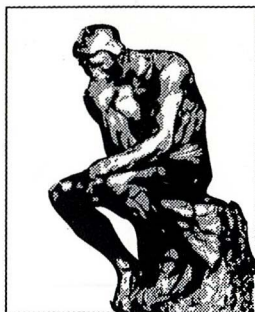


ACHIEVEMENT REWARDS FOR COLLEGE SCIENTISTS

Atlanta Chapter

A R C S



FOUNDATION INC

10th Anniversary Celebration
Scholars Awards Luncheon
A Decade of Scholars

November 1, 2001

Presenting Sponsors



FEDERAL HOME LOAN BANK
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MAC  UARIUM[®]
INTELLIGENT COMMUNICATIONS

ARCS Foundation, Inc.
Atlanta Chapter

Scholars Awards Luncheon

10th Anniversary Celebration

Thursday, November 1, 2001
The Ritz-Carlton, Atlanta

A Decade of Scholars

Welcome

Sally Hinkle, President, Atlanta Chapter

Proclamation

Mary B. O'Connor
National President, ARCS Foundation, Inc.

ARCS Timeline and Donor Appreciation

Macquarium Intelligent Communications

*Presentation of
2001 ARCS Atlanta Scholars*

Lunch

Introduction of Keynote Speaker

Deborah Kilpatrick, Ph.D.
1992 ARCS Scholar
Georgia Institute of Technology

Closing Remarks

Sally Hinkle

Scholarship Donors

\$5,000 Level

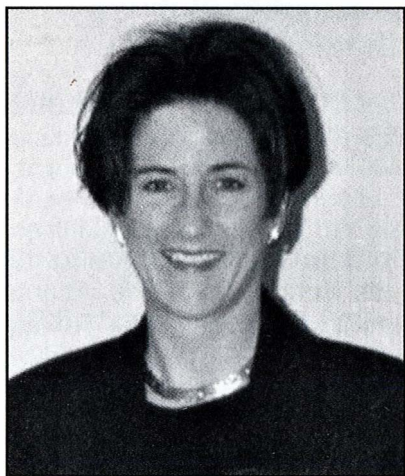
ARCS, Atlanta Membership – (11 Scholarships)
BellSouth Corporation
The Joseph G. & Inez Crawford BurtchaeII Foundation
The Coca-Cola Foundation
Cheryl E. Dixon
Marcia & John Donnell
Georgia-Pacific Corporation
Georgia Power Foundation
The Graves Foundation
The Hansen Family Foundation
Mr. & Mrs. Parks H. Hicks
The Imlay Foundation
James R. Kuse Foundation
Siemens Energy & Automation, Inc.
Synovus, Inc.
Carol & Martin Teem
The Zeist Foundation

\$2,500 Level

| | |
|---------------------------|----------------------------|
| Gilham/Stokes Scholarship | Mauldin/Miller Scholarship |
| Caroline & Harry Gilham | Linda Mauldin |
| Nita Stokes | Harriet & Sandy Miller |
| Leake/McKenna Scholarship | Moseley/Napier Scholarship |
| Pat & Nolan Leake | Brenda & Charles Moseley |
| Margaret & Andy McKenna | Lu & Jim Napier |

Century Scholarship Donors ~ \$1,000

| | |
|------------------------|------------------------|
| Regina & Terry Bridges | Sally & Jim Hinkle |
| Susie & Bill Deyo | Deborah & William Liss |
| Betty Feezor | Elizabeth Spiegel |
| Joan & Bill Goodhew | David & Beverly Stacy |
| Aileen & Mil Hatcher | The Turcan Family |



Deborah Kilpatrick
Ph. D.

