

FROM THE CHAIR...

It has been quite a year for the School of Chemistry and Biochemistry! We celebrated the department's centenary year, moved into a superb new building, graduated more students than ever before, established new academic programs, and saw the research portfolio expand into a diverse set of new areas. Phew, quite a list!

Beyond all these milestones and achievements it is important to recognize that it is the individuals who make up our departmental community which make it both an honor and a pleasure to serve as School Chair. The faculty and staff remain dedicated to providing exceptional opportunities to students, and the department continues to flourish through the successes and accomplishments of our talented group of undergraduates, graduate students, post-doctoral scholars and alumni.

It has been a particular joy over the last year to meet with a large number of alumni at our centenary celebration, the School's Homecoming activities and at other events. While I have only been at Tech for seven years, it always amazes me how alumni describe their own times at Tech with a mixture of extreme fondness and pride. And so it is driven home to me that while our students graduate and go on to great things, they remain a part of our campus community.

This "Bulletin" just scratches the surface of some of the activities in the School. I invite you to visit us on the web (www.chemistry.gatech.edu), or if you find yourself near North Avenue, why not stop in to see what's going on at the old trade school that now has the 12th largest Chemistry graduate program in the country!

I hope that this newsletter finds you in good health and good spirit.

With warm regards,



Thomas Orlando
School Chair

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A NEW MAJOR – BIOCHEMISTRY

Biochemistry continues to be an important and growing component of the School's activities. The name of the School was changed in the 1980's to include Biochemistry, and for a number of years we have offered an American Chemical Society certified B.S. degree option in Biochemistry. Now Tech students can complete a designated B.S. degree in Biochemistry. Approved by the Board of Regents, the first biochemistry graduates will march in the December 2007 commencement. The program is based on the recommendations of the American Society for Biochemistry and Molecular Biochemistry. This will be a popular major, and we have already seen great interest with a number of students transferring from other programs. It will serve as a strong foundation for graduate study, industrial positions, and careers in medicine.

ALUMNI.....***We want to hear from you!***

Share your news with the School community.

Please log on to:

www.chemistry.gatech.edu/alumni

Let us know where you are, give your recollections of Tech, or search for classmates.

CELEBRATING 100 YEARS OF CHEMISTRY

The School of Chemistry and Biochemistry welcomed a large number of alumni to campus in spring 2007 to celebrate the centenary of the department and to open the Molecular Science and Engineering building in grand style (see page 2 “Our New Home”).

Current students, staff, faculty and alumni attended a symposium with presentations by alumni speakers from across the generations, with talks covering new science, career paths, and reminiscences.

Speakers included a selection of B.S., M.S. and Ph.D. alums: **Anthony Arduengo** (Ph.D. 1976), **Paul Bailey** (Ph.D. 1993), **Clemens Burda** (Postdoc GT Chemistry), **Patricia Clark** (B.S. 1991), **Cora Lind** (Ph.D. 2001), **Jason Matthews** (PhD 1999), **William Miller** (B.S. 1963), **Bill Needle** (B.S. 1967), **Helen S. Rogers** (Ph.D. 1992), **George Shields** (Ph.D 1986), and the **Gupton brothers - Frank** (M.S. 1976), and **John** (M.S. 1969, Ph.D. 1975).

In addition to alumni, we were honored to host a number of retired faculty, including **Drury Caine**, **Ed Burgess**, **Sid Gordon**, **Tom Moran** and **Rick Browner**. **Don Royer** even flew in from Colorado in his self-built plane. We were also pleased to see **Don Lillie**, who many will remember was the glassblower in the School for a number of years, and **Garland Stewart**, our long-serving stockroom manager.

The reminisces of retired faculty **Erling Grovenstein** and **Nai Tang Yu** (who was visiting from Hong Kong) at a dinner event provided

contrasts between the Georgia Tech of today and yesteryear. However, it was clear that a universal high regard for the abilities and contributions of students has remained unchanged over the years.

A poster session and reception brought together alumni from across the generations. Faces spotted in the crowd include: **Lisa Hibbard**, **Curt Sayre**, **Heather Bean**, **Rob Geiger**, **James Hobbs**, **Meg Spencer**, **Nancy Kirk**, **Marcia Kinstler**, **Rochelle Fisher Bradford**, **Martin Cherrier**, **Dan Dixon**, **John Dixon**, **Billy Jones**, **John Porter**, and **Jeff Appling**.

(Editor’s note: I am sure we missed someone from this list – it was a tremendous success and wonderful to meet everyone who could attend!)

