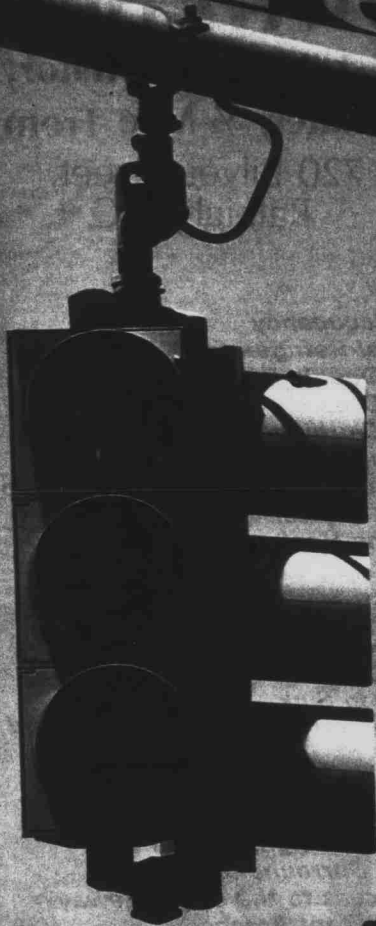


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Learning Assistance Center helps students

Study skills, tutoring free

by Bill Ridenhour
Assistant Copy Editor

The transition from high school to college is no easy one. You're in a new environment, probably some distance from home (possibly for the first time), and the level and amount of your time consumed by studying is, in most cases, far greater than you had imagined it would be.

For the students, especially entering freshmen, who find themselves in this situation, fear not, there is help. The Learning Assistance Center, located in 528-A Poe Hall, provides tutoring services for all students in most entry-level courses. The service is provided free of charge.

The LAC staff conducts interviews and selects students who have had experience with the particular course materials. According to Margaret Gransee, coordinator reading specialist of LAC, the tutoring service is especially useful for students who "are amazed at the size of the lecture classes. They can come in once a week and work with a tutor who isn't much older than they are, but is maybe a little bit wiser because they have been through the course."

Gransee sees entering freshmen as the "ideal population" for the program because the courses that tutoring is offered in

are the ones that freshmen generally take during their first two semesters at State.

The LAC also offers help for students in the area of improving study skills, note taking and time management. This is particularly important because "most students don't realize how much studying they have to do compared to high school." Gransee sees the LAC as the "ideal place to get this type of help."

The students who utilize this service range from those who need the help in order to pass a course to those who just want to insure that they maintain an A in a class. To use the tutoring service, students need to sign up and make an appointment to receive help in a particular subject. This is especially important for those students who might be inclined to come by for tutoring the day before a major exam after the course material has overwhelmed them. The LAC is not staffed in a way that they can offer "drop-in" tutoring.

The center normally sees close to 400 students per semester. Some of these students only attend one or two sessions while others may come by on a regular basis in more than one course. Gransee sees the continuity of using the center on a regular basis as a key in realizing the full benefit of the tutoring service.

The LAC director for the fall semester will be Brenda Allen. Students who need assistance can stop by the LAC office or call 737-3163. The LAC is open from 8 a.m. until 5 p.m. Monday-Friday and 6 p.m. until 9 p.m. Monday-Thursday.

Courses in which tutoring will be offered are: MA 115, MA 111, MA 113, MA 112, MA 114, MA 116, MA 102, MA 201, MA 202, PY 205, PY 208, PY 211, PY 212, PY 221, CH 101, CH 105, CH 107, CSC 101, CSC 102, CSC 111, CSC 112, French, Spanish and possibly German.

There is also the possibility of a reading skills program being offered in the fall.

So if there comes a time when you are faced with too many problems in any of these courses, you know that you have somewhere to get help.

inside

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This 1983 Freshman Orientation Issue would not have been possible without the efforts of the
TECHNICIAN staff:

Tom Alter, Eddie Ashe, Barry Bowden, Deborah Boyd, Clayton Brinkley, Nancy Buttermore, Bates Cannon, Tom Carrigan, Lisa Deutsch, Nydia Doggett, Maria Drake, Dennis Draughton, Kim Frazier, Paul Fry, Susan Hankins, Greg Hatem, Jackie Jeffries, John B. Jones, Wanda Jones, David Knecht, Judy Ann Masters, Ben Matthews, Sandy Maurer, Beth McLeod, Rod Patrick, Jon Purut, Carol Rascoe, Bill Ridenhour, Jimmy Schacht, Greg Wilkinson, Barrett Wilson, Tom Vess, Tom Young, and other ad designers

