Second Tech professor elected to National Academy of Sciences

Regents’ Professor William L. Chameides, School of Earth and Atmospheric Sciences, last week was elected a member of the U.S. National Academy of Sciences—one of the highest honors bestowed upon a scientist. Membership is limited to those who have made extraordinary contributions to the advancement of science. Chameides joins Mostafa El-Sayed, School of Chemistry and Biochemistry, as the second Georgia Tech faculty member to be elected to the National Academy of Sciences. In addition, fourteen members of Tech’s faculty and administration are members of the National Academy of Engineers, including President Wayne Clough. (See box at left for a full list of Georgia Tech members in both organizations.)

“I am, of course, very honored and thrilled, but also indebted and grateful to my colleagues who have contributed so much to my success,” said Chameides. Author or co-author of more than 80 scientific publications, Chameides has focused his research efforts on atmospheric chemistry, with emphasis on global biogeochemical cycles, biospheric/atmospheric interactions, air pollution, global change, and urbanization.

“This is an extremely proud day for Dr. Chameides, and an important milestone for Georgia Tech and our science programs,” said Dr. Gary Schuster, dean of the College of Sciences. “This is one of the highest honors afforded anyone in higher education. It is indicative of the caliber of teacher we have in the sciences at Tech and will help us continue to attract quality students and quality faculty to the Institute.”

One of Chameides’ primary interests has been understanding tropospheric ozone, or ground-level ozone, one of the most common secondary air pollutants in the lower atmosphere. Ground-level ozone pollution can cause various health problems and aggravate existing respiratory conditions, as well as damage crops and other plants. Chameides’ research has focused on understanding the processes that foster ozone pollution in urban and rural environments, and identifying strategies to control it.

Chameides currently plays a lead role in three research programs concerned with regional environmental change and strategies for sustainable economic development: the Southern Oxidants Study and its Southern Center for the Integrated Study of Secondary Air Pollutants, both focused on understanding the causes and remedies for ground-level ozone and fine particle pollution in the Southern United States; and CHINA-MAP, which studies the effects of environmental change on agriculture in China.

He also serves as chair of the Synthesis Team for the North American Research Strategy for Tropospheric Ozone (NARSTO), a group of Canadian, Mexican, and U.S. scientists charged with writing the 1998 Assessment Document for the North American Research Strategy for Tropospheric Ozone; and the National Research Council’s Committee on Ozone Forming Potential of Reformulated Gasoline, which is addressing the environmental effects of ethanol and other oxygenates in reformulated gasoline.

The National Academy of Sciences is a private, non-profit organization of distinguished scientists and engineers dedicated to the progress and use of science and technology. Chameides is one of 60 new members and 15 foreign associates elected this time, bringing the total number of current active members to 1,798.

More information on Chameides and his research is available on the Web, at www-wlc.eas.gatech.edu. For additional information about the National Academy of Sciences, see www.nas.edu.

All that jazz, and more: Turtle Island performs for Arts in the Village

As part of the month-long celebration of Georgia Tech’s Arts in the Village, Turtle Island String Quartet performs an eclectic blend of classical, jazz, bluegrass and pop May 8 at 8 p.m., Robert Frist Center for the Arts.

Since their Windham Hill Jazz recording debut in 1988, the group has released nine recordings and a motion picture soundtrack on the label. The most recent, “Turtle Island String Quartet, A Windham Hill Retrospective,” released last year, captures the best selections from previous recordings. The artists also have been featured on numerous television shows and National Public Radio programs, such as the “Today Show,” “Sunday Morning,” “All Things Considered” and “Prairie Home Companion.”

When not performing, the quartet leads a string improvisation workshop at the University of Massachusetts/Amherst each summer which draws students from around the world. The group’s publishing company provides scores for ensembles in high schools and colleges, and the members also teach workshops and master classes in conjunction with their international touring.

Tickets are $15 for the public and $10 for faculty, staff and students. Arts in the Village continues through May 21. For more information, call 404-894-9000.
Doors open, ribbon cut at Tech's newest center

Georgia Tech has seen a steady increase in the number of women students admitted since the first two females enrolled in 1952. Women now make up nearly 30 percent of the student population at Tech, and last year, more female engineers received degrees from Tech than any other college in the country. To ensure that women students continue to feel accepted and welcomed on Tech’s predominately male campus, the Women’s Resource Center has been established and is now open, located in the Student Services Building, room 217.