(Left to right) Cora Lind, Frank Gupton, Thom Orlando, Anthony Arduengo, and John Gupton with the Rambling Wreck at the 100 years celebration.



OUR NEW HOME

With the opening of the new Molecular Science and Engineering Building (photo on p3), the School has completed its transition to the \$160M “BEM (Biological, Environmental and Molecules) complex” on the northern side of the campus at the corner of Ferst Drive and Atlantic Drive. In addition to the Molecular Science and Engineering Building, the complex includes the Institute for Bioengineering and Biosciences (opened in 1999) and the Environmental Science and Technology Building (opened in 2002). The new building is

furnished with superb laboratory and office space, and state-of -the-art classrooms and conferencing facilities. The Chemistry and Biochemistry main office is on the second floor, and the well-equipped NMR facility occupies space in the basement. The complex includes a café, wide-open atria and pleasantly landscaped courtyards. After the phased transition into the complex, it is good to have the School largely in contiguous space once again, especially in a setting that fosters such close ties with related disciplines such as Chemical and

Biomolecular Engineering, Biology, Biomedical Engineering and Earth and Atmospheric Sciences.

For those of you with fond memories of the Boggs Building, fear not – we will still occupy the second floor, which has been renovated to house our lab classes (organic, inorganic, biochemistry, analytical). Other space will remain for researchers associated with key programs. It will also provide some much-needed expansion space for nuclear engineering, physics and biology. The School also occupies space in the “Chem Annex” beneath the College of Computing (site of our general chemistry labs).



AN INDUSTRIAL-STRENGTH SPRING BREAK

Undergraduate chemistry students **James Turnbull, Pratiq Patel, Patrick Chesley, Alexandria Joi Pearson, Victoria Meliopoulos, Yue Liang, Maria Victoria Vasquez, and Dustin Hipp**, together with graduate student **Mike Salvitti**, continued their studies through spring break as part of a group from Tech who toured the facilities of leading pharmaceutical plants in Puerto Rico. The U.S. commonwealth is one of the top sites in the world for pharmaceutical manufacturing, and the island generates a quarter of its gross domestic product from the industry. As part of a semester-long course on pharmaceuticals, the trip allowed students to meet with industrial chemists, pharmacists and engineers to gain a unique perspective on the industry that cannot be found on any university campus. In total, 24 undergraduate and graduate students, accompanied by Drs. Mark Prausnitz and Andy Bommarius, Professors of Chemical and Biomolecular Engineering and Directors of Georgia Tech’s Center for Drug Design, Development and Delivery (CD4) visited manufacturing facilities for pharmaceutical giants such as Amgen, Eli Lilly, Johnson & Johnson, Merck, Pfizer, and Wyeth. The Georgia Tech group was greeted by top management and escorted by the plant designers and operators who manufacture insulin, birth control pills and patches, antibiotics, antidepressants, and cholesterol-reducing drugs.

Prausnitz and Bommarius believe that by introducing the broad scope of

the industry in the classroom, learning and applying the science that supports the industry in Georgia Tech labs, and then allowing students to observe applications of problem solving first-hand at the Puerto Rican plants, creates a truly comprehensive overview.

“As a component of the pharmaceutical training program at Georgia Tech, this trip gave students a first-hand understanding of the complex processes needed to make drugs and the innovative solutions the pharmaceutical industry has developed,” stated Prausnitz. Students “were able to learn the nuts and bolts of pharmaceutical manufacturing and also absorb cultural nuances about how to work with designers and plant workers in an increasingly international industry” Bommarius added.

Student participation in this activity was supported in part through the generosity of the alumni of the School of Chemistry and Biochemistry by their donations to the *Student Initiatives Fund* (page 8).



UNDERGRADUATE RESEARCH

A number of new initiatives on campus are aimed at increasing the participation of undergraduates in the research enterprise. Chemistry and Biochemistry has always enjoyed a high participation rate, and we have recently approved a *research thesis option* of the B.S. degree. A student completes three semesters of research and presents a thesis to the faculty to receive this recognition on the degree.