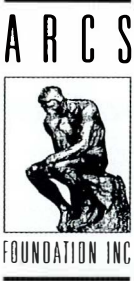
Research Advisor
New Ventures Group
Guidant Corporation

Ten years ago, Deborah Kilpatrick Beattie was the first ARCS scholar from Georgia Institute of Technology. She received her Bachelor of Science degree in Engineering Science and Mechanics in 1989 from Georgia Tech, and she returned to obtain both M.S. and Ph.D. degrees in Mechanical Engineering. With a background in structural mechanics, she applied lessons learned in the aerospace industry to analyze human arterial biomechanical behavior at various states of disease. As an ARCS scholar, Dr. Kilpatrick developed a combined experimental-computational technique to obtain some of the world's first constitutive relationships for arterial plaque components.

In 1999, Dr. Kilpatrick was inducted into the Council of Outstanding Young Engineering Alumni at Georgia Tech. During the summer of 2001, she taught a short course at Stanford University entitled, *The Cardiovascular System in Health and Disease; Fundamental Concepts for the Medical Device Industry*. Recently, Dr. Kilpatrick was invited to join the Advisory Board for the Woodruff College of Mechanical Engineering at Georgia Tech. She is currently Research Advisor for the New Ventures Group at Guidant Corporation in Santa Clara, California, directing programs that study arterial behavior during clinical intervention and development of disease-specific medical device technologies.

Achievement Rewards For College Scientists

Atlanta Chapter



From the President

What a pleasure 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 celebrate our tenth anniversary – a decade of scholars.

It is with a real sense of joy and gratitude to all of our donors that we also report that our scholarship giving has increased one thousand percent in ten years. Three \$5,000 scholarships were awarded our first year, and today we award thirty-three \$5,000 scholarships. Two of these scholarships will be divided to accommodate scholars graduating mid-year.

Yet, we will not rest on our laurels. There has never been a more crucial time than now to support science and engineering students. World events clamor for United States technological superiority. Therefore, I invite you to join us in providing “dollars for scholars.” The Internal Revenue Service has given ARCS a 501 (c) (3) status, so all gifts are fully tax deductible and all contribution dollars go directly to scholarships. In this time of peril, I can think of no finer way to showcase your commitment to science and engineering than by providing scholarship funds.

In closing, I would like to extend a special word of thanks to this year’s Luncheon Co-chairs, Eileen Christman and Terry Dubsky, and to the presenting sponsors, Federal Home Loan Bank of Atlanta and Macquarium Intelligent Communications. They have all worked for months to make this a memorable anniversary celebration as we salute our thirty-five outstanding scholars who truly exemplify the best and brightest that America has to offer!

Sally Hinkle
President, ARCS, Atlanta Chapter

ARCS At A Glance

Mission: The ARCS Foundation is dedicated to helping meet our country's need for scientists and engineers by providing scholarships to academically outstanding students who are United States citizens in need of financial assistance to complete their higher education, thereby contributing not only to the advancement of science, but also to the material and intellectual welfare of all people.

History: Achievement Rewards for College Scientists was founded in 1958 at a time when the technological superiority of the United States was being questioned. The goal of this volunteer organization is to establish a higher mark in scientific excellence for U.S. students through the awarding of scholarships in the fields of natural science, medicine and engineering. There are twelve chapters nationwide that support scholars at 43 major colleges and universities. Since 1958, ARCS chapters have raised more than 37 million dollars and supported 8,570 students. The Atlanta Chapter was founded in 1992 and awards scholarships in approved departments at Emory University, Georgia Institute of Technology, Morehouse College and the University of Georgia. As of November 2001, Atlanta ARCS has awarded \$721,000 in the support of 146 students.

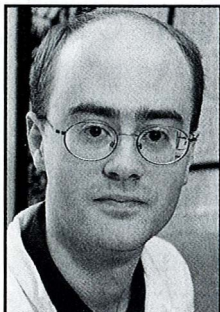
Scholar Selection: ARCS Scholars are selected by college administrators and department chairs. The criteria require academic excellence, leadership, full-time enrollment in an approved department, and U.S. citizenship. Students are offered an ongoing ARCS scholarship until their degree is completed, provided academic standards are maintained. If a student graduates mid-year, the scholarship is shared with a new ARCS scholar.

