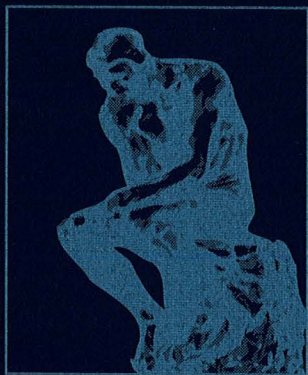


# ACHIEVEMENT REWARDS FOR COLLEGE SCIENTISTS

*Atlanta Chapter*

---

A R C S



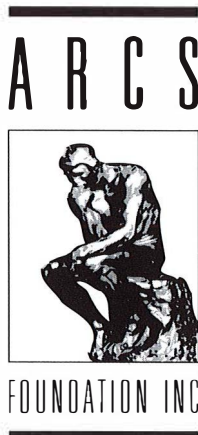
FOUNDATION INC

---

*11th Annual*

## Scholars Awards Luncheon

November 21, 2002



*Atlanta Chapter*

## **Program**

### **Welcome**

Janie Wilson, President, ARCS Atlanta Chapter

Guest Recognition

ARCS Mission and History

*Presentation of  
2002 ARCS Atlanta Scholars*

### **Lunch**

### **Introduction of Keynote Speaker**

Bill Liss, Business, Financial & Consumer Editor, WXIA-TV

**Jeffrey P. Koplan, M.D., M.P.H.**

Vice President for Academic Health Affairs

Woodruff Health Sciences Center

Emory University

### **Closing Remarks**

Janie Wilson

# ACHIEVEMENT REWARDS FOR COLLEGE SCIENTISTS

*Atlanta Chapter*

Scholars Awards Luncheon

*Presenting Sponsor*



FEDERAL HOME LOAN BANK  
of ATLANTA

Raymond R. Christman  
President and  
Chief Executive Officer

# *2002 Scholarship Donors*

## *\$5,000 Donors*

ARCS, Atlanta Membership – 12 Scholarships  
The Joseph G. & Inez Crawford Burtchaell Foundation  
The Coca-Cola Foundation  
Cheryl E. Dixon  
Marcia & John Donnell  
Patsy & Jere Drummond  
DVT Corporation  
Georgia Gulf Corporation  
Georgia-Pacific Corporation  
The Graves Foundation  
The Hansen Family Foundation  
Mr. & Mrs. Parks H. Hicks  
The Imlay Foundation  
James R. Kuse Foundation  
Siemens Energy & Automation, Inc.  
Synovus, Inc.  
The Teem Family  
The Zeist Foundation

## *\$2,500 Donors*

Gilham/Stokes Scholarship  
Caroline & Harry Gilham  
Nita Stokes

Leake/McKenna Scholarship  
Pat & Nolan Leake  
Margaret & Andy McKenna

Mauldin/Miller Scholarship  
Linda Mauldin  
Harriet & Sandy Miller

Moseley/Napier Scholarship  
Brenda & Charles Moseley  
Lu & Jim Napier

## *Century Scholarship Donors ~ \$1,000*

Regina & Terry Bridges  
Alice & Virgil Brown  
Mary Helen & Jim Dalton  
Susie & Bill Deyo  
Betty Feezor

Joan & Bill Goodhew  
Aileen & Milford Hatcher  
Sally & Jim Hinkle  
Deborah & William Liss  
Elizabeth Morgan Spiegel

David & Beverly Stacy

## *From the President*

Welcome to the 11th annual ARCS Atlanta Scholars Luncheon!

As we begin our second decade of supporting some of America's brightest minds and finest young people, the members of our chapter are more cognizant than ever of our country's need to maintain its standing as the world leader in scientific and technological innovation. Only through the dedication, ingenuity and work of scholars such as these we honor today can this goal be realized.

Today, 38 academically outstanding science and engineering students from Emory University, the Georgia Institute of Technology, Morehouse College and The University of Georgia will be recognized and presented with \$5,000 scholarships to help complete their higher education. All have been selected by their respective departments to receive this honor by meeting and maintaining ARCS Foundation's high standards of academic excellence.

Since 1992, when the ARCS Atlanta Chapter was founded and we first awarded \$15,000 in scholarships, Atlanta will have given a cumulative total of \$896,000 to deserving students. So, what is the source of this largess? First and foremost, our 131 ARCS Atlanta members, whose dues provide a good number of these scholarships. In addition, many members 'have "gone that extra mile" to provide funding for \$5,000 and Century Scholarships. And Donors like you! We have welcomed corporations, foundations and families from our community into the ARCS Scholarship fold. We hope some of you here today who hear our message and meet our phenomenal scholars will be inspired to become our newest ARCS Scholarship Donors.

In closing, I would like to recognize our Presenting Sponsor, Federal Home Loan Bank of Atlanta, and extend my sincere thanks to them, to Eileen Christman, Sharon Flores and to the Luncheon Committee, all of whom have labored since last November to make this a memorable day for our scholars, members and guests.

Janie Wilson, President  
ARCS, Atlanta Chapter





**Jeffrey P. Koplan, M.D., M.P.H.**  
Vice President for Academic Health Affairs  
Woodruff Health Sciences Center  
Emory University

In April 2002, Dr. Jeffrey P. Koplan was appointed Vice President for Academic Health Affairs of Emory University's Woodruff Health Sciences Center. In this position, he is responsible for coordination and oversight of academic matters including research and education in Emory's schools of medicine, nursing, and public health and the Yerkes National Primate Research Center.

From 1998 to 2002, Dr. Koplan served as the Director of the Centers for Disease Control and Prevention (CDC) and Administrator of the Agency for Toxic Substances and Disease Registry (ATSDR).

Dr. Koplan began his public health career in the early 1970's as one of the CDC's celebrated "disease detectives," more formally known as Epidemic Intelligence Service (EIS) Officers. Since then, he has worked on virtually every major public health issue, including infectious diseases such as smallpox and HIV/AIDS, environmental issues such as the Bhopal chemical disaster, and the health toll of tobacco and chronic diseases, both in the United States and around the globe.

From 1994 to 1998, he pursued his interest in enhancing the interactions between clinical medicine and public health by leading the Prudential Center for Health Care Research, a nationally recognized health services research organization.

