

ARCS

SCHOLARS AWARDS LUNCHEON

ACHIEVEMENT REWARDS FOR COLLEGE SCIENTISTS
ATLANTA CHAPTER



Presenting Sponsor
The Coca-Cola Company

November 16, 2000

***SALUTING BRIGHT MINDS
THE LIGHTS OF OUR FUTURE!***

ARCS' History

ARCS was founded in 1958 at a time when the technological superiority of the United States was being questioned. ARCS' goal was to establish a higher mark in scientific excellence for U.S. students through scholarships. Nationally we support scholars at 40 major colleges and universities, primarily in pre-approved graduate departments. Our cumulative total since 1958 is over \$33 million dollars.

ARCS' Scholar Selection

ARCS Scholars are selected by college administrators and department chairs. The criteria require academic excellence, leadership, full-time enrollment in an approved department, and U.S. citizenship. Students are offered an ongoing ARCS scholarship until their degree is completed, provided academic standards are maintained.

Atlanta's History

The Atlanta Chapter of ARCS was founded in 1992. We are unique in several categories. Among the twelve chapters of ARCS in our nation, Atlanta is the only one to provide scholarships at an African-American college. Presently our scholarships are awarded in approved departments at Emory University, Georgia Institute of Technology and Morehouse College, and this year we are pleased to add the University of Georgia to our recipient list.

Atlanta's Program

Unique field trips and travel opportunities with an emphasis on science and technology are offered to our members. In addition, visits with our students provide a unique view of the departments we are funding.

Did You Know?

One hundred percent of donations to our scholarship fund go directly to our ARCS scholars.

Since its beginning, ARCS Atlanta has awarded \$556,000, including \$150,000 for 2000—2001.

Applause From Our Supporters

"ARCS' efforts to sustain and encourage young engineers and scientists will serve our nation well."

General Colin L. Powell, U.S. Army, Retired

"I would like to thank you and the ARCS Foundation for taking an interest in my education. The financial support was greatly needed and appreciated. Many students are forced to work to pay for tuition, food, housing, books, etc. Because of the ARCS Foundation, I had time to focus on classes, and I was able to spend those long hours in the research laboratory. I slept easier knowing that I did not owe the college money."

Timothy Harris, ARCS Scholar, Morehouse College, 1998-2000

"It was my good fortune to arrive at Georgia Tech at a time shortly after the Achievement Rewards for College Scientists (ARCS) program was introduced in Atlanta. This financial support has enabled Georgia Tech to help attract and retain some of the best of America's young scientists and engineers. We are very grateful to ARCS for their assistance."

Dr. Wayne Clough, President, Georgia Institute of Technology

"Emory is exceedingly proud and honored to see some of its finest students be supported by the generosity of ARCS. The Achievement Rewards for College Scientists scholarships are among the best tributes our students are given each year. And we take additional pride in knowing that Emory this year will receive eight such awards. As the president of Emory, I extend my gratitude to ARCS and commend the hard work and discerning intelligence that made the awards possible. Our students are grateful and I am proud."

William M. Chace, President, Emory University

"It has been heartwarming for me to see the growth of ARCS since its beginning in 1992. I am especially proud when I see the success of our past scholars. Our very first scholar, Deborah Beattie, completed her doctoral research at Georgia Tech where she succeeded in determining some of the world's first experimentally-based mechanical properties of diseased human arteries. Deborah works for Guidant Corporation now, researching minimally invasive strategies to treat atherosclerosis."

Mary B. O'Connor, founding President, ARCS, Atlanta.



Achievement Rewards For College Scientists

Atlanta Chapter

FROM THE PRESIDENT

What an honor it is for me to welcome you to the annual Scholars Awards Luncheon of the Atlanta Chapter of Achievement Rewards for College Scientists. This is an exciting day for us as we pay tribute to outstanding men and women who are working to make our world a better place. A special debt of appreciation is due to Ginny Plummer and Linda Mauldin, co-chairs of this year's event. They have worked for months to make this a memorable day for all.

In 1992 we awarded three \$5,000 scholarships to one student each from Emory, Georgia Tech, and Morehouse. Today, nine years later, we will award thirty \$5,000 scholarships for a total of \$150,000 and, it is with real pleasure, that we add the University of Georgia as a recipient school.