Scholarship Donors and Fundraising: A major portion of each ARCS member's dues supports the scholarship fund. In addition, dollars are solicited from corporations, foundations and individuals. To expand the donor base, a "Century Scholarship Program" was developed in 1999. Two members may join together to contribute \$2,500 each for a named scholarship, or an individual may donate \$1,000 and be recognized as a Century donor. All scholarships are ARCS scholarships. Name designations at all levels indicate the source of funds for that particular ARCS scholarship. Thirty percent of the members of ARCS, Atlanta donate funds over and above their dues payments. ARCS is a 501 (c) (3) organization, and donations are fully tax deductible. One hundred percent of all contributions go directly to scholarships.

Emory University

Travis M. Anderson

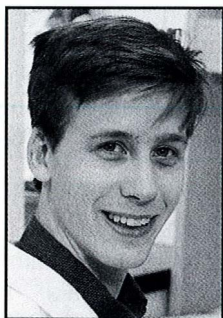
**First Year ARCS Scholar
Ph.D. Candidate, Chemistry
Donnell ARCS Scholarship**



Travis received his Bachelor of Science degree, summa cum laude, from Mercer University. His undergraduate research was in Synthetic Inorganic Chemistry and Chemical Education. His Doctoral research at Emory, under Dr. Craig L. Hill, is focused on Synthetic Inorganic Chemistry, Catalysis and Mechanistic Studies of Cluster Compounds. He has been a graduate teaching assistant in the General Chemistry lab at Emory, and also supervised the chemistry lab when at Mercer. With a number of publications and professional presentations to his credit, Travis is also the recipient of several awards. These include the Osborne Quayle Award, 2000; Merck Index Outstanding Chemist Award, 1997; and the Outstanding Physical Chemist Award, 1996.

William W. Cutchins

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

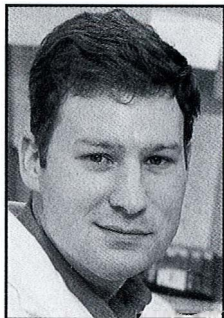


Will began his chemistry career at Hamilton College, where he studied Organic Chemistry under Robin Kinnel and Ian Rosenstein. His undergraduate research focused on the discovery of bioactive natural products from marine organisms. He was awarded a Bachelor's degree with Honors in 1998. While at Hamilton, he was the recipient of both the Denny and Underwood Prizes, as well as an Elihu Root Fellowship. Will then moved to Emory where he began his doctoral research in the laboratory of Frank McDonald. Currently he is working toward the synthesis of rare oligosaccharides. When not in the lab, Will enjoys playing guitar and studying Ying Jow Pai Kung Fu.

Emory University

John D. Ginn

Second Year ARCS Scholar Ph.D. Candidate, Chemistry ARCS Membership Scholarship



John received his Bachelor of Science degree from Mercer University in 1994. Following his undergraduate studies he entered Emory University where he worked in the laboratories of Professor William Crowe, studying titanium catalyzed carbocyclization reactions. After receiving his Masters degree, John took a leave of absence to spend time both teaching in public school and working as a research chemist at the U.S. Department of Energy's Savannah River site. John returned to Emory in 1998 and is currently completing his doctoral work in the laboratory of Professor Albert Padwa, focusing on intramolecular cycloaddition chemistry of amido-furans. After graduation, John will join Boehringer Ingelheim Pharmaceutical in Connecticut as a research chemist.

Jenny M. Henderson

First 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.

Emory University

Valerie J. Horsley

First Year ARCS Scholar

**Ph.D. Candidate, Biochemistry, Cell
& Developmental Biology
Teem 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 engineered cancer cells as a means of eliciting an immune response against tumors. Her long-

term plans focus on academic biomedical research and teaching. She has been a teaching assistant for graduate cell biology as well as a physician assistant in the biochemistry course. Her concern for cancer research has extended outside the university setting, to include such activities as participating in the Avon Breast Cancer 3-Day Walk.