In addition to completion of undergraduate research for credit, we are pleased to be able to provide *Research Initiation Awards* to undergraduates through the generous contributions of alumni and corporate/foundation donors to the *Student Initiatives Fund* (page 8), as well as the Institute's *Presidential Undergraduate Research Awards (PURA)*. Recent recipients (listed with faculty mentor and project title) include:

School Undergraduate Research Initiation Awards

Yue Liang (Prof. Bommarius), Structure-Function Studies of the Phototoxicity of Red Fluorescent Proteins

Mikhail Akbashev (Prof. Fahrni), Synthesis and Characterization of Donor-Acceptor Substituted Biphenyl Fluorophores

Utang Ekpo (Prof. Oyelere), Periplasmic Protein Secretion Pathways and Effects of Small Biological Active Molecules on Key Beta Lactam Intracellular Targets

Quaovi Sodji (Prof. Oyelere), Design and Synthesis of Estrogen-Responsive Histone Deacetylase Inhibitors for Breast Cancer Therapy

Nicole Fay (Prof. Payne), Visualizing Transcytosis through Targeted Delivery of Quantum Dots

PURA recipients

Geoff Rollins (Prof. Harvey), The Role of Twist in Bacteriophage Genome Packaging

Aneese Chaudhry (Prof. Fahrni), Excited State Intramolecular Proton Transfer in 2-(2-Arylsulfonamidophenyl)benzimidazole Derivatives: The Substituent Effect of Arylsulfonamide on Photophysical Parameters and Protonation Equilibria

Crystal Fagan (Prof. Powers), The Design, Synthesis and Evaluation of Potential Therapeutic Agents for Parasitic Diseases

Nicole Fay (Prof. Payne), Visualizing Transcytosis through Targeted Delivery of Quantum Dots

Rachel Givens (Prof. El-Sayed), Investigation of the Effect of the Concentration of Capping Material on the Catalytic Activity of Gold Nanoparticles

Ari Gordin (Prof. Soper), Characterization of Quinone-Based Rhenium Oxide Complexes For Use in Photosystem II Inspired Solar-to-Fuel Conversion

Thao Le (Prof. Powers), The Design, Synthesis Of Calpain Inhibitors For Treatment Of Peripheral Neuropathy

Celia Vullo (Prof. Kelly), Improvement of Indanomycin Production in *Streptomyces antibioticus* NRRL 8167

Alexander Wang (Prof. Lyon), Synthesis of Core/Shell Microgels with Specific Matrix Metalloproteinase dependent Folate Display

Recent Papers with Undergraduate Coauthors

“Charge Transport Parameters of the Pentathienoacene Crystal”, E.G. Kim, V. Coropceanu, N. Gruhn, R.S. Sanchez-Carrera, **R. Snoberger**, A. Matzger, J.L. Brédas, *Journal of the American Chemical Society* **2007**, *129*, 13072.

"Dynamics of swelling/ contracting hard spheres surmised by an irreversible Langevin equation," A.V. Popov, **J. Melvin**, R. Hernandez *Journal of Physical Chemistry. A*, **2006**, *110*, 1635.

“Stacked Conjugated Oligomers as Molecular Models to Examine Interchain Interactions in Conjugated Materials”, K.M. Knoblock, **C.J. Silvestri**, D.M. Collard, *Journal of the American Chemical Society* **2006**, *128*, 13680.

“A Beta Microirradiator”, **J. Summerour**, Y. Chen, M. Josowicz, T.M. Orlando, J. Janata, A. Paulenova *Radiation Physics and Chemistry* **2006**, *75*, 369.

“Label-free Detection of DNA Hybridization by Cyclic Voltammetry: An advanced Undergraduate Analytical Chemistry Laboratory Experiment”, **T. Aiyejorun**, J. Kowalik, Janusz, J. Janata, M. Josowicz, *Journal of Chemical Education*. **2006**, *83*, 1208.

“Imaging of the Intracellular topography of copper with a fluorescent sensor and by synchrotron x-ray fluorescence microcopy”, L. Yang, R. McRae, M.M. Henary, **R. Patel**, B. Lai, S. Vogt, C.J. Fahrni, *Proceedings of the National Academy of Sciences* **2005**, *102*, 11179.

“Prevalence of chemical defenses in freshwater macrophytes”, A.C. Prusak, **J. O’Neal**, J. Kubanek, *Journal of Chemical Ecology* **2005**, *31*, 1145.

“A Modular Approach toward Block Copolymers,” M.N. Higley, J.M. Pollino, **E. Hollebeak**, M. Weck, *Chemistry: A European Journal* **2005**, *11*, 2946.