I would like to publicly thank all those people who made this tremendous increase in financial awards possible:

1. Our ARCS members who provide scholarships through dues payments and surplus operating funds.
2. Our Corporate and Foundation donors who make a three year pledge to showcase their commitment to higher education.
3. Our new Century Scholarship Program - the brain child of Caroline Gilham - which added an additional \$22,000 to our coffers this year.
4. And lastly, donations and honorariums from members and friends.

The Atlanta Chapter of ARCS is alive, vibrant, and a role model for the nation. We are proud of our success and it is with a real sense of joy that we gather together to honor these young men and women. Please join me in saluting these bright minds who truly are the lights of our future!

Sally Hinkle
President, Atlanta Chapter
Achievement Rewards for College Scientists

DISTINGUISHED GUESTS

Dr. Bryan D. Noe, Emory University
Associate Dean for Graduate Studies in Bioscience
Director, Graduate Division for Biological and Biomedical
Studies

Dr. Charles Liotta, Georgia Institute of Technology
Vice Provost for Research and Dean of Graduate Studies
Regents Professor for Chemistry and Chemical Engineering

Dr. J. K. Haynes, Morehouse College
Professor of Biology
Dean of the Division of Science and Mathematics

Dr. Karen A. Holbrook, University of Georgia
Senior Vice President for Academic Affairs and Provost

THANKS TO OUR SCHOLARSHIP DONORS

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***Century Scholarship Donors**

Regina and Terry Bridges, Susie and Bill Deyo, Betty Feezor,
Joan and Bill Goodhew, Aileen and Mil Hatcher, Sally and Jim
Hinkle, Deborah and William Liss.

PROGRAM

WELCOME

Sally Hinkle, President, ARCS Atlanta

GUEST RECOGNITION

ARCS SCHOLAR PRESENTATION

Jocelyn Dorsey

Editorial/Public Affairs Director, WSB-TV 2

SCHOLAR RESPONSE

Eva Regnier

Georgia Institute of Technology

UNIVERSITY RESPONSE

Dr. Karen Holbrook

Senior Vice President for Academic Affairs and
Provost

The University of Georgia

LUNCH

INTRODUCTION OF SPEAKER

Jocelyn Dorsey

Walt L. Smith, SPEAKER

Chief Architect, iXL Enterprises, Inc.

CONCLUDING REMARKS

Sally Hinkle



Mistress of Ceremonies Jocelyn Dorsey

Editorial/Public Affairs Director, WSB-TV 2

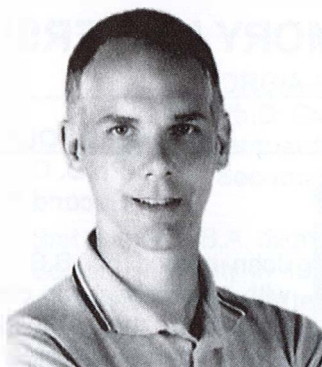
Jocelyn Dorsey has been with WSB-TV for more than 25 years. She has been Director of Editorials & Public Affairs at Channel 2 since 1983. From 1973-83, Jocelyn served as an anchor/reporter/producer and assignment editor for WSB-TV's **Channel 2 Action News**.

Her current responsibilities include research, writing, and production of editorial broadcasts by Vice President & General Manager Gregory J. Stone. She also is Executive Producer/Host for *People 2 People*, a weekly public affairs program on Sunday Mornings on Channel 2.

Jocelyn supervises the selection, creation, and marketing efforts for all special events and community outreach programs for WSB-TV. She has won numerous awards, including seven **South-east Regional EMMYS for Editorial Excellence** from the National Academy of Television Arts & Sciences. She is the first African-American inducted into the **NATAS Silver Circle** for over 25 years in the field of journalism and the first woman and African-American to receive the Georgia Association of Broadcasters' **Citizen of the Year Award**.

Other awards include: **Region IV-Hall of Fame**, **National Media Woman of the Year**, **United Cerebral Palsy Woman of the Year Award**, **YWCA Academy of Women Achievers**. Next May Jocelyn will receive the **Pioneer Black Journalist**, the highest award bestowed by the Atlanta Association of Black Journalists.

Jocelyn is a mother of two sons and is a new grandmother.



Keynote Speaker

Walt L. Smith

Chief Architect, iXL Enterprises

Walt L. Smith, Chief Architect for iXL, is responsible for ensuring the quality and robustness of all technical aspects of client delivery at iXL. Mr. Smith provides strategies, standards, training programs, events coordination and reward programs that enable iXL's estimated 600 engineers to perform successfully. He also is involved with business development and serves as senior technical interface for clients, vendor partners, and investors.