Martin N. Jacquez

First Year ARCS Scholar

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



Martin 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. Martin enjoys visiting historical sites throughout the Southeast and hiking in North Georgia.

Emory University

Barbara K. Kramer

Second Year ARCS Scholar Ph.D. Candidate, Chemistry ARCS Membership Scholarship



Barbara received her Bachelor of Science degree in Biochemistry from Oberlin College 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 is currently a Dean's Teaching Fellow at Oxford College of Emory University.

Beven P. Livingston

First Year ARCS Scholar Ph.D. Candidate, Neuroscience Moseley/Napier ARCS Scholarship



Beven earned a Bachelor of Science degree in biology from Transylvania University. Her interest is in the field of physical rehabilitation, having spent twelve years working as a physical therapist and athletic trainer before embarking on graduate studies in biomechanics at Emory University. 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. Therein lies her focus as a teaching professional, 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

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.

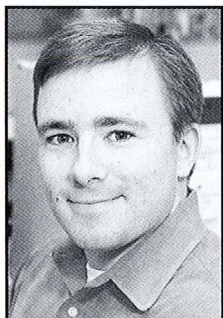
She has represented students on the Neuroscience Program Executive Committee and on the Division Student Advisory Council. Planning on a career in research and teaching, her focus involves the way visual and tactile areas of the brain interact in sighted and blind humans. Sarah enjoys singing and has appeared in a production of *Oklahoma* at Peachtree Baptist Church.

Georgia Institute of Technology

Brent C. Bailey

First Year ARCS Scholar

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

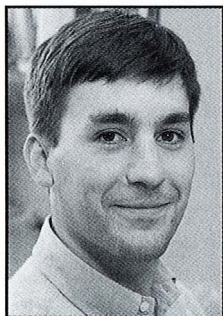


Brent, a native of Atlanta, graduated from Georgia Tech with highest honors in 1997, earning a Bachelor of Mechanical Engineering degree. He then went into industry working as a project engineer for one of the nation's largest specialty contractors. After gaining valuable experience providing design solutions for commercial and hospital HVAC systems, Brent decided to return to Georgia Tech to pursue his Ph.D. Currently, he is working in the fluid mechanics area focusing on the study of fluid suspensions and their contact on solid surfaces. This research is funded by NASA for use in the Mission to Mars program. In addition to his research interests, Brent volunteers much of his free time as an ordained minister. After completing his graduate work, Brent plans on a career in academia.

James P. Brooks

First Year ARCS Scholar

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



Paul graduated from the University of Virginia in 1999 with B.S. 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 behavior and treatment. He is conducting this research with Professor Eva Lee. Beyond school, Paul participates in a men's baseball league and is an active member of Briarcliff United Methodist Church.

Georgia Institute of Technology

Rebecca J. Covert

Second 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. She 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. She is presently evaluating the durability of materials that may be used as articular cartilage replacements for those suffering from degenerative joint disorders.

Jeffrey D. Day

First Year ARCS Scholar

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



Jeff graduated magna cum laude with a Bachelor of Science degree in Industrial Engineering from Georgia Tech in 1996. After spending five months as an intern for Norfolk Southern Railways, he returned to Georgia Tech for graduate studies. Jeff completed his M.S. degree and was awarded a National Science Foundation Fellowship a year later.

Presently, he is working on a Ph.D. thesis with the aid of his advisors, Dr. George Nemhauser and Dr. Joel Sokol. His research involves inverse optimization of network flow problems and is driven by a railroad routing application developed by Norfolk Southern, which supported his research through The Logistics Institute. Jeff's main non-academic interest is martial arts, and he is testing for the rank of black belt in USA Goju karate.