“Even though Georgia Tech provides an inclusive and supportive campus environment for women, we wanted to create a space for Georgia Tech women to enable them to build a strong community among themselves,” said Vicky Pickens, a graduate student in Industrial Design Technology, who was instrumental in the Center’s creation. Pickens shared ribbon-cutting honors with President Wayne Clough at the official opening of the Center on April 23.

Officials and students hope the academic performance and personal development of Tech’s women students will be enhanced through events sponsored by the Center, and information on women’s issues available at the Center. It will support Georgia Tech’s efforts to recruit, retain and graduate more women and assist with annual events such as the Women’s Leadership Conference and Women’s Awareness Week, as well as ongoing efforts such as the Sexual Assault Task Force. Providing access to information on women’s issues such as health, safety, career opportunities, education, history and leadership is one of the Center’s primary goals.

“The Center will house an extensive library of books, magazines, audio and videotapes on various topics of interest to women,” said Rachael Jackson, the Center’s coordinator. “We also will try to strengthen ties with Tech alumnae to promote mentoring and networking between female graduates and women enrolled on campus now who are following in their footsteps,” she said.

For more information, contact Rachael Jackson, 404-385-0230, or womens.center@gatech.edu.

Cutting the ceremonial ribbon at the Women’s Resource Center (from left): President Wayne Clough; Rachael Jackson, coordinator for the Center; Gail DiSabatino, dean of students; Stephanie Ray, associate dean of students; Lee Wilcox, vice president, student affairs; and graduate student Vicky Pickens.

As part of Women’s Awareness Week, Georgia Tech participated in the Clothesline Project, a symbolic, international effort that invites families and friends of women who have been victimized to make a shirt to express their feelings. The project began in 1990 when members of the Cape Cod Women’s Agenda hung a clothesline across the village green in Hyannis, Mass., with 31 shirts designed by survivors of assault, rape, and incest. Women viewing the clothesline came forward to create shirts of their own and the line kept growing. The effort has grown to more than 300 Clothesline Projects internationally, with an estimated 35,000 shirts. Similar to the AIDS quilt, the project puts a face on the statistics of violence against women. The project increases awareness of the impact of violence against women and celebrates a woman’s strength to survive.

Georgia Tech

The Whistle

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Campus AIDS walk

A campus AIDS walk will be held May 9 in conjunction with a display of a portion of the Project AIDS Memorial Quilt. The quilt is to be shown by the NAMES Project Foundation in the Burger Bowl from 10 a.m. to 4 p.m. There also will be a theater performance, “Secrets,” by Kaiser Permanente’s Educational Theater Program, in Under the Couch starting at 4 p.m.

The NAMES Project seeks to remember the names of people who died of AIDS and its related diseases. The names of college students, parents, lovers, spouses, and children are embroidered, painted, or somehow permanently placed on quilt squares and arranged in 12-by-12-foot blocks. There are currently more than 5,000 of these blocks, each block containing eight individual panels. The purpose of the project and the AIDS Memorial Quilt is to help bring an end to AIDS; each day the quilt serves as a public reminder that the battle has not been won.

The Ideas & Issues Committee is sponsoring the AIDS walk and auxiliary activities. The walk will begin at 10 a.m. at the Student Center. Those interested can register in the Student Center. A minimal donation is requested. For more information, call 894-2805 or see http://www.aidsquilt.org on the Web.

Blueprint captures gold

The staff of Blueprint 1997, Georgia Tech’s yearbook, won a Gold Crown Award for Overall Excellence in yearbook production. The Columbia Scholastic Press Association (CSPA) presented only six Gold Crown Awards from 520 yearbook entries.

“This is the big one, the most prestigious award given in college journalism,” said RoseMary Wells, publications manager of Student Publications. “I’m proud of my students, and I am so pleased that the Blueprint staff members are being recognized.”

Last year, the Blueprint staff brought home a Silver Crown Award its first time enter the competition. This year, Tech traded silver for gold and was the only university without a school of journalism to win a Gold Crown Award. Blueprint Editor Zibaa Sammander is a computer science major, and the Blueprint staff members come from various disciplines including international affairs, chemical engineering, discrete mathematics, electrical and computer engineering, chemistry, mechanical engineering, civil and environmental engineering, industrial engineering and biology. "Winning this journalism award indicates that Tech students are more well rounded than one might expect to find at a technological university,” Wells said.
Barrett H. Carson, associate vice president for Development, answers questions about The Campaign for Georgia Tech.

