South Koreans Visit Southern Tech

On the 12th and 13th of this month, a group of 37 South Korean educators attended a presentation by the Placement and Co-op offices. The two-day seminar, arranged by Mr. Paul Smith and Mr. Regina Doyle of the aforementioned offices, introduced a concept that the South Koreans were eager to apply to their home situation—that of bridging the gap between graduation from a technical college and employment in a related field. That gap, which is paralleled here in the U.S., is considerably more difficult in South Korea; for every 80 graduates from a technical school, there is only one job opening.

However, there is much interest in creating placement and cooperative education services in Korean schools and universities. The country is experiencing rapid economic growth; General Motors, for example, plans to locate automobile manufacturing plants in Korea. Other industries, such as the microelectronics industry and the textile industry, plan to make moves to the East Asian country because of the high quality of said products coupled with reliable, inexpensive labor.

It is interesting to note here (before the cry "exploitation!" is heard) that a South Korean professional earns roughly 10 percent the salary that his American counterpart earns—but the prices on goods and services are in proportion with the lower salary. The educated employed South Korean enjoys a standard of living quite comparable to ours—something that nations such as Great Britain cannot presently claim.

Thus, Monday of this week, the Placement office enlightened the educators with a history of the Southern Tech placement service, then followed this with a discussion of Placement objectives. This, in turn, was followed by the Co-operative Education presentation, which stressed the benefits and advantages of co-op participation, both in terms of the school and the student and the sponsoring industry.

On Tuesday, Professors Robert Kramer of the CEE Department and Doug Black of the IEE Department spoke on the subject of co-op job development. Finally, a panel of Southern Tech co-op students talked of their job experiences. Mitch Statham, Claudia Wight, Leon Cleghorn, John Barwood, and Andy Womack deserve mention here for their help.

Although the Korean faculty members have completed their Placement/Co-op Seminar, their contact with Southern Tech is far from done. This summer, the South Korean government, which recognizes Southern Tech as an idea of an immensely useful four-year...
Editors’ Corner

Winter quarter has started with the normal amount of fear and loathing on the student’s part and what a better way to begin than standing in line. I have been the victim of many registration battles. I am not a student, but rather a member of the clergy and I have taken on the role of a student in order to better understand the problems that they face. I have found that there is a great deal of uncertainty and frustration on the part of the students. This is due to the fact that the registration process is not very efficient or user-friendly. It seems to be a very complex and confusing process that is difficult to understand. I believe that there should be a more streamlined and efficient registration process in order to better serve the students. It is important to provide a clear and understandable process that allows students to easily register for the courses that they need.

In The Queue

Out of any other country without wasting Ronnie’s permission first! This is the name he gave to the Cambodian General who issued a warrant and took Ronnie’s name. In 1950, he, as Auerhan, Chief of Staff, was the one who kept the press away from Nixon, tried to impede the Grand Jury’s investigation and actually fired Archibald Cox because he did his job too well and (God forbid) the American people should find out the truth. But through it all, his ego has remained intact (when your standards are so low, it’s easy to meet them). As quoted from Newsweek: “I have no regrets, and I would not hesitate to do everything the same way again.” This is the man who, as Secretary of State, would be entrusted to maintain peace in the Middle East, guarantee security for Western Europe, and negotiate aid for Central American nations. His only words, to speak are: “We mustn’t become a country like America—aake US! Politics will always be just another ploy of bovine existence!” I hope that you, all you 35 and 39 year old siblings have registered for the draft—just to SAVE TIME.

James Watt is another ridiculous nomination by Reagan. His whole qualification for the post of Interior Secretary is that he is an anti-environmentalist. Putting Watt in charge of the Interior is like having an Iranian guard your embassy, or a thief guarding your jewels. As chief legal officer to the Mountain States Legal Foundation, his job was to sue the Interior Dept. and challenge EPA regulations, and land management policies, in court. He got rich doing it, so I guess he was successful. If this isn’t a conflict of interest, I don’t know what is. Both the Audubon Society and the Sierra Mountain Club are vehemently against this man’s nomination, and the sting is also. It should scare both you and me that we could have a man in this office who will, simply, take no measures to insure the survival of our national environment.

HAI AND WATT

Anyway, about his cabinet, a couple of these guys’ nominations should be delayed indefinitely! Take Alexander Haig for instance (please!); I think it’s great that we can have a former NATO commander as our Secretary of State. Think of it, he can now scare the hell out of any other country without wasting Ronnie’s permission first! This is the man whom I gave to the Cambodian General who issued a warrant and took Ronnie’s name. In 1950, he, as Auerhan, Chief of Staff, was the one who kept the press away from Nixon, tried to impede the Grand Jury’s investigation and actually fired Archibald Cox because he did his job too well and (God forbid) the American people should find out the truth. But through it all, his ego has remained intact (when your standards are so low, it’s easy to meet them). As quoted from Newsweek: “I have no regrets, and I would not hesitate to do everything the same way again.” This is the man who, as Secretary of State, would be entrusted to maintain peace in the Middle East, guarantee security for Western Europe, and negotiate aid for Central American nations. His only words, to speak are: “We mustn’t become a country like America—aake US! Politics will always be just another ploy of bovine existence!” I hope that you, all you 35 and 39 year old siblings have registered for the draft—just to SAVE TIME.

