



ARCS FOUNDATION, INC.

Achievement Rewards for College Scientists
Atlanta Chapter

Fourth Annual
ARCS Awards Luncheon

October 25, 1995

ARCS CREED

The ARCS Foundation
is dedicated to helping fill
our country's great need
for scientists and engineers
by providing scholarships for distribution
to academically outstanding students
who are United States citizens
and in need of financial support
to complete their higher education,
thereby contributing
not only to the advancement
of science, but to the material and intellectual
welfare of man.

ARCS Foundation, Inc. Atlanta Chapter

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ARCS FOUNDATION, INC.
ACHIEVEMENT REWARDS FOR COLLEGE SCIENTISTS

The ARCS Foundation, Inc., founded in Los Angeles in 1958, recognizes that America's future rests with the young men and women who will invent the answers to the scientific and technological challenges we face as a nation today.

Members in chapters located throughout the United States provide scholarship funds for academically outstanding United States citizens who are pursuing higher educations in the fields of natural science, medicine and engineering.

The Atlanta Chapter, incorporated in 1992, will contribute to scholarships for students in Georgia. ARCS scholarship funds have found their way to college and university campuses from Massachusetts to California and have helped support individual scholars in nearly every scientific discipline.

ARCS FACT SHEET

.....	LOCAL	NATIONAL
Founded	1992	1958
Members	105	1,518
Scholarships Granted	25	6,171
Scholarship Dollars	\$126,000	\$20,522,693
Schools Supported	3	58
Total Chapters	1	13

ARCS FOUNDATION ATLANTA CHAPTER MEMBERS

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2998 Habersham Rd.
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PROGRAM

WELCOME

Trudy Huger, President
Atlanta ARCS Chapter

LUNCHEON

MASTER OF CEREMONIES

Harmon J. Eyre, M.D.
Deputy Executive Vice President
for Medical Affairs and Research
The American Cancer Society

AWARDS PRESENTATIONS

Dr. William M. Chace
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Emory University

Dr. Michael E. Thomas
Provost and Vice President for Academic Affairs
Georgia Institute of Technology

Dr. Walter E. Massey
President
Morehouse College

Ms. Dianne Napier-Wilson
Major Accounts Vice President
Northern Telecom

1995 ARCS SCHOLARS

EMORY UNIVERSITY

Daniel R. Goldberg
Paige Newton Vinson
M. David Weingarten

GEORGIA INSTITUTE OF TECHNOLOGY

Deborah K. Beattie
Jean E. Davis
Staci A. Edlund
Ashley James

MOREHOUSE COLLEGE

Aaron M. Alford
Brandon P. Johnson
John E. Vance, Jr.

1995 NORTHERN TELECOM SCHOLAR

M. David Weingarten

THE ATLANTA SCHOLARS



AARON M. ALFORD

Morehouse College, Senior, Biology Major

Aaron Alford plans to practice medicine and perform clinical research. At Morehouse he has excelled academically, being honored by membership in Beta Kappa Chi Scientific Honor Society and the Golden Key National Honor Society. He has participated in research and other professional activities at the University of Kentucky, the University of Washington in Seattle, the Morehouse School of Medicine, and the Cleveland Clinic Foundation. At the University of Chicago he used the patch clamp technique to study membrane transport. Aaron is a member of the Health Careers

Society and participates in the Morehouse College Mentoring Program. In addition, he serves as a tutor for General Biology and Biochemistry at Morehouse.



DEBORAH K. BEATTIE

Georgia Institute of Technology

Ph.D. Candidate, Mechanical Engineering

Deborah Beattie continues a fourth year as one of our chapter's ARCS Scholars. After graduation from Georgia Tech with High Honors in Engineering Science and Mechanics, she worked at Pratt and Whitney as a Structures Engineer. In 1990 she won their Eagle Award for her participation in developing the high pressure turbine configuration for the USAF Advanced Tactical Fighter Engine. Returning to Georgia Tech, she began research on the mechanical and histological analysis of atherosclerotic human arterial tissue.

Her career goals include continuing research in bioengineering, specifically cardiovascular mechanics, in an academic setting.



JEAN E. DAVIS

Georgia Institute of Technology

Ph.D. Candidate, Mechanical Engineering

Jean Davis is in her third year as an Atlanta ARCS Scholar at Georgia Tech. She graduated with Honors in Mechanical Engineering from the University of Florida and worked for eight years in the defense contracting industry. She has been awarded a National Science Foundation Composite Materials Graduate Research Fellowship, a George W. Woodruff Mechanical Engineering Fellowship, a nomination to Who's Who Among Graduate Students, and a Society of Women Engineers Outstanding Graduate Engineer Scholarship.

Her doctoral research is in damage mechanics of composite materials. Her career goal is to obtain a university faculty position.