Georgia Institute of Technology

Chad E. Duty

Second Year ARCS Scholar

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



Chad is a native of Lebanon, Virginia. He graduated summa cum laude from Virginia Tech in 1997 with a B.S. degree in Mechanical Engineering. He is currently developing a Laser Chemical Vapor Deposition (LCVD) system for making small-scale ceramic and metallic composite structures. The LCVD system relies on heat from a laser beam to initiate a localized chemical reaction, resulting in a solid deposit on the substrate surface. By controlling the motion of the laser, patterned deposits can be generated. Broader research interests include mechanical design and manufacturing. Chad also worked for one year in research and development at DuPont's Tyvek Division. Chad will graduate in December of this year and intends to remain in the Atlanta area.

Lisa A. Evans

Second Year ARCS Scholar

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



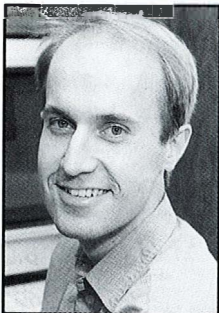
Lisa, a native of Houston, Texas, earned her B.S. degree in Discrete Mathematics from Georgia Tech in 1998, graduating with highest honors. She remained at Georgia Tech for graduate school, entering the Ph.D. program in Industrial Engineering. She spent the summers of 1997 and 1998 as an intern at the United Parcel Service corporate office in Atlanta. She has since worked continuously as a graduate research assistant at Georgia Tech, taking time off only for a stint 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.

Georgia Institute of Technology

Braden K. Hunsaker

Third Year ARCS Scholar

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



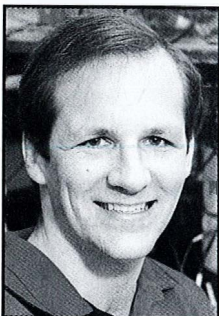
Brady earned a Bachelor of Science degree in Mathematics from Harvard University in 1997, graduating magna cum laude. After working for one year at an international school in Stavanger, Norway, he began his graduate studies in Georgia Tech's interdisciplinary doctoral program in Algorithms, Combinatorics, 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 Professor Ellis Johnson seeking ways to measure the "strength" of cutting planes in integer programs, specifically addressing the knapsack problem and cyclic group problem.

Peter A. Kottke

First 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 B.S. degree in Mechanical Engineering in 1995. After graduation, he served for five years in the Navy as a nuclear submarine officer. During his service, Peter developed a keen interest in the thermal and fluid 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. The specific research goal is an investigation of cavitation due to shear stresses in liquids and the effects of this cavitation on rheological measurements. Peter is the recipient of a National Defense Science and Engineering Graduate Fellowship sponsored by the U.S. Air Force Office of Scientific Research, as well as a Presidential Fellowship from Georgia Tech.

Georgia Institute of Technology

Jay M. Rosenberger

Third Year ARCS Scholar

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



Jay, a native of Novato, California, earned a B.S. degree in Mathematics from Harvey Mudd College in 1996. In 1997 he received his M.S. degree in Operation Research from the University of California at Berkeley. He spent the summer of 1997 working for NetExchange in San Diego, 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.

Susan W. Stewart

First Year ARCS Scholar

Ph.D. Candidate, Mechanical Engineering ARCS Membership Scholarship



Susan, originally from State College, Pennsylvania, graduated with distinction from the Pennsylvania State University in 1999 with a Bachelor of Science degree in Mechanical Engineering. Now at Georgia Tech, Susan is pursuing a Ph.D. under the advisement of Dr. Sam Shelton in the Energy Systems Group studying a single pressure absorption refrigeration cycle patented by Albert Einstein and Leo Szilard in 1928. She is the recipient of a National Science Foundation Fellowship, a Georgia Tech President's Fellowship, and the Metro Atlanta ASHRAE (American Society of Heating, Refrigeration, and Air-Conditioning Engineers) student engineer of the year award for 2001. Susan plans on a career in academia or industry in the area of energy systems. She married this past summer, and is enjoying home improvement projects and hiking in her spare time.

Georgia Institute of Technology

Shannon L. Stott

Second Year ARCS Scholar

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



Shannon earned a Bachelor of Science 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 area of bioengineering with a focus on single molecule mechanics. She is investigating the connection between mechanics and biochemistry at the molecular level and developing innovative technologies for solving biomedical problems. Her current work involves deforming and twisting small molecules such as DNA and proteins with laser tweezers, a system that she has built over the past two years. The information gained from these experiments will ultimately be applied to cancer studies, specifically, the role of receptor-ligand binding in oncogenic signaling.