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The Sting

E.R. Auerhan - Editor
Stephen Cantrell - Assistant Editor
Joy Cantrell - Typist
Ken Shaw - Sports Editor
Richard Boggs - Artist
Jeff Godwin - Advertising
Bill Bebee - Photographer
Terry Clayton - Reporter
Allen Bearden - Reporter
Dr. Carol Hearn - Advisor

The Sting is published bi-weekly and our next issue will be distributed on January 30. We encourage our readers to contribute reviews, articles, or editorials, to YOUR newspaper, the "Sting."
Some people argue that classes would be too long and boring. Southern Tech’s professors are capable of making their classes interesting enough so they will not be boring. Students could benefit by the long classes because their flow of thoughts would not be interrupted. Professors could benefit by this because they would not have to go over old material to refresh the students’ minds. I feel it is time for a change in Southern Tech’s schedule for night classes. Students and faculty could benefit from this proposed change greatly. Having Friday nights free and reducing the amount of driving are two big advantages of not having Friday night classes. I urge night school students and faculty to get involved and abolish Friday night classes.

Greg Davidson

Blacks Say No Red Carpet for Reagan

Ronald Reagan will officially become this country’s next president on January 20, 1981, but most black Americans will not roll out the red carpet for him. Reagan, who was a Republican governor of the state of California, won by a landslide victory over President Carter in the 1980 Presidential election. Many blacks feel that this country’s new president is simply not the best man for the country. And, as a result of this feeling, many blacks say they will have no political clout, racial tensions will increase, and they will sit idled for the next four years with this new incoming administration.

One reason why blacks will not roll out the red carpet for Reagan is that blacks feel they will not have any political clout during the next four years. And with no clout, nothing can be done to change things. Things such as job discrimination and an extremely high unemployment rate among our nation’s black teenagers may never receive attention by this new administration. Reagan did say, however, that he was going to provide jobs for the unemployed. But turning to the issue of minorities in the Reagan administration, this administration found out quickly that this position to fill would not be an easy task. The Reagan team was looking at Mr. Sanchez, a Mexican-American, to be appointed to his cabinet. Sanchez later said he had other business interests therefore he would not work for the Reagan team. Also, during the time Reagan was appointing people to top positions in his administration, blacks were scarce for him to choose from. None seem to want to work under Mr. Reagan. For example, U.N. Ambassador McFarley resigned on December 17, 1980. He said that he would not serve in the Reagan administration even if requested. Reagan did appoint one black to a top position in his administration.

(cont. on p.4)
The Moral Majority

The Moral Majority is a fundamentalist lobby headed by Reverend Jerry Falwell who is a very controversial figure. Falwell first came to prominence as a pastor to a national congregation of TV viewers who watched his "Old Time Gospel Hour." The Moral Majority was formed in 1979 when Falwell decided to use the power of the pulpit to make an argument expressing his and a group of Christian activists' displeasure over the Supreme Court abortion ruling of 1973.

Presently, the Moral Majority has chapters in all 50 states and claims 75,000 clergymen and 6 million lay members. During the past 19 months, Falwell has persuaded his followers in attacks on liberal candidates and calling those who do not share their belief on abortion immoral.

Falwell would have us believe that the Moral Majority is not a religious organization, but a political organization. However, he strongly imposes his Biblical morality and view on elected government officials. As for the ERA, the Moral Majority view is that women are equal to men, but men must remain in authority. Also, they feel that the ERA condones and perpetuates homosexuality as an alternative lifestyle. As far as Falwell is concerned, socialism becomes obsolete with the election of Ronald Reagan as president. He also feels that the issue of National health insurance is dead.

Seemingly, the Moral Majority can also influence what we do in our homes. The Moral Majority has threatened to boycott certain products if they advertise on certain television programs that are considered immoral. Certain companies, out of fear of losing revenue, chose not to advertise. The public should decide what shows they want to watch and what products they should buy.

The highest priority of the Moral Majority is the passage of the human life amendment which would protect innocent unborn children, saying nothing for the mother and her choice. In a democratic society we do have choices. We can choose to follow Falwell or not. Issues that might be important to some Americans are not important to the Moral Majority. National health insurance is dead; ERA is dead, Ronald Reagan is president, and the military-industrial complex is very much alive. Is the answer really over faith or tyranny from the pulpit? The choice is yours and so is the final commitment.

Terry Drayton

Classifieds

AVON Buy beautiful Avon products or make money in your spare time. Please call Trisha Abbott 434-836C.

