

STING

VOL. I, NO. II

SOUTHERN TECHNICAL INSTITUTE

JANUARY 31, 1984

MET DEPARTMENT EXPANDS ROBOTICS LAB

Jack Walter, Staff Writer

The MET Department has been using some of the funds allocated to Southern Tech by the State of Georgia last year to expand its computer graphics and robotics laboratory. Just over \$69,000 has been spent to establish a facility where students can learn the basics of programming similar to those used in industry today.

The MET department now has 5 of the RHINO XR-2 robotic arms in service along with an assortment of conveyor and turntable accessories to help simulate real situations.

In addition to the robots the MET department has 11 Apple II computers and one IBM PC to provide a means of programming the robotic arms. Auxiliary equipment includes several Epson dot-matrix printers, disc drives, controller boxes for the robots, and 2 Houston Instrument plotters. The plotters, which can use up to 8 different pens to provide different colors and line-widths are used in the computer graphics course. Two more IBM PCs and 2 more plotters are on order and scheduled for delivery soon.

The first RHINO robotic arm was bought approximately a year and a half ago by the Society of Manufacturing Engineers. This grant provided funds for a robotic arm, its controller, and an Apple II computer with disc drive.

The RHINO was chosen from the selection of available robotic arms due to the similarity in movement to the Cincinnati Milacron industrial robot. Students who learn to program the RHINO arms become familiar with the movements of the Cincinnati Milacron which is widely used in industry today.

The computer laboratory is currently being used for 3 classes: Robotics, Introductory Computer Graphics, and Numerical Control Machinery. All the classes are generally filled to capacity due to high student interest in the subject matter.

In the robotics lab students must program the robot arm to perform operations such as picking up objects from a moving conveyor or turntable and transferring them to another position. The students must learn to make allowances for parts being out of position or orientation and for human workers in the path of the robot arm.

The computer graphics course introduces students to BASIC computer language as they learn to write programs to display graphs and simple geometric figures. The course serves as an introductory stepping stone on a path that eventually leads to the CAD/CAM revolution that is sweeping industry.

In the numerical control course the students are using computers to test programs designed to run a
See Robots, page 8

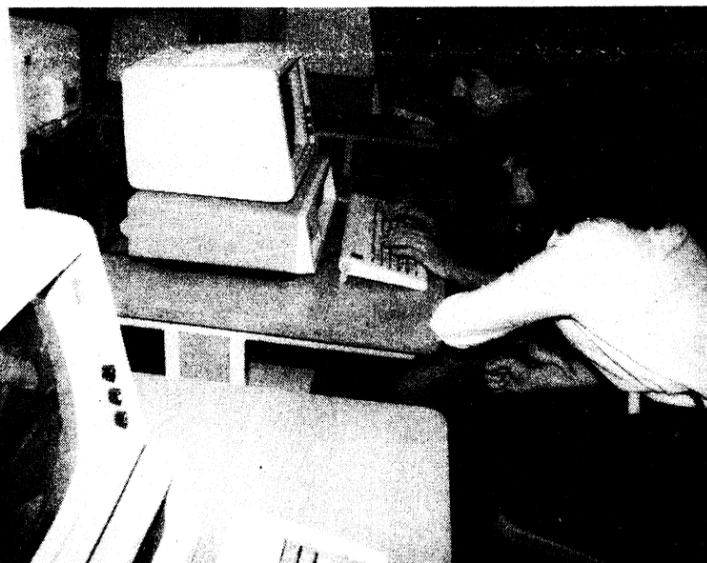
COMPUTERS MULTIPLY AT STI

Bill Thorsen, Staff Writer

Our new, ever-growing computer systems department employs 4 full time and 5 part time instructors who handle almost 400 declared majors. Maybe you are familiar with this new center, which, with its 30 or so new terminals and 20 or so IBM PC's, displaced the bookstore into little more than a mobile home.

The first Computer Information Systems Technology (CIST) class anticipates graduation in 1985. Professor Harbort, who is a department head and full time teaching professor, attests to what most already know: these first graduates and those that follow "shouldn't have any trouble getting a job."

What kind of jobs are out there for CIST graduates, and how do these grads qualify for them? Well, in answering this most important question, Harbort explained that there are two main options currently available. Information Systems Option is a program where the student learns to use software in the business world. Those in this option are sometimes known as applications programmers or systems analyst programmers. The Technical Analysts option is one in which the student writes internal software for computers. Some design is also involved here. The IFS option has more IET business-
See Computers, page 8



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VIEWPOINTS

EDITOR'S CORNER

Due to some difficult circumstances, Mr. Eric James King, who was the *STING* Editor through the publication of the last issue, decided to leave his position as Editor of the *STING*. Because of my experience on the staff, I agreed to step in as interim Editor. This column will be a regular feature during my term of editorship which will extend to the end of Winter Quarter 1984. At this time, subject to the approval of the Student Publications Board and the demands of my own schedule, the status of my office will be decided.

Until that time, however, I have committed myself to produce the finest series of newspapers to appear on campus since the origin of the paper. I'd like to thank Eric King for setting up the strong foundation on which I'm building, and also Cher Haile who has been the best assistant editor anyone could ask for. I'd also like to extend an open invitation to anyone on campus who'd like to be a part of the new and improved *STING*; we could never have too many people on the staff. I welcome your comments and suggestions, and I encourage you to watch us closely--**WE'RE WORTH READING!**

John Hardman
Editor, *STING*

CORRECTION

The article concerning the Georgia Society for Professional Engineers and its efforts to upgrade the laboratories at Southern Tech in the last issue of the *STING* contained an incorrect statement concerning the accreditation status of the Mechanical Engineering Technology curriculum.

According to William Rezak, Department Head, the MET Department is not on probationary accreditation as the article stated.

The MET Department had been placed on probationary status in 1978 due to a review of the labs at that time. The probation was retracted in 1982 and the department was returned to full accreditation. The MET Department has been actively updating and equipping its labs with funds provided by the State of Georgia over the last few years.