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State's private non-classified nuclear reactor's history tracked back to 1951

Tours of the Pulstar running upon request

by Barrett Wilson
Feature Writer

This University you currently inhabit is the first in the world to own and operate a private non-classified nuclear reactor. It is also the first to start a nuclear engineering program. State granted the first undergraduate, graduate and doctorate degrees in nuclear engineering. Raymond Murray, at State March 8, 1954, published the first atomic energy textbook, *Introduction to Nuclear Engineering*.

This research facility, initiated by Clifford K. Beck and financed by Burlington Mills Foundation and state funds, began construction March 16, 1951. In September 1953, eight years after a nuclear explosion destroyed the cities of Nagasaki and Hiroshima, the first non-military nuclear reactor began operation.

It ran on four gallons of greenish-yellow liquid, a uranium solution which bubbled like ginger ale.

Beck got the physics department head job by proposing a private reactor. Air Force Major Guston Lundquest, in charge of the X-1 project and the third man to fly supersonic, joined 20 other Air Force officials in the first nuclear engineering class.

Beck, a dominating and unsmiling man, was born near Charlotte and took a bachelor of arts from Catawba College in 1933. He taught tennis at Salisbury High School from 1934-39 and then went for graduate work at Vanderbilt in 1939. Returning to North Carolina, Beck continued with high school sports, math and science while earning his doctorate degree at the University of North Carolina in 1943.

The first authenticated practical use of X-rays occurred in North Carolina at Davidson College on Jan. 12, 1896. One month after Roentgen's discovery of X-rays, Dr. Harry Smith

"demonstrated a thimble in the trachea of a child" suspected of swallowing an object.

Lise Meitner, a woman scientist in Germany, first found Uranium-235 to be fissionable in 1939. She communicated with Niels Bohr in Denmark, who came to the United States spreading the news to Einstein and others. In June 1942 Roosevelt, urged by scientists Bush and Conant, formed the Manhattan District which detonated the first atom bomb in New Mexico in July of 1945.

Beck in 1943 got a call from Vanderbilt, who offered him one of two jobs — a professorship at Vanderbilt or work on a secret government project. Beck, not brilliant but a good administrator, headed a research team with the top secret Manhattan project, which developed the atom deathray bomb.

When the physics department head at State retired after 30 years, Beck was selected in 1949 to take the position.

A design team in the department developed the first Raleigh reactor which closely modeled the Los Alamos "swimming pool" type then in military use.

Erected in the Court of Ceres in front of the zoology building, the reactor building eventually cost \$650,000.

"Capital City citizens who might fear that West Raleigh will go up in an accidental atomic explosion can rest easy, according to Beck," the *News and Observer* assured in 1950.

For more than 50 years before the reactor was inaugurated, State was outstanding in the fields of agriculture, textile engineering and diesel engineering. "State college has taken the lead in harnessing the atom for peace," wrote the *News and Observer*. The *New York Times* and *Newsweek* covered the opening ceremony at what Beck termed "The First Temple of the Atom."

To get the reactor State beat

out Cal Tech which had proposed a reactor 40 times more powerful costing \$700,000.

State has built three reactors since. The current one is the Pulstar, so-called for its ability to pulse from the normal one megawatt output to 2200 mw. Pulstar is described as a swimming pool, heterogeneous, water-moderated nuclear reactor.

Burlington Laboratory comprises several mazes of passageways on several levels, interrupted by the nuclear containment structures. The old octagonal reactor room now is empty, and the leaded glass viewports no longer reveal that unearthly blue glow emitted by the nuclear fission reactions.

Well-crafted displays suggest nuclear waste, which decays in time, is safer than chemical waste. Scribblers append crude

objections to this argument in places. The nuclear accident at Three-Mile Island on March 28, 1979 is described. How disastrous really? Escaped radiation within fifty miles reached 1.5 mrem/year. (A rem is a unit of radiation). The display contrasts this amount with 18 mrem/year generated from average bodily-occurring radionuclides, and suggests the valve-failure eventually may result in one cancer additional to the 325,000 expected in so many humans typically. The average background radiation in North Carolina is 145 mrem/year.