BECOME A COLLEGE CAMPUS DEALER, SELL BRAND NAME AUDIO & VIDEO COMPONENTS. LOW PRICES, HIGH PROFITS NO INVESTMENT NECESSARY. FOR DETAILS CONTACT: SOUTHERN ELECTRONIC DISTRIBUTORS 2125 MOUNTAIN INDUSTRIAL BLVD. TUCKER, GA. 30084... OR CALL TOLL FREE (800) 444-4400... ask for Mr. Lebowitz

WANT TO SELL...? 1 mens 5-speed, Sears, green, very good condition, with racing tires-$ 40. Call Jeff @ 432-0583, 6 PM

LADIES DIAMOND RING in 14 K setting. Paid $995. Sacrifice at $695 Call 428-2097

NEED A RACING TUB ? Cast-Iron Antique Bathtub for sale, $15C call 428-4727, Ask for Charlie
Support for the ERA continues to grow in Georgia! Do you know that Georgia was more successful than any other unratified state in returning ERA supporters to the state legislature and in adding new ones?

Let's keep this momentum going! Give us a strong show of support by attending YES ERA Day on Monday, Jan. 19 at the Capitol. Joining us in the cause in Georgia is Sonia Johnson, who sacrificed her membership in the Mormon Church in order to stand firmly for what she believes is right and just: the ERA.

Please show your support for Sonia and the ERA by attending an ERA fundraiser featuring speaker Sonia Johnson, to be held Sunday evening at 3 p.m. on January 18 in the Presidential room (the round hotel at the intersection of 1-85 and 285). (Take the Chamblee Tucker Exit off 285, then turn right on luckeye.)

The dinner will be held in the Enter-

prise room with tixes at $20 each, with a special rate of $10 for students. The hotel also is offering a special rate to out-of-town ERA supporters: $35 per night. Reservation may be made by writing the Presidential Hotel, 4001 NE Expressway, Atlanta, GA 30340.

This fundraiser is co-sponsored by ERA Georgia, the Georgia Women's Political Caucus, AAWW, The League of Women Voters, The National Women's Party, NOW, Federally Employed Women, and the National Council of Jewish Women.

FREEDOM FROM SMOKING

Atlanta—Each year thousands of smoking smokers are in smoking this year. Many succeed but many more do not. To help improve the odds and offer support, the Lung Association has developed FREEDOM FROM SMOKING. This

zymatic, fully illustrated, two-part manual is available now for holiday living and in a really made for the person making a New Year's resolution to "kick the habit."

This existing program is the culmination of four years of collaborative planning, study and research of the American Lung Association and its medical section, the American Thoracic Society.

"FREEDOM FROM SMOKING" is packaged in separate booklets. The first book-
et, Freedom from Smoking in 20 Days, is

d a day-by-day plan to help the smoker educate and eventually quit smoking.

his first manual gives 20 days of specific activities designed and tested to help the smoker understand their smoking better... so they can stop," says Dr. James K. Van Buren, President of the Georgia Lung Association. For more information, contact the Georgia Lung Association, 1383 Spring t., N.W., Atlanta, Georgia 30367 - 404) 876-3601.

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**Tony's Oyster House**

- **12 oysters or shrimp** for $3.00!
- pitcher draft beer

- homemade chili & beefstew

Near STI? 1 block west on right

422-2034

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**"The Meaning of Darwin's Revolution"**

The Natural History magazine columnist

Stephen Jay Gould will speak on "The Meaning of Darwin's Revolution" Monday, Jan. 19, at Agnes Scott College. Dr. Gould, professor of geology at Harvard University, will lecture at 7 p.m. in the Winter Theatre of the Dana Fine Arts Building. The public is invited, free of charge.

Dr. Gould, a paleontologist and evolu-
tionary biologist by academic training, writes the monthly column "This View of Life" for Natural History. He is the author of the books "Ever Since Darwin" and "Ontogeny and Phylogeny."

Dr. Gould earned his undergraduate degree at Antioch College and his doctorate in paleontology at Columbia University. His research interests include among others, the history and philosophy of geology and evolutionary biology. He is a National Science Foundation grantee and a member of Sigma Xi, the honorary science society, as well as the Society for the study of Evolution and the American Society of Naturalists.

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**CHRISTIAN SCIENCE LECTURE**

A free Christian Science lecture entitled "Christian Science: The Touch of Spirit" will be given Tuesday, January 20th at 8 p.m. in Cobb County Civic Center Theater Auditorium by Dr. Gordon B. Clarke from Milwaukee, Wisconsin. Mr. Clarke is a member of the Christian Science Board of Lectureship.

This lecture is presented under the auspices of First Church of Christ, Scientist, Marietta, Georgia.

Amped parking and child care provided. All are welcome.

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**The Renaissance Mirror**

Is your world changing faster than you are? (Is anything that was true still true?)

