Search Is Beginning For Associate Vice President For Facilities

Executive Assistant to President John E. Crecine and Vice President for Strategic Planning Joseph E. "Tim" Gilmour is chairing a search committee for the position of Associate Vice President for Facilities.

Gilmour says this search will be fast paced and nationwide. He believes Tech can attract a strong person for this position "due to Atlanta receiving the bid for the 1996 Summer Olympics and the special challenges our urban campus provides."

"The reason for creating this position is two-fold—first, to bring Plant Operations and Facilities Design and Construction under one head," Gilmour says. "Secondly, this person will be brought in to provide leadership for the Olympics' design and construction efforts at Tech."

Search committee members include: Gilmour, Dr. Dick Fuller, vice president for Operations; Carol Gardiner, administrative coordinator, vice president for Strategic Planning (Facilities); Rufus Hughes, associate dean, College of Architecture; Robert Jackson, manager, Castodial Services; Dr. Linda Martinson, vice president for Planning, Budget and Finance; James Price, director of Plant Operations; and Dr. Ward Winer, director of the George W. Woodruff School of Mechanical Engineering.

The text of the ad is below:

"This new executive position requires a person with outstanding facilities planning and management skills, keen foresight and creativity, and the enthusiasm and energy to build a truly outstanding facilities program at Georgia Tech. The Associate Vice President will have overall responsibility for managing a full-service plant operations division and the campus facilities design and construction office. A major immediate challenge is preparing the campus facilities for service as the Olympic Village of the 1996 Summer Olympics. This will involve the development of a campus master plan, which will accommodate the needs of the Olympics and of Georgia Tech until 2010, and the design and construction of over $300 million in facilities on campus before 1996. Currently the units reporting to the Associate Vice President have budgets totaling $23 million, employ 415 persons, and maintain a campus of 330 acres with 135 major buildings containing 3.2 million square feet."

"Nominations and applications are sought from facilities planning See Facilities, page 3

Faculty Forum Focuses On Benefits Of Employing Postdoctoral Fellows

By Dr. Turgay Uzer
School of Physics

Tech needs an imaginative tax cut that will stimulate the business of research on campus and will propel us up among the majors. Here is the background.

I am a newcomer to the Tech faculty. As I survey the landscape of the institution and compare it with major research universities, I am particularly struck by the near-absence of one important layer of research professional: postdoctoral fellows. In my opinion, this is a major hindrance to our ascent to national and world prominence, and if nothing is done about it soon, Tech is about to miss a major opportunity to enhance its standing and reputation by a quantum leap.

Postdoctoral researchers are recent Ph.D.'s who, for a variety of reasons,

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feel the need for a few more years of apprenticeship in a research institution before they take up academic and/or industrial jobs. This description already shows the possibilities in hiring such people. They are young, dynamic and familiar with the most recent research techniques and accomplishments. They act as major agents in cross-fertilization, especially when they are from other countries. In short, a steady flow of them rejuvenates the institution, as well as raising its research capability. These journeyman-scientists are cost-effective too. Their salaries are modest compared with faculty, and because they are not overburdened with the non-research obligations of faculty, they can be much more effective in solving research problems. Major research groups in major research universities employ many such "academicians in the bud." It is from such people that many of us got a very useful part of our training when our advisor was too preoccupied.

And here is the opportunity of the decade. The gates of Russia are opening. A flood of very capable scientists and engineers from the second largest research community of the world will have the freedom to travel—if we can sponsor their stays. The arrival of this very capable manpower has already begun (mainly from recently liberated Eastern European countries). And Tech is about to miss out on this tremendous opportunity (as it did on employing postdoctorals in the past). The reason: short-sighted financial policy.

Let me be specific. Suppose I have been given a grant by the federal government to support my research. Tech takes a cut from this money (known as "overhead") because I use Tech facilities. For performing my work (by the way, the level of this taxation is outrageously high for what we get in return, and certainly much higher than at many more prestigious institutions, putting us at a competitive disadvantage in the struggle-to-the-death for research grants—but that's another matter). The overhead is in such a way that if I were to employ a postdoctoral researcher at "x" dollars a year, Tech levies another "x" dollars from me for this privilege. This puts postdoctoral researchers out of the reach of us junior researchers—with tangible consequences: we wouldn't get more research done, and bring in more grant money to Tech if we could afford postdocs. Also, our doctoral programs, for which we have such ambitions, would be enhanced. Therefore, Tech would benefit greatly from curbing its appetite.

Here is my specific proposition. Eliminate the levy on postdoctoral workers. This would not be a great financial sacrifice on Tech's part. But, like an imaginative tax cut that stimulates business activity, I am sure that in a few years, Tech would benefit financially from such a step. But other than bringing top research talent to Tech so cost-effectively. Imagine what it would do to our national and international reputation to become a waystation for future research leaders!