Dr. Koplan is a graduate of Yale College, the Mt. Sinai School of Medicine, and the Harvard School of Public Health. He is a Fellow of the American College of Physicians and was elected to membership in the Institute of Medicine. He has served on many advisory groups and consultancies in the U.S. and overseas, and has written more than 170 scientific papers.

# *ARCS At A Glance*

## **Chapters**

Atlanta, Georgia  
Chicago, Illinois  
Denver, Colorado  
Honolulu, Hawaii  
Los Angeles, California  
Lubbock, Texas  
Metropolitan Washington  
Northern California  
Orange County, California  
Phoenix, Arizona  
San Diego, California  
Seattle, Washington

## **Mission**

The ARCS Foundation provides scholarships to academically outstanding United States citizens studying to complete their degrees in science, medicine and engineering thereby contributing to the worldwide advancement of science and technology.

## **Achievements**

For the 2001-2002 academic year, ARCS chapters have awarded \$4,016,312 to 472 scholars at 43 schools.

During the 44-year history of ARCS, a total of \$41,703,788 has been awarded to financially assist students of high achievement.

## **Scholarship Donors and Fundraising**

The 1,412 members of ARCS are volunteers who willingly and enthusiastically donate their time, efforts and financial support.

Because all scholarship fund solicitation and administration expenses are underwritten or donated by ARCS members, **100%** of all contributions go directly to scholarships.

ARCS Foundation, Inc. provides a way for corporations, civic organizations and individuals in the community to combine resources and efforts to support American scholars, helping to ensure a better future for all. ARCS awards for basic scientific education are the largest of any private membership organization in the United States.

**Web Site: [ARCSFOUNDATION.ORG](http://ARCSFOUNDATION.ORG)**

# *Emory University*

## **William W. Cutchins**

## **Second Year ARCS Scholar**



### **Ph.D. Candidate, Chemistry Synovus, Inc. ARCS Scholarship**

Will grew up in and around Richmond, Virginia. He attended Hamilton College, where he studied chemistry under Robin Kinnel and Ian Rosenstein. Will's undergraduate research at Hamilton focused on the search for new medicinal agents from marine organisms. In 1998 he joined Frank McDonald's research group at Emory University and initiated his project to prepare new antibiotic drugs. In 2002, Will

began his own independent teaching career as a recipient of the Dean's Teaching Fellowship at Emory. When not teaching or discovering new chemistry, Will enjoys playing classical guitar and studying Ying Jow Pai Jung Fu.

## **Michael E. Davis**

## **First Year ARCS Scholar**



### **Ph.D. Candidate, Molecular & Systems Pharmacology ARCS Membership Scholarship**

Michael received his B.A. in Biology from Rutgers College in 1998. While there, he spent time doing environmental research for the Rutgers Department of Ecology as well as wound healing research for Johnson & Johnson. He currently works in the laboratory of Dr. David Harrison in the Emory Division of Cardiology. Michael's main research focuses on

blood flow and its regulation of anti-atherosclerotic factors, specifically the endothelial nitric oxide synthase. After receiving his Ph.D., he intends to do post-doctoral research in cardiology at Harvard University and continue to pursue research opportunities. In his free time, Michael plays semi-professional baseball in Atlanta.



# *Emory University*

## **Jenny M. Henderson**

## **Second Year ARCS Scholar**



### **Ph.D. Candidate, Nutrition & Health Sciences ARCS Membership Scholarship**

Jenny's interest in the field of nutrition research began on the family farm in the Midwest. Here, she saw the positive impact of genetic alterations that would protect crops from insect infestation. Jenny hopes to use her studies and skills to address biomedical issues in conjunction with nutrition, with a focus on disease prevention in humans. The idea that what we eat affects everything from how our body grows to our susceptibility to disease is a ripe area for scientific research with results just beginning to be tapped. Jenny envisions a career not only in being a part of the evolving field of nutrition research but also in working to plant the seed of knowledge and inspiration in young scientists seeking to find their niche.

## **Valerie J. Horsley**

## **Second Year ARCS Scholar**



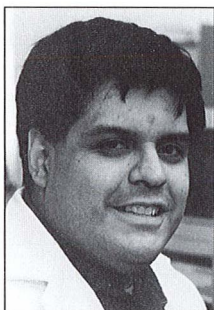
### **Ph.D. Candidate, Biochemistry, Cell & Developmental Biology Teem Family ARCS Scholarship**

Valerie's interest in life sciences was sparked at a young age by a program at Fernbank Science Center called "Scientific Tools and Technology." Later, at Furman University, her senior research project focused on treating cancer using tumor cells engineered to elicit an immune response. At Emory University, her research has focused on the mechanisms in which muscle cells grow. Valerie has been a teaching assistant for both graduate cell biology and the physician assistant biochemistry course. Valerie's long term goal is to pursue a career in academic biomedical research and teaching.

# *Emory University*

**Martin N. Jacquez**

**Second Year ARCS Scholar**



**Ph.D. Candidate, Chemistry  
Zeist Foundation ARCS Scholarship**

Marty graduated with a Bachelor of Science degree in Chemistry from the University of Colorado at Colorado Springs, where he was a research assistant in synthesis and characterization of certain defined chemical compounds. He also served as a teaching assistant in organic and analytical chemistry labs. At Emory University, his advisor, Professor Albert Padwa, has been influential in his maturation as a research chemist. He is engaged in investigations of intramolecular photochemistry and free-radical chemistry of thiosuccinimide systems in the synthesis of heterocycles. After completing his doctoral degree and obtaining a postdoctoral position, Marty hopes to pursue a career in pharmaceutical research and development.

**Beven P. Livingston**

**Second Year ARCS Scholar**



**Ph.D. Candidate, Neuroscience  
Georgia Gulf Corporation ARCS Scholarship**

Beven earned a B.S. degree in Biology from Transylvania University. Her interest is in the field of physical rehabilitation. She spent twelve years working as a physical therapist and athletic trainer before embarking on graduate studies in biomechanics at Emory. As a clinical instructor, Beven found most students seemed to have difficulty integrating basic science information into a problem-solving treatment plan to care for their patients. Her focus as a teaching professional is to aid students in understanding the importance of basic science as it evolves rapidly, and how to integrate this information into a successful treatment plan. Beven's career goal is to pursue research and education to contribute to the knowledge base of how the central nervous system controls the musculoskeletal system.