Michael D. Swinson

Second Year ARCS Scholar

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

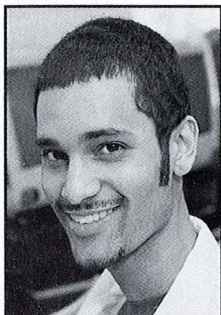


Michael graduated magna cum laude with a B.S. degree in Economics, Mechanical Engineering and Materials Science from Duke University in 1996. He received his master's degree in Mechanical Engineering from Georgia Tech in 2000. He has worked as a lab and research assistant for ICI Pharmaceuticals and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

First Year ARCS Scholar Junior, Biology Major ARCS Membership Scholarship

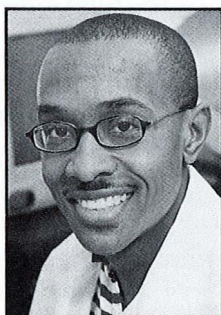


An honor roll student, Christopher is a member of the Health Careers Society and the National Society of Collegiate Scholars. He co-authored a paper on angioleiomyoma, a rare, benign, soft tissue tumor of the foot, accepted for publication by *The American Journal of Foot and Ankle Surgery*. During the last two summers, Christopher worked for the Lawrence Berkeley

National Laboratory on a research project on circumvention of brain damage suffered by cardiac arrest patients through cooling devices designed to antagonize the brain's NMDA receptor. He provided service to the community by tutoring at the Ben Carson Science Institute at Morehouse School of Medicine. In addition, Christopher co-founded a nonprofit organization, *Stimulating Positive Awareness and a Responsible Community* that focuses on teaching science to under-served middle school children.

Donnie L. Bell, Jr.

First Year ARCS Scholar Junior, Biology Major ARCS Membership Scholarship



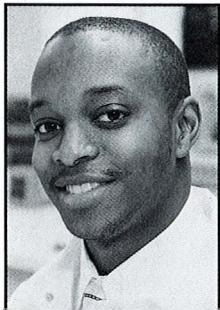
Donnie is on the Dean's list at Morehouse College where he is a member of the National Society of Collegiate Scholars and a participant in the U*STAR/MARC program, which supports exceptional students pursuing research careers. He is also editor of the Morehouse College Health Careers Society publication. This past summer he performed research at Yale

University in neurobiology, studying *The Role of Receptor EphRA4 in Thalamocortical Connectivity*. His other research interests involve the dynamics of gene expression in hypertension and virology. Outside of academics, Donnie is a saxophonist in the Ebenezer Baptist Church Ensemble and is also interested in art and athletics.

Morehouse College

Robert J. Drummond

Second Year ARCS Scholar Senior, Biology Major BellSouth ARCS Scholarship



Robert is pursuing a career in Academic Medicine. He began his research endeavors at Yale School of Medicine, studying embryonic bone development through the 2000 Biological Science Training and Enrichment Program. He is currently in the U*STAR/MARC program which supports exceptional students pursuing research careers. As a MARC research intern, Robert studied gene regulation during states of hypertension at the Morehouse School of Medicine. Summer 2001 found him working in the Vascular Biology Branch of the National Heart Lung and Blood Institute of the National Institutes of Health. Robert serves as Head Teaching Assistant and tutor in the General Biology Labs at Morehouse. He is a member of numerous honor societies from Golden Key to Phi Beta Kappa.