ALUMNI NEWS

US Representative **Phil Gingrey** (B.S.1965) has been appointed as ranking member on the technology and innovation subcommittee of the House Science and Technology Committee. The subcommittee handles a wide range of issues ranging from US technological competitiveness to research and development programs at the Department of Homeland Security, research at the Department of Transportation, and the transfer of select military technologies to the civilian sector. Quoted in the *Paulding Neighbor* newspaper, Gingrey reported “ever since my days as a Chemistry major at Georgia Tech, I’ve had a keen interest in science, technology, and how to make our nation a global leader in both. Technology touches every part of our lives, from the lights in your house to the military weapons protecting our nation. Innovation is critical to keeping the US competitive. Exciting advances are being made every day, and I look forward to examining how we can keep America at the forefront of these industries.”

The *Atlanta Journal-Constitution* recently profiled **Danny Strickland**, B.S. 1970, in the “People in Business” section. Strickland is chief innovation and technology officer with Coca-Cola. In a question and answer article with journalist Duane D. Stanford, Strickland discussed various aspects of research, development and innovation at the soft-drink manufacturer.

Biochemist **Bahareh Azizi**, Ph.D. 2005, can add a new experience to her resume – TV star! She was a presenter for a pilot show “Science Investigators” shown nationally on PBS. Explaining nature and the science behind new technologies, the show took co-presenters all over the world. Stay tuned for more updates!



Syed Naseeruddin, B.S. 1986, reports that he has finished a Family Medicine residency through Dartmouth Medical Schools Rural site in Maine and has now embarked on a Sports Medicine Fellowship with Allegheny General Hospital in Pittsburgh, PA. He graduated from the Medical College of Georgia and had also served in the US Air Force for 5 years during Operation Desert Storm prior to resuming graduate medical education in 2003. He made a trip back to Tech for his 20-year homecoming to witness Tech beat Miami!

Katie Filaski, B.S. 2003, is part of a team from Vasotech, a San Francisco-based biotechnology company, that won the Global Life Science Innovation Competition. The company makes small grafts used in vascular surgery. The tiny grafts act like healthy vessels, and have a low risk of thrombosis which often hampers the use of other man-made grafts. Vasotech plans to focus initially on the needs of patients with peripheral vascular disease.

Katie Saliba, B.S. 2001, kept busy as an undergraduate as founder and president of the Speech and Debate Team, president and fundraising chair of the Mock Trial Team, and a member of the Executive Round Table. She entered the Ph.D. program at Cal Tech with a prestigious NSF Graduate Research Fellowship. She will present her Ph.D. thesis in February 2008

Faculty Round-up: From Tech Student to Professor

A sizable number of our graduates take faculty positions, at a wide variety of types of institution and in a diverse set of disciplines. A small selection of these includes:

Kevin D. Crawford, Ph.D. 1997, is an Associate Professor of Chemistry at The Citadel.

Jeffery Schwarz, B.S. 1995 (and Ph.D. from the University of Kentucky), is on the faculty of Cumberland College.

Jerome Kruger, B.S. 1948; M.S. 1949 (and Ph.D. from the University of Virginia), is Professor Emeritus of Materials Science and Engineering at Johns Hopkins.

Mark O. Lively, B.S. 1975, Ph.D. 1978, is Professor of Biochemistry at Wake Forest University School of Medicine.

Lynn Bryan, B.S. 1986 (and Ph.D. from Purdue), is Associate Professor of Physics at Purdue University.

Henry A. Kurtz, B.S. 1972 (and Ph.D. from the University of Florida), is Dean of the College of Arts & Sciences at the University of Memphis.

Caron H. St. John, B.S. 1976, is Professor of Management and Director of the Spiro Center at Clemson University.

Mark E. Denham, B.S. 1973, is Associate Professor of Political Science and advisor for undergraduates in the International Relations program at the University of Toledo.

Patricia Clark, B.S. 1991 (and Ph.D. from University of Texas Southwestern Medical Center at Dallas), is on the faculty of the University of Notre Dame.

STUDENT NEWS

Catherine Silvestri, an undergraduate chemistry major, was one of five recipients of the Institute's Outstanding Undergraduate Research Award, presented in recognition of her research with Professors David Collard and Facundo Fernandez. Working with graduate student **Kurt Knoblock** in the Collard research group, Catherine studied model compounds to explore how certain plastics conduct electricity. She presented this work at conferences, and appeared as a coauthor on a recent publication in the *Journal of the American Chemical Society*. Catherine is continuing undergraduate research in the group of Facundo Fernandez, working on new mass spectrometry techniques.



