Bill Deyo
Jane and Steve Dolinger
Connie Dotzenrod
Marty Gillin
Joan and Bill Goodhew
Joanne and Alex Gross
Louise Gunn
Habif, Arogeti & Wynne, LLP
Cecy Jones
Robin King
Ann and Larry Klamon
Pat and Nolan Leake
The Martha and Wilton Looney Foundation
Sherry and John Lundeen
Ronnie Martin
Sally and Allen McDaniel
Linda Kay and John McGowan
Leslie McLeod
Harriett Miller
Regina Olchowski and Ed Potter
Teed Poe
Phyllis Rodbell
Mary Rose Taylor
Liz and Mike Troy
Brooke and Winston Weinmann
Barbara Williams

Friends of ARCS Foundation

Susan Bledsoe  Caroline Hardin  Carol Phillips
Becky Blalock  Lila Hertz  Vicki Riedel
Lee Doyle  Ann Hill  Mary Snitch
Kathryn Graves  Susan McGonigle  Anne Sterchi
ARCS® FOUNDATION, INC.
ATLANTA CHAPTER PAST PRESIDENTS

Mary O’Connor, 1992-1994
Founder, Atlanta Chapter

Patsy Drummond, 1994-1995
Trudy Huger, 1995-1996
Frannie Graves, 1996-1997
Pat Leake, 1997-1998
Betsy Hansen, 1998-1999
Deborah Liss, 1999-2000
Sally Hinkle, 2000-2002
Janie Wilson, 2002-2004
Teed M. Poe, 2004-2006
Jan K. Bennett, 2006-2008
Sherry Lundeen, 2008-2010
Kay Weiss, 2010-2012

ATLANTA CHAPTER MEMBERS SERVING ON
THE ARCS FOUNDATION NATIONAL BOARD

Nancy Chambers
Gracia Conn
Sherry Lundeen
Ronnie Martin
Mary Snitch
Janie Wilson
If the United States is to continue to lead the world in science and technology, it must attract, train and employ its best and brightest students to become the next generation of scientists/scholars. Sometimes the country tends to lose sight of this important mission. ARCS Foundation remains one of the true and consistent friends of all fields of science, supporting and encouraging students to pursue research and teaching careers. Very few institutions address this need, so ARCS Foundation is an important, much-needed champion of science education.
Rachel M. Burke  
Correll/ARCS Membership Award  
Ph.D. Candidate, Epidemiology  
First Year ARCS Scholar

Rachel is an Epidemiology doctoral student and Emory Diversity Fellow focusing on infant health and nutrition. Inspired by her Latina heritage, she is particularly interested in child health in Latin American populations. After receiving her BA in Biophysics at Harvard College, she spent four years working as a management consultant with Monitor Group concentrating on the healthcare industry. In 2012, she obtained her MPH in Global Epidemiology (Emory University), where she was a Boisfeuillet Jones Scholar. She has delivered four presentations at national conferences and published two peer-reviewed articles. In her spare time, Rachel volunteers as a medical interpreter.

Caitlin Davis  
Reid/ARCS Century Award  
Ph.D. Candidate, Chemistry  
First Year ARCS Scholar

Caitlin completed a BS degree with a concentration in chemistry and mathematics from University of Michigan. Her current research uses a combination of time resolved spectroscopy and computational modeling to characterize the dynamics and mechanism of an anti-cancer β-hairpin peptide disrupting a membrane. Since these peptides preferentially bind and kill cancer cells, insights gained from these studies can be applied towards development of drugs for the treatment of cancer. Caitlin has published one peer-reviewed article and received the SIRE-HHMI Graduate Fellowship to develop research skill-building workshops for undergraduates in Emory’s Research Partner Program. She cofounded the Emory Shotokan Karate Club.
Sarah Guagliardo  Herz Global Impact Award  
Ph.D. Candidate, Biological and Biomedical Sciences  
First Year ARCS Scholar

Upon earning her BS in Public Health, Sarah worked as a research assistant at the US Agency for International Development where she characterized epidemiological trends in Eastern Europe. She served as a US Peace Corps Volunteer in Honduras working in maternal and child health, nutrition, and HIV/AIDS prevention. She later earned an MPH in epidemiology from Yale, conducting her thesis on socioeconomic and environmental factors associated with dengue in the Venezuelan Andes. As a doctoral candidate at Emory, she currently resides in the Peruvian Amazon. She is fluent in Caribbean, Central American, and Amazonian dialects of Spanish.