STACI A. EDLUND

Georgia Institute of Technology
Ph.D. Candidate, Mechanical Engineering

Staci Edlund received her Bachelor of Science and Master of Science degrees in Mechanical Engineering from the University of California at Berkeley. While there, she was first awarded an ARCS Foundation Scholarship in 1992 by the Northern California Chapter of ARCS. During that time, she gained engineering experience from a six month internship at New United Motors Manufacturing, Inc., a joint venture assembly plant for Toyota and General Motors. She received the Charles Mills Gayley Fellowship in 1993 and the Eugene Cota-

Robles Fellowship in both 1993 and 1994. At Georgia Tech, she is a Presidential Fellow and Graduate Research Assistant. She desires a career in academia and research.



DANIEL R. GOLDBERG

Emory University, Ph.D. Candidate, Organic Chemistry

From Massachusetts, Daniel Goldberg is a graduate of Skidmore College, with a Bachelor of Arts in Chemistry. His research interest is centered in the use of transition metals in the development of novel synthetic methods. In his first project, he solved a difficult problem in homogenous catalysis and, as a result, collaborated with his advisor, Dr. William E. Crowe in publishing a paper which merited a Science/Technology Concentrate in *C&E News* (May 15, 1995). He has researched the cross-metathesis of acrylonitrile and allylsilane with a variety of terminal olefins using Richard Schrock's

molybdenum imidoalkylidene catalyst. His honors include the Student-Faculty Collaborative Research Award at Skidmore in 1990. His career objective is to become a college professor.



ASHLEY JAMES

Georgia Institute of Technology
Ph.D. Candidate, Mechanical Engineering

Ashley James graduated with honors from the University of Florida in 1990 with a Bachelor of Science in Mechanical Engineering degree. While at Florida, she became a member of Tau Beta Pi and Pi Tau Sigma. She then worked for Westinghouse Electric Corporation in their steam turbine engineering department. Her primary responsibility was the prediction of power plant performance. Her area of expertise at Georgia Tech is interfacial fluid dynamics. Her research is an analysis of the breakup of a

vibrating liquid droplet, a project that has applications in heat exchanger design. She is preparing for a career in academia.



BRANDON P. JOHNSON

Morehouse College, Senior, Biology Major

Brandon Johnson plans a medical career, with an emphasis on biomedical research. A five-time Oklahoma State Science Fair winner, he is a member of Beta Kappa Chi Scientific Honor Society and Golden Key National Honor Society. At New York University Medical Center he used recombinant DNA techniques to identify a gene which may be associated with schizophrenia. At Morehouse School of Medicine, his project aimed at understanding how the RNA product of a particular gene becomes localized in the nucleolus, rather than the cytoplasm. At the University of Chicago Medical

School, he researched sickle cell anemia, attempting to identify sites on the surface of Hemoglobin S Molecules which contribute to the tendency of these molecules to aggregate, leading to the sickling of cells.



JOHN E. VANCE, JR.

Morehouse College, Senior, Biology Major

The practice of medicine and performing both biomedical and epidemiological research on cardiovascular diseases are career goals for John Vance. His academic success has been rewarded by membership in Beta Kappa Chi Scientific Honor Society and the Golden Key Honor Society. In the summers of 1993 and 1994 he participated in a research program at the University of Cincinnati where he worked on two projects - to select colonies of oxidant resistant airway epithelial cells, and to test the effectiveness of various media in preserving blood. At the Morehouse Medical

School his research has been aimed at determining the effects of ischemia and reactive hyperemia on coronary arteries. John is a member of the Student National Medical Association.



PAIGE NEWTON VINSON

Emory University

Ph.D. Candidate, Analytical Chemistry

A graduate of the University of South Alabama, with a Bachelor of Science Degree in chemistry, Paige Vinson plans a future career continuing her research of applying analytical chemistry methods to neuroscience/biological questions. She has mastered all aspects of HPLC with electrochemical detection and has collaborated on several publications in the field with her advisor, Dr. Joseph B. Justice, Jr. Paige is the first author on the Analytical Chemistry paper on one minute sampling - the state of the art in microbiolysis

monitoring. In addition, she is experienced in installing hardware, software, and in writing short data collection and calculation programs for personal computers.



M. DAVID WEINGARTEN

Emory University, Ph.D. Candidate, Organic Chemistry

David Weingarten earned his Bachelor of Science degree in Chemistry from the University of West Florida in 1991. He is currently working with his advisor, Dr. Albert Padwa, on new approaches to pharmacologically important molecules that have biological activity. David has been an intern chemist with Air Products and Chemical, Inc., held various graduate teaching assistant and associate positions, and has been awarded the Proctor and Gamble ACS Organic Division Fellowships at Emory University. In the spring of 1996, he will become a Postdoctoral Fellow,

Columbia University, New York, under the supervision of Professor W. Clark Still. His career objective is to establish an academic methodology and its application to biological systems. He is the 1995 recipient of the Northern Telecom Scholarship.

WHY SHOULD I GIVE THROUGH ATLANTA ARCS?

100% of all donations go directly to scholarship without deductions for administrative overhead. A gift to ARCS means that every dollar goes exactly where you wish. By soliciting gifts from many donors and pooling those funds, ARCS enables the University to offer a limited number of highly attractive and competitive fellowships.

HOW DO I GO ABOUT GIVING TO ATLANTA ARCS?

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