# *Emory University*

## **Wade A. Neiwert**

## **First Year ARCS Scholar**



### **Ph.D. Candidate, Chemistry ARCS Membership Scholarship**

Wade earned his B.S. in Chemistry in 1999 at George Fox University in Newberg, Oregon. He graduated magna cum laude while researching the synthesis of inorganic clusters. His studies continue at Emory University, under the tutelage of Dr. Craig L. Hill. Wade's research interests include the design of fundamentally new inorganic/organic materials for the catalytic decontamination of harmful chemicals, including chemical warfare agents and indoor air pollutants. In addition to his individual research, Wade serves as the X-ray crystallography service instructor for the chemistry department. When not in the lab, he enjoys camping, biking and spending time with his wife, Rachel, friends and his two border collies.

## **Sarah C. Prather**

## **Third Year ARCS Scholar**



### **Ph.D. Candidate, Neuroscience Kuse Foundation ARCS Scholarship**

Sarah graduated magna cum laude with a B.S.E. degree in Biomedical Engineering from Duke University. While at Duke, she built a lie detector and a computer model of the heart and investigated laser surgery as a therapy for retinal detachment. She has twice been a National Institutes of Health grant recipient. She has represented students on the Neuroscience Program Executive Committee and on the Division Student Advisory Council. Within her dissertation project, she studies the interaction between touch and vision. Eventually this work will lead to the design of therapies and prosthetics for the blind. Sarah's career goal is to direct science education through science museums and technology centers. In the evenings, Sarah teaches English to internationals through her church.

# *Emory University*

**Keely S. Solomon**

**First Year ARCS Scholar**

**Ph.D. Candidate, Genetics  
& Molecular Biology  
ARCS Membership Scholarship**



Keely received her B.S. in Biology with highest honors from the University of North Carolina at Chapel Hill. As an undergraduate, she investigated genetic requirements for plant growth and flowering. This work culminated in an honors thesis and a publication. Keely's current interests lie in developmental biology, and she has identified and characterized several potential deafness genes as part of her thesis work at Emory University. She has been a teaching assistant for medical genetics and embryology courses, has served as a student representative on the Division Student Advisory Council and has also been a National Institutes of Health training grant recipient. Planning a career in academic or industrial research, Keely also enjoys writing and mountain biking.



# *Georgia Institute of Technology*

**Erika A. Ooten Biediger**

**First Year ARCS Scholar**

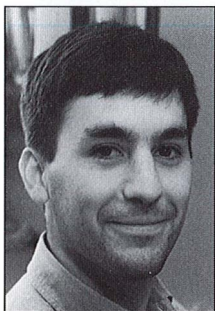


**Ph.D. Candidate, Mechanical Engineering  
ARCS Membership Scholarship**

Erika graduated magna cum laude with a B.S. in Mechanical Engineering from Texas A&M University in 1998. In December 2000, she received her Masters of Science degree in Mechanical Engineering from the Georgia Institute of Technology. During her undergraduate and graduate years, she completed six summer terms as an engineering intern for ExxonMobil. During her last internship, Erika helped develop liquid lift technology for deep water drilling. She is pursuing a Ph.D. in Mechanical Engineering in the area of Automation and Controls. Her research interests are currently focused on controlling the motion of multiple satellites used in formation flying. Erika is the recipient of numerous fellowships including a NASA Goddard Space Flight Center Graduate Student Researchers Program award.

**James P. Brooks**

**Second Year ARCS Scholar**



**Ph.D. Candidate, Industrial  
& Systems Engineering  
DVT Corporation ARCS Scholarship**

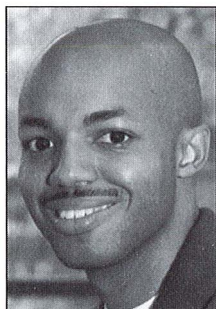
Paul graduated from the University of Virginia in 1999 with B.A. degrees in Mathematics and Physics. That summer, he entered the Ph.D. program in the School of Industrial and Systems Engineering at Georgia Tech. His field of concentration is optimization and his doctoral research is focused on biomedical applications of integer programming. Specifically, Paul is developing classification techniques with the intention of applying them to cancer treatment and diagnosis. He is conducting this research with Professor Eva Lee. Beyond school, he participates in a men's baseball league. Paul is considering future positions as a research scientist in the biotechnology industry and as a professor in academia.



# *Georgia Institute of Technology*

## **Jerome D. Coombs-Reyes**

## **First Year ARCS Scholar**



### **Ph.D. Candidate, Industrial & Systems Engineering Hansen Family ARCS Scholarship**

Jerome graduated Phi Beta Kappa from Morehouse College in 1997 with a B.S. in Mathematics. As part of a dual degree program, he also received a B.S. in Industrial Engineering from Georgia Tech that same year and continued on to earn his M.S. degree in Operations Research in 1999. Jerome's current Doctoral research at Tech is in the area of Stochastic Processes. More specifically, given a particular queuing discipline, his goal is to develop asymptotic expressions to characterize the rare event when the joint queue length gets large. During the past five years, Jerome has been the recipient of numerous fellowship awards including AT&T, NSF, Sloan Foundation, Georgia Tech Presidential and the Office of Naval Research.

## **Rebecca J. Covert**

## **Third Year ARCS Scholar**



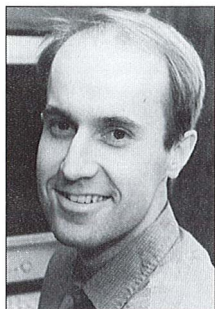
### **Ph.D. Candidate, Mechanical Engineering Mauldin/Miller ARCS Scholarship**

Rebecca received a B.S. degree in Mechanical Engineering with a minor in Architecture from Massachusetts Institute of Technology in 1996. As a process/product engineer for Hewlett Packard, she traveled to Singapore and Mexico to oversee production line installation and training for DeskJet printer manufacturing. After two years, she returned to graduate school as a National Science Foundation Fellow, receiving a M.S. degree in Mechanical Engineering from Georgia Tech in 2000. Rebecca is currently pursuing a Ph.D. in Mechanical Engineering with a minor in Management for Bioengineers. Her research interests are in the area of biomedical devices. Rebecca is presently evaluating the durability of materials that may be used as articular cartilage replacements for those suffering from degenerative joint disorders.