These random-walk halls provide research, office, computer and laboratory space. The easiest job in Burlington is reputed to be the alpha-beta space. This lab is easy to locate from the sound of people counting "alpha, beta"

over and over emitted from within the cloudy chamber.

The Pulstar may be seen by arranging for a tour with the department. The control room is a busy, large room punctuated by a big instrument panel done in chipped, faded avocado like kitchens at home. Gauges and oscilloscopes crowd together. The reactor control rods are simple to operate — reactor control rods up, reactor control rods down. A large window looks out into the three-story depth of the reactor containment area itself. The famous "blue glow" effect is missing, no water immersion anymore.

The reactor is extensively used for medical, chemical, agricultural and biochemical research. The device is also the core of a reactor operator training program.



Technician file photo

State's Pulstar nuclear reactor which can 'pulse' from its normal output of one megawatt to 2200 megawatts, is widely used for medical, chemical, agricultural and biochemical research.

DRAUGHON



**NCSU DINING HALL:
BRICKFAST OF CHAMPIONS**

Vet School rigorous: Ag students compete

by Jimmy Schacht
Feature Writer

Completed in December of 1982, the North Carolina State University School of Veterinary Medicine is currently accepting full classes of 72 students. The school provides many services, including clinical practice open to the public and various types of research projects designed to understand and eradicate disease.

Many new students entering State will be interested in the field of veterinary medicine; however, certain requirements must be met. A student must complete at least three years of pre-vet undergraduate work and four years of work in the School of Veterinary Medicine. A student in pre-vet must be pursuing

a baccalaureate degree in some animal-related field that allows him or her to complete the pre-vet requirements. Zoology, animal science and poultry science are popular areas in which many students enroll.

Upon completing undergraduate work, a candidate for admission into the School of Veterinary Medicine must have a cumulative grade point average of 2.75 or above on all required courses. Also, required courses cannot be taken as pass/fail.

In the selection process, both academic and non-academic qualifications are considered. An objective score is determined by the candidate's GPA in required courses, cumulative GPA in all undergraduate courses,

(See 'Ag,' page 11)

Center entertains student body

Activities abound

by Tom Alter
Feature Writer

Hey, man... what's, like, with that big red brick and white-trimmed building near the fountain across from the gym?

You asking me? I just got off the bus for orientation. I don't know where anything is. Hey, I'm bored. What's there to do around here anyway?

Little do these two prospective freshmen realize that the answers to their questions lie in that building, State's University Student Center. This four-story structure is the heart supplying entertainment for the student body's needs of fun and involvement at State.

A wide range of entertainment, activities and food can be found in the Student Center, providing the chance to meet new people — a primary goal of every incoming freshman.

A gameroom is located in the basement of the Student Center. If you are into video games, pinball machines and/or shooting a little pool, State's gameroom provides a relaxed atmosphere to have some inexpensive fun with a couple of buddies. Also located on the bottom floor is University Dining Services, where the meals sold in the Student Center are prepared. To this day, most students can't figure out how Dining Services runs. One way to find out is to work for them; they are currently accepting positions for the fall semester. The benefit of a pre-exempted work schedule accompanies the job.

The first floor of the Student Center, the lobby, is one of the most active spots on campus throughout the year. If it's company you want, visit the Student Center any day around lunch time. With a shortage of available tables, a new friend is only a seat away. The first floor provides four areas from whence to eat:

- The Cutting Board — cold sandwiches and a salad bar
- The Commons — a selection of both hot and cold dishes
- The Celerity Line — fast-food staples
- The Emporium — ice cream and all the other fattening desserts and summer coolers.

On the same floor is a newsstand, several vending machines

and a television lounge (which is always packed for the daytime soaps). To repent from watching Luke and Holly, one needs only walk a few feet to the Nub, which houses the campus ministries.

The entrance of Stewart Theatre is located on the Student Center's second floor. The theater is often the site for several theatrical productions and concerts throughout the school year as well as State's Silver Screen (movies) every weekend.

The Union Activities Board's ticket office, where students can buy tickets to all forms of entertainment, including discount tickets to local movie theater feature films, is located at the top of the stairs leading to the second floor.

