



J. Ufrand



R. Evans



T. Cuba



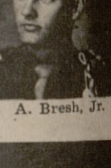
J. Kahn



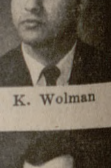
C. Brown



D. Gill



A. Bresh, Jr.



K. Wolman



S. Higg

Nuclear Reactor Yields Research For Southwest

By SALLY HAMILTON
One of the largest nuclear reactors on any campus is housed here at Texas A&M.
The Nuclear Science Center provides research facilities for many A&M research scientists as well as for other universities and industries in the Southwest.
The reactor is operated by the Texas Engineering Experiment Station which is part of the Texas A&M University System and is licensed and governed by the Atomic Energy Commission.
The nuclear reactor itself is housed in a 33-foot deep water tank and is appropriately called

a "swimming pool reactor." The water removes heat and shields radiation.
The heart or core of the reactor is suspended from a movable bridge enabling it to be moved anywhere within the tank for experimentation.
When the reactor is in operation, neutrons are released from the fuel by the process of fission which then produces radioisotopes in samples placed against the reactor core. Two types of energy are released through fission, heat and radiation, and it is the latter the researchers are interested in. Data from the reactor

is used in chemistry, physics, biology, medicine, physiology and plant sciences.
A&M has begun recently to participate in the Atomic Energy Commission's Reactor Sharing Program providing for other universities and researchers to use TAMU's reactor facilities.
One of the latest experiments being observed is the powering of the reactor with a new reactor fuel called TRIGA FLIP fuel. Produced by Gulf Oil it has the potential of a longer lifetime than the formerly used TRIGA fuel.
"We are still in the midst of testing the fuel," said Bob Schu-

macher student and employe of the Nuclear Science Center. "A lot of researchers will be looking to us to see the results of the new fuel."
Safety is also governed by the Atomic Energy Commission. Not only does the AEC license the center but a set of technical specifications composed by the reactor personnel itself must be approved. These specifications limit which and what type of experiments will be tried, what type of materials will be used for samples, limit procedure and specify how many safety systems and channels there must be.

"Along with the AEC's specifications we have a set of our own standard operating procedures," said Schumacher. "These are set down by our own reactor safety board and control reactor start-ups and shut downs, and anything done with the reactor."
Schumacher feels that nuclear power is the immediate answer to the fuel crisis. "A thermal reactor of course is not the ultimate. The next step would be to a fast-breeder reactor and then to a fusion reactor which is what we are ideally working for," said Schumacher.

Weather

WEDNESDAY — Fair and mild with northerly breeze keeping temperatures down. This morning's low was 56°, today's high is expected to be around 71°. Tomorrow is going to be a little cooler with a low of 54°, but the weekend should be mild with slightly warmer weather.

Life Is Too Short To Be Little.

The Battalion

Vol. 67 No. 300

College Station, Texas

Wednesday, October 17, 1973

Cadet Group Marches to Bagpiper Tune

By Will Anderson
The shrill notes of a bagpipe playing "Scotland the Brave" now echo across the military quadrant when Company N-1 marches to "chow."
The pipes belong to Bill Whitefield, a freshman management major from Houston. He has been playing them for about a year and a half.
Mark McClean, commander of "N-1 Neanderthal," said "The effects of the pipes are tremendous. They increase the morale of the whole company."
"My dad started playing drums for a private bagpipe band, the Houston Highlanders, a few years ago," said Whitefield. "I became interested in them and started taking lessons. After I learned the basics, I started marching with the Highlanders myself."
"The pipes are pretty simple," Whitefield continued. "The three pipes that project from the back of the bag are the drones; they have single reeds which produce constant notes as back-ups. The melody is played on the chanter which has a double reed."
"A lot of concentration is required. You must keep your timing, squeeze with your elbow when you catch your breath, concentrate on your music and the amount of pressure you apply. Too much pressure will cause the drones to cut out."
Whitefield's pipes, kilt and tartan are made of the Royal Stuart plaid. He does not wear the kilt or tartan when marching with his outfit.
"Every clan has its own plaid," explained Whitefield. "I wear this one because it was the Houston Highlanders' uniform."
The bagpipes, one of the world's oldest instruments, is believed to have originated in Egypt. Bagpiping spread through Europe by the Greeks and later by the Romans.
They were very popular until the predecessors of modern instruments began to take shape. Its popularity then died out except in a few areas like Scotland, where the martial air of the pipes appealed to the war-like clans.



BILL WHITEFIELD churns out a sweet tune on his Scottish bagpipes as Company N-1 makes one of its daily marches to Duncan Dining Hall. Whitefield has been playing the pipes for a year and a half. (Photo by Gary Baldasari)

Gillespie Resigns As RHA President

Randy Gillespie announced his resignation as Residence Hall Association president Tuesday night in a special meeting of the council.
During the same half hour, the body approved T. Gettermann, vice president of programs, as Gillespie's replacement.
Gillespie, looking pale and tired, addressed a silent group of dorm

presidents.
"As far as I'm concerned, I'm doing poor academically," said Gillespie. "My ultimate goal is law school and I need the grades to make it."
The business major said he was neither satisfied nor interested in his present field of study.
"I'm a student first and RHA

president second," continued Gillespie. "This was a hard decision for me to make, but I have to be able to be good at one job. I've found I can't do both."
Gillespie is withdrawing from school for the remainder of the semester.
There was some question about who would take Gillespie's place. The present executive branch was elected under the RHA constitution which was not approved during the summer leaving the RHA operating under the old Civilian Student Council constitution.
According to Gillespie, the RHA constitution allowed for the vice president of student life to step up into the presidential position if necessary. Under the CSC constitution the first vice president would take control.