A clearer insight into your own reflections upon these questions may emerge from the more distant mirror of the Renaissance. Then, as now, men coped with change by changing their ideas. Gaze into this fascinating period with us and illuminate your own beliefs.

For eight winter Wednesday evenings Ron Byrnside, Catherine Evans, Brad Fletcher, and Bob Selin will focus on notions of the individual and his world and how these notions altered the course of the 16th century. Look in this period of rebirth in art, science, music, literature, religion, and politics and see some present concerns mirrored there. Each night will be special. One whole evening will be devoted to live choral and instrumental music and the Agnes Scott Dance Company will perform for us.

To glimpse yourself and your world in "The Renaissance Mirror: Reflection of the Sixteenth Century," please send your $30.00 check after November 30 to the Member's Guild Office of the High Museum. Checks should be made out "Winter Lecture Series." Meet in the Walter Hill Auditorium on Sunday January 21st at 8 p.m. and regard the rich images of the Renaissance with us.

Questions? Call Laura McNeill at 237-3439 or Laura Kearney at 266-0792.
Mike Williams

Country-folk songwriter Mike Williams will bring his booming bass voice and 12-string guitar to Southern Tech Student Center Wednesday, Jan. 28 at 8 p.m. Admission is free.

The six-foot-two-inch unreformed hippie promises to “tickle your insides and rearrange your brain” in his 2-hr performance.

Acclaimed by student audiences as one of the strongest solo acts in the country, Williams has performed at nearly 200 colleges nationwide and more than 100 clubs.

Williams has also opened concerts headlined by more than thirty nationally known acts, including Emmylou Harris (who he used to sing with), Jimmy Buffett, Steve Martin, Tanya Tucker, Earl Scruggs, and Jerry Jeff Walker.

A veteran of fifteen years of the road, Williams has three albums of this original songs released on Austin, Texas’ B. F. DEAL label. Albums will be on sale at the show.

“I love this 12-string guitar,” he says, patting his incredibly battered instrument. “It is as rich as an orchestra. I have been playing 12string exclusively since before I got laid. There is no comparison.”

JANUARY 1981 ACTIVITIES CALENDAR

Jan. 17, 1981 - Basketball vs. Shorter College, away
Jan. 19, 1981 - Basketball vs. Oglethorpe Univ., home, 7:30 p.m.
Jan. 20, 1981 - BSU meeting, room 120, 12 noon
Jan. 21, 1981 - Basketball vs. LaGrange College, away
Jan. 22, 1981 - CAB Cinema presents “Final Countdown” starring Kirk Douglas, 4 and 9 p.m. Student Center Ballroom, Admission, 50c
Jan. 23, 1981 - Congratulations to Pi Kappa Phi Fraternity on their chartering as STI’s newest fraternity
Jan. 24, 1981 - Ga. Real Estate Exam, 8:30 a.m., Student Center Ballroom
Jan. 26, 1981 - Basketball vs. Piedmont College, Home, 7:30 p.m.
Jan. 27, 1981 - Placement Center Night featuring Southern Bell, 5-10 p.m., Student Center Ballroom
Jan. 28, 1981 - CAB presents “MIKE WILLIAMS” in CONCERT, Student Center Snack Bar Area. Come for a fun night of “Pickin’ and Grinnin’”, 8 p.m.
Jan. 29, 1981 - CET Surveying and Mapping Course
Jan. 31, 1981 - CET Surveying and Mapping Course
Jan. 31, 1981 - Basketball vs. North Georgia College, away

INTERNATIONAL STUDENT INFORMATION

All International Students are required by Southern Tech to have a major medical health policy. All new students who transferred to Southern Tech, and returning students not here Fall Quarter 1980 must see the International Student advisor immediately to verify that they have the policy or purchase the policy available through Southern Tech.

The International Office is located in the Administration Building, room 100. Failure to do this will result in your records being frozen and you will be unable to pre-register or register for the Spring Quarter 1981.

All International Students are required by the Federal Government to register during the month of January. This requirement is for immigration to have your latest address.

Alien forms for this purpose are available at the Southern Tech post office. You should obtain these forms immediately after reading this announcement so you will not forget to do so prior to February 1, 1981.

All International Students who are new to Southern Tech or who have transferred to Southern Tech and commenced college on January 6, 1981 should have previously filled out an I-538 and had it signed by your previous college, enclosed this form along with your I-20 and I-94 and sent it to the Immigration office in Atlanta. If you came direct, from your home country you should have had your I-20 picked up by immigration and had your I-94 stamped and marked for Southern Tech.

If you have not done this you should see the International Advisor at once.

...THIS IS THE U.S.S. NIMITZ...
WHERE THE HELL ARE WE?...