On the other side of the second floor is the Ballroom, a large room used for dances, special events and regular meetings needing extra space. Two art galleries, featuring both local and nationally-recognized artists, comprise the remainder of the second floor.

The third floor of the Student Center is rarely visited by as many as students as, say, Stewart Theatre, yet its contribution to State is far more significant. The third floor is the site of State's student publications: *Agromeck*, *Technician*, WKNC-FM and *Windhover*. The University's yearbook, newspaper, radio station and literary magazine serve the students at large with information and entertainment and offer an invaluable learning experience to those students interested in the media, management and making friends.

Most of the business offices concerned with running the Student Center are located on the third floor. The Union Activities Board, the organization whose specific goal is to show students a good time via musical groups, cultural events and films, is just one of these business offices.

The Student Senate meets in its own hall on the third floor.

The fourth floor of the Student Center is, for the most part, a place where many organizational meetings occur due to the large number of meeting rooms. Included in the large number of meeting rooms is the plush Walnut Room,



Technician file photos

The Student Center offers a diverse array of things to do and see. The courtyard is especially popular for volleyball, outdoor concerts or just relaxing. It also has two 24-hour banking tellers — BB&T and Wachovia.

an attractive setting to greet featured speakers.

A marked exception to the non-purposeful fourth floor appearance is State's Student Government, located on the west side of the Student Center. Although Student Senate meets on the third floor, Student Government leaders — the student body president, student body treasurer, student body attorney general and Student Senate president — work out of their fourth floor offices.

As mentioned earlier, the Student Center is more than just a building providing many different kinds of entertainment. More importantly, the Student Center is people — students — who are interested in serving the State community while living new experiences and making new friends.



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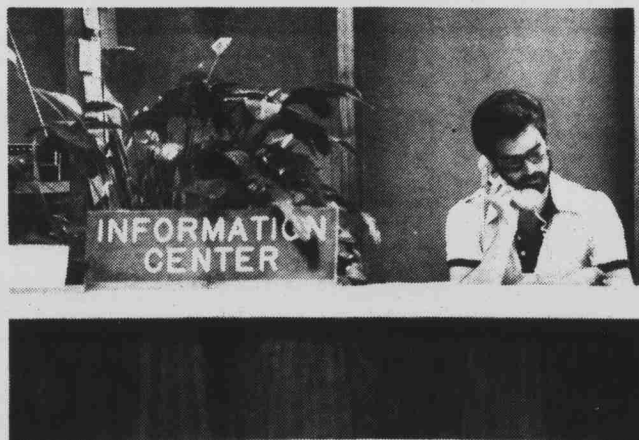
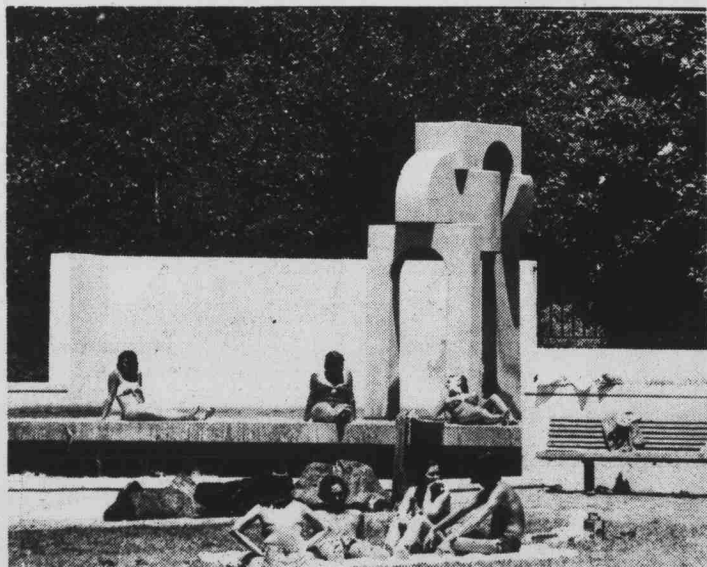
University Student Center active



The University Student Center is the nucleus of activity for the student body, faculty and friends of the State. Whether it is Stu-

dent Government, orchestra concerts, cultural events or just sunbathing, everyone can get a touch of class from this dynamic spot.