Accreditation hearings for all schools are held periodically and are next scheduled during the upcoming fall quarter, 1984. The MET department remains confident that it will continue to retain its accreditation due to its concentrated program to update and improve its laboratory facilities.

The *STING* apologizes for any undue concern that the error may have caused.

WEISS CALLS FOR IMPEACHMENT

Gary Oxford, Staff Writer

Congressman Ted Weiss of New York, along with seven other members of Congress, recently introduced a resolution in the House which called for the impeachment of President Reagan on the grounds that he violated the U.S. Constitution when he ordered the invasion of Grenada last fall.

Representative Weiss has since written to newspaper editors in secondary schools, colleges, universities and law schools across the nation, encouraging these educational institutions to participate in public debates on the constitutional questions raised by the President's actions. According to Weiss, Reagan violated Article I, Section 8, and Article VI of the Constitution as well as the First Amendment.

Below is the letter which the *STING* recently received from Weiss and the proposed House Resolution 370. We encourage you to voice your opinion-- but more importantly, we encourage you to register to vote.

TED WEISS
17th District
New York
Chairman
Subcommittee on
Intergovernmental
Relations and
Human Resources
2642 Rayburn Building
Washington, D.C. 20515
202/225-5635
Patrick S. Fleming
Administrative Assistant



Congress of the United States
House of Representatives

December 30, 1983

Dear Editor:

As you may know, I and seven other Members of Congress recently introduced a resolution in the House to impeach President Ronald Reagan on the grounds that he violated the United States Constitution when he ordered the invasion of Grenada. This resolution was submitted only after serious research and deliberation. Impeachment is the most appropriate option provided Congress by the Constitution to rein in the actions of a President operating outside of constitutional bounds.

I realize this action does not fit the current mood of most Americans. But the Constitution of the United States was not meant to apply only when its provisions enjoy majority support. One of the most dismaying events following the invasion of Grenada was the realization of how many Americans do not understand the separation of powers built into the Constitution. It is my hope that one of the constructive outcomes of the impeachment resolution is that it engenders a debate of the issues and strengthens the public's understanding of the constitutional principles upon which our nation is founded.

To facilitate and advance this debate, I am sending you some information about the impeachment resolution and the specific constitutional provisions President Reagan is charged with violating when he ordered the invasion of Grenada. I hope you will consider using the invasion of Grenada and the impeachment resolution as a framework for a discussion of the constitutional issues involved.

The invasion of Grenada has set a historic precedent in the relationship between congressional and executive constitutional authority. This event and the constitutional issues involved should receive careful consideration by the American public. I hope you will initiate discussion of these important issues. I would be pleased to hear from you further regarding this matter.

Sincerely,

TED WEISS
Member of Congress

District Office
37 West 65th Street, New York City 10023 212/787-3490
4060 Broadway, New York City 10032 212/927-7726
490 West 238th Street, Bronx 10463 212/864-0441
655 East 233rd Street, Bronx 10466 212/652-0400
131 Waverly Place, New York City 10001 212/680-3310

GOVERNOR'S BUDGET REQUEST DEFICIENT

Tom Doran, Staff Writer

Governor Joe Frank Harris' current budget request does not include funds recommended by the Georgia Society of Professional Engineers to modernize laboratories at Southern Technical Institute and other schools. The society had recommended \$5.5 million to upgrade labs whose equipment averages 17 to 20 years old.

The Governor's proposed budget does include \$6 million for capital improvements in the university system. If that figure is approved by the current State Legislature, the funds would be divided by the Board of Regents among all 33 colleges of the university system.

Tom Daniels, legislative liaison for the Board of Regents, said, "We are very thankful for the Governor's recommendation." He said the Regents will decide how to divide up the appropriations, which has not yet been approved, in the spring.

Daniels explained that the \$6 million figure was derived thru a "new funds formula" advocated by former Gov. George Busbee. Busbee's plan was to add a capital improvements appropriation equal to 1% of each annual operating budget. Harris and the Board of Regents used that formula for the current request.

James Koen of the Engineers' society expressed both disappointment and confidence. "We anticipated," he said, "that this might take more than one year." He promised that the society would continue its efforts in 1984.

A slide show describing the state of laboratories at STI, Georgia Tech, and the University of Georgia has been shown to about a third of the members of the Legislature, according to Koen. It is available to students or other groups from the Georgia Society for Professional Engineers. Information is available from Ms. Jackie Kimberly at the society's office. Call 355-0177.

CAN YOU DIG IT?

The ditch that has been causing a slight hazard around the Student Center and other buildings is for a new computer cable link. This new cable is designed to replace the old link which runs from the library to building 5. The old cable will have to be cut about midway between the buildings and rolled back to make room for the construction of a new building there.

According to Mr. Welch, administrative specialist of Plant Operations, the physical plant (PPD) workers had to rush through bad weather to get the job done before bidding began on Jan. 24. He also said that the clean-up procedure which includes repaving the driveway and clearing sidewalks will take some time.

PRESIDENT'S CORNER

There is a concept that was presented to me by a concerned student that I feel warrants careful consideration by the Student Body. The procedure for recording grades of classes that have been re-taken is the subject.

It was suggested that instead of averaging the new grade with the cumulative GPA, the new grade should replace the old grade before being averaged into the cumulative GPA.

In other words, if a student fails English 101 then takes it over and makes an "A", the two grades are averaged together in the new cumulative GPA. The change would have the "A" replace the "F" on the new cumulative GPA.

This concept will obviously have some opposition. I would like to see editorials from both faculty and students elaborating the pros and cons of this change in procedures. Through a student body petition, this change could possibly be made into S.T.I. policy.

Thanks, John Braunbeck

1984 HOMECOMING EXTRAVAGANZA

CAB GENERATES EXCITEMENT

This week is Homecoming Week at Southern Tech and the Campus Activities Board (CAB) has an interesting program lined up to mark this event. The following is the schedule of events for this week.

Monday and Tuesday, 1/30 and 1/31, 9 A.M.-7 P.M. Vote for the Homecoming Queen at the information booth in the Student Center and show the ladies of the court how much we appreciate their being around to provide a change of scenery. See the accompanying article in this issue of the *STING* for a list of the candidates.