# *Georgia Institute of Technology*

## **Braden K. Hunsaker**

## **Fourth Year ARCS Scholar**



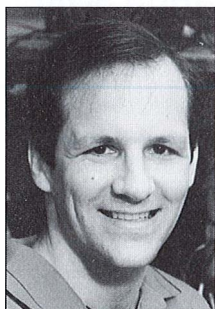
### **Ph.D. Candidate, Industrial & Systems Engineering Leake/McKenna ARCS Scholarship**

Brady earned a B.A. degree in Mathematics from Harvard University in 1997, graduating magna cum laude. After working for one year at an international school in Stavanger, Norway, he began his graduate studies in Georgia Tech's interdisciplinary doctoral program in Algorithms, Combinatorics, and Optimization. He has been awarded a National

Defense Science and Engineering Graduate Fellowship from the U.S. Department of Defense. Brady's primary research lies in the area of combinatorial optimization. He is working with Professors Ellis Johnson and Craig Tovey seeking ways to measure the "strength" of cutting planes in integer programming.

## **Peter A. Kottke**

## **Second Year ARCS Scholar**



### **Ph.D. Candidate, Mechanical Engineering Siemens, Inc. ARCS Scholarship**

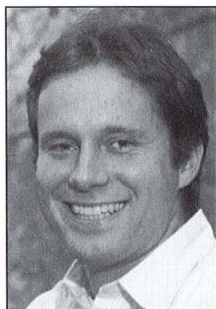
Peter attended Duke University on a U.S. Navy ROTC scholarship and earned a degree in Mechanical Engineering in 1995. After graduation, he served in the Navy as a nuclear submarine officer. During his service, Peter developed a strong interest in the thermal sciences and decided to return to school in pursuit of a Ph.D. His research is focused in the area of rheology, the study of the flow

and deformation of material. He is specifically looking at the role of tension in liquids and is developing a new criterion for cavitation based on his results. Peter is the recipient of a National Defense Science and Engineering Graduate Fellowship as well as a Georgia Tech President's Fellowship. Peter enjoys spending time away from his studies with his wife, Maggie, an Emory medical student, and their one-year-old son, Jackson.

# *Georgia Institute of Technology*

**Kristopher C. Kozak**

**First Year ARCS Scholar**



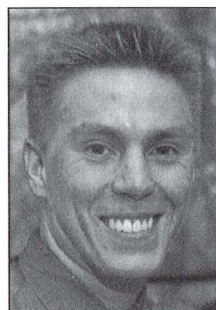
**Ph.D. Candidate, Mechanical Engineering  
Mauldin/Miller ARCS Scholarship**

Kris earned a Bachelor of Mechanical Engineering degree from Georgia Tech in 1999. He immediately entered the mechanical engineering Ph.D. program at Tech supported by a Department of Defense, National Defense Science and Engineering Graduate Fellowship. In December of 2001, he received a M.S. degree in Mechanical Engineering.

Kris is currently researching robust command generation for nonlinear mechanical systems under the guidance of his co-advisors, Dr. Imme Ebert-Uphoff and Dr. William Singhose. He is the recipient of a Georgia Tech President's Fellowship. His career goal is to work as a researcher in the fields of dynamics, controls, robotics and mechatronics.

**Brian M. Lewis**

**First Year ARCS Scholar**



**Ph.D. Candidate, Industrial  
& Systems Engineering  
ARCS Membership Scholarship**

Brian earned a B.S. degree in Industrial Engineering and Operations Research from the University of California, Berkeley in 1999. Continuing on to graduate school as a College of Engineering Fellow, he earned a M.S.E. degree in the same area from the University of Michigan in 2001. Now at Georgia Tech, Brian is pursuing a

Ph.D. in Industrial and Systems Engineering with a focus on transportation and logistics systems. His research investigates the trade-offs between security practices and efficiencies in intermodal transportation systems, specifically in transshipment seaports. Brian was recently awarded a 2002 Dwight D. Eisenhower Fellowship for Graduate Study in Transportation. After graduation, he intends to pursue a career in academia.



# *Georgia Institute of Technology*

## **James R. Luedtke**



## **First Year ARCS Scholar Ph.D. Candidate, Industrial & Systems Engineering ARCS Membership Scholarship**

Jim graduated from the University of Wisconsin, Madison in 2001 with a B.S. degree in Industrial Engineering. As an undergraduate, he gained industry experience working for Agilent Technologies where he developed decision support systems for material and capacity planning in one of their manufacturing areas. Jim's general research interest is the field of Operations Research, and he is currently working with Professor Chip White on a project applying techniques of this field to the investigation of security and efficiency in transportation of hazardous materials. After completing his Ph.D., Jim hopes to obtain an academic position with some emphasis on teaching. In his free time, he enjoys outdoor activities such as hiking and biking.

## **Christina Robinson Scherrer**



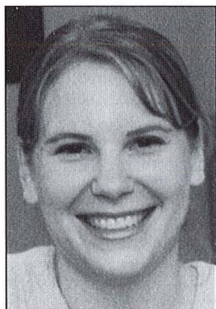
## **First Year ARCS Scholar Ph.D. Candidate, Industrial & Systems Engineering Imlay Foundation ARCS Scholarship**

Christina earned her B.S. degree in Industrial and Systems Engineering from Georgia Tech in 1999, graduating with highest honors. She remained at Tech to begin her Ph.D. and was awarded a National Defense Science and Engineering Graduate Fellowship from the U.S. Department of Defense. Christina's primary research interests are in the areas of logistics, supply chain management and economic decision analysis. She is working with Professors Paul Griffin and Steve Hackman on pricing problems in project-oriented production environments. After graduation, Christina plans to pursue a career in academia. Outside of school, she enjoys volunteering as a group leader for the youth program at North Avenue Presbyterian Church.