Faculty Forum's editorial review committee members are Bud Foote (Literature, Communication and Culture), Eugene Comiskey (Management) and Barbara Blackburn (Modern Languages). If you are interested in submitting a "Faculty Forum" column, please send a double-spaced essay (under 750 words) to Foote, 326 Skiles, mail code 0165. Topic matter could range from research and academic subjects to the various issues that affect the Tech community, such as the 1996 summer Olympics or recycling. For more information, call Foote at 4-7793, Comiskey at 4-4494, Blackburn at 4-7287 or Whistle Managing Editor Jackie Nemetz at 4-4557. Opinions on this page (or these pages) do not necessarily reflect the views of the administration of the Georgia Institute of Technology, the Editorial Review Committee or the Whistle staff.

Charitable Campaign Total For 1990
$205,000
Thanks Georgia Tech!!!

Georgia Tech, AAAS
To Join Forces In New Initiative

Who will do science and engineering in the 1990s and beyond? Developing human resources for science and engineering is one of the major challenges of this decade. The combination of demographic changes, waning interest by college freshmen in science and engineering careers, and massive retirement of the nation's most experienced scientists and engineers challenge the country's efforts to maintain its competitiveness, ensure national security and move forward with ambitious new programs in research and development.

The College of Engineering, the College of Sciences and the American Association for the Advancement of Science (AAAS) are initiating a joint project which includes a seminar series called "Initiatives in Science and Engineering Education" that will address some of these issues and promote engineering and the sciences in the State of Georgia and throughout the Southeast. This will be a multilevel project operating within the university, schools and the community.

The purpose of this collaboration is to develop a prototype for university participation in education reform, especially in science, mathematics and engineering. New ideas will be tested and new programs implemented to increase the pool of students qualified to enter engineering and the sciences and to improve student success in completing bachelor's, master's and doctoral degrees at Tech.

On Jan. 31 at 3 p.m. in the Weber (SST) Building, the first of these seminars will be given by Dr. Shirley M. Malcom, head, Directorate for Education and Human Resources, AAAS. Malcom's talk is entitled "The Changing Face of Science and Engineering."

Another seminar will be held April 10-11. Professor Glenn Seaborg, Nobel Laureate, will speak on "Meeting the President's Education Goals for the Year 2000." Time and location for this seminar will be announced at a later date. For more information about the seminars or about this project, call 4-3900.

Deadline For State Business Transaction Disclosures Coming Up

Georgia law requires that before Jan. 31 each year, all state officials and employees disclose all business transactions during the preceding calendar year which were transacted between the State of Georgia and the state official/employee, or any business in which such official/employee or any member of his/her family has substantial interest.

The Attorney General's office has confirmed that employees of the Board of Regents are required to comply with the disclosure provision of this law, unless the amount of individual transaction is less than $50 and the aggregate of all transactions does not exceed $9,000 per calendar year.

The necessary forms and instructions to comply with this law are available in the Planning, Budget and Finance office for any Tech employee who needs to file. Questions and comments may be directed to Dr. Linda Martinson, vice president for Planning, Budget and Finance, at 4-4615.

Send Those Receipts!
Help Techwood Tutorial Project help others — send your Kroger receipts to TTP at mail code 0458. This is part of a student-organized, campus-wide effort to raise $400,000 in receipts to get computers for the two schools served by the program.
William Black Named To Georgia Power Professorship

Regents' Professor William Z. Black has been named to the Georgia Power Distinguished Professorship in Mechanical Engineering. The appointment was approved by the Board of Regents at its October meeting.

Black has been a member of the faculty of the George W. Woodruff School of Mechanical Engineering since 1967. He chairs the thermal science research area of the school and is a former associate director for the mechanical engineering graduate programs. He has twice received the Georgia Tech Outstanding Teacher Award (1973 and 1989).


He has conducted research valued at more than $2 million. Sponsors have included major private industries as well as government agencies.

A fellow of the American Society of Mechanical Engineers, Black has provided leadership to both the campus and Atlanta ASME chapters. He is also active in Sigma Xi, the National Society of Professional Engineers, the American Society for Testing and Materials, and the Institute of Electrical and Electronics Engineers.

Black received his Ph.D. from Purdue University and his B.S. and M.S. from the University of Illinois. In 1969, the Department of Mechanical and Industrial Engineering named him its Distinguished Alumnus.

President's Scholar Eddins Receives His Ph.D. Degree At Fall Commencement

By Pam Rountree

When fall quarter commencement rolled around on Dec. 15, there were a lot of happy graduates awaiting their diplomas on the coliseum floor; and one of the happiest was Steven L. Eddins, a President's Scholar who received his Ph.D. in electrical engineering.

Eddins, chosen for Georgia Tech's President's Scholarship Program, enrolled at the Institute in September 1982. In 1986 he received his bachelor's degree in electrical engineering, then his master's degree and now, his doctoral degree. Along the way he also pursued a minor in mathematics—all at Georgia Tech.

"He is one of the best organized, most hardworking students I have known," says Dr. E. O. Baker, associate vice president for Academic and Research Support. "He's just a fantastic person—a quiet, modest, delightful person. Steve establishes his goals and lays out a plan to obtain them. He demands much of himself!"

None of the demands Steve put on himself were more difficult than the one he faced in his second quarter at Tech. According to Baker, he "became ill and had the option of withdrawing from his courses or taking 'incompletes.' An 'incomplete' meant that he would have to complete the work in that course prior to taking additional credit."