Thursday, February 2, 7:30 P.M. The 4th Annual Skit Nite starring Southern Tech Students and featuring professional comedian A. Whitney Brown as the Master of Ceremonies.

The Southern Tech Jazz Ensemble will open the show and will be followed by 5 to 10 minute skits presented by student organizations. All the skits will be centered around the theme "The Great Outdoors." First, second, and third prizes will be awarded by a "Blue Ribbon" panel of faculty and administrators.

CAST YOUR VOTE

Stop by the information desk outside the Student Center Office between 10am and 7pm and cast your vote for Queen of Homecoming. All you need do is present your STI ID to the poll-taker. This year's line-up is tougher than ever, as Southern Tech continues to draw more and more beautiful and ambitious women.

Your choices for Homecoming Queen are:

Barbara Adams--Sponsored by Baptist Student Union, majoring in EET, her activities include IEEE, Resident Assistant; she is presently BSU's Missions Chairman.

Angi Bay--Sponsored by Sigma Pi Fraternity and majoring in IET, Angi serves as the Rush and Social Chairman of Gamma Phi Beta.

Cindy Berman--Sponsored by Pi Kappa Phi and majoring in CIST, Cindy is a little sister for Pi Kappa Phi.

Lynn Darrell--Sponsored by R.O.T.C., majoring in CIST, Lynn's activities include the *LOG*, and R.O.T.C.

Deana Davis--Sponsored by Gamma Phi Beta and majoring in AET, her activities include Gamma Phi Beta, Vice President of Panhellenic Council, and Philanthropy Chairman of Bathtub Racing Association.

The Master of Ceremonies is a former migrant worker turned comic, A. Whitney Brown. He began performing on street corners and has worked his way up to appearances on the Tonight Show and the Showtime Television Network. He describes a food fight at Col. Sanders' as "poultry in motion."

Friday, February 3, 8:00 P.M. The Mountain Visions concert in the Student Center Ballroom is a multi-image presentation combining music with a battery of 9 slide projectors programmed to image on a 36 foot panoramic screen. The presentation showcases the seasons, wild animals, adventurers, mountains, rivers, and sky of the American Northwest.

Choreographed to varying pieces of music including rock, folk, jazz, and bluegrass, the images of backpacking, climbing, whitewater rafting, wilderness skiing, and wildlife form panoramas in a show viewers will not soon forget.

Gary Grimm and Katy Flanagan have traveled to many areas in the Northwest and Alaska to film their impressions of the remote and beautiful wilderness that many of us never get to see. They have suc-

cessfully tried to capture the feelings they experienced in these remote areas so their audience could experience their deep personal connections with the natural world. Admission: free to STI students, faculty, and staff with valid ID. Public: \$2.00.

Saturday, February 4:
7:30 P.M. Homecoming Game: Southern Tech vs. North Georgia College. Introduction of 1984 Homecoming Court at half-time. Banner contest judging.
9:00 P.M.-1:00 A.M. Homecoming Dance starring the MAXX band, a popular Atlanta band that specializes in current top 40 hits. The MAXX band recently walked away with a string of 30 college dates from the recent association of Campus Activities.

Steve Hill, the American Dream DJ, will compliment the evening's musical fare with his mobile disco.

11:00 P.M. The 1984 Homecoming Queen and her court will be presented. The banner contest winners will also be announced at this time.

The names of the Queen and Runners-up will be submitted to the Atlanta Dogwood Festival Committee for entry in its 1984 Dogwood Festival Court.

The *STING* is your newspaper. The staff welcomes your input, criticism, and suggestion; but most importantly, the *STING* Staff needs your help.

Our 7 person staff is great, but is TOO SMALL to produce a professional format newspaper for a campus of 3,300 students. If you have writing skills, your written contributions will be a big help. Also, we need people to be on the *STING* Staff to help with advertising sales, layout design, circulation, reporting, and general production of the paper.

You may register for English 304,305, or 306 to receive 1 elective credit hour for your work on the *STING*. Contact the *STING* to find out how you can help with the production of the best college newspaper in Georgia. We really need your help; the more people we have on Staff, the easier each person's job becomes. We can never have too many people on our Staff. Thank You for your attention.

John Hardman; Editor, *STING*

Gina Holbrook--Sponsored by Lambda Chi Alpha, majoring in CIST; Gina participates in Alpha Delta Pi and is a little sister to Lambda Chi Alpha.

Sharon Knight--Sponsored by the Southern Tech "Hustlin' Hornets" Baseball Team, majoring in ECET. Sharon plays intramural softball and volleyball, Lady Hornets Basketball, manages the STI Baseball Team, and works as a Resident Assistant in Norton Dorm.

Kristy Morgan--Sponsored by Tau Kappa Epsilon and majoring in IET, Kristy is a TKE little sister and member of Phi Theta Kappa honor society.

Victoria Nance--Sponsored by Alpha Delta Pi and majoring in CET, Victoria is a member of Alpha Delta Pi and Assistant to the Director of Financial Aid.

Michelle Tritt--Sponsored by A.I.A. and majoring in AET, Michelle is a member of both A.I.A. and C.S.I..

Maeryia Weaver--Sponsored by the Black Student Association and majoring in MET, Maria is a member of both the Black Student Association and the Society of Mechanical Engineers and is also College Chapter Treasurer of the NAACP.



THE 1984 HOMECOMING COURT--from left Victoria L. Nance, Sharon Faye Knight, Cindy Berman, Maeryia H. Weaver, Michelle L. Tritt, Angi Bay, Deana S. Davis, Barbara Adams, Gina S. Holbrook, Lynn Darrell, and Kristy A. Morgan. photo courtesy STI PR Dept.