THE FINAL COUNTDOWN

CAB presents “The Final Countdown”, January 22, in the Student Center Ballroom. Times: 4 and 9 P.M., Admission is 50c.
TAU ALPHA PI NATIONAL HONOR SOCIETY

TAU Alpha Pi was founded in 1953 to provide recognition for high standards of scholarship among students in technical colleges and universities and to engender desirable qualities of personality, intellect, and character among engineering technology students. If you have earned more than 23 credit hours at Southern Tech and have a 3.5 G.P.A. or better, you are eligible to join this society that recognizes scholastic achievement of engineering technology students across the nation. If you are interested in joining, please contact one of the following:

PAUL JABOLEY P.O. BOX 8344
MIKE STATHAM P.O. BOX 9157
PAUL WOJNOWIAK FACULTY ADVISOR
EET BUILDING

The Tau Alpha Pi bookstore is being discontinued. If you have to reclaim any books, please contact Paul Jaboley or Mitch Statham, or leave your name and phone number on the list at the office before the end of the quarter. Thank-you.

INTERFRATERNITY COUNCIL

The IFC is sponsoring a rush party on Monday, January 19, 1981 at Ruby Red’s. Beer will be 2 for 1 from 7:00 til 9:00. There will be entertainment and a large crowd, so come on out and have a great time.

FREE HEALTH SCREENING

On Tuesday, Feb. 3 and 10, Registered Nursing Students from Breneau College will be in the Student Center offering free health screenings. Come and have your vision, hearing and blood pressure checked anytime from 9 a.m. to 4 p.m., ground floor of the Student Center.

BLACK STUDENT ASSOCIATION

BLACK STUDENT ASSOCIATION

THE CHESS CLUB

We were told it couldn’t be done. During the last quarter break, a team from Southern Tech played in the Pan-American Intercollegiate Chess Championship, held this year in Atlanta, and tied for second place in their division. Fifty-three other colleges from all over the United States and Canada sent four-man teams including 17 masters to determine which school would win the North American chess championship. The tournament lasted five days with each team member playing eight games against eight different schools. All of the teams were placed in one of six classes of play, depending on the average ratings of the team members.

Southern Tech played in the 1800-1900 division, although many of the rounds were against teams from stronger divisions. Because of a last-minute withdrawal of one of our team members, STI played one man short with a three-man team, which meant we lost one game every round automatically. We were never told that with this disadvantage we could not possibly win anything. Due to superior play, determination, and a small amount of luck, our team beat the odds and tied for second place with Clarion State! The individual scores of two of our team were better than those of Rose-Hulman Tech, who played first in their division.

Congratulations to Bill Prouty, Joe Gedrock, and Michael Dean for their victory in Southern Tech’s first ever attempt at chess competition.

The STI chess club meets daily in the bottom of the student center around noon. Inquiries can also be sent to the chess club mailbox, addressed to Michael Dean. Membership is free of charge to all SHI students.

schedule of events for winter quarter

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<tr>
<th>Date</th>
<th>Place and Event</th>
<th>Time</th>
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<tr>
<td>Jan. 7</td>
<td>Party, Student Center</td>
<td>7 p.m. - until</td>
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<td></td>
<td>Ballroom</td>
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<td></td>
<td>Meeting, Library Seminar</td>
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<td>Room</td>
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<td>Jan. 15</td>
<td>M.L. King Birthday, meeting, 12 Noon</td>
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<td></td>
<td>Library Seminar Room</td>
<td>12 Noon</td>
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<td></td>
<td>Meeting, Library Seminar Room, guest speaker: Barbara Anderson; Social Set (1), 7 p.m. - until</td>
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<td>Jan. 29</td>
<td>Deadline for BSA Dues</td>
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<td>Feb. 5</td>
<td>Meeting, Library Seminar</td>
<td>12 Noon</td>
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<td>Room; speaker: Mr. Mel</td>
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<td></td>
<td>Tuggle</td>
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<td>Feb. 10</td>
<td>Black History Week</td>
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<tr>
<td>Feb. 15</td>
<td>Meeting, Library Seminar Room, Homecoming</td>
<td>12 Noon</td>
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<tr>
<td>Feb. 21</td>
<td>Roller or Ice Skating</td>
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<td></td>
<td>(Place and time to be announced)</td>
<td>12 Noon</td>
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<tr>
<td>March 3</td>
<td>Library Seminar Room</td>
<td>12 Noon</td>
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STINGERS

The following two-person puzzle and paper game called "IT" is played as follows:

Draw 12 circles on a piece of paper all of the same diameter arranged as shown above. Then the two players each choose a different colour and take turns colouring one uncoloured circle with their own colour. The first player to have three circles of his colour whose centres form the three corners of an equilateral triangle LOSES. The player who doesn’t lose of course wins. For example suppose one player chooses white (W) and the other chooses black (B). White plays first and his successive moves are indicated W1, W2, W3 and W4. Black’s moves are indicated B1, B2, B3 and B4. Black loses because his three circles are indicated: W1, W2 and B4, have centres which form the corners of an equilateral triangle. Have you got the idea? Well, this week’s STINGER is to find out if the game of "IT" can end in a draw, that is with neither player losing and no more circles left to colour.