Scott Krummey  Turner Award  
Ph.D. Candidate, Biological and Biomedical Sciences  
First Year ARCS Scholar

Scott is currently an MD/PhD student at Emory University conducting graduate studies with Dr. Mandy Ford in the Transplant Center. He graduated magna cum laude from Colgate University as a High Honors Molecular Biology major. He was a post-baccalaureate research fellow at the NIAID for two years, where he studied a primary immunodeficiency and co-authored three publications. After completing the first two years of medical school at Emory, he is now a second-year graduate student investigating costimulation pathways of memory T cells. As a graduate student, he has given four oral presentations at national and international meetings and is the primary author of a review article and two submitted manuscripts. His research interests center on the mechanisms by which costimulating receptors control T cell function and identifying novel strategies to target pathological immune responses that cause autoimmunity and graft rejection. Following graduate school, he plans to complete medical school and clinical training in internal medicine or pathology and plans to start his own laboratory to investigate mechanisms of T cell costimulating. Scott enjoys reading about colonial-era American history, running with his dog, and perfecting his homemade pizza recipe.
Benjamin Nanes  
**Donnell Award**  
*Ph.D. Candidate, Biological and Biomedical Sciences*  
*First Year ARCS Scholar*

Benjamin graduated summa cum laude from Washington University in Saint Louis with a major in Chemistry. He subsequently joined Emory’s MD/PhD program, and is pursuing his graduate research in the Biochemistry, Cell, and Developmental Biology program in the laboratory of Dr. Andrew Kowalczyk. Benjamin’s research focuses on cell-cell adhesion in vascular development and inflammatory disease and has led to two publications. Benjamin received a fellowship from the American Heart Association and a National Research Service Award from the NIH. Outside the lab, Benjamin has advocated for improving Georgia’s healthcare safety net, for which he received the GDBBS Outreach/Community Service Award.

Kira Newman  
**ARCS Century Award**  
*Ph.D. Candidate, Epidemiology*  
*First Year ARCS Scholar*

Kira received a BA (History, Yale University), where she studied public perceptions of plague and quarantine in early modern England, and is an MD/PhD (Epidemiology) candidate. Her current and future medical research focuses on protecting individuals from norovirus ('stomach flu') infection and disease by understanding its human immune response. Among many honors, she was a 2012 Humanities, Arts, Science, and Technology Advanced Collaboratory Scholar, received competitive funding to national and international workshops on infectious disease modeling, and has three peer-reviewed publications. In her free time, Kira is an avid bicyclist and rock climber, though not at the same time.
Laura Plantinga
Ph.D. Candidate, Epidemiology
First Year ARCS Scholar

Laura (ScM, biostatistics) is a third-year epidemiology doctoral student at the Rollins School of Public Health. Prior to enrolling in the doctoral program, she worked as an academic researcher and earned a reputation in the field of kidney disease epidemiology, producing numerous publications and helping to establish a nationwide surveillance system for chronic kidney disease. Currently, her research is focused on the epidemiology of kidney disease in lupus. She hopes to apply her previous knowledge to advance the understanding of this devastating complication, potentially reducing associated health disparities. In her spare time, she enjoys hiking and reading.

Karen Siegel
Berry/ARCS Membership Award
Ph.D. Candidate, Biological and Biomedical Sciences
First Year ARCS Scholar

Karen is a Woodruff Scholar at Laney Graduate School, received her BA in Biology and Hispanic Studies from University of Pennsylvania in 2004, and her MPH in Global Health from Yale School of Public Health in 2007. Her research focuses on macro-level policy approaches to preventing chronic diseases. She has co-authored 20 peer-reviewed articles and co-edited Sick Societies: Responding to the Global Challenge of Chronic Disease (2011). In the future she hopes to continue similar academic work, creatively extending research knowledge to healthier food and agricultural policies, while also inspiring students in public health. Outside interests include swimming and writing.
James Vickers

Cox Award
Ph.D. Candidate, Chemistry
First Year ARCS Scholar

James graduated from UNF where he received awards for academics and research. He enrolled as a PhD student of Inorganic Chemistry at Emory. Under his advisor, Dr. Craig Hill, James is researching alternative fuels, specifically, water oxidation catalysis and has published seven papers. He plans to continue working in the field of alternative energy upon graduation. James is active outside the lab as a member of the ACS Georgia local section and as president of the graduate chemistry social club. He also hosts a radio show at Emory's WMRE and is vice-president of the bicycle advocacy group, Spokes Council.