SUPERSTAFF

Editor JOHN HARDMAN

Assistant Editor CHER CHEATHAM HAILE

Writers

MARK COLETTI

TOM DORAN CET

GARY OXFORD

BILL THORSEN ECET

JACK WALTER MET

Faculty Advisor DR. CAROL BARNUM

"The Magnificent Seven"

ANNOUNCEMENTS

DATES TO REMEMBER:

MON. FEB. 6: Deadline for submission of material to appear in the next issue of the **STING**; Regent's Test--3 sessions.
 TUE. FEB. 7: **STING** meeting at noon in the **STING** office; SGA meeting at noon in room 120.
 WED. FEB. 8: Last day to drop classes without penalty.
 MON. FEB. 13: Next **STING** hits campus.
 TUE. FEB. 14: **STING** Staff meeting at noon in the **STING** office. Happy Valentine's Day.
 TUE. FEB. 21: **STING** Staff meeting at noon in the **STING** office. SGA meeting at noon in room 120.

*If your group or organization would like to have an important date published, submit written information concerning dates, times, and locations to the **STING** office.

Individual pictures may be picked February 2, downstairs in the Student Center from 9 A.M. to noon at the **LOG** table or any following Wednesday at noon in the **LOG** office. For more information call the **LOG** office at 424-7310.

FROM THE FAMILY OF JAMES MICHEAL SUMNER...
 Staff and Faculty,

Thanks to each of you for each kind expression of sympathy that you showed us during the loss of our son, Micheal. The flowers, cards and other remembrances were all beautiful.

Micheal loved Southern Tech and his life there, and he spoke often of the quality of education he was receiving.

May God richly bless each of you and your school for each kindness shown.

Patty, Jimmy, and Julie Sumner

★SEND A VALENTINE message to loved a loved one in the **STING**. The **STING** will sell personal Valentine ads for the FEB. 13 issue of the **STING**. Ads may be purchased for \$1.00 each during the week of JAN. 30 to FEB. 3. Ads will be sold in the **STING** office from noon to 2 PM. Spend a buck and put your love message in print.

Your Announcement can be here
 Send it in!



SAVE A LIFE...LEARN CPR

If someone you know stopped breathing or had a heart attack, would you be able to keep him alive until medical help arrived? Over 750,000 Americans die each year from heart disease. Many of these victims could have survived if cardiopulmonary resuscitation (CPR) had been administered immediately after cardiac arrest.

To convert public awareness of the need for CPR training into actual training experiences for Atlanta citizens, the Metropolitan Atlanta Chapter of the American Red Cross will once again offer free CPR training to citizens in a one-day event.

The project, called "CPR Saturday," is scheduled for Saturday, February 11, 1984, at Southern Technical Institute. Training will begin every half hour at the campus from 9 AM to 4 PM. For more information about free CPR training call the Red Cross at 881-9800 weekdays from 8:15 AM to 4:30 PM. Save a life...learn CPR.



ROBOTICS

EXECUTIVE ROUNDTABLE ACCEPTING PARTICIPANTS

The Southern Tech Executive Roundtable (ERT) is a student organization that provides an opportunity for concerned student, faculty, and administrative leaders to meet and discuss topics of mutual interest with leading representatives of industry and government.

ERT is looking for such students, faculty, and administrators who are high achievers. Anyone interested in participating in ERT should contact Alan Martin, Randy Lazenby, or Tobin McTyre c/o the SGA in the Student Center.

Vern Estes, manager of robot applications consulting and business development for General Electric, will be the speaker for the February 23 meeting of the Atlanta Chapter of Robotics International. He will give a talk on "Robotics in the Factory With a Future."

Employed with General Electric for over 30 years, Mr. Estes initiated a major program in 1976 to introduce robotic technology within G.E. Under his guidance, G.E. developed one of the largest robot facilities in the U.S. to evaluate commercially available systems. Recently, Mr. Estes was awarded one of the robotic industry's highest honors, the Joseph P. Engleberger Award for Achievement in Robotics Applications.

The meeting will be held at the Holiday Inn, Powers Ferry with cocktails at 5:30 pm, dinner at 6:15 pm, and the presentation at 7:00pm. For reservations or information, contact Randi Benner at 448-6700.



FACULTY ACHIEVEMENTS

Bob Wess of English and History has published an article in the December 1983 issue of **CEA** Forum entitled "Do Writing Teachers Write? A Survey" The essay, based on a survey of 75 college composition instructors at Purdue University in the summer of 1981, explores whether, when, how, and why/why not these writing professors use their own writing in teaching composition.

EXTRA EXTRA
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 in
THE SHORT STORY

English 395 a, 10-11 M-F

5 hrs elective credit

Featuring: Adventure, Mayhem, Conquest, Courage, Love, Sex, Thrills, Death

See Professor Barnum for more exciting details

Register for Spring Quarter, 1984

space limited



Learn CPR and Win A Bahamasair Vacation from

WGST
 NewsTalk 92

Everyone who takes a CPR course on CPR Saturday will be eligible to win a BAHAMASAIR vacation for two, and fly from the peaches to the beaches on Bahamasair. Details on WGST NewsTalk 92.

CPR: Used to revive victims when breathing and heartbeat have stopped.
 DATE: February 11, 1984
 TIME: First session begins at 9:00 a.m. Sessions begin each half hour thereafter through 4:00 p.m. (Training takes about 3 hours. Minimum age to receive training is 13.)

TRAINING SITES:

- CLAYTON COUNTY—Clayton Junior College, 500 N. Lee Street, Morrow, Ga.
 - COBB COUNTY—Southern Tech, 1112 Clay Street, Marietta, Ga.
 - DEKALB COUNTY—Emory University, Woodruff Physical Education Building (in conjunction with the Health/Physical Education Department).
 - FULTON COUNTY—Georgia Tech, Student Center (next to Visitor Information Center).
 - ROCKDALE COUNTY—Rockdale County High School.
- Dress is casual, wear activity clothing (slacks/soft sole shoes). In order to devote total attention to this training, small children or pets cannot be admitted to the training area. For more information, call 881-9800.

PRE-REGISTRATION FORM

Clip and mail to:
 CPR Saturday, American Red Cross, 1925 Monroe Drive, N.E., Atlanta, Ga. 30324.
 "I WANT TO LEARN HOW TO SAVE A LIFE!"