SINCE AGAIN the team of David Schornak and Mike Sorell are off to Sharonarked on her now and solve STINGER #26, still don’t?

AIA STUDENT CHAPTER

Happy New Year everyone. The AIA is looking forward to having a good quarter this winter. Our first meeting will be at 12:00 in rooms 119 & 120 of the Student Center on Wednesday, January 21. All other meetings for this quarter are as follows:

Jan. 21
Feb. 4 and 18
March 4

We will also schedule one group tour this quarter at a date to be agreed upon.

See you at the meetings Steve Louis
What's happening

FINANCIAL AID PLANNING CALENDAR

ENROLLED STUDENTS

January 1 - April 1  Period to submit new or renewal applications for the following academic year.

March 1  Deadline to apply for short-term loan for Spring Quarter Registration if funds are expected before late fees apply.

April 1  Deadline for submission of new or renewal applications for financial aid (scholarship, loan, etc.) for the following academic year. Submission deadline for the Financial Aid Form to College Scholarship Service.

April - May 15  June graduating seniors should schedule an exit interview with Business Office if National Direct Student Loan has been received during college career at Southern Tech.

May - August  Notification of action taken on financial aid application.

June 1  Deadline to apply for short-term loan for Summer Quarter Registration if funds are expected before late fees apply.

August 21  Deadline to apply for short-term loan for Fall Quarter if funds are expected before late fees apply.

September 1  Deadline to apply for short-term loan for Winter Quarter if funds are expected before late fees apply.

Placement and Co-op

PLACEMENT AND CO-OP BULLETIN

Friday, Jan. 16 - Factory Mutual Engineers - All Degrees
Friday, Jan. 16 - Amoco Fabrics, IET, DET
Tuesday, Jan. 20 - West Point Pepperell - DET, TET, AMET
Wednesday, Jan. 21 - Gould, Inc.
Wednesday, Jan. 21 - Gearhart Ind. CET, DET, DET
Wednesday, Jan. 22 - Oxford Industries - IET, DET, AMET
Thursday, Jan. 22 - TVR Resistors - DET
Thursday, Jan. 22 - Shaw Industries
Thursday, Jan. 22 - Industrial Risk Insurers
Friday, Jan. 23 - Monsanto Company - DET, DET
Friday, January 23 - Westinghouse Electric
Monday, Jan. 26 - Honeywell, Minneapolis - DET, DET
Tuesday, Jan. 27 - Florida Power and Light - DET
Wednesday, Jan. 28 - Southern Can Company - DET, DET
Wednesday, Jan. 28 - Levi Strauss
Thursday, Jan. 29 - Union Carbide - Greenville - DET, DET, DET
Thursday, Jan. 29 - Plantation Pipeline - DET

CO-OP — CO-OP — CO-OP

Campus interviews for co-ops:

Jan. 19 - Reliance Electric - Athens, GA - DET
Jan. 22 - Shaw Industries, IET, DET

Other co-op openings as follows:

Atlanta Gas Light Co. - DET
Forst McKeehorn - DET
IBM - DET
Emory Hospital - DET, DET
Gould - DET, DET, DET (2)

If interested in the above, sign up with Mrs. Cochran in Room 125 Administration Building.

Any student interested in a co-op program can come by and talk to Mrs. Boyle or Mrs. Cochran in the Co-op office.

VETERANS INFORMATION

All veterans attending Southern Tech for the first time must have filled out forms so they can be sent to the Veterans Administration. When the veteran has registered he must come by the VA office (room 101 Administration Building) and fill out a status sheet. Unless these two things are done the veteran will not be certified and he will not receive his benefits.

The office has certified all veterans who have done the above and their benefit will arrive approximately February 9, 1981.

SOUTHERN TECH JAZZ ENSEMBLE

One of the most active and exciting organizations to come onto the campus scene is the Southern Tech Jazz Ensemble. Briefly, the Jazz Ensemble is a campus activity that offers the student the opportunity to expand and develop their musical talents in an enjoyable atmosphere while providing the Southern Tech community with musical exposure to a wide range of jazz music performance. Participation in the Jazz Ensemble is currently non-credit and rehearsals are held each Tuesday and Thursday night from 7:30 to 9:00 P.M. in the Student Center.

If you have any questions or would like further information, please feel free to call me at 506-7151 (after 5:00 P.M.) or drop me a line, R.O. Box 99.

A great college deserves a great band and a great band needs you.

C.F. Adams, Jr.
Director

INCRIMENT WEATHER PLAN FOR SOUTHERN TECH

Several area media will broadcast news of school closing or delay of classes at Southern Tech in case of hazardous weather conditions this winter. News of class delay or cancellation, in addition to news as to whether faculty and staff should report to work, will be broadcast on the following stations.