Technician file photos



Professors explore ideas, construct solar house

by Sandi Maurer
Feature Editor

What do you picture when you think of "solar energy?" Do you call to mind systems of collectors, pumps and fans too complicated to be of economical use today? Do you envision photovoltaic arrays and complex phase-change materials? Do you expect a weird architecture of planes and lines, sheer faces of glazing, strange heat storage materials, leaky roofs with heavy collectors? How about your parents? Would they wrinkle their nose at the possibility of buying a solar-heated home?

These were the questions entertained by Herbert Eckerlin and Al Boyers, professors of the department of mechanical and aerospace engineering, and Ray DeBruhl, professor of the department of civil engineering, in the late 1970s when they first conceived the idea of a solar house on campus. These three along with Bruce Johnson, a local architect familiar with solar homes, designed the solar house as a team. Construction was accomplished in the summer of 1981, and the structure was dedicated in September of 1981 by Gov. James B. Hunt.

The house is located adjacent to the Jane S. McKimmon Center on Western Boulevard. The small, non-presupposing house far outshadows McKimmon Center in terms of efficiency, practicality and the role of a shelter in society.

From the north side the main entrance is puzzling at first because it looks so normal — no disconnected lines and planes, no homemade materials. With its brick walkway, cedar siding, front porch and double-hung windows, it would fit right in on the shore of Jordan Lake, or in a rural or suburban community anywhere. As one steps through the front door, however, one finds an interior design which is strictly Hayes-Barton.

Eckerlin is very pleased by observations such as these. "We felt the public, homebuilders and architects needed to be affected by what we did," he said. Instead of being only a laboratory for engineering research into the behavior of energy, "the house has three objectives: research, demonstration and education," he said.

He also explained, facing the north side of the house, that the traditional facade was really an effective component of the design. "Any time you go solar, the major pre-requisite is energy conservation," Eckerlin stated. Therefore, the windows on the north side comprise only 3.5 percent of the total north wall area, he explained, which looks pleasing yet conserves energy. The decorative shutters on the north side are actually operational and sealed with spring-bronze weather-stripping for an effective infiltration barrier.

So a seemingly innocent looking house is actually a notorious energy conserver! And the north side was only a beginning. We walked around the house to the south side, noticing the absence



Staff photo by Clayton Brinkley

The solar house adjacent to the McKimmon Center shows itself to be an efficient and economical option for home buyers and owners. When considering what to build solar homes should be investigated.

of windows on the east and west sides, also to conserve energy. The conservative north side belies the true size of the house.

"Many people who have seen this house have remarked, gee, I like the south side better," Eckerlin said.

The south facade presents the solar features of the house to the sun's rays, the most important aspect of the house is its passive solar design. The only "collector" in sight is mounted high up on the roof and is, as Eckerlin casually acknowledged, "a traditional solar hot water heater, really.

Nothing unusual about that." The house derives its heat from a sunspace located in the center of the south side, reaching up two stories and two single-story Trombe walls which admit heat through walls of glazing and immediately store it in masonry walls located a few centimeters behind the glazing. (Glazing on these surfaces is glass).

The sunspace's visage is not overpowering, Eckerlin pointed out. Its surface is interrupted by horizontal awnings, which provide shade in the summer. It is also punctuated by operable case-

ment windows and a standard wood frame glass door, providing an entrance and a connection with the outside climate. Eckerlin explained that the windows in the house are all operable and play an important role in cooling the house during the "swing months" of the fall and spring. As we stepped into the sunspace, it became obvious that this passive heating feature was also a pleasant living area. In addition to its heating role, Eckerlin agreed, it provides 300 square feet of casual living space.

The sunspace works by allow-

ing the sun's rays to enter through the two-story glazing and bring heat into the space. Some of the heat is trapped by the floor, which is quarry tile on top of a concrete slab. Most of the warm air gently circulates through the house by virtue of its open design. In fact, all the rooms — three bedrooms, kitchen and living/dining area — are connected to the sunspace by interior operable windows.

In the case of a prolonged sunny period in the winter, excess heat can also be stored in a specially constructed rock storage system — the floor of the second story — and later released when needed. Of course, on cold cloudy days and at night, the interior windows are closed off and the superior insulation and weatherstripping built into the home allow very little of the heat to escape. The Trombe walls, built into the downstairs bedrooms, serve to heat the rooms even when the sunspace is sealed off.

The heating bill for the entire winter of 1981-82 was \$40. The cooling bill for the entire summer of 1982 was \$70. The auxiliary energy input for hot water heating was \$35 for the winter. Impressed?