Name _____

Address _____

Phone (Day) _____ (Evening) _____

City _____ State _____ Zip _____

I plan to attend training in (choose one):
 Clayton Co. Cobb Co. DeKalb Co. Fulton Co. Rockdale Co.

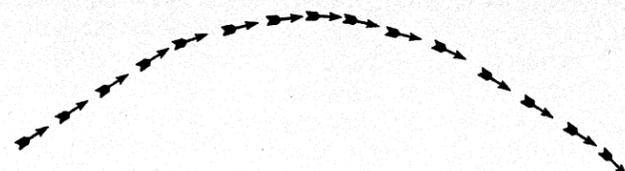
Time Preference: 1st _____ 2nd _____ 3rd _____
 (Sessions begin 9:00, 9:30, 10:00, 10:30, 11:00, 11:30, 12:00, 12:30, 1:00, 1:30, 2:00, 2:30, 3:00, 3:30, 4:00.)

Upon receipt of this Registration Form a confirmation will be mailed to you. Every effort will be made to schedule you in your preferred times. You must arrive 15 minutes prior to the confirmed time. Donations will be accepted at the site.



**BEST
FOOT
FORWARD**





THURSDAY, FEBRUARY 2nd

ROOM 205 CLASSROOM BLDG

INTERVIEWING TIPS

HOW TO GET THE JOB YOU WANT!
FOCUS ON DRESS, MANNERS, ATTITUDES,
COMMONLY ASKED QUESTIONS AND ANSWERS

SPONSORED BY THE COUNSELING CENTER

THE EXCHANGE

CHEAP FLICKS

The Student Center Office sells, between the hours of 8:00 a.m. and 5:00 p.m., Monday through Friday, discount movie tickets for General Cinema and AMC theaters. General Cinema Theater tickets sell for \$2.50 and may be used at any time, while AMC Discount Tickets sell for \$2.00 and can not be used on Friday and Saturday night after 6:00 p.m. If evening students want to purchase these tickets, they need to call the Student Center Office at 424-7374 and we will make arrangements to get them the tickets.

PIZZA PRONTO is looking for a few good people to make pizza's, deliver pizza's and answer the phones. Call Albert at 955-2661 for an appointment.

FREE TAX ADVICE PROGRAMS

Does your group need information on taxes, tax planning, estate planning or even the computer's role in home and business? The Georgia Society of Certified Public Accountants will provide a free speaker on these and many other topics. The service is statewide, and all you have to do is call Karen Sledge or Lily Grace Dozier at 231-8676 or toll-free 1-800-282-1831 to schedule a speaker for your group and discuss topics. A presentation topic can be tailor made for you. Some presentations have slides, and brochures are handed out at all talks.

★ Your Ad could be here ★
Send it in!

CLUBS AND ORGANIZATIONS

SIGMA NU

The brothers of Sigma Nu would like to congratulate and welcome these new initiates:

Tito Castellanos
Paul Cole
John Harris
Jeff Hicks
Greg Horton
Charles Mitchell
Scott Walker

In our continuing effort to recruit quality men for Sigma Nu, Winter rush produced five quality pledges: Kevin Blakenship, Scott Butler, Albert Cueller, Chuck Henderson, and Jim Sullivan.

We would also like to congratulate Brenda Kaye, who was extended an invitation to become a little sister.

The brothers are preparing for a strong showing in intramural basketball, both in the slow and the fast leagues. In the opening game of the slow league, Sigma Nu had a 45-17 victory over Pi Kappa Phi. Brother Tony Turner led the scoring with an awesome 24 points. All brothers and friends are anxiously awaiting the annual ski trip to Wolf Laurel, NC. We regret, however, that we will not be able to attend the homecoming festivities due to prior scheduling of the ski trip.



CSI would like to invite all students to attend the Wednesday program. The meeting is being jointly sponsored by the CSI and AIA student chapter on the Concourse office complex. The program will be led by Bill Strickland of The Landmarks Group. Bill Strickland is an alumnus of Southern Tech.

The meeting will be held in conference room 119 on Feb. 1, at 12:00 P.M. A field trip to the Concourse complex will be scheduled for Feb. 3. All who are interested should attend the Wed. meeting for more information.

★ Your Group's Report can be here
Send it in!

COOP AND PLACEMENT

It's in your best interest to take the time to find out about the STI COOP program of career placement. If you don't know about it, head for the COOP Office in the basement of Howell Dormitory and lift some free information. Many major corporations, from Lockheed to IBM are seeking out students for top positions within their companies upon the student's graduation. The program provides also for alternately attending classes, then working at businesses, every other quarter, with working salaries over \$1000 per month. Upon finishing school, this student may slide into a waiting position at that company... Not a bad deal.

From Monday, Jan 30 through Thursday, March 1, there will be corporate representatives interviewing on the STI campus. A complete list of corporations and their schedules are posted at the COOP office in Howell Dorm.

The following are some COOP openings currently available if you are registered:

AMARLITE **ANACONDA**
ALUMINUM CO.-- Atlanta.
1 opening MET

**ATLANTA GAS LIGHT COM-
PANY-- Augusta, GA**
1 opening CET, MET OR IET

**HOFSTADLER & WOOD--
Macon, GA**
1 opening CET

L & N SHIRT CO.-- Cochran, GA
1 opening ATET

**MATHIS SURVEYING CO.--
Riverdale, GA**
2 openings (1 Spring, 1 Summer)
CET

QUALCO CO.-- Acworth, GA
1 opening (Summer) MET

TOSHIBA-- Smyrna, GA
1 opening CIST

Deadlines for turning in resumes for the pre-screening process are posted in our office. After resumes are pre-screened by company, sign up sheets will be posted again one week before the interview dates for those selected to sign up. If you

For more information concerning COOP AND PLACEMENT opportunities, contact the Placement Office located in the lower level of Dorm 2, or call 424-7223.

ENTERTAINMENT

TRAVEL

Jack Walter, Staff Writer

Rule NO.1--Travel Light

One secret to an enjoyable trip around Europe is traveling with as little luggage as possible. Dragging a large awkward suitcase around as you climb on and off trains and search for a place to stay can make your vacation seem more like work than play. Remember its you that's on vacation, not your wardrobe.