# *Georgia Institute of Technology*

**Susan W. Stewart**

**Second Year ARCS Scholar**



**Ph.D. Candidate, Mechanical Engineering  
Drummond ARCS Scholarship**

Susan received a Bachelor of Science degree from Penn State University in 1999, graduating with distinction. She then began her graduate studies at Georgia Tech where she was awarded a National Science Foundation Fellowship in 2000 and earned her Masters Degree in 2001. Her current research is in the field of energy systems. Susan is working on a computer program that optimizes the design of residential air-conditioners using a new environmentally friendly refrigerant. The current standard refrigerant will be phased out beginning in 2010 due to its high ozone depletion potential. Using a new refrigerant requires a new A/C design. To help reduce the amount of energy required to cool homes, Susan's goal is to make these new designs as energy efficient as possible.

**Shannon L. Stott**

**Third Year ARCS Scholar**



**Ph.D. Candidate, Mechanical Engineering  
Graves Foundation ARCS Scholarship**

Shannon earned a B.S. degree in Mechanical Engineering from the University of New Hampshire in 1997, followed by a Masters Degree in 1999 from the University of Illinois. Her thesis research at Georgia Tech is in the field of bioengineering with a focus on cryopreservation. Under the advisement of Dr. Jens Karlsson, she is utilizing theoretical and experimental methods to elucidate and model the mechanisms of damage during the preservation of cells and tissues. Recently, Shannon received an ASME Graduate Teaching Fellowship, providing her with the opportunity to co-teach an undergraduate class this fall. After graduation, she plans to pursue a career in academia.



# *Georgia Institute of Technology*

## **Dawn M. Strickland**

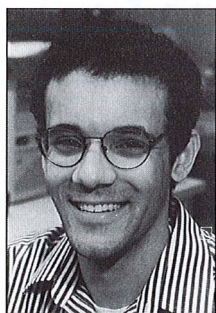


## **First Year ARCS Scholar Ph.D. Candidate, Industrial & Systems Engineering ARCS Membership Scholarship**

Dawn is a 1997 graduate of Duke University with a degree in Mathematics. After graduation, she entered the doctoral program at the School of Industrial and Systems Engineering at Georgia Tech, where she received a President's Fellowship. Dawn earned a Master's Degree in Operations Research in 1999 while continuing work on a Ph.D.

Her research uses combinatorial optimization to solve the maximum clique problem and focuses specifically on applications of this problem to protein structure alignment. In April 2002, Dawn received the Georgia Tech CETL/BP-AMOCO Teaching Excellence Award. Upon completion of her Ph.D. in December, Dawn will be an Assistant Professor of Mathematics at Winthrop University in Rock Hill, South Carolina.

## **Michael D. Swinson**



## **Third Year ARCS Scholar Ph.D. Candidate, Mechanical Engineering ARCS Century Scholarship**

Michael graduated magna cum laude with a B.S. degree in Economics, Mechanical Engineering and Materials Science from Duke University in 1996. He received his Master's Degree in Mechanical Engineering from Georgia Tech in 2000. He has worked as a lab and research assistant for ICI Pharmaceuticals and for Zeneca, Inc. and as a technical researcher and energy engineer for

DuPont. Mike is a recipient of fellowships from the National Defense Science and Engineering Foundation and the National Science Foundation. Other honors Mike has been awarded include General Electric, GEM, U.S. Department of Defense and Georgia Tech President's Fellowships. His research involves developing a new class of learning algorithms for modeling practical nonlinear dynamic systems.

# *Morehouse College*

**Christopher O. Bayne**

**Second Year ARCS Scholar**



**Senior, Biology Major  
Coca-Cola Foundation ARCS Scholarship**

An honor roll student, Christopher is a member of the Health Careers Society and the National Society of Collegiate Scholars. During the summers of 2000 and 2001, Christopher worked for the Lawrence Berkeley National Laboratory on research on circumvention of brain damage suffered by cardiac arrest patients through cooling devices designed to antagonize the brain's NMDA receptor. He did coronary artery disease research at Weill Medical College of Cornell University during the summer of 2002. In addition, Christopher co-founded a nonprofit organization, iRULE (instilling Responsibility, Unity and Leadership through Education) that focuses on teaching science to under-served middle school children.

**Donnie L. Bell, Jr.**

**Second Year ARCS Scholar**



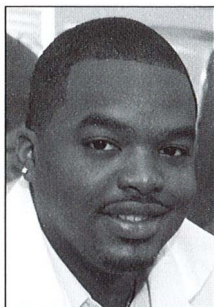
**Senior, Biology Major  
David M. Dixon ARCS Scholarship**

Donnie is on the Dean's list at Morehouse College, a member of the National Society of Collegiate Scholars and a participant in the U\*STAR/MARC program, which supports exceptional students pursuing research careers. He also serves as a General Biology teaching assistant. Donnie is the vice president of the Morehouse College Health Careers Society. Recent research projects include studying gene regulation during states of hypertension at Morehouse School of Medicine, studying the molecular basis of neural development at Yale University School of Medicine during the summer of 2001 and investigating endogenous inhibitory ligands for PPAR receptors at Harvard Medical School. His career goal is to become a physician scientist. Donnie is a saxophonist in the Ebenezer Baptist Church Ensemble and is interested in art and athletics.

# *Morehouse College*

## **Kavan T. Clifford**

## **First Year ARCS Scholar**

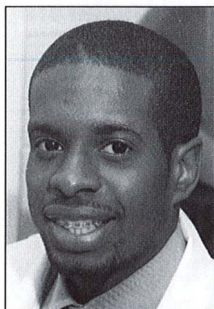


### **Senior, Biology Major Donnell ARCS Scholarship**

Kavan, a native of Atlanta, has received many honors while at Morehouse. He is in the U\*STAR/MARC program, recognized by the National Society of Collegiate Scholars, a member of Omicron Delta Kappa, a leadership honor society, and on the Morehouse College Dean's list and honor roll. Summer research experiences have included work at Yale University School of Medicine investigating the effects of antidepressant drugs on Neurogenesis in the brains of adult mammals. Kavan is currently working on the effects of phytoestrogens on the brains of female rats and mice at Emory University's Center for Behavioral Neuroscience. After graduation, he intends to pursue a M.D./Ph.D. degree specializing in neurosurgery and neuroscience research.