"We advised him to withdraw, but he was adamant. He elected to take all incompletes and then requested special permission to complete those courses and take a full load the following quarter. It was an incredible feat, but he made a perfect record (4.0) in the additional 17 hours of course work."

While a student at Tech, Steve did not just go to class. He was directly involved in many programs at Tech, including a period as a cooperative student in the Engineering Experiment Station (now known as the Georgia Tech Research Institute), a senior teaching assistant in the School of Mathematics, and as a graduate research assistant in the School of Electrical Engineering.

He received several academic awards, including an IBM Fellowship, Schlumberger Foundation Fellowship, a Georgia Tech Merit Scholarship and Alumni Foundation Scholarship, Barbour Corporation Scholarship and a Georgia Engineering Foundation Scholarship.

Steve is also a member of a number of professional groups, including the Institute of Electrical and Electronics Engineers, Acoustics, Speech and Signal Processing Society; Circuits and Systems Society; Information Theory Society; and Eta Kappa Nu Electrical Engineering Honor Society.

Steve and his Ph.D. adviser, EE Associate Professor L.J. Smith, also co-authored five conference papers. His Ph.D. oral presentation was "A Study of Subband Analysis-Synthesis Techniques for Image Compression."

Smith says that Steve "really took control of the project, he identified the problems and found the solutions. (Steve is) the kind of guy that if I set up a problem, he would analyze it and by the next week, he would have the solution."

Steve's research interests lie in digital signal processing, including image coding, image analysis, multicarrier signal processing, and digital filter design.

After he receives his Ph.D., Steve will pursue a career as a professor at the University of Illinois in Chicago. "He has all the qualifications to become an outstanding professor," Baker says, "including a genuine concern for teaching and research.

valid logic Systems, Inc. and Georgia Tech formed a major partnership on Dec. 5 as Valid announced a $1.7 million software grant-to-kind to Tech's School of Electrical Engineering. The grant-in-kind will result in the establishment and dedication of the Valid CAD Computer-Aided-Design Center. Shown above is D-B Tech's Acting Executive Vice President Michael E. Thomas; Daniel Schapen, vice president. Advanced Applications Development, Valid Logic; San Jose, Calif.; Jay Bruns, account manager; Valid Logic; Research Triangle, N.C.; Dr. Jay Schlap, professor in the School of Electrical Engineering.
Fusion Committees To Meet At Tech
January 23-25
Two high level committees that provide guidance to the two major magnetic fusion projects in which the U.S. will be involved in the future will be meeting at Tech Jan. 23-25. Magnetic fusion is being developed as an energy source for the future. The present generation of operating experiments is expected to complete establishment of the scientific feasibility of magnetic fusion within the next few years when D-T experiments are conducted in the Tokamak Fusion Test Reactor (TFTR) in the U.S. and in the Joint European Torus (JET) in Europe.

The next step in the U.S. fusion program will be the demonstration of ignition, or complete self-heating of the plasma by fusion events, in the Compact Ignition Tokamak (CIT) planned for construction at the Princeton Plasma Physics Laboratory. Beyond that, the U.S. is collaborating with Europe, Japan and the U.S.S.R. in the design of the International Thermonuclear Experimental Reactor (ITER), which will demonstrate the engineering feasibility of magnetic fusion and advance fusion power to the threshold of commercial electric power application by the first decade of the next century.

The design and research in support of both CIT and ITER are guided by national steering committees composed of U.S. fusion program leaders from the major fusion research laboratories and of leading university fusion scientists. The ITER Steering Committee U.S. (ITC-US) is chaired by W. M. Stacey, Callaway and Regents Professor of Nuclear Engineering at Georgia Tech. The Ignition Tokamak Overview Committee (ITOC) is chaired by D. E. Baldwin, director of the Institute for Fusion Studies at the University of Texas.

For more information, call the Nuclear Engineering and Health Physics Programs offices at 4-3270.

Tech Chorale, Technicalities To Perform Jan. 26
The Georgia Tech Chorale and the Technicalities will give an encore performance of their Nov. 9 concert on Jan. 26 at 8 p.m. in the Student Center Ballroom. The concert is entitled "An Evening with the Music of Andrew Lloyd Webber" and will consist of songs from "Phantom of the Opera," "Jesus Christ Superstar," "Cats," "Starlight Express," "Evita," "Aspects of Love" and "Song and Dance.

Greg Colson will direct the two groups, and Sue Goddard will play the piano. The Georgia Tech Chorale consists of 80 voices, and the Technicalities, an auditioned subset of the Chorale, has 22 voices.

Classifieds
For Sale - 1985 BMW 325E coupe, cosmic blue ext., pearl int., 5 spd., fully loaded, exc. condition, best offer. Call 935-0268 or 268-3033.
For Sale - 1987 2-door Dodge Charger, 42K miles, hatchback, red, $3,700. Call Sergeant Busbee at 3-0182 or 968-0422.

Briefly...
Parking Restriction - The parking lot at the President's Home will not be available for use for the Georgia Tech-Duke basketball game on Jan. 30.