Mr. Smith's background includes serving as Vice President of Research and Development for iXL. In that position he managed a staff of engineers who researched new technologies and processes. He is credited with designing the Client Solutions Center, a showcase for iXL solutions.

Before joining iXL, Mr. Smith was founder and CTO of Tekna, an n-tier Internet application development company in Richmond, VA.

Mr. Smith is author of numerous technological articles and white papers. He is a frequent speaker at colleges, including Georgia Institute of Technology and Carnegie Mellon University, and computer industry conferences, such as National Institute for Systems Security.

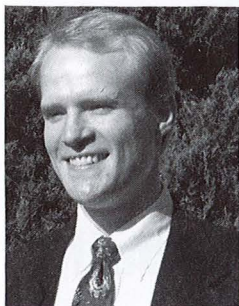
Mr. Smith is an honor graduate of the U.S. Navy Advanced Aviation Electronics program and served honorably for 6 years in the service, receiving the Navy Achievement Medal for leadership. He also received a Certified Data Processing certificate from ECPI Computer Institute.

EMORY UNIVERSITY

John B. Asbury

DONNELL FOUNDATION SCHOLAR

**Ph.D. Candidate, Chemistry
Second Year ARCS Scholar**



John earned his B.S. degree in chemistry, with an emphasis on physics and mathematics, from the University of Tennessee. John's interest and extensive experience is in LASER spectroscopy. He looks at signature signals of molecules expressed in the infrared spectrum to learn what molecules are formed and when. The information obtained

from this type of study can be used to better design and control light-induced reactions for both understanding of the chemical reactions themselves and for their practical use. Information from this type of study can be applied to reactions involved in converting solar energy to electrical energy, a technique called Femtosecond Infrared Spectroscopy. John enjoys mountain biking, running, hiking, weight lifting, and ultimate Frisbee. After graduation John plans a career in teaching and research in a major research university.

Sarah J. Chevalier

KUSE FOUNDATION SCHOLAR

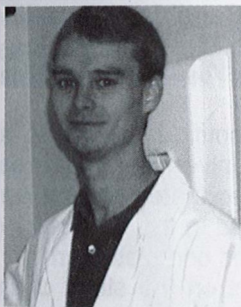
**Ph.D. Candidate, Neuroscience
Second Year ARCS Scholar**



Sarah graduated magna cum laude with a B.S.E. in Biomedical Engineering. 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. Now a fifth year student in Neuroscience at Emory, she has twice been awarded a National Institutes of Health grant. She has

represented students on the Neuroscience Program Executive Committee and on the Division Student Advisory Council. Her research involves investigating the way visual and tactile areas of the brain interact in sighted and blind humans. She is a newlywed, married in March, 2000, and enjoys racquetball and singing in her spare time, recently appearing in a production of *Oklahoma* at the Peachtree Baptist Church. She plans a career in research and teaching.

Bret B. Friday



**GEORGIA-PACIFIC SCHOLAR
Md./Ph.D. Candidate, Molecular
Therapeutics and Toxicology
Second Year ARCS Scholar**

Bret earned a B.A. degree in Biology from Boston University in 1993. After college, he worked as a research technician at the University of Pennsylvania until he entered the M.D./Ph.D. program at Emory University in 1995. His research focuses on the molecular signals that regulate the repair of skeletal muscle after injury. His goal and reason for pursuing the M.D./Ph.D. degree is that in his career he will be able both to practice clinical medicine and to do biomedical research. Bret and his wife are the proud parents of their first son, Connor.

John D. Ginn

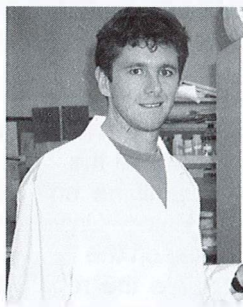


**Ph.D. Candidate, Chemistry
First Year ARCS Scholar**

John received his Bachelor of Science degree from Mercer University. He completed a Master's Degree at Emory University in 1996, studying titanium catalyzed carbocyclization reactions under Professor William Crowe. He then spent two years teaching in public schools and working as a research chemist in the Department of Energy's Savannah River Site. In 1998 he returned to Emory to pursue a Ph.D., working in the laboratory of Professor Albert Padwa, focusing on exploring the Intramolecular cycloaddition chemistry of amido-furans. Outside of chemistry, John enjoys both big game hunting and deep-sea fishing. He and his wife have been married for five years and have a one year-old son, William.

