A Message from Campaign Co-Chairs
Mary R. and John F. Brock III

Philanthropy has been woven into the fabric of Georgia Tech since its founding 125 years ago, and private support has shaped the campus and created the qualitative advantages—in teaching, research, facilities, and student life—that elevate a good university to a great one. They are advantages that state appropriations alone cannot provide.

Our vision for the future is to define the technological university of the twenty-first century. This means leading in innovative research and the commercialization of products to improve the human condition. It means leading in the education of bright young scholars. And it means leading in addressing critical social, technological, and policy decisions of our time.

We are following the path forged by those who have come before us. Larry Gellerstedt, Erskine Love, Charlie Yates, Ivan Allen, Pete Silas, Al West—they all sat where we sit today. These great alumni were consummate leaders and personal philanthropists. They were champions for Georgia Tech, and they have shown us the way. Now, it is our turn to step forward.

To seize the opportunities that abound, and to make the Institute’s vision a reality, we have launched Campaign Georgia Tech. With the support of our alumni and friends, we can achieve great things.

This is our time. This is our legacy.

Sincerely,

Mary R. and John F. Brock III, ChE 1970, MS ChE 1971
Co-Chairs, Campaign Georgia Tech
A Message from Dean Paul Goldbart

The sciences and mathematics are the foundations of research and teaching at Georgia Tech, and faculty and students in the College of Sciences are at the forefront of their fields, making new discoveries, creating new knowledge, and driving economic development.

Over the past decade, a significant portion of the College's research laboratories have moved into the Parker H. Petit Institute, the Ford Motor Company Environmental Science and Technology Building, the Molecular Science and Engineering Building, the Marcus Nanotechnology Building, and the Clough Undergraduate Learning Commons. Looking ahead, it is imperative that we are successful in seeking private support to complement state appropriations to fund the Engineered Biosystems Building. At $113 million, the facility is the most expensive in Institute history and, when completed in 2015, it will take us to new heights in health and life systems research.

In addition to bricks and mortar, we work hard to recruit, retain, and equip the best faculty to establish world-class programs. If we are to maintain our outstanding record of attracting exceptional new faculty and established scholars from other universities as well as retain our own much-sought-after faculty, it is vital that we increase the number of endowed professorships and chairs at all levels.

Among our highest priorities is the recruiting of superb undergraduate and graduate students, and postdoctoral researchers, and this priority is facilitated by the availability of scholarships and fellowships that attract the brightest, most talented individuals from the state, the nation, and the world.

Private philanthropy is the key. Georgia Tech and the College of Sciences continue to define the pathway for truly interdisciplinary education and research that address the world’s challenges head on. But we cannot do this without the support and engagement of visionary alumni, friends, corporations, and foundations. Please join us in shaping the future.

Sincerely,

Paul Goldbart
Dean and Professor of Physics
Professor Mark Hay (inset, left), the Harry and Linda Teasley Chair in Environmental Biology, is the principal investigator for Aquarius Reef Base, the world’s only underwater ocean laboratory located in the Florida Keys National Marine Sanctuary. He and his team study the health and recovery of coral reefs as well as marine organisms and drug discovery.
Exploring the Frontiers of Science

Since its founding in 1990, the College of Sciences has risen in prominence to become an internationally recognized leader in vital, cutting-edge research and education. The seven schools within the College—Applied Physiology, Biology, Chemistry and Biochemistry, Earth and Atmospheric Sciences, Mathematics, Physics, and Psychology—are committed to exploring the frontiers of scientific research and the fundamental principles of the universe to develop new materials, devices, and medicines that will enrich the human experience.

- Research teams in the School of Physics have made Georgia Tech a world leader in the development of graphene, a material that conducts electricity with less resistance, heat generation, and power consumption than silicon. This work marks a paradigm shift, and situates the College of Sciences as a leader in the next frontier in high-performance electronics.

- Researchers in the School of Chemistry and Biochemistry are developing new biofuels and new processing technologies that are not merely environmentally friendly, but represent a new, comprehensive approach to the production, use, and impact of alternative energy resources.

- The School of Earth and Atmospheric Sciences features faculty, researchers, and graduate students who are engaged in the study of climate change—from weather patterns to climate dynamics and the impact of carbon and other pollutants on oceans. Their research has informed national and international policymaking as well as advances in global climate modeling technology.

“I was honored to obtain a research scholarship in my sophomore year. In addition to helping with the cost of attending Tech, the experience in the research lab really helped to put my course work into perspective. Receiving such an honor made me feel like a valuable part of the scientific community.”

Alma Castaneda, CHEM 2011
Investing in People

The difference between a good program and a great program is its people. Every school in the College of Sciences features both internationally recognized senior faculty members and an extraordinarily talented group of junior faculty at the start of their academic careers. In turn, the faculty’s intellectual curiosity and passion for knowledge provide Tech students with exceptional opportunities for academic, professional, and personal growth.

The future of the College—and the Institute as a whole—depends on attracting and retaining the most talented faculty and students. This can be achieved by committing resources to the creation of endowed chairs and professorships, graduate fellowships and undergraduate scholarships, and academic program enrichment including but not limited to K-12 outreach, academic competitions, and lecture series.

Students receiving scholarships and fellowships engage in a broad array of experiential learning opportunities, make extraordinary contributions to the Tech community and research mission, and use their degrees to embark on exciting careers. Scholarship and fellowship funds reduce the financial burden on students pursuing their academic goals, and they allow the College to attract the brightest young minds into its undergraduate and graduate programs.