Kevin Yehl

ARCS Membership Award
Ph.D. Candidate, Chemistry
First Year ARCS Scholar

Kevin graduated summa cum laude from University of South Carolina with a BS in Chemistry and is now pursuing a Chemistry PhD from Emory University. Kevin’s research interests are DNA technology, synthetic-biology, and nano-walkers. Kevin has received an NSF East Asia and Pacific Summer Institutes (EAPSI), honorable mention NSF Graduate Research, and a GAANN Fellowship. He is an ACS-RISE Scholar, Magellan Scholar, and has published an article in ACS Nano. Kevin’s career goal is to become a research professor. In his free time, Kevin enjoys playing soccer, hiking, walking his dog Izzy, and spending time with friends and family.
For more than 50 years ARCS Foundation has been providing scholar awards for the STEM fields. For more than 125 years Georgia Tech has been educating students in the STEM fields. We are very pleased to be partnering with you to be able to provide a stellar education to outstanding and deserving students.
Chastity Aiken

ARCS Membership Award
Ph.D. Candidate, Earth & Atmospheric Sciences
First Year ARCS Scholar

Graduating Summa Cum Laude and with departmental honors in 2010 with a BS in Physics from Georgia State, Chastity is currently pursuing a PhD in Earth and Atmospheric Sciences at Georgia Tech. Her research focuses on studying tremor, a subtle fault movement in the lower crust, and its interactions with damaging earthquakes. Her work has covered much of the Western Hemisphere and has been published in international journals such as Nature and Geophysical Research Letters. In her spare time, she volunteers for Trees Atlanta, tutors high school students in physics and math, and engages in rock climbing.

Candace Brakewood

Drummond Award
Ph.D. Candidate, Civil & Environmental Engineering
Second Year ARCS Scholar

Candace is pursuing a PhD in Transportation in the School of Civil and Environmental Engineering at Georgia Tech. Her academic pursuits focus on improving public transportation systems, and her doctoral research pertains to the utilization of new information and communication technologies by public transit riders. Candace has both a Master’s of Science in Transportation and Technology Policy from Massachusetts Institute of Technology. She also earned a BS in Mechanical Engineering from Johns Hopkins University. Before attending graduate school, Candace worked as a Patent Examiner at the United States Patent and Trademark Office.
Lauren Casa  Hansen Award  Ph.D. Candidate, Mechanical Engineering  First Year ARCS Scholar

Lauren is a PhD candidate in Mechanical Engineering at Georgia Tech. She completed bachelor's degrees in Mechanical Engineering and Mathematics and a Master's degree in Mechanical Engineering at Southern Methodist University in Dallas, Texas. Lauren is interested in the application of fluid mechanics to biomedical problems and medical device design, particularly in the cardiovascular space. Currently, Lauren is investigating the effects of fluid dynamic conditions on blood clotting (thrombosis) related to heart attacks and stroke. In the future, Lauren plans to pursue a career in research and development in the biotechnology industry.

Warren Gray  Herz Global Impact Award  Ph.D. Candidate, Biomedical Engineering  Second Year ARCS Scholar

Originally hailing from Oregon City, Oregon, Warren attended Oregon State University where he graduated summa cum laude in chemical engineering. His graduate work in biomedical engineering at Georgia Tech involves developing therapeutic systems for patients who have suffered from heart attacks. In addition to work in Atlanta, he spent a year abroad in Beijing, China, where he conducted research as a Whitaker International Fellow. Currently, he is developing a therapeutic that amplifies the body's natural beneficial response to heart attack. Outside the lab, he enjoys training for road races and leading the choir at his local church congregation.
Drew Loney  
Liss/ARCS Century Award  
Ph.D. Candidate, Mechanical Engineering  
First Year ARCS Scholar

Drew received a BS in Civil Engineering from the Massachusetts Institute of Technology. During his tenure at MIT, he worked for Haley & Aldrich and the Army Corps of Engineers on issues relating to sustainable energy and risk assessment. Currently, Drew is a fifth year doctoral student in the department of Mechanical Engineering at Georgia Tech. His research lies at the intersection of fluid mechanics and acoustics, focusing on improving ink jet technology for use in additive manufacturing. When he is not working on his degree, Drew is a competitive ballroom dancer.

Sarah Miracle  
Jones Award  
Ph.D. Candidate, Computing  
Third Year ARCS Scholar

Sarah is from Taipei, Taiwan. In 2003 she graduated from Vanderbilt University with a BE in computer engineering and mathematics and a MS in computer science. She worked as an engineer and a manager at National Instruments in Austin, TX for five years before returning to academia. In the fall of 2008, she started work on her PhD in Algorithms, Combinatorics and Optimization at Georgia Tech. Her advisor is Dr. Dana Randall and her research interests include randomized algorithms and Markov chains. She is also the recipient of a DOE Office of Science Graduate Fellowship.
Elizabeth Nadelman
Ph.D. Candidate, Civil & Environmental Engineering
First Year ARCS Scholar

Elizabeth is a PhD student in Civil Engineering at Georgia Tech. She received her bachelor’s degree from Princeton University, where she developed an interest in improving the durability of cement-based materials while studying freeze-thaw damage to concrete for her senior thesis. She is currently investigating the early-age properties and long-term performance of concrete made with “green” limestone cements, seeking to develop more sustainable concretes that can be tailored to achieve both optimal early-age properties and enhanced long-term durability. When she is not studying concrete, Elizabeth plays clarinet in the Callanwolde Concert Band in Decatur, Georgia.