Douglas A. Hinerfeld

**Ph.D. Candidate, Genetics
and Molecular Biology
First Year ARCS Scholar**



Douglas began his scientific interests as an undergraduate at the University of Colorado in Boulder, where he graduated magna cum laude. There he worked in the laboratory of Dr. Thomas Johnson and completed an honors research project on the study of the genetics of aging in nematodes. Douglas began his Emory experience by working in the laboratory of Dr. Douglas Wallace. He began graduate school at Emory in 1996, studying the regulation of conjugative transposition, a process by which antibiotic resistance is transferred from one bacterium to another. At this time he plans a career in basic research. He is married and has a one year-old daughter.

Barbara K. Kramer

**Ph.D. Candidate, Chemistry
First Year ARCS Scholar**



Barbara graduated from Oberlin College with a B.A. in Biochemistry in 1995. Her research interests lie in the application of analytical methods to issues of environmental importance. Her focus at Emory has been the analysis of organic contaminants in soil. She has developed analytical techniques to model the bioaccessibility of organic contaminants from soil systems and has used these and other methods to monitor the behavior of organophosphorus and organochlorine pesticides in soil over time. She was awarded a Graduate Assistantship in Areas of National Need (GAANN) Fellowship for her first two years at Emory, and she is currently a Dean's Teaching Fellow at Oxford College of Emory University.

Heather B. Patisaul



**Ph.D. Candidate, Chemistry
Second Year ARCS Scholar**

Heather graduated with honors from the University of Florida with a B.S. Degree in Zoology. At Emory her dissertation research explores the effect of phytoestrogens, estrogenic compounds produced by plants, on the brain. These compounds are of interest because they are prevalent in soy-based foods and have been championed by the F.D.A. to

be helpful in the prevention of heart disease, a variety of cancers, and menopausal symptoms. However, little is known about their impact on the brain and on behavior. She is now studying the impact of these compounds on gene expression in the brains of unborn humans whose mothers consume diets high in phytoestrogens. Her career goal is an academic position combining research and teaching. She is also working to maintain a balance between academia and family, as she is married and has a one year-old son.

Sharon T. Sullivan



NORTEL NETWORKS SCHOLAR

**Ph.D. Candidate, Chemistry
Second Year ARCS Scholar**

Sharon earned a B. A. in Chemistry from the College of the Holy Cross in 1996. Her graduate work at Emory has centered on investigating and characterizing the interactions between platinum anticancer drugs and DNA. In her work she uses techniques such as nuclear magnetic resonance spectroscopy (NMR), circular dichroism spectroscopy, and

molecular modeling. Understanding the conformational consequences imposed upon the DNA structure after binding of proven anticancer platinum agents, such as cisplatin versus those caused by inactive platinum complexes, may ultimately help reveal important features necessary for an active drug. Knowledge of such features can then help in the design of more effective chemotherapeutic agents. Sharon plans to pursue a career in a health policy related field.

MOREHOUSE COLLEGE

Justin R. Connor

ZEIST FOUNDATION SCHOLAR

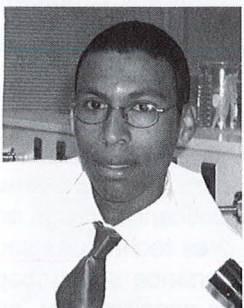


Senior, Biology Major

Second Year ARCS Scholar

Justin Connor is a senior biology major from Sunrise, FL. He has carried out research in various academic and industrial research settings while a student at Morehouse. He currently works as a laboratory technician at D2 Biotechnologies, Inc. His other interests include computer utilization, portfolio tracking, and physical fitness. He is also an avid participant in his local church congregation and credits his religious convictions for his personal accomplishments. He is interested in understanding both the practice and business involved in modern medicine and ultimately, wants to obtain the M.D. and possibly the M.B.A. He would like to establish a practice in an underserved community and play an active role in the modern health care system.