## **Ahmad R. Garrett-Price**

## **First Year ARCS Scholar**



### **Junior, Biology Major ARCS Membership Scholarship**

Ahmad is on the Dean's List at Morehouse College where he is a member of the National Society of Collegiate Scholars and the National Dean's List. During the summer of 2001, he was selected to attend the Honors Premedical Academy at Baylor College of Medicine, where he successfully completed a course in anatomy and physiology and a preceptorship in Internal Medicine. The following summer he performed research at the University of Texas Southwestern Graduate School, studying the role of anti-oxidant Co-enzyme Q 10 on hypertrophy in HSF-1 deficient mice. When not in the lab, Ahmad enjoys his time as a member of the Morehouse College soccer team, which competes at the NCAA Division II level.

# *Morehouse College*

## **David Mitchell III**

## **First Year ARCS Scholar**

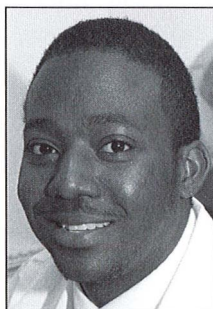


## **Junior, Biology Major ARCS Century Scholarship**

David is a member of the honor roll and Dean's List at Morehouse College, the National Society of Collegiate Scholars and a participant of the MBRS research program. He spent the past two summers at Indiana University Purdue University Indianapolis (IUPUI), researching combined chemotherapeutic and genetic treatments for prostate cancer and the locations of AP-1 sites in PSMA. During his freshman year, he trained with Dr. Duane Johnson in prostate cancer research. His ongoing research at the Morehouse School of Medicine involves gene regulation of heart smooth muscle in hypertensive and normal states. David's post-undergraduate plans are to pursue a M.D./Ph.D. degree with an emphasis on prostate cancer.

## **Omoruyi O. Osula**

## **First Year ARCS Scholar**



## **Junior, Biology Major ARCS Membership Scholarship**

Omoruyi, from Anniston, Alabama, is a member of the National Society of Collegiate Scholars and Treasurer of the Health Careers Society. He has also served as a tutor for Cell Biology. This summer he worked in a cardiology research lab at the Yale University School of Medicine where he quantified changes in regional wall motion in the hearts of rats using echocardiography and a method called center line. His objective was to prove that the center line method was an accurate quantitative method in evaluating the heart regional wall changes. Omoruyi is a member of the MBRS program at the Morehouse School of Medicine where he is researching the properties and causes of Antiphospholipid Syndrome. He plans to enter medical school to become either a cardiologist or an ENT surgeon.



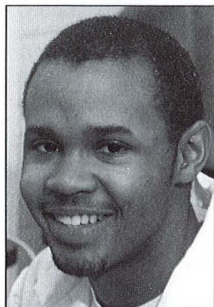
# *Morehouse College*

**Franklin D. West III**

**First Year ARCS Scholar**

**Junior, Biology Major**

**Clare Whitfield ARCS Light Scholarship**



Franklin is pursuing a career as a research scientist in the field of ecology. He is a David and Lucille Packard Scholar and U\*STAR/MARC Scholar, which are programs that support exceptional students working on research careers. As a Packard Scholar, Franklin has interned at both Cornell University and Princeton. His most recent research work was at Princeton, where he studied the effects of wet/dry seasons, drought and hierarchy on glucocorticoid levels in yellow baboons. He is currently working on host competition between two predatory species of wasp. Franklin is serving as the vice president of the Samuel M. Nabritt Research Careers Society and has been a teaching assistant and tutor for the general Biology Labs at Morehouse. He is a member of many academic honor societies including the Golden Key and the National Society of Collegiate Scholars. In his free time, Franklin enjoys equestrian sports, aquatic husbandry and travel.



# *The University of Georgia*

## **Pamela J. Bonner**

## **First Year ARCS Scholar**



### **Ph.D. Candidate, Microbiology ARCS Membership Scholarship**

Pamela received a B.S. degree in Molecular and Cell Biology from the University of Connecticut in 2000. She was awarded a Presidential Fellowship from The University of Georgia to pursue a doctoral degree in Microbiology. Under the direction of Dr. Lawrence Shimkets, Pamela is using *Myxococcus xanthus* as a model system to understand how zinc metalloproteases modify cell behavior in response to the extracellular environment. The goal of her work is to provide insights into the role of similar proteins in the extracellular matrix of eukaryotes and pathogenic bacteria. Pamela recently presented her work at the International Meeting on the Biology of Myxobacteria and an ASM conference on Prokaryotic Development.

## **Scott A. Callison**

## **Third Year ARCS Scholar**



### **Ph.D. Candidate, Medical Microbiology Hicks Family ARCS Scholarship**

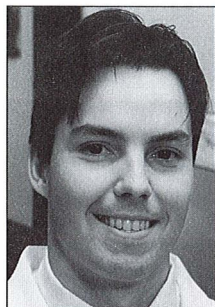
Scott received his B.S. degree in Chemistry from Appalachian State University in 1995, followed by his M.S. degree in Medical Microbiology from The University of Georgia in 1998. He is currently working under the direction of Dr. Mark Jackwood. Scott's main research interest is studying viruses at the molecular level. He is focused on the molecular aspects of Infectious Bronchitis Virus, a Coronavirus. The hope is to create molecular tools to study, diagnose, and control this virus infection in poultry. Ultimately, this work will be extended to Coronaviruses that infect other species, including humans. Scott's career goals are to complete a postdoctoral fellowship involving homeland defense and then obtain a faculty position at a university with a focus on research and teaching.

# *The University of Georgia*

## **Jarrat L. Jordan**

## **Second Year ARCS Scholar**

### **Ph.D. Candidate, Microbiology Gilham/Stokes ARCS Scholarship**

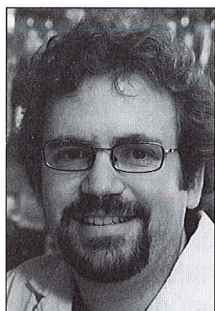


Jarrat received a B.S. degree in Biology from Valdosta State University. His scientific research at UGA has focused on primary atypical pneumonia (PAP), commonly called walking pneumonia. The bacterium *Mycoplasma pneumoniae* is the most common etiologic agent of PAP and is also known to cause a spectrum of clinical symptoms. One aspect of Jarrat's dissertation project is to address the role of motility in the ability to cause colonization and ultimately respiratory disease due to *M. pneumoniae*. Upon completion of his Ph.D., he plans to attend medical school. By combining a doctoral education in microbiology with a medical education, Jarrat intends to focus his work on the disease process at the genetic level and the infection process from the viewpoints of both the pathogen and the host.