With a little planning you can carry only what you really need and avoid carrying a lot of excess weight. A good rule of thumb is never take more than twenty to twenty-five pounds of luggage over with you. Leave yourself enough leeway so that you can buy things over there and still be able to carry everything comfortably.

You should restrict yourself to one medium size bag, preferably some sort of soft luggage that can be stuffed into odd corners and take a lot of abuse. A medium size internal frame backpack is nearly ideal since it can be carried easily for long distances and will fit on the overhead racks in trains and busses.

I have an old Kelty tour pack which has been great except that it is almost too big, especially at the beginning of a trip. When packing, it is a temptation to fill all of the available space with gear. Loaded to capacity, my pack weighs between 45 and 50 pounds, altogether too much weight to carry comfortably. On my first trip to Europe, I set off with about 40 pounds at the start of the trip. On my second, I began with about 22 pounds. My uncle commonly travels for periods of a month or more in Europe with only an overnight bag.

Be sure to take a small day pack for daily excursions, side trips, and shopping. This can be rolled up and stuffed into the larger bag when traveling between overnight stops.

Europeans are used to casually dressed tourists so an extensive wardrobe is not required. The European climate in summer is generally similar to spring in Atlanta so your clothes should be able to cover a range in temperature from 40° F to about 80° F. A heavy coat or sweater is not usually necessary but some sort of outer shell garment such as an anorak or mountain parka is essential to fend off rain and wind. This should have a large hood and as

many pockets as possible. I usually size my clothes so that I can layer everything to keep warm. That way if you happen to hit a cold day you just grab another layer of clothes from your pack.

Blue jeans and running shoes are perfectly acceptable anywhere in Europe that I went so you don't have to worry about dressing up to go out at night. Comfortable shoes are a necessity because you do a lot of walking. These new ultralight hiking boots made like running shoes look to be a nearly ideal solution to the footwear problem.

T-shirts are one of my favorite souvenirs so I tend to acquire those as I travel around, but you should not ignore the possibilities of buying a lot of your clothes in Europe. Jeans are expensive but things like wool sweaters, tweed coats, even suits are cheaper in England than here. I bought a gray wool sweater for \$8 in London at a department store called Marks and Spencers.

I found that you really only need a couple of changes of clothes plus something you can wear while everything else is in the laundromat, so I only take two complete sets of jeans, t-shirt, and long-sleeved shirt along with a sweater, mountain parka, and a couple of pair of hiking shorts as a basic wardrobe. If you need something more it is a lot easier to buy it over there than drag something you don't need all over a continent.

Several weeks before you depart on your trip you should sit down and write out a complete list of everything you plan to take with you. Study it periodically and see if you can eliminate anything or need to add anything to it during these weeks. Remember that you may have to carry all of this for several miles. For some reason youth hostels almost always seem to be located on the far side of town from the train station. Toting a 25 pound pack for 3 miles is a lot more pleasant than toting a 45 pound pack for that distance.

Colin Fletcher, author of "The Complete Walker," is a fanatic on the subject of weight. He follows two simple rules for packing: 1) If you need it, take it. 2) Are you damn sure you need it?

One final note; I met several people who had valuables stolen by pickpockets or even had their entire packs stolen. This is not something to be overly worried about but I would leave the valuable jewelry and irreplaceable heirlooms at home so that you can enjoy your trip without having to worry about your possessions. Your most important possession over there is your passport. Keep it with you at all times in an inside pocket or moneybelt.

Remember rule number one; travel light.

Intra **STING**

Cher Cheatham Haile

For Chocoholics ONLY!

Best Binge Sites:

1. Pleasant Peasant (Chocolate Intemperance...too much for even hard-liners)
2. Baskin Robbins' newest flavor (Milk-chocolate with chunks and chips). Baskin Robbins currently has 12 flavours dedicated just to chocolate!
3. The Dessert Place (Sour cream brownies topped with a dollop of chocolate Haagen Daaz!) OOOooo!
4. Shoney's (Hot fudge cake).

More Bests

Best salad bar - Denver's

(Worst salad bar - The student center. Who puts relish on a salad?)

Best Music - Elton John's "Why They Call It The Blues"

Best bumper sticker - "Honk if your horn is broken"

Best Country line-up - The Rainbo Music Hall - Merle Haggard, Tammy Wynette, Mickey Gilley, Charley McClain, Janie Fricke and George Jones; one after the other!

Best Madness - Solar-powered Surf-Boarding

Best thing to do - Register to vote! It's UN-American not to.

SUMMER FUN FOR BUCKS

The difference in "just a summer job" and "the summer of your life" may be between the pages of these new books on summer employment.

1984 Directory of Overseas Summer Jobs, David Woodworth, \$7.95, paperback. It lists 50,000 current world-wide jobs complete with details for securing them.

1984 Directory of Summer Jobs in Britain, Susan Griffith, \$7.95, paperback. A practical guide to short-term employment in England, Scotland and Wales that can finance your entire European holiday.

1984 internships, Joan Bloss, 1983, \$10.95, paperback. Lists 16,000 short-term jobs opportunities in the professional fields of advertising, architecture, journalism, health care, government, theatre, archaeology and social work. Includes famous publishing houses, arts fields in N.Y.C. and D.C. jobs in government.

1984 Summer Employment Directory of the U.S., lists 50,000 U.S. jobs. Some are far-out like teaching on an ocean-going yacht, leading camping expeditions in the Rocky Mountains, or harvesting strawberries in Oregon.

These books are available at most bookstores, or can be obtained by writing Writer's Digest Books, 9933 Alliance Road, Cincinnati, Ohio 45242, or by using your credit card to phone in an order at 800-543-4644 toll-free.

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MUSIC NOTES

Bill Thorsen, Staff Writer

I guess a music article just wouldn't be worth a flying (ex-pletive deleted) if it didn't mention the single most influential music force in the industry-- Michael Jackson. He has really come of age. I can still remember buying Jackson 5 45's and playing them until they were "played out." And now, 15 years later, Michael is at the top of his profession. As we all know, he took 8 awards out of 11 nominations including best pop and soul album (*THRILLER*), best pop and soul single ("Billie Jean"), and best pop male vocalist. All that can be said is that listeners voted him these awards, and listeners know what they like!