Temi Olibanjo
Ph.D. Candidate, Electrical & Computer Engineering
Second Year ARCS Scholar

Temi started her Electrical Engineering PhD program at Georgia Tech in January 2012. She obtained her bachelor’s degree from University of Texas at Austin in December 2010, after which she worked for The Dow Chemical Company before beginning her graduate program. Her research interest is in application of engineering principles to improve the standard of living for people with disabilities and/or chronic illnesses; this includes assistive technology and wearable technologies that support healthcare and wellness. Temi is a 2013 National Science Foundation Graduate Research Fellow. In her leisure time, Temi enjoys dancing.
Matthew Plumlee  Printpack/Love Award
Ph.D. Candidate, Industrial & Systems Engineering
First Year ARCS Scholar

Matthew is a PhD student at the Stewart School of Industrial and Systems Engineering at Georgia Tech. He is researching new experimental and computational methods for system engineering and informatics. Collaborating with both academe and industry, Matthew has worked on projects including improving industrial nanopowder production, automated monitoring of steel rolling, and computational modeling of electrical activity in heart cells. Matthew has completed several publications that have been presented at conferences including INFORMS, where he received the 2012 Quality, Reliability and Statistics Best Student Paper Award.

Daniel Prosser  Siemens Award
Ph.D. Candidate, Aerospace Engineering
First Year ARCS Scholar

Daniel is a PhD student in Aerospace Engineering at Georgia Tech. His research interests include computational fluid dynamics and the aerodynamics of rotorcraft systems. His PhD research focuses on understanding and predicting the coupled aerodynamics and dynamics of cable-suspended loads carried by helicopters. He has published three conference papers and one journal paper to date. Daniel's honors include the AHS Vertical Flight Foundation Scholarship (2012), the Georgia Tech President's Fellowship (2011 -- present), and the RIT Outstanding Undergraduate Scholar Award (2010). Outside of work, he enjoys playing sports, playing the piano, and flying radio-controlled aircraft.
Laura Redmond
ARCS Century Award
Ph.D. Candidate, Civil & Environmental Engineering
First Year ARCS Scholar

Laura is a Civil Engineering PhD candidate and National Science Foundation graduate research fellow at Georgia Tech studying structural earthquake engineering. Her research is focused on hybrid reinforced masonry infill structures, which have the potential to improve the seismic performance and safety of structures across the globe. Laura has conducted research in Belize, Puerto Rico, Trinidad and Turkey, and will continue promoting multi-national knowledge exchange in her future work. Laura has worked in the past for Magnussen-Klemactic and Associates and Los Alamos Research Laboratory. Outside of the classroom, Laura enjoys running, swimming and volunteering with Klife, a local youth group.

Carol Young
Cooley Award
Ph.D. Candidate, Electrical & Computer Engineering
Second Year ARCS Scholar

Carol, of Savannah, Georgia, graduated from Rensselaer Polytechnic Institute with a Dual Major in Aeronautical and Mechanical Engineering. She spent a year working at Electric Boat, before returning to school to pursue a PhD in Robotic Engineering from Georgia Tech. Carol hopes to apply her degree to sea or space exploration, and her current research goals include creating a framework for Autonomous Water Vehicles to interact in a close and safe manor with human swimmers. To achieve this goal she has focused her research on reinforcement learning, which would allow robots to autonomously adapt to various types of interactions.
Almost 10 years ago, I received a scholar award from the Atlanta Chapter of ARCS Foundation that supported an invaluable research experience at Morehouse College. This experience opened my eyes to the numerous possibilities as a scientist and has led me to the savannas of Kenya to research yellow baboons and to the coast of Maine to study intertidal snails. Ultimately this odyssey that started with an ARCS Foundation Scholar Award has led me back to Georgia, where I am an Assistant Professor in the field of Stem Cell and Regenerative Biology at the University of Georgia. The support I received from ARCS Foundation made a definite and long-lasting impact on my career and desire to be a scientist.
Artesse Conley
Biology Major
First Year ARCS Scholar

Artesse is a junior Biology major from Atlanta, Georgia. He is a member of the Dr. John H. Hopps, Jr. Defense Research Scholars Program and the Ronald E. McNair Postbaccalaureate Achievement Program. Last summer he conducted research under the supervision of Dr. Gertrude Schupbach at Princeton University in the Department of Developmental Biology studying the establishment of polarity in drosophila egg chambers. The previous summer he participated in the Summer Medical and Dental Education Program where he spent 6 weeks simulating the life of a medical student. Artesse plans to obtain the MD/PhD graduating from Morehouse College.