Chealon D. Miller

First Year ARCS Scholar Senior, Biology Major Coca-Cola Foundation ARCS Scholarship

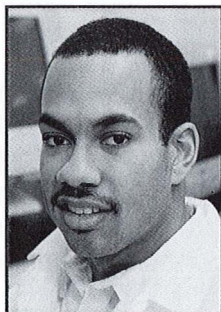


Chealon is a senior at Morehouse College. He aspires to attend medical school and incorporate research training in the area of oncology into his curriculum. During the summer of 2001, he performed research at the Harvard University Summer Honors Undergraduate Research Program. Chealon worked at Brigham and Women's Hospital, a Harvard Medical School teaching affiliate. The project involved inhibiting platelet formation by conformation specific antibodies to the Von Willerbrand Factor. He was recently honored by *Black Voices Quarterly Magazine* and received the Hugh M. Gloster Award from Morehouse College. Chealon's most recent work experience was a teaching position, assisting in the Freshman Biology Lab at Morehouse College.

Morehouse College

David E. Myles

First Year ARCS Scholar

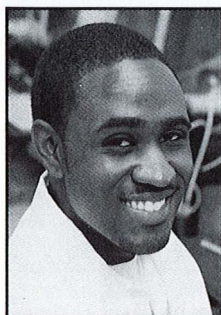


Senior, Biology Major Hansen Family ARCS Scholarship

The summer after David's freshman year at Morehouse, he participated in a research program at Yale University School of Medicine where he studied the regulation of glucose transport in heart muscle by a protein known as AMP-activated protein kinase. Following his sophomore year, he conducted research at Harvard Medical School, seeking to determine if gender differences exist in glucose transport. Since completing his junior year, he has conducted research at Morehouse School of Medicine. A family of proteins known as the peroxisome proliferator-activated receptors, and their implications for atherosclerosis, are of keen interest to the lab in which he is currently working. David's aspiration is to obtain a Ph.D. while continuing to work on "Syndrome X" – high blood pressure, diabetes, obesity and adipose tissue disorders.

Patrick Dean Smith

Second Year ARCS Scholar



Senior, Biology Major ARCS Century Scholarship

Patrick is a biology major from Baton Rouge, Louisiana. Upon completion of undergraduate studies, he plans to study dentistry and focus on dental research. He has been a participant in the Morehouse College neuroscience program for one year, where he carried out research on the activity of chloride channels in cells containing the CFTR gene, which is defective in persons with cystic fibrosis. His ongoing research project involves observation of the behavior of predatory *Euglandina* resea snails, to better understand the behavior of their olfactory neurons. Patrick is a member of several health career societies including the Morehouse College Health Careers Society, the Pre-Dental Society and the Minority Association of Pre-Health Students.

Morehouse College

Christopher L. Vendryes

First Year ARCS Scholar

Senior, Biology Major

David M. Dixon ARCS Scholarship



Christopher has participated in the Morehouse College Honors Program Club since his freshman year. The summer following his sophomore year, he attended the Yale University School of Medicine where he participated in the Biomedical Scientist Training and Enrichment Program (BioSTEP). He conducted research concerning the role of outer

surface protein A (Osp A) in bridging a link between the Lyme disease producing spirochete *Borrelia burgdorferi* and its tick host. While participating in the Summer Honors Undergraduate Research Program (SHURP) at Harvard Medical School, he studied the effects of co-receptor stimulation on the CD21/CD35 receptor of transgenic B cells. He also had the opportunity to participate in a semester abroad program at the University of Manchester, England. Future plans include research into respiratory complications in minority communities, particularly African-American, and the role of catalytic monoclonal antibodies on changing protein structure. Christopher is a member of Phi Beta Kappa, the National Society of Collegiate Scholars, and the Golden Key honor societies.

University of Georgia

Scott A. Callison

First Year ARCS Scholar

Ph.D. Candidate, Medical Microbiology Hicks 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. In his spare time, Scott enjoys running and playing golf, basketball, and softball.