First decision will be made later in the day regarding evening classes; and, news of decisions made as to cancellation of evening classes will be broadcast in the afternoon beginning around 3 p.m.

STATIONS TO BROADCAST NEWS OF SOUTHERN TECH ON DAYS OF HAZARDOUS WEATHER

1. WSB AM 620, AM 750 on the radio dial

2. WQXO 940 AM

3. WQHO 92.9 AM on the radio dial

4. WPCH 94.9 on the radio dial

5. WPOM 1250 AM on the radio dial

6. WEBS 101.1 FM

7. WOUB 101.1 FM (Marietta station)
FUTURISTS, SCIENTISTS, THEOLOGIANS TO SPEAK ON ETHICAL ISSUES OF SCARCE NATURAL RESOURCES

DECATH, Ga.—Barry Commoner, environmental biologist and the Citizen's ally 1980 presidential nominee, will join a distinguished list of speakers at the Atlanta Environmental Symposium January 27 and 28, 1981, at Agnes Scott College in Decatur.

Entitled "The Ethics of Scarcity," the symposium will feature Dr. Commoner along with the ecologist Eugene P. Odum, he Pulitzer Prize-winning environment writer Robert Caro, the independent futurist Hazel Henderson, the cultural historian William Irwin Thompson, the human rights leader Joseph E. Lowery, the political scientist and community leader David W. Orr and several other ethicists and political scientists including Ossian Sweet, Elizabeth and David Olson Gray.

The purpose of the third Atlanta environmental symposium has been explained by its organizers, Agnes Scott faculty members Steven A. Mason, political scientist; Robert A. Leslie, a statistician; and Harry Windrass, biologist. They have stated: "One of the major questions society will have to answer in the near future is how scarce resources will be allocated as the age of relative material abundance draws to a close. How these resources will be allocated will determine political and economic systems. Even to exist in a moral society, many questions should also be addressed before resources are allocated. These questions involve the ethics of technology, technology, ecological, and all other, ethical aspects of our civilization."

Dr. Commoner, director of the center for the Biology of Natural Systems, Washington University, will open the symposium Tuesday at 8 p.m. with a talk on the nature of the scarcity of natural resources. All symposium events, except the luncheon address, will be held at Wesley Hall. The luncheon address will be in Evans Dining Hall.

AGNES SCOTT'S FILM SERIES

Show time for all movies in the series is 7 p.m. in Butler Hall Film Room C-4. Admission is $1.00.

The winter film schedule is as follows:

Jan. 20, "Adam's Rib" (1949), starring Katharine Hepburn, Spencer Tracy, Tom Ewell and Judy Holliday in a courtroom comedy featuring Hepburn and Tracy as opposing lawyers married to one another.


CITIES IN SPACE

As we look to the future, we must consider the possibilities of living and working in space. Fernbank's planetarium presentation "Colonies in Space" will explore the realistic possibilities of such a venture as well as the benefits for the future generations on Earth.

Beginning January 6 and continuing through March 15, 1981, this program will also discuss the space shuttle, our first step toward the colonization of space. Public presentations are Tuesday through Friday evenings at 8 p.m.; and Saturdays and Sundays at 3 p.m. Admission is 75c for students and $1.50 for adults.

Fernbank planetarium doors open one-half hour prior to each schedule presentation. Children under 12 years of age must be accompanied by an adult. Children under 6 years of age are not admitted.

Visit Fernbank, where science becomes adventure! For more information, please contact Dekalb School System's Fernbank Science Center at 375-4331.

AMATEUR PHOTO CONTEST

NASHVILLE—THE GREAT AMERICAN PHOTO CONTEST with its GRAND PRIZE of $10,000 and 458 overall winners is now accepting entries. DEADLINE MARCH 27, 1981. Small entry fees are required with a special incentive for early entrants. All contestants who postmark their entries by Feb. 13, 1981 can enter an equal amount of additional photos at no extra cost.

THE GREAT AMERICAN PHOTO CONTEST is open to AMATEUR PHOTOGRAPHERS only. There are two wide fields of competition: THE GENERAL COMPETITION, in which any type of camera can be used, includes PEOPLE, TRAVEL-NATURE, and OPEN categories. The General Competition offers a GRAND PRIZE of $10,000 and four FIRST PLACE PRIZES of $500.00 each for the Color and Black and White Division in each category. THE INSTANT DEVELOPING COMPETITION, in which only instant processes cameras are used, offers a Grand Prize of $1,000 and 250 other prizes.

In addition to the 458 Prizes to be awarded, all winners will be given the opportunity to be PUBLISHED (an important step to the aspiring photographer) in a PORTFOLIO OF WINNERS at contest's end.

If you would like an entry blank and brochure, write: THE GREAT AMERICAN PHOTO CONTEST, P.O. Box 120050, Nashville, Tennessee 37212; or call toll free 800-251-1790.