The auxiliary heat is provided by a water-to-air heat pump, another innovative feature in that the heat exchanger for the heat pump is located in the septic field of the house. This makes sense when you think that the water in the area certainly contains more heat than the typical red-clay soil of the southeast and transfers it through the cast iron pipes of the heat exchanger at a much better rate.

For one thing, the sunspace and Trombe walls are shaded by carefully sized overhands with removable panels to regulate the

(See 'Solar,' page 9)



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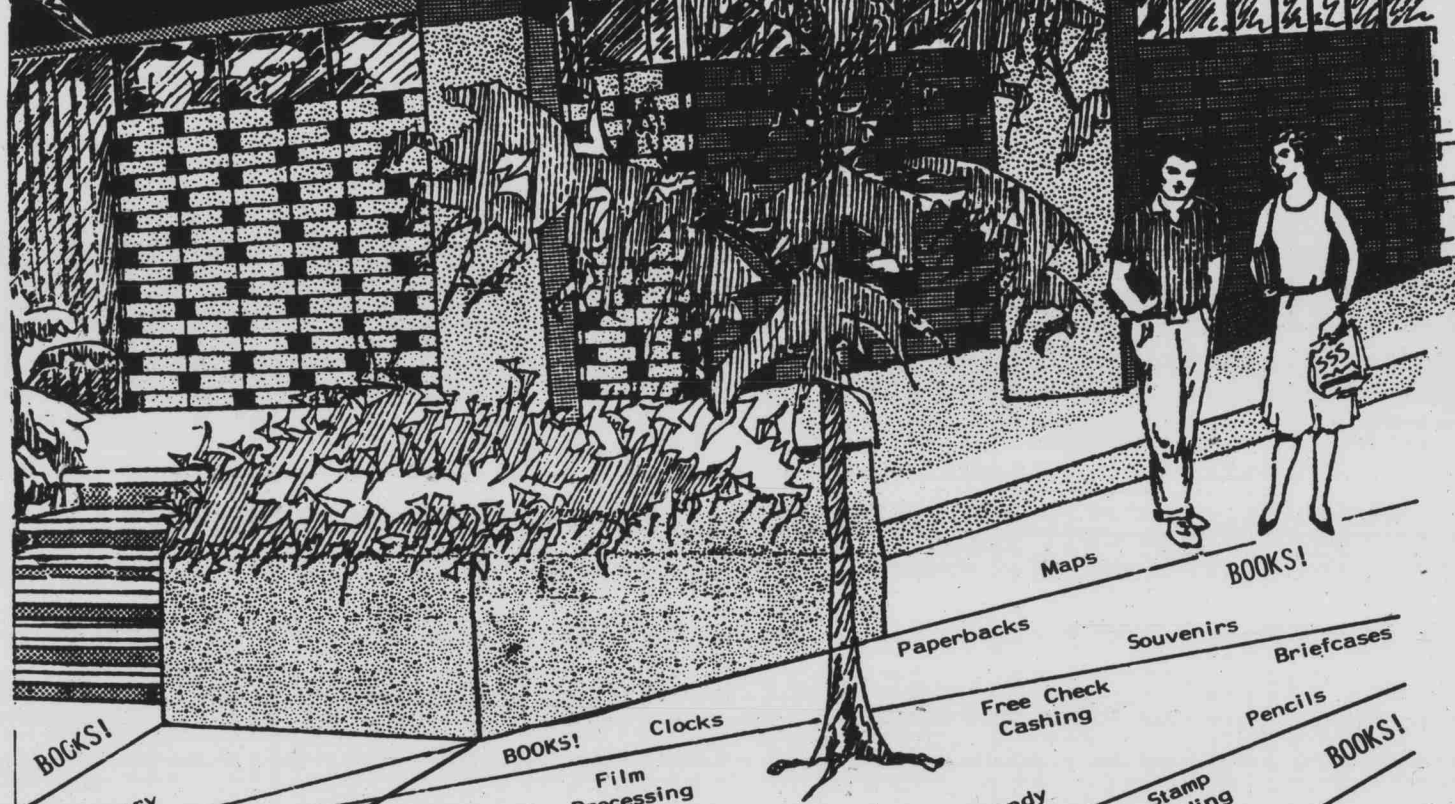
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Solar heating bills low

(Continued from page 7)

sunlight for the lower half of the sunspace, the sunspace windows, located near ground level, can be opened to admit prevailing breezes. A whole-house attic fan comes on automatically when the temperature in the sunspace reaches a certain point. It evacuates the warm air and draws cool air in through the windows. The air temperature in the sunspace ranged from the low 70s to the mid-80s, during the summer of '82, according to data provided by Boyers. Overheating is not a problem, he explained. In general, when outside air temperatures are in the 80s, the auxiliary cooling is not needed.