Lawrence Jacob
Applied Physics Major
First Year ARCS Scholar

Lawrence is from Beltsville, Maryland and a candidate for a BS in Applied Physics from Morehouse College and a BS in Electrical Engineering from Georgia Institute of Technology. He also serves as the associate zone counselor of the Society of Physics Students and the project coordinator for the Applied Engineering Response Organization (A.E.R.O). This past summer he did research at Northwestern University using sacrificial layers to completely remove electron-beam lithography resist from graphene’s surface. In the future, he plans to study photovoltaics and/or energy storage devices in graduate school.
Jerrell Mure

Glenn Award
Mathematics Major
First Year ARCS Scholar

Jerrell is a senior Mathematics major at Morehouse College. His research interests are in applied mathematics, particularly with differential equations. In addition to his love for research, Jerrell enjoys several other activities such as, basketball, listening to and practicing music, and being involved in tutoring and aiding other students in mathematics. He has worked at Lawrence Livermore National Laboratory for two summers doing nuclear physics research and one summer at North Carolina State University doing applied mathematics research. A publication will result from the work done at North Carolina State University.

Francisco Nunez

Morehouse Leadership Award
Computer Science Major
Second Year ARCS Scholar

Francisco is a senior pursuing a Computer Science major with a Mathematics minor at Morehouse College. His research interests predominantly lie in the area of Neuroscience. He is specifically interested in cognitive learning, behavior, memory and computing. He plans to pursue a PhD in Neuroscience with a computer science application. Some of his honors include being an Oracle scholar, past BDPA (Black Data Processing Association) Scholar, a General Motors Scholar, Schwab Scholar, Microsoft Explore Program Finalist, Microsoft Student Partner, Dean’s list awardee, member of his collegiate honor society, and Dr. John H. Hopps, Jr. Research Defense Scholar.

His work experience includes mobile application development at Hewitt Packard, Computational Seismology research at Stanford University, being a Microsoft Student Partner on his campus, and conducting research in Computational Plasma physics in Paris, France through a program at the University of Michigan Ann Arbor. Outside interests of his include basketball, working out, reading, mentoring, meditation and music.
Andrew Peterson

King & Spalding Award

Physics Major

Second Year ARCS Scholar

Andrew is a rising senior at Morehouse where he is pursuing a major in Physics and a minor in Mathematics and Economics. His most recent research utilized nuclear magnetic resonance spectroscopy to analyze magnetic behavior of different particles and molecules. Andrew is a recipient of the American Physical Society's Outstanding Minorities in Physics Award given to minority undergraduate physics majors and is also a member of the Sigma Pi Sigma Physics Society. His immediate plan upon graduating from Morehouse is to pursue a PhD in Physics.

Anthony Scruse

Easterly/Johnson Award

Chemistry Major

Second Year ARCS Scholar

Anthony is from Springfield, Ohio. He is an active member of the AUC Symphony Orchestra, the Morehouse Academic Team and has performed and toured with the Morehouse College Jazz Ensemble. He is a MARC U*STAR scholar and a veteran PLTL leader. He has participated in summer research experiences at Northwestern University, Brown University and the Broad Institute of Harvard and MIT. Anthony actively conducts research in organic chemistry at Morehouse College. He plans to pursue a PhD in organic chemistry upon graduation from Morehouse in hopes of becoming a chemistry professor.
Steven Summers  
Meier Award  
Chemistry Major  
First Year ARCS Scholar

Steven is a junior majoring in Chemistry at Morehouse College. Upon graduating, he plans to attend medical school and pursue the MD/PhD. His current research focus is on hydrogels, which have several biomedical applications that include cartilage repair and are used as implants in minimally invasive surgery. Steven conducted research at the Medical College of Wisconsin that was focused on pharmaceutical drugs that combat high blood pressure.

Octavious Talbot  
Nix Award  
Mathematics Major  
First Year ARCS Scholar

Octavious is a Mathematics major at Morehouse. He plans to pursue a PhD in Statistics after graduation. Last summer, Octavious conducted research in the Mathematical Theoretical Biology Institute at Arizona State University.
Evan Turnage  Franklin/ARCS Membership Award
Physics/Spanish Major
First Year ARCS Scholar

Evan is a senior Physics and Spanish major at Morehouse and is from Jackson, Mississippi. He spent last summer investigating new methods of nanofabrication, which has promising applications in nanoantennas and improving solar energy. Upon graduating, he plans to pursue a doctoral degree in applied physics with the intent of becoming a professor of physics. Recently, Evan was inducted into the Phi Beta Kappa national honor society and the Sigma Pi Sigma Physics Society. He also enjoys speaking Spanish and spends time at Morehouse School of Medicine as an interpreter for medical students. Evan also tutors Morehouse students in physics and mathematics.