Spring Term Date Changes Forced by Fuel Shortages

Starting and completion dates for the spring semester have been moved back one week in an attempt to conserve fuel.
Classes will now begin Jan. 21, with Jan. 16-18 devoted to delayed restriction.
TAMU officials decided to delay the start of classes one week in hopes of cutting down on fuel consumption for heating campus buildings.
Classes were originally scheduled to begin during the week which is traditionally the coldest of the winter. If the weather follows its usual pattern, officials reasoned the university could conserve a significant amount of fuel by rescheduling and extending mid-term vacation through that week. Students will now have a four-week vacation between the fall and spring semesters.
Spring recess begins March 8 with classes resuming March 18. Commencement and Final Review are scheduled May 11 and final examinations are May 13-18.

"The executive committee decided it was not right to forego either constitution completely," said Gillespie. "The position obviously belongs to one of the two present vice presidents."
The executive committee chose Gettermann, junior accounting major, for the position in a secret ballot vote before the meeting of the full council.
Gettermann said he was somewhat shocked but prepared to fulfill the requirements of the 40 hour-a-week job. "If it is necessary I will drop a course to lessen my 17-hour load."
"The RHA will progress under T.," said Gillespie. "He's left in an odd situation. I'm going to try my best to give him all the information I can but Gettermann is

Israeli Consul Presented in PF Program

Adi Ben-Svi, Israeli vice-consul for Houston, will speak Wednesday on "The Origins of the War."
A Political Forum presentation, the talk will be at 7 p.m. in Rooms 225 and 226 of the Memorial Student Center.
Forum Chairman Ed Jarrett said the Israeli official agreed to the appearance Tuesday.
The vice-consul's discussion will cover the Zionist movement, creation of the State of Israel, origins of the problems between the Jews and Arabs and the current state of affairs.
Ben-Svi at one time was the assistant head of the Israeli information Department in the U.S. He is the former vice-consul general for Texas.
No admission will be charged. Jarrett said the Forum is currently seeking a speaker to present an Arab viewpoint.

Missile Retaliation Threatened Israelis Thrust at Suez Canal

By The Associater Press
The Cairo command reported two Israeli thrusts Tuesday at the Suez Canal. Tel Aviv said an Israeli task force penetrated Egyptian territory on the west bank of the canal and was making commando-style strikes less than 100 miles from the Egyptian capital.
President Anwar Sadat of Egypt warned that he might unleash missile war against Israeli cities.

Tanks slugged it out in major battles in Syria, and the Syrian command said the fighting continued into the night.
The Egyptian command said Israeli armor assaulted a beach-head at about noon and tried to cross the canal about 2:30 p.m. at another point. Both battles were in the central sector of the 103-mile waterway, and both were thrown back, according to the Cairo account.
The Israeli command had no immediate comment on the reported battles.
Seven Israeli tanks made a "desperate attempt" to cross to the west bank of the canal in the area of Great Bitter Lake, about 75 miles from Cairo, the Cairo command said, but three of the tanks were destroyed and the others fled.
The command said Egyptian air power turned the tide in the Israeli assault on the beach-head.
The planes "strafed enemy positions, forcing the enemy to withdraw, leaving his tanks behind on fire," the Cairo command said.
Aerial encounters over the battleground resulted in the shooting down of 11 Israeli planes and two Egyptian planes, the Cairo communique claimed.
Israel claimed its task force on the west bank of the canal was striking at Egyptian anti-aircraft missile batteries and artillery. No point along the canal is more than 100 miles from the Egyptian capital.
A senior Israeli military spokesman, Col. Yehuda Prihar, told newsmen in Tel Aviv Tuesday night that the Suez west bank operation was "rather a commando type of operation. I don't know how long the force will remain there."
President Anwar Sadat warned that Egypt has missiles ready to carry the Arab attack into "the

very depths of Israel," if the Israelis attack the Arab heartland. But he added that he is ready to accept a cease-fire and attend a U.N. peace conference if Israel pulls out of all Arab lands occupied since 1967.
Later in the day, Premier Golda Meir told the Israeli parliament she has received no cease-fire offer "from any source." She

said the Egyptian drive into the Sinai had been blunted after 11 days of fierce desert tank battles, and added:
"The time for a cease-fire will come indeed when the enemy's strength has been broken."
"I have been asked repeatedly, 'When will it end?'" she said. "My answer is, when we manage to defeat the enemy."