Cedric K. Dark



Senior, Biology Major

First Year ARCS Scholar

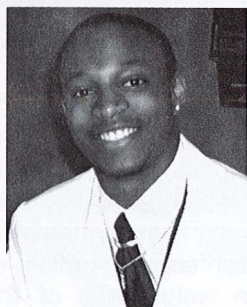
Cedric Dark is a senior biology major from Beltsville, MD. His science background includes participation in research programs at Hampton University, the United States Department of Agriculture, and Brandeis University. In addition to lab work, he has had clinical experience working as a veterinarian's assistant. He is a member of Beta

Kappa Chi, Alpha Epsilon Delta, Who's Who in American Colleges and Universities, and Phi Beta Kappa. In addition, Cedric carves out time to be a Teaching Assistant in freshman biology and as Photography Editor for the campus newspaper. One of his most cherished achievements was a study abroad that took him to ten foreign countries. He plans to attend medical school and pursue a career in surgical oncology.

Robert J. Drummond

BELLSOUTH SCHOLAR

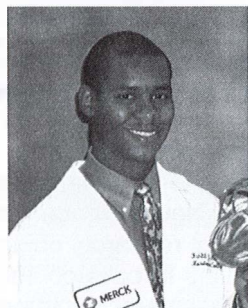
**Junior, Biology Major
First Year ARCS Scholar**



Robert is a junior biology major from Jacksonville, FL. Although he was a highly recruited state champion wrestler in high school, he chose to begin pursuit of a science career at Morehouse College. He did research at Yale School of Medicine in the 2000 Biological Science Training and Enrichment Program (BioSTEP). Robert is now in the U*STAR/MARC scholarship program, which supports exceptional students interested in research careers. He is a member of the National Society of Collegiate Scholars. He participates as a teaching assistant in the General Biology Lab course and has served as a tutor for the Cell Biology lecture class at Morehouse. Robert will begin research in the Department of Neuroscience at Morehouse Medical School in the fall of 2000 and plans to seek an M.D./Ph.D. and pursue a career in academic medicine.

Kahlil J. Martin

**Senior, Biology Major
First Year ARCS Scholar**



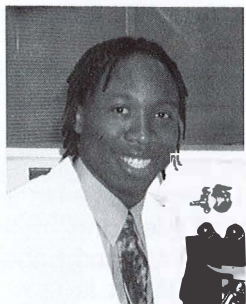
Kahlil is a senior biology major from East Norriton, PA. He attributes both his academic and professional success to his faith and his desire to learn and make meaningful contributions. He first became interested in research at the Morehouse School of Medicine Neuroscience Institute. He did internships both in Sales and Marketing and in Research at Proctor and Gamble. He also did research at the University of Pennsylvania School of Medicine. In 1999 he was named a MARC/U*STAR scholar, recognized as an exceptional student interested in research. In 2000 he was awarded the Merck/UNCF Undergraduate Research Fellowship, to be an intern in Animal Pharmacology at Merck Research Labs in Rahway, NJ. He plans to seek an M.D./Ph.D. degree in Neuroscience or Pharmacology. For balance, he enjoys traveling and experiencing new cultures.

Manu O. Platt

ARCS CENTURY SCHOLAR

Senior, Biology Major

First Year ARCS Scholar

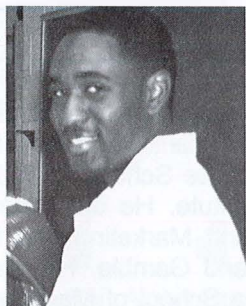


Manu Platt is a senior biology major from Dover, Delaware. As a Ronald E. McNair NASA Scholar at Morehouse, he has participated in astrobiology research at NASA sites across the country. Two of his many research interests are iodine disinfection studies of bacteria in the potable water lines of the space shuttle, and temperature shock responses of specific bacteria to determine possible viability on Mars. Manu is in the Morehouse Honors Program, Golden Key National Honor Society, and Phi Beta Kappa. He shares his time working with middle school students in ICEMS, an engineering, science, and math enrichment program. Biology must share his heart with the theater, however, which is another of his true joys. He has acted in plays at Morehouse, Spelman and did Shakespeare at King's College, London. Ultimately, he plans to be an astronaut and perform microgravity research on the International Space Station.

Patrick Dean Smith

Junior, Biology Major

First Year ARCS Scholar



Patrick Smith is a junior biology major from Baton Rouge, Louisiana. He is a participant in the Morehouse College Neuroscience Program. There he has done research on the activity of chloride channels in cells containing the CFTR gene, which is defective in persons with cystic fibrosis. He is currently working on a project observing behavior of predatory *Euglandina* snails, the purpose of which is to better understand the behavior of their olfactory neurons. He has an interest in biostatistical research. He is a member of the Morehouse College Health Careers Society, the Pre-dental Society, and the Minority Association of Pre-health Students. In his spare time he enjoys mentoring, playing intramural sports and working as a part-time barber. He plans to earn a DMD and to practice and teach orthodontics.