Shawn Wilkinson  Sartain Lanier Award
Computer Science Major
First Year ARCS Scholar

Shawn is from Atlanta, GA and a senior at Morehouse College. He is currently pursuing a Computer Science major and Math minor. He plans to pursue a PhD in Computer Science in the field of wearable computing or digital currency. Since age 12, Shawn has been an independent developer, creating many websites and mobile apps. Recently he was selected to beta test and develop for Google’s yet-to-be released wearable computing platform, Google Glass. He also advocates, develops with, and contributes to Bitcoin, an experimental digital currency.
The impact of any university research enterprise depends ultimately on the quality of its graduate students. They are the life blood of all academic research efforts, which is why President Adams recently set a goal of enhancing UGA’s graduate programs. The ARCS Scholars Program has been invaluable in helping UGA elevate the stature of its life science graduate programs, in particular. The honor it bestows upon those who are selected for the award motivates our students to reach higher, and the award also comes with important practical benefits in the form of discretionary funds that empower our best students. We could not be more grateful to ARCS Foundation for its support.

DAVID LEE, Ph.D.
Vice President for Research
University of Georgia
Rachelle Arnold Admas Award
Ph.D. Candidate, Chemistry
Second Year ARCS Scholar

Rachelle is a native of Woodburn, IN and graduated Summa Cum Laude from the University of Indianapolis in 2009, with a BS in Chemistry and Biology. As a doctoral candidate at University of Georgia in analytical chemistry, she works under Jason Locklin specializing in the development of surface-bound molecular bottle-brush polymers, for the study of diffusion and mechanical properties of extracellular barriers in pulmonary disorders. Rachelle currently has three first-author publications, while also contributing to a book chapter in Functional Polymers by Post-Polymerization Modification published by Wiley, VCH. She was also selected to present her research in the Excellence in Graduate Polymer Research Symposium at the Spring 2013 National American Chemical Society meeting in New Orleans, LA.

Eric DeJesus Herz Global Impact Award
Ph.D. Candidate, Biochemistry & Molecular Biology
First Year ARCS Scholar

After receiving a BS degree in Biology from the University of South Alabama, Eric joined the Biochemistry PhD program at the University of Georgia. There, under the guidance of Stephen L. Hajduk, he focused on the effects of a human innate immune molecule, called Trypanosome lytic factor (TLF), and its interactions in the human infectious parasite Trypanosoma brucei gambiense. His research and collaborations (University of Glasgow) have led to numerous presentations at national conferences and publications in PLoS Pathogens. An active member of the Biochemistry Graduate Student Association, Eric is now investigating the interactions of TLF and mammalian systems to better understand innate resistance mechanisms.
Matthew Furgerson  
Dick Award  
Ph.D. Candidate, Biochemistry & Molecular Biology  
First Year ARCS Scholar

Matthew was born in Atlanta, Georgia and is pursuing his PhD in Biochemistry and Molecular Biology at the University of Georgia. Matthew’s research interests involve various aspects of Alzheimer’s disease and have resulted in several publications, a press release, as well as being awarded the Mary Erlanger fellowship for his contributions to mental health research. In addition to research, teaching is also very important to Matthew. He has been awarded for his teaching abilities at UGA and has participated in the prestigious Future Faculty Program. Matthew considers himself an oenophile and enjoys cigars, growing orchids, playing croquet, and tennis.

Jessica Hoffman  
Glover Award  
Ph.D. Candidate, Genetics  
First Year ARCS Scholar

Jessica received her BS degree in Biology from Clemson University, and she is currently pursuing a PhD in genetics at the University of Georgia under Dr. Daniel Promislow. Her research focuses on using high throughput metabolomics to understand how small molecules in organisms affect aging. She has presented her research at national conferences and has been published in high profile journals. She has been awarded an NIH training grant and Bishop fellowship from the UGA Genetics department, and she has presided as president of the Genetics Graduate Student Association.
Wai received her BS degree in Zoology from the University of New Hampshire and is currently pursuing her PhD in Pharmaceutical and Biomedical Sciences at the University of Georgia under the guidance of Dr. Raj Govindarajan. Her research focuses on better understanding the progression of pancreatic cancer in order to discover novel approaches for overcoming chemoresistance and metastasis. Wai has presented her research at numerous national conferences and has several publications in peer-reviewed journals. For her work, she has received four awards, two research grants, and a pre-doctoral fellowship. Wai is an active member of several University organizations and enjoys mentoring undergraduates in laboratory research.