## **Martin L. Moore**

## **Second Year ARCS Scholar**

### **Ph.D. Candidate, Genetics Moseley/Napier ARCS Scholarship**



Marty earned a Bachelor of Science degree from The University of Georgia in 1995. He worked for three years in a diagnostic laboratory before starting on the path of graduate study, returning to UGA. As a Ph.D. candidate in the Department of Genetics, Marty's current research projects involve investigating the molecular basis of viral pathogenesis. He has been recognized for his efforts in being awarded the UGA Outstanding Graduate Teaching Award in 2000, and receiving National Institutes of Health Pre-Doctoral Traineeship support for two consecutive years. Following his Ph.D. degree, Marty wants to obtain a postdoctoral fellowship and continue his work as an academic scientist focusing on cancer and vaccine development.

# *The University of Georgia*

## **Lowell Y.M. Rayburn**

## **First Year ARCS Scholar**

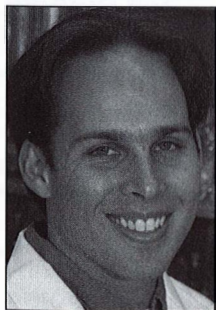


## **Ph.D. Candidate, Genetics ARCS Membership Scholarship**

Lowell, from Charlotte, North Carolina, received a B.S. degree in Biology from Davidson College in 1999. She graduated with high honors, magna cum laude. Under the direction of Michael Bender, she is investigating the role of a prohormone processing protease *amontillado* in *Drosophila melanogaster*. The mammalian homolog of this protease has been linked to various biomedical disorders including diabetes and obesity and may have a role in cancer etiology. Lowell intends to focus her career on increasing the public's knowledge and understanding of fundamental biomedical issues. She is particularly interested in the ethical, legal and social implications of genetic research. In her spare time, Lowell enjoys reading, spending time with her family and enjoying outdoor activities.

## **Andrew B. Reams**

## **First Year ARCS Scholar**



## **Ph.D. Candidate, Microbiology Gilham/Stokes ARCS Scholarship**

Drew, a native of Mission Viejo, California, earned his B.S. degree from California State University, Chico in 1995. He worked for the next two years in a laboratory for Teco Diagnostics in Anaheim before starting his graduate studies at UGA. During his Ph.D. research under the supervision of Dr. Ellen Neidle, he discovered gene amplification in *Acinetobacter*. Drew's current research focuses on elucidating the mechanism behind this important phenomenon. After graduation, he would like to manage research for a biotech company as well as expand his research to pursue the role of gene amplification in oncogenesis and cancer progression. Drew's hobbies include surfing, snowboarding, mountain-climbing, bird watching and gardening.



# *The University of Georgia*

## **Julie Dangremond Stanton**

## **Second Year ARCS Scholar**

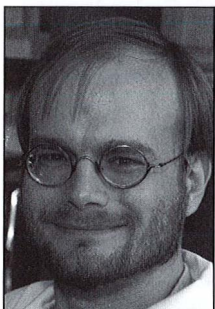


### **Ph.D. Candidate, Cellular Biology Georgia-Pacific ARCS Scholarship**

Julie believes the key to her pursuit of a career in science was the encouragement she received as an undergraduate biology major at Truman State University, in Kirksville, Missouri. Her enthusiasm for science led to her current studies at The University of Georgia where she is focusing on the protozoan parasite *Leishmania*. The goal of Julie's research is to learn more about the basic biology of this parasite and specifically, how the organism regulates protein synthesis. Her work was highlighted at the World Congress on *Leishmania* in Crete, Greece. Julie was recently awarded a Graduate School Dissertation Completion Research Assistantship, and she was one of five recipients of the UGA Excellence in Teaching Award in 2002. She enjoys hiking, backpacking and volunteering for programs that promote science in the community.

## **Robert H. Waldo III**

## **Second Year ARCS Scholar**



### **Ph.D. Candidate, Microbiology Burtchaell Foundation ARCS Scholarship**

Rob entered the Ph.D. program at UGA after graduating from Virginia Tech in 1997 with a degree in Biology. His work involves deciphering a small part of how the bacterium *Mycoplasma pneumoniae* infects the respiratory tract of humans by studying the elaborate maturation process of P1, the protein responsible for the attachment of the bacteria to the lung tissue. He hopes to continue his research in bacterial pathogenesis while stepping into the burgeoning field of functional genomics. Rob enjoys teaching and research, and received awards for both. He also volunteers with the Georgia chapter of Recording for the Blind and Dyslexic, reading textbooks onto audio tape for disabled students.

# *ARCS Atlanta Chapter Membership*

## *2002 - 2003*

Mary Adams  
Madeline R. Adams  
Helen M. Aderhold  
Jane W. Alexander  
Angela Z. Allen  
Kathy B. Ashe  
Carollee D. Balloun  
Lisa H. Bankoff  
Elizabeth H. Barnett  
Jan K. Bennett  
Kathleen Berry  
Jeanne L. Berry  
Paula Lawton Bevington  
Anne M. Boyd  
Berney M. Bridges  
Regina S. Bridges  
Alice C. Brown  
Jean S. Brumley  
JoAn E. Chace  
Eileen H. Christman  
Kathleen Clement  
Gracia M. Conn  
Margaret P. Cooley  
Lynn M. Cornett  
Ada Lee Correll  
Sandra K. Cotterman  
Haidee B. Courson  
Ann D. Cousins  
Mary Helen Dalton  
Susie Deyo  
Constance V. Dimling  
Martha T. Dinos  
Cheryl E. Dixon  
Marcia G. Donnell  
Patsy Drummond  
Theresa O. Dubsky  
Norma T. Edenfield  
Carla D. Fackler  
Betty C. Feezor  
Jeanne R. Ferst  
Sharon F. Flores  
Caroline M. Gilham  
Martha B. Gillin  
Sally B. Gladden