To possibly aid cooling in the summer, Eckerlin explained, two underground earth cooling pipes are installed and vent into the house. They will be evaluated for effectiveness in cooling.

Aside from its beauty and appeal to the public, the solar house is primarily a research facility for the University and especially the School of Engineering. As such, it is thoroughly embedded with temperature sensing devices. Over 250 of these, in the form of thermocouples, are located wherever energy may flow and needs to be measured. They are cleverly concealed, however, and invisible to the casual observer. The house is also equipped with five pyranometers, which measure insolation, solar radiation falling on a surface. In addition, Boyer explained, the house has instruments which also measure air flow in the sunspace/mass storage system, liquid flow in the solar hot water and heat pump systems and soil moisture around the earth cooling pipes. The house has three separate transformers to isolate the electrical consumption of the house itself, the electric hot water heater and the heat pump. Sensors to measure wind direction, velocity, outside air temperature and relative humidity will be installed in the future, according to Boyers and Eckerlin.

Combined with a powerful data acquisition center, raw information taken from the sensors can be correlated and interpreted to provide concrete evidence about the performance of the house. The measuring systems can help answer useful questions such as, what relationship holds between the amount of insolation falling on the glazing and the heat radiating

from the interior side of the Trombe wall? What is the optimal thickness of the floor under a sunspace in terms of cost versus temperature gain? How much and what type of insulation should be used on an earth-bermed north wall? What percentage of solar energy comes from the sunspace and how much from the Trombe walls?, to mention only a few Eckerlin and Boyers offered.

Eventual answers to questions such as these will strengthen existing guidelines on solar home design and provide a firm base on which to calculate performance of new designs.

John DeCicco, the graduate student who lives in the house and will complete his master's thesis this summer, offered the conclusion that the house is 80 percent efficient in terms of solar performance, based on his research. The house relied on solar for 100 percent of its heating and cooling in October/November of 1982, he said, and "both from electric bills and engineering estimates the house has done quite well over the heating season." Although the data on cost for 1982/83 is not available, John said "the figures on overall performance are quite good. Performance is good for both years and consistent." He attributed much of the comfort of the house to the mass, thickness of construction, caulking and weatherstripping. "The most cost-effective features are the hidden, energy conserving ones," he said, in reference to good practices all builders should use in home construction. "A house like this is a nice place to live," he understated.

"It's really just bricks and glass and some good design," said Boyers. "What I want people to learn is to become energy-conservation oriented, in what they buy and what they do."

"Every new house built today should include some passive

Bell Tower memorializes WW I soldiers

by Mary E. Rohrbaugh
Feature Writer

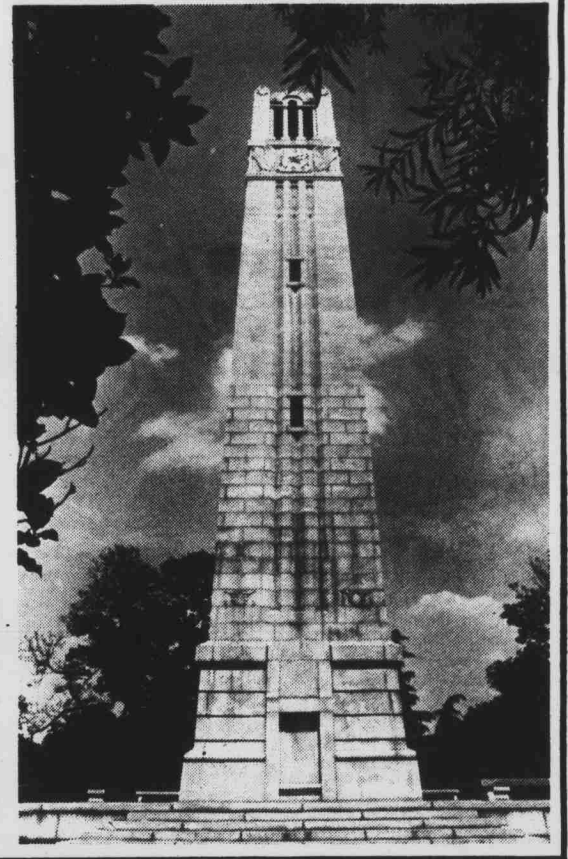
State's Memorial Tower, better known as the Bell Tower, is a landmark stationed on the northeast corner of campus to recognize the soldiers from North Carolina who died in World War I.