ANNUAL BAPTIST CONVENTION

Every year the Georgia Baptist Convention sponsors a conference for international students of various religious beliefs to discuss religion with other students in Georgia. This year, the conference will be held from January 23-25, 1981 at Toccoa, Georgia. The conference will begin at 9:00 p.m. on Friday and will end after lunch on Sunday. Participants are welcome to attend a presentation of the Christian faith on a voluntary basis.
Welcome back to Southern Tech! Welcome back to course overloads, standing in line for an hour and a half to sign for courses that filled while you were in the line, to the posting of poorly painted yellow cutoffs from records for library fines that were paid for, outrageous book and supply prices, and another installment of the Calculator Corner.

This week's installment is a hodgepodge of general programming tips, rather than a program. Topics covered will range from the use of the hierarchy register commands to two very short and (maybe) useful utility routines.

The hierarchy registers are the internal work registers used by the calculator to store intermediate operands and operators as interred by the parenthesis and the ADS (Algebraic Operating System) feature of the calculator. There are eight registers, which is the reason the machine will store only a maximum of eight pending operations. Normally, parenthesis and ADS is the only way these registers can be accessed. But there is another way to randomly and directly access these registers in such the same manner the regular data registers are accessed. The method used is to synthesize a two step HIR command in the program memory by way of the [STO] command. The format of the hierarchy code is HIR xy, where 'x' is the function to be performed on the hierarchy register, and 'y' is the register number. The 'x' function codes are 0 = add, 1 = recall, 3 = sum, 4 = product, 5 = inverse sum, and 6 to 9 = inverse product. The 'y' register code runs from 1 to 8, inclusive.

Say, for instance, you wanted to recall the contents from hierarchy register 4. You would first key in [STO] 8 2 [STO] 9 4, then go back and delete the stores. The result would be:

```
82 82 HIR
04 04
```

in program memory, where xxx represents two consecutive program locations. One way to cut down on the keystrokes needed to create the HIR codes is to use other legal keycodes to create the operation-register (xy) codes. For example, keying in [STO] 8 2 1/x and deleting the [STO] will create the hierarchy code HIR 35, which the calculator interprets as inverse sum of the contents of the display register in hierarchy register 5. The primary advantage of using the hierarchy registers directly is to cut down the number of program steps, and as temporary data storage when the primary data registers are all being used for something else by the program.

A word of caution; always remember to be sure that when you do use the HIRs directly, that you do not disturb any in process operations or data places in the HIRs and needed for a later use is inadvertently wiped out by a special function or ADS.

Harris is a rundown on how the calculator functions use the HIRs:

1. Nested arithmetic and ADS operands are pushed into the HIRs 1 to 8. As each parenthesis is closed, the stack drops from 8 to 1 and places the intermediate result in the display register and HIR 1.
2. With the print functions (OP 1-6): OP 1 uses HIR 5, OP 2 uses HIR 6, OP 3 uses HIR 7, and OP 4 uses HIR 8. OP 5 prints the contents of all four registers, while OP 6 prints HIR 8 only and the display.
3. OP 12 uses HIR 8 and the first 3 available HIRs (pending operations)
4. OP 13 uses the first four available HIRs.
5. OP 14 and OP 15 are the same as OP 12.
6. Polar to rectangular conversions use the first available HIR and HIR 7 and HIR 8.
7. Rectangular to polar conversions use the first two available HIRs and HIR 7 and 8.
8. Sum plus and inverse sum plus use HIR 7 and 8.
9. Inverse-minutes-seconds and inverse degrees-minutes-seconds use the first two available HIRs and HIR 8.
10. OP 11 uses the first 2 available HIRs.
11. Inverse x uses the first available HIR.

It may all seem confusing, but when use of the HIRs is mastered, you'll find the added flexibility worth the effort.

Two small routines you may find useful are a routine to indicate the status of the angular mode the calculator is in and a routine to show the guard digits of the display.

The first routine is as follows:

```
000 76 LBL
001 11 A
002 55 +
003 53 /
004 52 EE
005 50 LrE
006 52 EE
007 55 *
008 52 EE
009 00 0
010 00 0
011 54 )
012 02
013 01 1
014 52 EE
015 04 4
016 22 INV
017 52 EE
018 95 -
019 22 INV
020 59 INT
021 91 R/S
```

The routine works in any fix mode, and in EE mode. Answers should however be viewed in FIX 9 and INV EE display. For numbers greater than t1, the routine returns with the last seven significant digits. With numbers less than t1, the routine returns with 8. For example, key 1 [INV] [LINV] [a] 10 [INV]*[LOG] [e]. The display should show 2.7182818 10. Now press [A] and observe 0.81828459. Notice how this shows the last 3 digits (818) of the first number, and the five hidden digits in the display. This means the number is really 2.718281828459 10.

Next issue I hope to bring you a very big bunch of calculator programs. With these programs, you can simulate orbiting and landing on Mars in three dimensions.