Q. This is our second major university campaign, but is it our first in a decentralized model. How is it working?

Quite well. The school-based fund-raising efforts have taken hold and we are seeing a lot of activity from the various advisory boards, volunteers, school chairs, and deans, accompanied by their respective development officers. It's a model that works in a university environment and it's working well here at Tech.

Q. How do the regional campaign efforts fold in?

Simultaneous with our movement to college and school-based development officers, regional major gift officers are being deployed to cover primary areas of the country. These areas include: Pacific Northwest; Northern California; Southern California; Texas; Chicago and the Midwest; the Northeast; the Mid Atlantic; the Carolinas; and Florida. Many of the areas have regional development councils which involve leading alumni.

Q. Does it seem to be working?

Definitely, although we've had a fine tune a bit in the process. We initially thought that regional development officers could also do double duty as corporate giving officers in their regions. That didn't prove effective. As a result, regional staff now focus their efforts almost exclusively on alumni within their respective geographic areas. A successful example is Charlotte, N.C., which has already exceeded our expectations—and there's still some three years to go. We have reconstituted the corporate relations office in Central Development, and it shares responsibility with the school based officers for corporate relations.

Q. How do Roll Call and the Alexander-Tharpe Fund fit into The Campaign?

Both Roll Call and A-T are integral to The Campaign for Georgia Tech. The Campaign is a comprehensive campaign, embracing current operations—the primary focus of both Roll Call and A-T—as well as the capital side, including endowment, facilities, and equipment.

Q. So gifts to Roll Call and A-T count?

Absolutely—all gifts and commitments made from July 1995 through December 2000 accrue to The Campaign.

Q. With so many solicitation efforts underway, how do you keep it sorted?

Good question and a classic management challenge. We basically involve all fundraising entities—Roll Call, A-T, colleges and schools, corporate relations, foundation relations, planned giving, regions, reunion giving; you name it—in a solicitation clearance and tracking process to ensure that we have advance knowledge about planned initiatives. When we see "intersections," we get together quickly to determine the appropriate protocol.

Q. Does it work?

The cooperation has been quite effective and while it is certainly short of perfect, I wouldn't change a thing. At any given point in time, we are monitoring as many as 400 initiatives.

Editor's note: Campaign Corner is written by Sarah Banick, Georgia Tech's primary writer for The Capital Campaign. Questions and comments concerning The Campaign may be directed to Banick at 894-6502 or sarah.banick@gpoa.gatech.edu.

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**GTRI launches on-line technical journal**

The Georgia Tech Research Institute (GTRI) has launched its first Web-based technical journal, "The Journal of Technology," The journal, part of GTRI's home page at www.gtri.gatech.edu/jot/, is targeted to scientists, engineers and research sponsors. It will be updated quarterly.

"The Journal of Technology" is a more scholarly presentation of the work of our research personnel than found in "Research Horizons," a magazine for Georgia Tech's entire research community," said Edward K. Reedy, GTRI's vice president and director. "Besides being a practical communication of our research work, this new journal is an effort to test and develop new ways to communicate knowledge by electronic means rather than printed paper."

"Whereas most technical journals are highly specialized in content, "The Journal of Technology" will showcase the broad gamut of research in GTRI, ranging from information technology to defense electronics and simulation to materials and manufacturing.

Articles in the first edition include:

- Development of Pneumatic Aerodynamic Concepts for Control of Lift, Drag and Moments plus Lateral/Directional Stability of Automotive Vehicles,
- a research program evaluating a pneumatic concept for improving aerodynamic problems of automobiles.

- "Automating Information Exchange Between Self-Describing Databases," a look at the development of a tool that allows two different databases to exchange information seamlessly. As a proof-of-concept, formatted messages from an Air Force system were identified, parsed, stored and rebuilt to conform to a Navy system format.


- "Modulation Transfer Function," how turbulence in the atmosphere affects optical imaging, which includes telescopes, military systems, and other tracking and pointing systems.

The publication features both abstracts and full text of articles along with photographs, charts and illustrations. Authors' biographical information and e-mail addresses are provided along with links to the home pages of their respective laboratories.

Planned for future editions is an archival database that would allow readers to search for past papers, relevant commentary and connected material.