Joan S. Goodhew  
Elsie L. Gould  
Frances B. Graves  
Kathryn Graves  
Nancy H. Green  
Margaret H. Greene  
Louise Staton Gunn  
Elizabeth Hamilton  
Betsy G. Hansen  
Mary Talmadge Hardman  
Katherine R. Harman  
Lillo W. Harris  
Aileen P. Hatcher  
Kitty P. Hawks  
Susan J. Higley  
Ann P. Hill  
Sally N. Hinkle  
Jane L. Huffard  
Trudy Huger  
Mary Ellen Imlay  
Helen Jancik  
Sally C. Jobe  
Trina D. Johns  
Cecile M. Jones  
Ingrid Saunders Jones  
Carol C. Kelley  
Anita K. Kern  
Elizabeth S. Kirchner  
Belle W. Kirkpatrick  
Ann Estes Klamon  
Margaret Kresge  
Shirley R. Kuse  
Amy C. Lance  
Lynne C. Land  
Marsha L. Large  
Patricia S. Leake  
Liz Levine  
Deborah Liss  
Gay Love  
Catherine "K" Maier  
Shirley A. Massey  
Linda T. Mauldin  
Margaret C. McKenna

Leslie D. McLeod  
Joanie T. Michaels  
Harriet H. Miller  
Catherine Millichap  
Susan J. Missbach  
Sue L. Mobley  
Betty N. Mori  
Brenda B. Moseley  
Mary Louise Napier  
Michelle Nordin  
Colleen Nunn  
Mary B. O'Connor  
JoAnne M. Padgett  
Martha W. Peake  
Elizabeth Pickett  
Virginia P. Plummer  
Mary M. Poe  
Nancy Sineath Rank  
Alice H. Richards  
Deborah C. Robbins  
Phyllis E. Rodbell  
Jean Thomas Russ  
Lynn C. Schroder  
Elizabeth Morgan Spiegel  
Beverly L. Stacy  
Sue G. Staton  
Nita Stokes  
Lee G. Suddath  
Mary Rose Taylor  
Carol Teem  
Babette J. Tipping  
Elizabeth Troy  
Kathryn H. Tufts  
Sandra S. Turbidity  
Margaret S. Wasson  
Brooke T. Weinmann  
Kay C. Weiss  
Kristin D. Whatley  
Clare G. Whitfield  
Susan W. Wieland  
Barbara S. Williams  
Jane J. Wilson  
Marguerite York  
Camille W. Yow



# *ARCS Foundation, Inc., Atlanta Chapter*

## *2002 - 2003 Board of Directors*

### *Officers*

President	Janie Wilson
Past President/Strategic Plan	Sally Hinkle
Vice President, Education	Teed Poe
Vice President, Membership	Jeanne Berry
Vice President, University Relations	Jane Alexander
Recording Secretary	Kay Weiss
Corresponding Secretary	Lisa Bankoff
Treasurer	Kristin Whatley
Assistant Treasurer	Liz Troy
Parliamentarian	Aileen Hatcher

### *Committee Chairmen & Co-Chairmen*

Administration (Assistant to President)	Margaret Kresge
Advisory Committee	Past Presidents
Database/Directory	Susie Deyo
Directory Editor	Phyllis Rodbell
Funds Development Co-Chairs	Jan Bennett
	Anne Boyd
Historian/Photographer	Gracia Conn
Newsletter Co-Chairs	Betty Feezor
	Brenda Moseley
	Martha Peake
Public Relations Chairman	Elizabeth Spiegel
Public Relations Vice-Chairman	Clare Whitfield
2004 Retreat Co-Chairs	Elsie Gould
	Anita Kern
Scholars Luncheon Chairman	Eileen Christman
Scholars Luncheon Vice-Chairman	Sharon Flores
Special Events Chairman	Cathey Millichap
Special Events Vice-Chairman	Belle Kirkpatrick
University Relations, Alumni Scholars Chairman	Terry Dubsky
University Relations, ARCS Scholars Chairman	Debby Robbins
University Relations, ARCS Scholars Vice-Chairman	Kathryn Graves
Web Administrator	Betty Feezor

# *AR&S 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

# *Scholars Awards Luncheon*

## *Committee*

Eileen Christman, Chairman  
Sharon Flores, Vice-Chairman

Janie Wilson, Chapter President

Decorations	Susan Higley, Chair Connie Dimling Caroline Gilham Kitty Hawks	Belle Kirkpatrick Cathey Millichap
Greeters	Reg Bridges, Chair Angela Allen Kathleen Berry Berney Bridges Patsy Drummond Jane Huffard Catherine Maier	Leslie McLeod Joanie Michaels Betty Mori Teed Poe Phyllis Rodbell
Mailing	Anita Kern, Chair	
Medallion Presentation	Marsha Large, Chair	
Nametags & Registration	Gracia Conn, Chair Peg Cooley Lynn Cornett Martha Dinos	Linda Mauldin Sue Mobley Carol Teem
Photography	Kathryn Graves, Chair	
Program	Sharon Flores, Chair	
Public Relations	Elizabeth Spiegel, Chair Clare Whitfield, Vice-Chair	
Reservations & Seating	Pat Leake, Chair	
Scholar Relations	Debby Robbins, Chair	
University Relations	Jane Alexander, Chair	

## *In Appreciation*

The Board of Directors of the Atlanta Chapter of *Achievement Awards for College Scientists* extends special appreciation to the following individuals whose time and talents contributed to the success of the 11th annual celebration.

**Federal Home Loan Bank of Atlanta**  
**Print Services Department**  
Invitation and Program

**Jim Fitts Photography**

**Mary Jo Means, Decorations**

### **Department Heads, Advisors and Faculty**

Emory University  
Morehouse College  
Georgia Institute of Technology  
The University of Georgia

and

Becky Ayer, Eric Dahl and Joelle Prine  
The University of Georgia

Linda Nelson – Morehouse College

Raymond Reynolds – Georgia Institute of Technology

Kim Smith – Emory University