Two Tech undergraduates recently spent time in far-flung regions of the world engaged in volunteer activities. **George Fulghum** traveled to Niger, to work in a hospital that serves eight villages and is vital to the physical and spiritual health of people in the region. **Julie Camba** (below) spent summer 2006 in Peru as a volunteer in a health clinic. Julie graduated in Fall 2006 with her B.S. in Chemistry and plans to attend medical school in the coming months.



The **Georgia Tech Women in Chemistry Committee** was awarded the ACS Stanley C. Israel Regional Award for Advancing Diversity in the Chemical Sciences. This is a tremendous recognition of the efforts of a large number of individuals in the School (and beyond). Graduate student **Ashley Ringer** (the 2006 committee chair) was notified of the award, which was collected by **Shannon Watt** (past-chair) at the Southeastern Regional Meeting of the ACS.

Other awards to graduate students include:

Leonard Nyadong (Fernandez group) is the recipient of a \$25,000 United States Pharmacopeia Fellowship.

Sigifredo Sanchez-Carrera (Bredas group) won the CCG Excellence Award.

Gary Dobbs (Mizaikoff group) was awarded the Society for Applied Spectroscopy (SAS) Graduate Student Award

Christina Hampton (Fernandez group) has received a travel award to attend the 2007 ASMS Fall Workshop in Philadelphia, and also a Pfizer travel award to present her work at Pittcon 2008.

Shannon Watt (Collard group) and **Crissie Bauer** (Perry and Tolbert groups) both won \$200,000 Discovery Corps Post-doctoral Fellowships from the National Science Foundation

Clint South (Weck group) won an American Chemical Society Organic Division fellowship.

DEPARTMENTAL STUDENT AWARDS

Undergraduate Analytical Chemistry Award

Kristen Johnson

Chemical Rubber Company Award in Freshman Chemistry

Kenneth Taylor

Katie Ryder

W.M. Spicer Scholarship in Chemistry

Yue Liang

Rachel Givens

Peter B. Sherry Memorial Scholarship

Ignacio Becerra-Licha

Merck Index Award

Quaovi Sodji

Richard W. Fink Memorial Scholarship

Mikhail Akbashev

Hypercube Scholar Award

Geoff Rollins

Graduate Student Research Symposium Awardees

Prashant Jain

Clint South

Avik Ghosh

Berhane Temelso

Outstanding Teaching Assistant Awards

Derrick Watkins

Hyungie Doo

Ashley Tucker

Elizabeth Stout

WELCOME TO...

We wish a warm welcome to **Raquel Lieberman** (biochemistry) and **Stephan France** (organic) who join us as new Assistant Professors, **Paul Houston** (physical chemistry, and new Dean of the College of Sciences), and **Charlie Cox**, who joins us as Assistant Director of General Chemistry.



THE LOSS OF A FRIEND

We are saddened to pass along news of the death of **Dr. Cherry Emerson** on Sunday, April 29. He was 90. Emerson was the grandson of the William Henry Emerson, the very first professor of chemistry at Georgia Tech who later became Dean of Faculty. While Cherry did not attend Tech, he made important contributions in memory of his grandfather. The William Henry Emerson Endowment Fund provides fellowship support that helps us to attract top-notch students to our graduate program. In addition, the Cherry Emerson Fund supports a continuing departmental seminar series.

YOU'RE INVITED! HOMECOMING 2008

Based on feedback from you regarding visits to the School for homecoming in 2007, we invite all alumni to visit us during the same event in 2008 (dates *tba* by the Athletic Association)

Friday

2:00-3:00 p.m. - Welcome and Departmental Tour
(Molecular Science and Engineering Building, 2nd Floor atrium)

3:00-5:00 p.m. - Graduate Awards Symposium
(Molecular Science and Engineering Building, room G 011)

5:00-6:30 p.m. - Reception and Undergraduate Poster Session
(Molecular Science and Engineering Building, 2nd floor atrium)

Saturday

2 hours before game - Alumni and Student Pre-game* Tailgating
(Outside 1st Floor of Molecular Science and Engineering Building)

*Tickets will be available at: <http://www.gatech.edu> (click on "Tickets & Merchandise" in the left menu)

If you are interested in joining in on the Chemistry and Biochemistry events, please RSVP to:
shirley.tomes@chemistry.gatech.edu

NEW GRADUATES

Congratulations to the following new graduates!