"It's been challenging to produce a technical publication in a Web format. In spite of recent improvements in Web authoring software, conversion of equations, halftone images and line drawing from diverse word processor files is still cumbersome," said Henry Paris, editor of the new journal and associate director of GTRI's Electro-Optics, Environment and Materials Lab.

Yet Paris notes that the interactive possibilities of the new technical journal are particularly exciting: "It's an opportunity to explore entirely new ways of creating and accessing written information and ideas." For years, publishing in the scientific community has been a highly formalized process requiring lengthy review and approval, he explained. Although this system ensures a high degree of accuracy, it also has a major drawback—by the time ideas finally hit the public forum, it might be two or more years from when they were first put on paper, he said.

The Internet could revolutionize technical publishing by balancing accuracy with timeliness. Paris envisions technical articles being published and reviewed online with reviewers' comments available to readers, who might even be the reviewers themselves.

"Sometimes the formal review process can enforce the perceptions of reviewers and suppress novel or controversial ideas," said Paris. "Treating the technical article as a 'work-in-progress' by preserving an article's evolution through the review process would provide greater synergy of content and critique."
May 5
International Food Fair, 11:30 a.m. - 1 p.m. 1st and 2nd floor, Student Center, S4.

May 6
Cultural displays, 10 a.m. - 3 p.m., 1st and 2nd floor, Student Center.

May 7

May 7
Turkish Culture Break, 3 - 5 p.m., Student Services, Rm. 117.

Live Turkish Band Under the Stars, 7:30 - 11:30 p.m., Campusite Amphitheater (Student Center if rain).

May 8
Turtle Island String Quartet. Internationally-acclaimed string quartet performs their eclectic blend of classical, jazz, bluegrass and pop. $15 public, $10 faculty, staff, students. Call 894-9600.

International film "Prisoner of the Mountains" (Russia) 7 p.m., Student Center Theatre.

International film "Shanghai Triad" (China), 9:30 p.m., Student Center Theatre.

May 9
Cultural Performance Night, 8 - 10 p.m., Robert Ferst Theater. Free. Call 894-7475.

Brown Bags/Lectures
May 6
Woodruff Seminar Series, "Constitute Modeling of Charged-Hydrated Biological Tissues and Cells," by Professor Van Mors, Columbia University, 3:30 - 4:30 p.m., MRDC, Rm. 4211. Contact Robert Goldberg, 894-6589, or robert.goldberg@me.gatech.edu.

For sale: 2 BR, 1 1/2 BA townhouse in Douglasville, 3 miles from 75/Solomon st, new stove and dishwasher, washer/dryer hookups. Open floor plan downstairs, large master closets, $440, 750. Call 800-794-0851.

For rent: room w/ cable, washer/dryer, $150 deposit, $350/mo. Near MARTA, E. Atlanta Shopping Villa crossing Glenwood and Moreland. No smoking or overnight guests. Rent includes all utilities plus one month deposit, $350/mo. Contact F. Kelly, 404-525-5810, 4 - 10 p.m. or 894-0588, 6:30 a.m. - 3 p.m.

Wanted: House to rent, for my family. N. DeKalb area, preferably Doraville/Chamblee. Quiet area w/ dog, cat, Smyrna/Vinings. Sitting area, $625/mo incl. utils plus 1 mo. deposit. Call Vicki, 894-9564, or eves. 770-434-6738.


Scaini wedding gown by Aya Fromy, size 10. Worn once. Price negotiable. Contact Vivian Chandler, vivian.chandler@atdc.gatech.edu or 894-6904 (day), 700-639-6120 after 5 p.m.

Original Bob Marley T-Shirts. 4-6 different prints. Authentic license products. Contact cm132@prism.gatech.edu or Lee, 770-455-8117.

Armoire w/ two types of inlaid wood. Great condition. Paid $975, will take $850. Must sell! Contact Fred carman@vpea.gatech.edu.

1993 Nissan Maxima, 4 dr, dk grey, automatic, ps, power moonroof, windows and locks, original owner, 124K miles, $6,700 OBO. Call 770-888-4068 after 3 pm or e-mail fred.stewart@vpea.gatech.edu.

1991 Mitsubishi Eclipse GS. Black, 2-speed, 16-valve, AC, ps, pw, windows and locks, CD player, aluminum alloy wheels, new tires, new clutch, $4,995. Call 770-528-7564 or e-mail thomas.perry@vpea.gatech.edu.

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