Nathaniel J. Cospers

First Year ARCS Scholar

Ph.D. Candidate, Chemistry ARCS Membership Scholarship



Nate received his undergraduate degree in Chemistry from the University of South Carolina at Aiken. As a doctoral candidate under the supervision of Professor Robert Scott and in collaboration with several other scientists at the University of Georgia and other schools, Nate is conducting research into various biomolecules that are responsible for the synthesis of proteins, amino acids, and vitamins. The ultimate goal is to provide structural and mechanistic antibiotics and to stimulate normal cellular function. In particular, this research has provided insight into a potential antibiotic target for *Haemophilus influenzae*. Nate's research group is also studying the mechanism for methionine-processing in *Escherichia coli*, an important step in the synthesis of functional proteins.

University of Georgia

Bolyn H. Fralish

Second Year ARCS Scholar

Ph.D. Candidate, Cellular Biology

Burtchaell Foundation ARCS Scholarship



Bolyn, from Winterville, Georgia, received a B.A. degree in Anthropology from the University of Georgia in 1994. She then spent two years working as a research technician before beginning graduate work in the Department of Cellular Biology at UGA. Her research interests have included vaccine development and protein tracking for *Trypanosoma cruzi*, conducting work in Argentina, an endemic area for related Chagas' disease. She received a Burroughs Wellcome Fund Scholarship to attend the Biology of Parasitism course at the Marine Biological Laboratory in Woods Hole. Boyln's work has been funded in part by the National Institutes of Health and a UGA Doctoral Research Assistantship. She plans to pursue a career in biomedical research.

Gregory B. Fralish

First Year ARCS Scholar

Ph.D. Candidate, Biochemistry & Molecular Biology

Georgia Power ARCS Scholarship



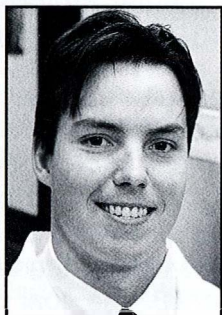
Greg began his career in research as a Biochemistry undergraduate at the University of Georgia. Following his sophomore year, Greg interned at the Centers for Disease Control in Atlanta and then completed a summer research Fellowship with the UGA Department of Biochemistry in his senior year. Greg decided to explore a life-long interest in teaching after graduating rather than immediately attending graduate school. For a year, he taught Chemistry and Physics in DeKalb County. He loved teaching, but his interest in doing research was too strong to ignore. He returned to the University, where in his first year he was awarded the "Outstanding Graduate Teaching" award. Greg was recently awarded the Final Year Doctoral Research Fellowship by the University of Georgia.

University of Georgia

Jarrat L. Jordan

First Year ARCS Scholar

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

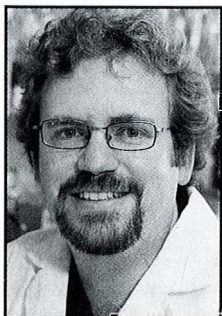


Jarrat received a Bachelor of Science degree in Biology from Valdosta State University. The University lost an avid football player and gained a dedicated scientist when Jarrat injured a knee early in his college career. Jarrat's scientific research has focused on primary atypical pneumonia for which there is no vaccine. With an estimated two million cases annually in the United States requiring up to 100,000 hospitalizations, this strain of pneumonia affects older children and young adults, and accounts for 20% of all pneumonia in humans. Upon completion of his Ph.D. at University of Georgia, he plans to attend medical school. By combining a doctoral education in microbiology with a firm medical education, Jarrat intends to focus his work on the complete nature of infectious disease.

Martin L. Moore

First Year ARCS Scholar

Ph.D. Candidate, Genetics ARCS Membership Scholarship



Martin 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, Martin's current research projects involve investigating the pathogenesis of mouse adenovirus type 1. His research interests include the genetics of viral pathogenesis and cancer. 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. Martin enjoys cooking and golf and spending time with his dogs.

University of Georgia

Julie D. Stanton

First 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 biology led to her current studies at the University of Georgia. 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 its resultant disease and specifically, how the organism regulates protein synthesis. Her work was recently highlighted at the World Congress on *Leishmania* in Crete. Julie is an award-winning teaching assistant at UGA and volunteers in programs that promote science in the community. She enjoys hiking, backpacking and watching movies.

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