Adam Ant will be at the Fox theatre January 29. If his show is anything like the film I saw of his performances and if you like theatrical shows, this is a "don't miss."

REM will play the Moonshadow Jan 31, another must see for local music fans. Others to see are Night Hawks (Jan 31) and Heart (Feb 9).

now for a few albums:

90125 Yes

Yes just seems to keep resurrecting with new members of great caliber. Original members Chris Squire and John Anderson have a talented bunch with them on what could be their most successful album to date. "Owner of a Lonely Heart," the uncompromisingly successful single release is a fine example of superior, tight musicianship in an extremely catchy tune. These

two characteristics rarely cross. "Changes" and "Our Song" are two more examples of the characteristically Yes musicianship. What else would you expect from them?

STREETZ Streetz

This one you may not have heard of or recognize. This is ex-Kansas keyboardist, songwriter, lead singer and inspiration Steve Walsh's new band. With all he did with Kansas, I expected a lot from his new effort.

Somewhere, however the magic was lost. The album is, for the most part, boring. "If Love Should Go" was moderately successful, but I don't know why. Also of note: one of the songs, "Cold Hearted Woman," was previously released on the *HOME COOKING I* album by a not-heard-from-since band called QB1. Somebody made some royalties!

1984 Van Halen

Easily the happiest metal band on earth; while everyone else is scowling, they're grinning in your face. Eddie Van Halen is a guitarist of moods. He has easily changed the way electric lead guitar has been played over the last 6 years. Few know, however, that he is a trained classical pianist and his keyboard-playing made this album rather interesting. Even though David Lee Roth is an incredibly one-dimensional singer, and Alex Van Halen has the worst drum sound I've heard, the band is still interesting because of Eddie. A virtuoso will not be denied!

YOU LEAVE ME MATHLESS

Cher Cheatham Haile

I have a real dilemma here. I am currently an AET student who is still illiterate (or is that innumerate?) in math. Well, not totally. I can still distinguish a 3 from a 5. But, apart from that, my fluency in math is equivalent to my fluency in Ancient Nahuatl-- the big "Z" (Zero, Zip, Zilch).

Speaking of Zero, my current math course number indicates a math so remedial that the first digit is a zero.

What does this mean if all Freshman courses begin with a 1? I am not a student? Not for high school graduates? "Bimbos only"? I'm sure that I deserve that. Actually, I enrolled in Math 099 of my own free will, after a close brush with Math 111. What I had seen in there left me mortified! I thought that I'd been caught in a time warp! I never realized that numbers could be assembled in such forms and quantities. I was certain a robot taught the class, so I beat a hasty retreat.

Obviously embarrassed by my Bozo math standing, I cleverly disguised myself as an EE student (not wanting to bring shame to the AET Dept.) and quietly rescheduled Math 099-- Remedial Math. Well, if this is remedial math, I'm Princess Leia! Just thumbing through the required text, *Space Math 099*, gave me an anxiety attack.

The first chapter was called "Real Numbers." Great Jabba! You mean there are *fake* numbers out there? I thought *all* numbers were *REAL*. Think of what this could mean! AT&T must be behind this. Then there was the problem of "Prime Numbers." I thought *prime* referred to ribs, steaks or TV time. Does this imply that there are *choice* numbers as well? I'm personally very fond of the number 5. But, then, if they're *FAKES* anyway, does anyone really care?

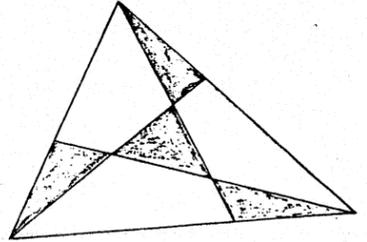
Chapter two is called "Linear Equations and Inequalities." I

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STINGERS

from de Caux



The above is a plan of a triangular plot of land. Each shaded triangle represents an area of one thousand square feet. What is the exact area of the whole plot? \$25 will be given for the first correct answer handed to me personally before the end of January 1984! You may find this puzzle challenging. I did! And yes, there is enough information given to arrive at an exact numerical answer!

C. E. Moore handed in a correct solution to #28. That must have been a difficult one. It came out in January 1981. Well done! Frank Cabeza and Ken Myers solved #67 and I.R. Smart (U.R.U.R.!), Don Halverson and Mike Beyers all had neat solutions to #68. Nice going!

cruised right on by that one, entirely.

Chapter three is called "Polynomials." I think this has something to do with cholesterol or fats or something. I think a Dr. Polly discovered these things.

Chapter four is called "Rational Expressions." Well! That is certainly nothing you'd ever hear around STI. "I'm gonna really get down and lay some cable" is not a rational expression. It's just strange.

Chapter five is called "Roots and Radicals." I think this is Alex Haley's new biography of Angela Davis.

Chapter six (see Chapter two).

Chapter seven is called "The Straight Line." Well! I'm nearly certain I can identify one of these. I've been toeing one all my life!

Chapter eight (see Chapters 2 and 6).

Chapter nine is called "Relations and Functions." Now here is a chapter we can *ALL* learn something from. Can you ever really know enough about your relations and functions? Some of mine seem to have *NO* function.

Chapter ten is called "Exponential and Logarithmic." Decyphering this, I come up with "no longer potential" (whatever that means), and "log" (got that), and "out of rhythm" (arithmic). Perhaps I should read this chapter very carefully. It could be that I, myself, could no longer be potential, and my logs got no rhythm. And who needs *THAT*?

In any event, I'm certain I need to back-space to Math 009, "Mastering the Thinner Pencil."



"Early stages of math anxiety"

ATHLETICS

FROM THE HORNET'S NEST...

After losing to North Georgia the Hornets bounced back with 3 straight victories. On Monday, January 16, the Hurricanes came to the "Nest" undefeated in district play. It was a see-saw battle, with 1:15 left to play, Southern Tech was down 65-68. Then James Prather hit a 3-pointer and Southern Tech got a 5-second call on an in-bounds play with 11 seconds remaining. After a time-out to set up a last second shot, Scott Sharp canned a 15 ft. jumper under pressure for a big 70-68 victory for Southern Tech.