UNIVERSITY OF GEORGIA

Jason M. Goldstein

SIEMENS SCHOLAR

**Ph.D. Candidate, Biochemistry
and Molecular Biology
First Year ARCS Scholar**



Jason Goldstein, an Atlanta native, graduated Cum Laude in 1996 with a B.S. in Biochemistry and Molecular Biology from the University of Georgia. In his sophomore year, he was awarded the Howard Hughes Undergraduate Fellowship. He began research in the laboratory of Dr. James Travis, studying the molecular-genetic properties of proteases and their inhibitors. As a doctoral student at UGA in the Department of Biochemistry and Molecular Biology, Jason works on purification and characterization of novel peptidases from *Streptococcus gordonii*, with a goal of assessing implications in endocarditis, an inflammatory heart disease. He has been a guest lecturer worldwide at several prestigious meetings of Biochemists, Microbiologists and Molecular Biologists, as well as locally at the Georgia Research Alliance. His career plans are development of pharmaceuticals and diagnostic tools for disease states.

Bolyn Hubby

ARCS CENTURY SCHOLAR

**Ph.D. Candidate, Cellular Biology
First Year ARCS Scholar**



Bolyn Hubby, from Winterville, GA, received a B.A. in Anthropology from UGA in 1994. She then spent two years working as a lab technician before beginning graduate work in the Department of Cellular Biology. Her research interests have included vaccine development for *Trypanosoma cruzi*, and she conducted her work in Argentina, an endemic area for *T. cruzi* and Chagas' disease. She received a Burroughs Wellcome Fund Scholarship to attend the Biology of Parasitism: Modern Approaches course at the Marine Biological Laboratory in Woods Hole, MA. She plans a career in biomedical research.

Amy E. Medlock

**GILHAM/STOKES SCHOLAR
Ph.D. Candidate, Biochemistry
and Molecular Biology
First Year ARCS Scholar**



Amy Medlock, a Lithonia, GA native, earned a V.S. degree in Chemistry from Erskine College in 1994. She began her graduate studies at UGA in the Department of Biochemistry and Molecular Biology the same year. She was awarded a traineeship in the Center for Metalloenzyme studies. Her primary research interests involve the heme biosynthetic pathway and include understanding the function of the [2Fe-2S] cluster of the enzyme ferrochelatase as well as creating an animal model of the human genetic disease Variegate Porphyria. She is an officer in the Biochemistry Graduate Student Association and has outside interests which include playing and coaching soccer. She plans a career in academia with an emphasis on teaching.

Alison V. Nairn

**Ph.D. Candidate, Biochemistry
and Molecular Biology
First Year ARCS Scholar**



Allison Vandersall Nairn is a native of Minneapolis, MN, the oldest of five children. She earned both Bachelor's and Masters' degrees in Microbiology at the University of Central Florida in Orlando. During her time in Florida she also worked as a technician at the USDA Citrus Research Laboratory. In 1994, Alison began her doctorate in Biochemistry and Molecular Biology at UGA. Her scientific interests include organellular targeting mechanisms in Trypanosomes, glycobiology, and teaching. She lives with her husband, daughter, and Cardigan Welsh Corgi, named Gidget. She loves showing dogs, growing roses, and gardening. She plans a rewarding career in research and teaching.

Robert H. Waldo,

**Ph.D. Candidate, Microbiology
First Year ARCS Scholar**



Rob Waldo is a native of Virginia, and earned a B.S. in Biology at Virginia Tech in 1997. While in undergraduate school he participated in a research project studying antimicrobial agents in conjunction with a local biotechnology company. He then began his graduate studies at UGA, working with Professor Duncan Krause on understanding the biology and pathogenesis of the bacterium *Mycoplasma pneumoniae*, which causes "walking pneumonia." In addition to lab work, Rob has enjoyed teaching an introductory microbiology lab and was awarded an Outstanding Graduate Teaching Award from UGA for that work. He is planning a career in academia.