2006-7 Bachelors Degree

Recipients

Raymond Alexander
Benjamin Bachman
Patrick Chesley
Joe Chiles
Andrew Conley
Amanda Cooper
Jennifer Gaines
Rhoda Gao
Samuel Garvey
Elizabeth-Ann Gould
Jeffrey Hart
Lauren Hayden
Ryan Hayn
Steven Heitner
Kristin Johnson
Anja Lesaja
Ian Lumsden
Victoria Meliopoulos
Todd Murphy
John Nevin
George Pan
Jessica Park
Pratiq Patel
Julie Roberge
Geoffrey Rollins
Catherine Silvestri
Linh Son
Derek Stuck
Tatsuro Tanioka
Cathy Tran
Maria Vasquez
Christopher Vaughns
Celia Vullo
Daniel Warren
Jason Wells
Ryan West
John Williams
Diana Williams

2006-7 Masters Degree

Recipients

Laura Clapp
Yisheng Lin
LaKeisha McClary
PaDreyia Raspberry Lawson
Alicia Williams
Guseul Yun
Alex Jonke
Amidat Acklin
Kristin Wittich
Mary Higley
Benison Forfeke
Michael Chambers
Jeremy Granger
Richard Jones
Artrease Spann
Otonye Braide
Sermpun Lhamlhak
Kewei Xu

2006-7 Doctoral Degree

Recipients

Yasuko Antoku
Jonathan McGrath
Berhane Temelso
Jeremy Moix
Kristi Burns
Warren Gerhardt
Jongseong Kim
Christopher Lane
Tracey Thaler
Jonas Jarvholm
Zhen Zhou
Susnata Samanta
Nicola Menegazzo
Takeshi Kondo
Tumpa Sarkar
Yanping Qin
Cameron Thomson
Avik Ghosh
Veronica DeSilva
Shuting Wei
William Sommer
Wenyu Huang
Yu Li
Prolay Das
Gary Dobbs
Ejae John
Paul Salo
John Sears
Shannon Watt
Terry Watt
Yonggang Wu

This is the first year of our *Thesis Option* in the B.S. program and two of our new B.S. graduates deserve special recognition as being the first to graduate under this plan: **Kristin Johnson**, who worked with Professor Facundo Fernandez; and **Christopher Vaughns** who performed research with Professor Uwe Bunz.

THE STUDENT INITIATIVES FUND A BIG THANK YOU!

The School's administration partners with the American Chemical Society Student Affiliates chapter and the Graduate Student Forum to provide a series of professional development activities and recognitions. These include:

- Seminars by alumni and others to provide students with perspectives on career opportunities
- Promotion of social interactions between students, staff, and faculty
- Research initiation awards for undergraduates (page 4)
- Travel funds to allow undergraduates to attend scientific conferences
- Support for students to participate in field trips (page 3, "An Industrial-Strength Spring Break")
- Recognition of superior academic performance through the presentation of an annual award to top undergraduates and graduate students
- Recognition of outstanding contributions of teaching assistants (page 6)

While the State and external agencies support curriculum and research activities, student-oriented enhancement programs like these rely on private contributions. We are currently seeking contributions to the *Student Initiative Fund*, which are used entirely to support these programs, as well as initiatives to develop student-oriented seminar series and programs in support of diversity efforts.

The *Student Initiatives Fund* is supported through generous donations from alumni, faculty and staff of the School. Donations to the Georgia Tech Foundation towards the School of Chemistry and Biochemistry *Student Initiatives Fund* are tax-deductible.

We thank the following alumnae, retired faculty, and friends, for their generosity in making recent donations to the *Student Initiatives Fund*:

Tanya Mamantov
Joseph D. McDonald
Tina Masciangioli
Erling Grovenstein, Jr.
Elwood P. Blanchard
U. V. Henderson
Theresa Chamblee
Donald C. Kilby
James Fanning
Bruce T. Thompson
W J "Kip" Powers
Michael & Candace Rooney

James G. Davidson
Roberto Villanueva
Martin M. Griffin
Walter & Sandra Samaniego
David & Lisa Moody
Babak Nikoobakht
Sahar Javanmard
Jeffrey S. Hurley
Steve McLeod
Glenn & Birgit Nomura
James P. Cleveland
Robert & Marian Stevenson

Xiaoyong Michael Hong
Yin Li
Buice Family Fund
Frank & Mary Dobbs
Cora Lind
Lamar & Evelen Cason
Bing Liu
Jie Li
Robert & Carol Hill

Please consider making a contribution to the *Student Initiatives Fund*. If you wish to support these efforts, please go to www.chemistry.gatech.edu/alumni and click on the "Donate" link.