Finding Solutions through Collaboration

Research to address today’s most important challenges requires a highly interdisciplinary approach. Teams composed of faculty, staff researchers, postdoctoral scholars, graduate students, and undergraduates collaborate with their colleagues in other schools and colleges at Georgia Tech as well as with partners at universities and companies from all over the world.

- The School of Mathematics is collaborating with epidemiologists at the Centers for Disease Control and Prevention to study how infectious diseases are transmitted through populations.
- The ecology of the world’s oceans is a focus of research in the School of Biology, including initiatives to utilize the molecular diversity of the oceans’ flora and fauna and, in collaboration with biochemists, to develop new medicines.

This approach to problem solving is also infused throughout the undergraduate teaching program of the College. Faculty members bring the excitement of research into their classrooms to provide undergraduates with a strong scientific foundation and the preparation to become leaders in technology, medicine, and many other fields.
Uzi Landman, Regents’ Professor and Fuller E. Callaway Chair in Computational Materials Science, is a renowned researcher whose work has far-reaching potential in energy and environmental issues. In 2009, Landman received the prestigious Humboldt Research Award, which recognizes achievement in research and teaching among senior United States scientists.
Professor Jeffrey Skolnick, Mary and Maisie Gibson Chair and GRA Eminent Scholar in the School of Biology, is a preeminent researcher in computational systems biology. His research is transforming drug discovery and design as well as cancer detection. (Inset): Proteins are the building blocks of life systems. Their malfunctioning can cause diseases, and Skolnick and the researchers at the Center for the Study of Systems Biology are on the leading edge of diagnostics and treatment.
Scheduled to open in 2015, the Engineered Biosystems Building will transform the biosciences and bioengineering at Georgia Tech.

The Sciences in the Twenty-first Century

Biology and the study of health and life systems are fundamental to the sciences in the twenty-first century. With the sequencing of the human genome and the development of new technologies and data sets, the field has been dramatically transformed.

The College of Sciences is poised to become a leader in health and life systems research and education. Innovative ideas can be translated into far-reaching advances that will improve health, cure diseases, and sustain environments. The planned Engineered Biosystems Building will serve as the locus for Georgia Tech’s and the College’s efforts in health and life systems, genomics, bioinformatics, and nanomedicine, and will help accelerate breakthrough discoveries.

If the College of Sciences is to become a leader in research in health and life systems, it must have significant private support. Philanthropy is the key to fortifying the College’s prominence in research, education, and economic advances in health, bioscience, and biotechnology for the coming century.

“Many of the advances that have been made in systems biology would not have been possible without the donor’s very generous support of my research. These are high-risk/high-yield ideas, and the Gibson Chair’s funding provides crucial resources.”

Jeffrey Skolnick, Mary and Maisie Gibson Chair in Computational Systems Biology

Since the Institute’s founding, philanthropy has built and shaped Georgia Tech. The continuation of more than a century of philanthropic partnering with the State of Georgia will transform the College and create the campus of the future.
The College of Sciences is committed to providing the people, the tools, and the resources to address the most difficult challenges faced by the nation and the planet. To achieve these goals, it is critically important to enlist the support of alumni and friends as the College continues its rise to international prominence. Private philanthropy that supports individuals, programs, and facilities has brought tremendous returns, and there is no limit to what can be accomplished.

School of Biology Assistant Professor Joshua Weitz has developed a pioneering method of identifying enzymes that can be used to fight infectious diseases. Endowed professorships, which are crucial in attracting and retaining promising early-career faculty members, complement endowed chairs for senior faculty.

No Limits

The Path Forward

Georgia Tech has traveled breathtaking distances in a very short time. It is a highly ranked international research university, an incubator for innovation and economic growth, and a leader in engineering and technology, producing well-rounded graduates who go on to make an extraordinary mark on the world.

Today, it is forging a bold path forward. That path leads to a future in which Georgia Tech is known for its diverse, world-class students and faculty; for its innovative research and teaching; for being the institution that top decision-makers turn to in solving major problems; and for having the intellectual agility and vision not merely to face the future, but also to design it.

Georgia Tech is ready to accomplish all of this, and more, with the support and engagement of alumni, parents, friends, and all who share a passion for great ideas, courageous thinking, and the desire to shape the world to come.

Walter A. de Heer, Regents’ Professor in the School of Physics, is a leading researcher in the use of graphene in microprocessors, making them both faster and more energy efficient than silicon.
Gifts to Campaign Georgia Tech may be in the form of cash, securities, real estate, or personal property. In addition to outright gifts, donors are encouraged to consider multi-year pledges, generally over a five-year period, as well as planned gifts. Certain forms of planned gifts may not be applicable to meet immediate capital construction requirements.

Donors may participate through various life income agreements including charitable remainder trusts and charitable gift annuities. Charitable lead trusts, paying income to the Georgia Tech Foundation for a specified term of years, may be credited. Testamentary gifts in the form of documented bequest provisions and life insurance may also qualify for Campaign participation depending on the age(s) of the donor(s) or the insured. Certain deferred gifts may be discounted to present value in accordance with Campaign accounting guidelines.

All qualifying gifts and commitments to Georgia Tech and its associated foundation made between July 2004 and December 2015 are included in the Campaign. Gifts are deductible to the extent provided by law, and are subject to acceptance of the Institute or its associated foundation. Interested donors are encouraged to consult with their personal legal and financial advisors when contemplating a gift.

For more information about the Campaign or the form of a gift, please contact:

Director of Development, College of Sciences
Georgia Institute of Technology
Atlanta, GA 30332-0220
404.894.3529
CampaignGT@gatech.edu

www.development.gatech.edu
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