GEORGIA INSTITUTE OF TECHNOLOGY

Rebecca J. Covert

MAULDIN/MILLER SCHOLAR

**Ph.D. Candidate,
Mechanical Engineering
First Year ARCS Scholar**



Rebecca Covert, a native of Cody, WY, earned her B.S. in Mechanical Engineering with a minor in Architecture from M.I.T. 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. in Mechanical Engineering from Georgia Tech in 2000. She is currently pursuing a Ph.D. in Mechanical Engineering at Georgia Tech. Rebecca's research interests are in the area of biomedical devices. She is presently working on the mechanical evaluation of a material that may be used as an articular cartilage replacement. Rebecca teaches wheel-thrown pottery courses at Georgia Tech and enjoys racquetball and playing the piano. She plans a career in the biomedical engineering industry, specifically in the medical device area.

Chad E. Duty



**Ph.D. Candidate,
Mechanical Engineering
First Year ARCS Scholar**

Chad Duty is a native of Lebanon, VA. He graduated summa cum laude with a B.S. in Mechanical Engineering from Virginia Tech in 1997. While at Virginia Tech he served as president of Tau Beta Pi, vice-president of Kappa Theta Epsilon, and was voted Outstanding Volunteer of the Year in 1996. He is currently developing a Laser Chemical Vapor Deposition (LCVD) system for rapid prototyping small-scale ceramic and metallic composite structures. Broader research interests include mechanical design and manufacturing. He plans a career in academia or industry in the area of manufacturing, mechanical design, or rapid prototyping.

Lisa A. Evans



**Ph.D. Candidate,
Industrial Engineering
First Year ARCS Scholar**

Lisa Evans, a native of Houston, TX, graduated with highest honors from Georgia Tech in 1998 with a B.S. in Discrete Mathematics. She stayed at Georgia Tech, beginning her graduate studies in Industrial Engineering under the advisement of Dr. Ellis Johnson. She spent the summers of 1997 and 1998 as an intern at the United Parcel Service corporate office in Atlanta. She has since worked continuously as a graduate research assistant at Georgia Tech and as a graduate teaching assistant in the summer of 2000. Her research interests include integer programming and combinatorial optimization. Her current work involves studying cyclic group polyhedra for use in cutting plane algorithms to solve integer programs. Lisa plans to pursue a career in academia after she graduates.

Dawn C. Foley

HANSEN FOUNDATION SCHOLAR



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

Dawn Foley, a native of Colts Neck, NJ, earned a B.S. in Mechanical Engineering from the Catholic University of America. While there, she and seven classmates designed and built an off-road vehicle. She served as an officer for both the Society of Women Engineers and Habitat for Humanity.

She was also elected to the Tau Beta Pi honor society and received the SWE award for excellence in engineering. During her undergraduate experience she spent one summer as an intern for Celwave RF, working in manufacturing, and another summer at Penn State doing research in heat transfer. At Georgia Tech she has concentrated on research in automation and control. She has done research with Ford developing a controller for a continuously variable transmission. Her career plans are to seek an academic or industry research position in control and automation.

Jill R. Hardin

THE GRAVES FOUNDATION SCHOLAR



**Ph.D. Candidate, Industrial and
Systems Engineering
Third Year ARCS Scholar**

Jill Hardin, a native of Carlisle, KY, did her undergraduate work at the University of Kentucky, graduating summa cum laude with a B.S. in Mathematics in 1996. She is pursuing her Ph.D. in Georgia Tech's program in Algorithms, Combinatorics, and Optimization.

Jill is the recipient of a President's Fellowship and an NSF/GEE Fellowship. She spent the summer of 1997 as an intern in Research and Development at United Airlines World Headquarters. Her research interests lie in combinatorial optimization, specifically in the use of linear programming in development and analysis of approximation algorithms for scheduling and production planning problems. After graduation, Jill plans a career in academia.

Braden K. Hunsaker

**LEAKE/MCKENNA SCHOLAR
Ph.D. Candidate, Industrial and
Systems Engineering
Second Year ARCS Scholar**



Brady Hunsaker, a native of Gainesville, FL, earned his bachelor's degree in mathematics from Harvard University in 1997, graduating magna cum laude. After working for a year at an international school in Stavanger, Norway, he began his graduate studies in Georgia Tech's interdisciplinary program in Algorithms, Combinatorics, and Optimization. He was recently awarded a National Defense Science and Engineering Graduate Fellowship from the U.S. Department of Defense. His primary research interests are in combinatorial optimization, and he is currently working with Professor Craig Tovey on a probabilistic analysis of the effectiveness of cutting planes in integer programming. He is also an avid trombone player, and he enjoys participating in recreational volleyball and soccer. He plans a career as a professor in an operations research, or related, department.