Jennifer received her BS in Psychology from the University of Georgia. She is currently pursuing a PhD in Clinical Psychology under the mentorship of Dr. Ron Blount at UGA. Jennifer’s work focuses on the intersection of psychological and biological health in children and adolescents. As a graduate student, Jennifer has received a number of prestigious awards and grants. Her research and clinical career have focused on domains of pain, oncology survivorship, transition of care from pediatric to adult healthcare, and health behavior adherence. Jennifer’s dissertation will examine the predictors of transplant functioning in children that receive solid organ transplants.
Kristin Loiselle  Gilham/ARCS Membership Award
Ph.D. Candidate, Psychology
Second Year ARCS Scholar

Kristin received her BS degree in Psychology from Drexel University. She is a graduate student member of the Pediatric Psychology Lab at the University of Georgia under the mentorship of Dr. Ron Blount, where she investigates factors that affect adherence to medical regimens among pediatric solid organ transplant recipients. She has presented her research at national conferences and has numerous publications in peer-reviewed journals. In the future, Kristin aims to develop evidence-based medical adherence interventions for pediatric medical centers. In addition to research involvement, Kristin has served in leadership and mentoring positions within the Psychology department. In her spare time, Kristin enjoys playing tennis.

Colette Miller  ARCS Membership Award
Ph.D. Candidate, Foods & Nutrition
First Year ARCS Scholar

Colette received her BS degree in Exercise Science from Florida State University and her MS degree in Nutrition from the University of North Carolina at Greensboro. She is currently a doctoral student in Nutrition at the University of Georgia under the direction of Dr. Clifton A. Baile. Colette's research focuses on the role of estrogens in the prevention of non-alcoholic fatty liver disease. Her research has been presented at conferences including Experimental Biology and Endocrinology, among others. During her career at the University of Georgia, Colette has published several manuscripts and has been awarded with the Endsley-Peifer Student Research Award for her work. In her spare time, Colette enjoys cross training and reading non-fiction literature.
Natale Sciolino  
**ARCS Century Award**  
*Ph.D. Candidate, Neuroscience*

Second Year ARCS Scholar

Natale is a doctoral candidate in the Neuroscience PhD program at the University of Georgia. The aim of Sciolino’s dissertation is to uncover how exercise alters the brain to produce stress resilience. Her research uses behavioral, anatomical, and neurochemical tools to highlight an important role for the brain chemical galanin in stress resilience. Her research has the potential to show how normal and disordered brains operate. Sciolino received research support from the National Institute of Health, National Science Foundation, and McNair program. Her long-term aspiration is to secure a tenure-track position as a behavioral neuroscientist at a top institution.

Rebecca Sweet  
**Mauldin Award**  
*Ph.D. Candidate, Pharmaceutical & Biomedical Sciences*

First Year ARCS Scholar

Rebecca is from Rochester, NY and received her BS degree in Biochemistry from the University of Dayton in 2009. She is currently a PhD candidate in the Department of Pharmaceutical and Biomedical Sciences in the College of Pharmacy at UGA. She is conducting research focusing on the adaptive regulation of thiamine transport under the guidance of Dr. Jason Zastre. Thiamine deficiency has been reported to be associated with a number of pathologies including cardiovascular and nervous system diseases, brain encephalopathy, diabetes, Alzheimer’s disease and cancer; and her research will aid in the realization of therapeutic strategies that modulate thiamine transport capacity. Rebecca is an active member of the American Association of Pharmaceutical Scientists (AAPS), American Association for Cancer Research (AACR) and UGA Graduate Students and Postdocs in Science (GSPS).
ARCS® FOUNDATION, INC. ATLANTA CHAPTER
BOARD OF DIRECTORS 2013-2014

EXECUTIVE BOARD

President
President Elect
Vice President Administration
Vice President Finance/Treasurer
Vice President Membership
Vice President University Relations
Vice President Funds Development
Vice President Communications
Vice President Education/Events
Recording Secretary
Parliamentarian

Gracia Conn
Jane Dolinger
Leslie Petter*
Louise Yeoman
Lee Doyle*
Brooke Weinmann*
Anne Easterly* and
Sally McDaniel*
Joan Heazel*
Caroline Hardin*
Shearon Glover
Susan McGonigle

COMMITTEE CHAIRS AND CO-CHAIRS

ARCS Scholars Chair
ARCS Scholar Alumni Chair
Assistant Treasurer
Funds Development VP-Elect
Endowment Fund Chair
2014 Retreat Chairs

Liz Lauer*
Susie Deyo
Carol Meier
Nancy Chambers*
Liz Troy
Janie Wilson and
Peg Cooley
Sylvia Dick
Sara Jean Burke
Robin King
Patty Reid
Yetty Arp
Barby Levy
Corrie Johnson*
Ronnie Martin
Anne Boyd*
Carla Fackler and
Judy Schmidt
Lisa Bankoff
Connie Dotzenrod
Frances Swensson
Kathryn Graves*
Susan Higley*
Pat Leake