Leading the way for the Hornets was Carter with 12 points and the bench contributed 36 of STI's 70 points. Danny Watkins collected 11 caroms. Marshall Taylor and David Alexander lead the Hurricanes with 17 points apiece.

After 2 very emotional games, Southern Tech might have been down; not the case against the Berry Vikings. Again the bench was a very instrumental part in this win, scoring 33 of Tech's 57 total points.

After losing their second-half, 8 point lead, the Vikings battled back and led 55-54 with 57 seconds left. After a missed free throw, Carter snuck in and tipped it home to give an important 1 point lead. Reggie Johnson had a chance to put it on ice, but hit only the first of 2 foul shots. Berry had 3 shots at the end to put the game in overtime, but failed to score and Tech won 57-55. For the Hornets, Sharp led the way with 16 points and 7 rebounds. For the Vikings, Billy Williams had 17 points and 11 boards.

On Saturday, January 21, the Shorter Hawks came to Marietta after coming off a big district win over Georgia College. The Hornets' motors never got started until midway through the second half. At half-time, the Hawks took a 22-18 lead into the locker room, while Southern Tech was shooting 9 of 23 for 39.1% from the field. The Hornets finally came around after Coach Perides urged the crowd to get behind the team.

Robots, cont'd. from page 1

numerically controlled milling machine. By using the graphics capability of the computer lab students can check cutter path programs without risk of ruining an expensive cutter or wasting material.

In addition to the scheduled classes, the MET Dept.'s staff is constantly using the computers, capabilities for such tasks as writing syllabi for other courses, solving various engineering problems, establishing grading profiles, and generally expanding the computer's role in the curriculum.

Future plans for the computer lab include an expansion in size so that more students will have the opportunity to familiarize themselves with a force that is becoming increasingly important in today's industry. The faculty is trying to expand the role of computers play in the curriculum by using them to solve problems in subjects like Kinematics, Machine Design, and Thermodynamics. Some instructors are already requiring computer aided solutions to upper-level Mechanical Engineering Technology courses.

The addition of this facility is an important investment in the future for Southern Technical Institute and underlines its commitment to continue to be the leading provider of technology graduates in the country.

Applications are available for the race, but the registration is on a first entry basis. Entries are limited to the first 500 persons with a maximum time for the completion of the course at 9 (nine) hours.

Race information and entry forms are available by writing to the Gulf Coast Triathlon Organization Committee, 7205 Thomas Drive, Panama City Beach, Florida 32407, or by calling 1 (800) 874-4440 or 1 (904) 234-6694.

INTRAMURALS

BASKETBALL SCORES

Jan. 18, 19, & 20

FAST LEAGUE

Contingent--88, Sigma nu--43
Nets--55, Sigma Pi--38
Rowdies--51, W.C.--45
Geechees--83, T.K.E.--34
Shadows--53, Lambda Chi Alpha--44
All World--72, Whos--56

SLOW LEAGUE

Sigma Nu--45, Pi Kappa Phi--17
Geechees--38, BSU--18

STANDINGS

(Non-Conference)

Conference A:

Contingent 1-0

Geechees 1-0

Sigma Pi 0-1

W.C. 0-1

Conference B:

Lambda Chi Alpha 0-1

T.K.E. 0-1

Rowdies 1-0

Whos 0-1

Conference C:

All World 1-0

Shadows 1-0

Sigma Nu 0-1

From then on, Tech finally started to play despite the fact that several players were feeling the effects of the flu. The Hornets won 56-49 with Carter leading the Hornets with 20 points and 9 rebounds. For the Hawks, David Fisher had 11 points and Mike Nance collected 7 boards.

During the past week, Rodney Carter was 16 for 23 and 7 for 9, with 18 rebounds, 6 assists, and 7 steals. The bench scored 95 of the 183 total points which gave the Hornets that extra push when it was needed.

DISTRICT 25 STANDINGS:

1) Armstrong State	9-1
2) Paine College	7-1
3) Georgia Southwestern	5-1
4) North Georgia	7-2
5) Southern Tech	4-2
6) Berry College	4-2
7) Oglethorpe University	5-3

Computers, cont'd. from page 1

oriented courses, while the TA option has more math and technically-oriented courses.

The difference between a bachelor's degree in CIST and a bachelor's degree in Computer Science at Georgia Tech, says Harbort, is that much of GT's bachelor's curriculum is geared to grad-school. Thus, it is not as much real-world oriented. CIST is also more personalized and more well-rounded than a computer programmer degree from a school like Control Data Institute.

The Computer Center, formally known as the Office of Computer Sciences, shares the old bookstore building with CIST. Dan Gustafson, head of the Computer Center, described the five major divisions of the Computer Center.

The General User Area is the main user access to the Cyber, our on-campus mainframe computer. It contains about 30 terminals tied in with the Cyber and the User Assistant Area. This area is generally used by students in all fields of study.

There is also an IBM Personal Computer Lab with about 20 IBM PC's. These are used mostly by CIST students for applications studies. However, they are available to all STI students.

There is also a Lanier word processor lab, which, Gustafson says, "is in its infant stages." Its intended use is as a general use lab for preparing finished documents such as term papers. There is also a course in office automation in the works that will utilize this lab.

The CADAM (Computer Augmented Design and Manufacturing) lab is a computer-aided design lab used mostly for mechanical drawing and circuit design.

Plato Lab is used as an aid for developmental study. Currently, courses in FORTRAN, Physics, and Chemistry are offered. There are, however, plans for more.

It should be stressed that 1) the computer center is for every student at STI and 2) it is an office for Computer Services and is *not* related to CIST or the registrar.

It is indeed exciting to see the promising prospects both CIST and the computer center can offer Southern Tech. If this article sparks some interest in finding out more, go on over and inquire. Both organizations are happy to help and sooner or later you will encounter a course which will require spending time there anyway.