THE TYPE OF GRAPE, the vintage and the way it is fermented work in a delicate balance to produce a good wine, according to Bill Perry, who spoke at a Host and Fashion Committee presentation Tuesday night. (Photo by Jim Chamberlain)

Campus Cops Bust Two Theft Rings

The University Police department recently cracked two rings involved in tape deck and bicycle thefts.
On Oct. 10 three students and a juvenile were arrested for the theft of six tape decks, four tape boxes, five sets of speakers, two ten speed bicycles, two auto bike racks and over 400 tapes. The recovered merchandise valued at \$1400, will be returned to owners beginning today.
One of the decks was stolen from Bryan, two from College Station and the remaining three were stolen from the campus.
Charges are pending at the County District Attorney's Office.
Three Bryan residents have been arrested for the theft of over 100 10-speed bicycles. Nine of the bicycles have been recovered and investigation is still underway.
A representative for the department feels that recoveries could be aided by bicycle registration. Serial numbers are recorded with the campus police when a bike is registered and provides positive identification.
"Nine times out of 10 we can raise numbers with acids that have been filed off," said the department spokesman. "However, most serial numbers on the bicycles recovered weren't even filed off."
The group would steal the bicycles from campus and sell them for \$25-\$30 in Bryan. They would then re-steal and re-sell the bikes.

The University Police department recently cracked two rings involved in tape deck and bicycle thefts.
On Oct. 10 three students and a juvenile were arrested for the theft of six tape decks, four tape boxes, five sets of speakers, two ten speed bicycles, two auto bike racks and over 400 tapes. The recovered merchandise valued at \$1400, will be returned to owners beginning today.
One of the decks was stolen from Bryan, two from College Station and the remaining three were stolen from the campus.
Charges are pending at the County District Attorney's Office.
Three Bryan residents have been arrested for the theft of over 100 10-speed bicycles. Nine of the bicycles have been recovered and investigation is still underway.
A representative for the department feels that recoveries could be aided by bicycle registration. Serial numbers are recorded with the campus police when a bike is registered and provides positive identification.
"Nine times out of 10 we can raise numbers with acids that have been filed off," said the department spokesman. "However, most serial numbers on the bicycles recovered weren't even filed off."
The group would steal the bicycles from campus and sell them for \$25-\$30 in Bryan. They would then re-steal and re-sell the bikes.

Groups Can Request Aid

Organizations requesting financial aid may give short presentations at a Bookstore Advisory Committee meeting next Monday beginning at 8 p.m. in Room 504 of the Rudder Center Tower.
Howard Perry, committee chairman, said that it is not necessary for the organizations to appear before the committee. They may submit their request to the committee. Organizations wishing to give presentations should contact Lilly F. Yeates in the Student Finance Office of the MSC or call 345-1114 to schedule a time.

Turnbull Leads Lecture Series

Dr. Colin Turnbull's Thursday presentation in the University Lecture Series leads off a prominent list of 1973-74 speakers.
Later lectures will feature Dr. H. Guyford Stever, National Science Foundation head; Dr. Edwin Doran Jr., TAMU geographer; Dr. Edward Teller, renowned atomic physicist, and Dr. Thomas Carlyle

Jones, Harvard Medical School primate research specialist.
Dr. Stever will speak here Nov. 8, on "New Directions for Science and Technology."
A Dec. 11 lecture will feature Doran on "Nao, Junk and Vaka: Boats and Cultural History." Teller will speak in January and Jones is scheduled in April on "Historical and Prospective Contributions of Comparative Pathology." The date of Teller's presentation is to be announced, according to Dr. Paul Van Riper, series chairman.
Dr. Turnbull will speak on "The Ik: A Study of Social Degeneration" at 8 p.m. Thursday in the main lecture hall of the Zachry Engineering Center. An anthropologist of international renown, Turnbull teaches at Virginia Commonwealth University.
The Ik are social degenerates located in the mountains of North-east Uganda. Turnbull studied them two years. They evolved a culture of extreme individualism to survive amidst starvation. To the Ik it's every man for himself. They are thrown out of families at age three and survive by exploiting their families, neighbors, other tribesmen and the government.
Using the tribe to explore the foundation of morality and order, Dr. Turnbull will discuss whether prolonged crises could result in the "Ocean solution" for the rest of the world.
Dr. Vaughn M. Bryant of the Sociology and Anthropology Department will host Dr. Turnbull.
University National Bank "On the side of Texas A&M." Adv.

Tuition Fees Rank Among Ten Lowest

A&M ranks among the 10 member schools of the National Association of State Universities and Land-Grant Colleges with the lowest charges for tuition and required fees.
Comparative figures for 115 institutions participating in NASULGC's annual survey of charges and costs were released this week by the association's Office of Research and Information.
TAMU's total of \$288 for resident tuition and fees for two semesters was well below the \$520 median charge for NASULGC institutions.
On the basis of overall costs, including room, board, tuition and fees, TAMU ranked \$149 below the national average of \$1,514 for resident students.
NASULGC researchers reported on a nationwide basis tuition and required fees for resident students increased 7.21 per cent from last year, while room and board rose 6.77 per cent.