Eva D. Regnier **GEORGIA POWER FOUNDATION SCHOLAR**

**Ph.D. Candidate, Industrial and
Systems Engineering
Third Year ARCS Scholar**



Eva Regnier, a native of Fairfax, VA, earned her B.S. degree in Environmental Engineering from M.I.T. in 1992, and spent the following year studying and working in France. From 1993 to 1996 she worked for two consulting firms, dealing with issues in environmental assessment and remediation. At Georgia Tech her course of study is in Economic Decision Analysis, with applications to decisions having environmental consequences. Her research concentration includes problems involving decisions with irreversible environmental consequences and uncertainty measurement in environmental scoring. She is presently funded by a pre-doctoral fellowship from the Department of Energy, and she has a Georgia Tech President's Fellowship. She was also awarded a National Science Foundations Fellowship. She plans a career in academia or industry.

Jay M. Rosenberger



**Ph.D. Candidate, Industrial and
Systems Engineering
Second Year ARCS Scholar**

Jay Rosenberger, a native of Novato, CA, earned a B.S. degree in Mathematics from Harvey Mudd College in 1996. In 1997 he completed his M.S. degree in Operations Research from the University of California at Berkeley. He spent the summer of 1997 working for NetExchange in San Diego, CA and, in the summer of 1998, he worked in the Industrial Engineering and Operations Research Department at Norfolk Southern in Atlanta. Jay's research includes optimization problems that arise in the airline industry and airline simulation analysis. After graduation, he intends either to pursue a post-doctoral position or to work in industry.

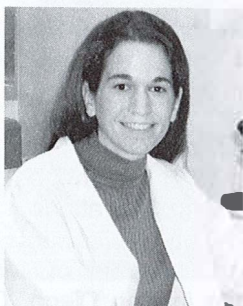
Carolyn Conner Seepersad



**IMLAY FOUNDATION
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Ph.D. Candidate,
Mechanical Engineering
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Carolyn Conner Seepersad, a native of Covington, GA, graduated cum laude with a B.S. in Mechanical Engineering from West Virginia University in 1996. She earned a B.A. from the Honour School of Philosophy, Politics, and Economics, Oxford College, Oxford, England, in 1998, where she was a Rhodes Scholar. She is a National Science Foundation Graduate Fellow and a Presidential Fellow. She is a Ph.D. candidate in Mechanical Engineering with an emphasis on systems design. Her research is in the area of product family design, which is a core of components around which a family of products may be designed and manufactured. Carolyn's dream is to become a university professor because she loves to teach.

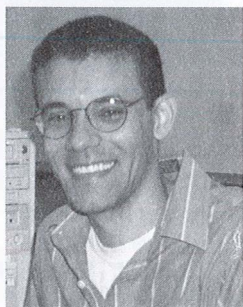
Shannon L. Stott



**Ph.D. Candidate,
Mechanical Engineering
First Year ARCS Scholar**

Shannon Stott, a native of North Andover, MA, earned a B.S. in Mechanical Engineering from the University of New Hampshire in 1997. She began her graduate studies, focusing on thermal sciences at the Air Conditioning and Refrigeration Center (ACRC) at the University of Illinois. Her Masters thesis work included various projects that ranged from designing an air-conditioned bio-chemical warfare suit to working with the Department of Energy to design the best air-conditioner for the environment. Currently, in her graduate work with Dr. Gang Bau, she is investigating single molecule mechanics with optical methods at the Petit Institute for Bioengineering and Biosciences at Georgia Tech. She tutors and volunteers at Illini Projects and Hands on Atlanta. Her ultimate goal is to be a college professor at a research university.

Michael D. Swinson



**Ph.D. Candidate,
Mechanical Engineering
First Year ARCS Scholar**

Michael Swinson, a native of New Castle, DE, graduated magna cum laude with a B.S. in Economics, Mechanical Engineering and Materials Science from Duke University in 1996. He earned a M.S. in Mechanical Engineering from Georgia Tech in 2000. He has worked as a lab and research assistant for ICI Pharmaceuticals, and Zeneca, Inc., a technical researcher and energy engineer for DuPont, Inc., and has been a business analyst and consultant for Capital One Financial Services, Inc., and Profit Sciences, Inc. He holds National Defense Science and Engineering and National Science Foundation Fellowships. He also holds GE, President's, and GEM Fellowships. His research interest lies in Neural Networks, and his career goal is to be a professor research scientist.

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