*New in 2013
SCHOLAR AWARDS LUNCHEON COMMITTEE 2013

Chairman
Sylvia Dick
Chairman-Elect
Sara Jean Burke

Funds Development
Linda Kay McGowan, Chair
Anne Boyd
Susan Boyd
Anne Easterly*
Beth Finnerty
Libby Jones
Sherry Lundeen
Sally McDaniel*
Debbie Shelton
Mary Snitch
Frances Swensson
Liz Troy

*Co-chairs, 2013-14

Flowers
Yetty Arp
Nametags
Pat Leake
Program
Sara Jean Burke
Public Relations
Patty Reid
Registration
Frances Swensson
Reservations
Pat Leake
Scholar Relations
Liz Lauer
Seating
Haidee Courson
University Relations
Brooke Weinmann

Ambassadors
Deede Stephenson, Chair
Sally Boice
Susie Boyd
Eileen Christman
Beth Finnerty
Marty Gillin
Kathryn Graves
Caroline Hardin
Susan Higley
Sally Hinkle
Monica James
Robin King
Elizabeth Martin
Leslie Petter
Vicki Riedel
Ann Sterchi
Liz Troy
Mollie Winston Barrow
ARCS FOUNDATION
ATLANTA CHAPTER MEMBERSHIP

ACTIVE MEMBERS

Sharon Ansley
Yetty Arp
Lisa Bankoff
Mollie Winston Barrow
Jan Bennett
Jeanne Berry
Kathy Berry
Becky Blalock
Susan Bledsoe
Sally Boice
Anne Boyd
Susan Boyd
Pat Bras*
Camille Buice
Sara Jean Burke
Jenny Cannon
Nancy Chambers
Eileen Christman
Gracia Conn
Peg Cooley
Lynn Cornett
Ada Lee Correll
Haidee Courson
Ann Curry
Elaine Davis
Susie Deyo
Sylvia Dick
Jane Dolinger
Connie Dotzenrod
Lee Doyle
Anne Easterly
Molly Eskew
Carla Fackler
Betty Feezor
Elizabeth Finnerty
Michele Gandy
Caroline Gilham
Marty Gillin
Lou Glenn
Shearon Glover
Elsie Gould
Kathryn Graves
Joanne Gross
Caroline Hardin
Laura Hardman
Katherine Harman
Kitty Hawks
Joan Heazel
Susan Higley
Sally Hinkle
Trudy Huger
Mary Alice Isele
Monica James
Helen Jancik
Sally Jobe
Cheryl Dabney Johnson
Corrie Johnson
Elizabeth Jones
Cecy Jones
Anita Kern
Robin King
Liz Lauer
Pat Leake
Liz Levine
Barbara Levy
Deborah Liss
Betts Love
Valerie Love*
Sherry Lundeen
Elizabeth Martin
Ronnie Martin
Linda Mauldin
Alicia McCabe*
Missy McClatchey*
Sally McDaniel
Susan B. McGonigle
Linda Kay McGowan
Maggi McKay
Leslie McLeod
Carol Meier
Joanie Michaels
Cathey Millichap
Sue Missbach
Michelle Nordin
Regina Olchowksi
Leslie Petter
Ginny Plummer
Teed Poe
Sharon Quaintance
Kathy Rainer
Nancy Rank
Patty Reid
Vicky Riedel
Phyllis Rodbell
Judy Schmidt
Penny Seawell
Deborah Shelton
Mary Snitch
Elizabeth Spiegel
Deede Stephenson
Anne Sterchi
Suzn Stewart*
Frances Swenson
Carol Teem
Babette Tipping
Liz Troy
Pat Tuff
Lissa Webber*
Brooke Weinmann
Kay Weiss
Clare Whitfield
Janie Wilson
Louise Yeoman
Marguerite York

*New Members
ASSOCIATE MEMBERS

Madeline Adams  Jane Huffard
Jane Alexander  Trina Johns
Kathy Ashe  Randy Jones
Paula Lawton Bevington  Ann Klamon
Reg Bridges  Margaret Kresge
Alice Brown  Lynne Land
Ann Cousins  K Maier
Connie Dimling  Harriett Miller
Marcia Donnell  Sue Mobley
Patsy Drummond  Betty Mori
Marie Foster  Brenda Moseley
Kristen Gibbs  Lu Napier
Sarah Gladden  Lynn Cochran Schroder
Joan Goodhew  Mary Rose Taylor
Louise Gunn  Babette Tipping
Lillo Harris  Kristin Whatley
Aileen Hatcher  Sue Wieland
Ann Hill  Barbara Williams

HONORARY MEMBERS

Mary O’Connor
Val Peterson
Debbie Wagner
Carol Espy-Wilson