The construction of the Memorial Tower began in 1919 and took 30 years to complete. Erected by Alumni subscription, the 115-foot tower consists of 1,400 tons of stone on a 700-ton concrete base at a cost of \$150,000. William Henry Deacy was the architect throughout the tower's construction.

The Bell Tower was erected to memorialize 33 sons of State who died in World War I, however 34 names appear on the tower's plaque.

The 34th name, G. L. Jeffers, was a North Carolina soldier wrongly reported dead. Though the casualty list was corrected, the list for the Memorial Tower was never amended. When the mistake was discovered, a decision was made to alter the name beyond recognition. Thus, the name currently appears as G. E. Jefferson, a symbol of all dead soldiers from North Carolina.

Located beside Tompkins Hall on Hillsborough Street, the Bell Tower has served as a landmark to visitors of State.



elements. The added cost of a sunspace is not high, and the benefits substantial," Boyers said. "The builder who incorporates passive features has a hard time selling the house because the public is not ready. This ties in with the purpose of the house."

John DeCicco summed up his experience in the house by saying, "the primary purpose of a house is shelter. It should shelter you from extremes of

temperature and climate. A house should do that or it's not doing its job."

The solar house, then, is doing its job. This simple building has a far-reaching importance in the changing story of housing and energy in the future.

In case any of your parents want to build a solar home, Eckerlin said that plans for the State Solar House will be available to the public soon through the University and the

North Carolina Energy Division. The cost will be nominal.

It should be a requirement that every freshman tour the solar house. Many of you will doubtless go as part of a class, but if you wish to tour it individually, it is open to the public free of charge between 9:30 a.m. and 1 p.m. and again between 2 and 3:30 p.m. every weekday. Carole Coble, the hostess, will be glad to show you the house and answer any questions.

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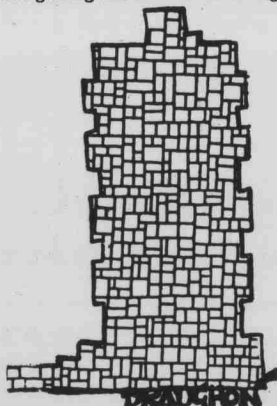


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Music department offers wide class variety

Opportunities range from band, orchestra, Glee Club, Chorale to specialty ensembles

by Deborah Boyd
Copy Editor

Listen to the world around you; music lives in our lives in many ways around campus and the Raleigh area. Music shows itself in movies, on the radio and TV, in theater productions and many types of concerts.

Music can be for spectators and for participants. On campus there are many opportunities for students to show their talents and for others to watch the talents bloom.

Price Music Center

Price Music Center houses State's music department. It is located next to the University Student Center and Alexander International Dormitory and offers a wide variety of opportunities for talented students and those eager to learn to play an instrument or sing.

To start with, the Marching Band, a band of 200 members known for its spectacular half-time shows at football games, is just one of the bands at State.

For concerts there is the Symphonic Band conducted by Frank Hammond. It plays for the enjoyment of its listeners and also goes on tour with other musical organizations.

The Fanfare Band and the Brassochoir Band are two other concert bands.

The Pep Band is a smaller band which plays at basketball games and for other events.

Two orchestra groups make up State's orchestra program: The Raleigh Civic Symphony conducted by Robert Petters and the University-Civic Orchestra conducted by Bruce Reinoso. The Raleigh Civic Symphony prepares once a week for four or more concerts during the academic year. Currently there is a Summer Raleigh Civic Symphony practicing for an August concert. The University-Civic Or-

chestra gives two or three concerts during the year usually in conjunction with other musical organizations.

State's Pipes and Drums organization directed by John Sprague and David Fish and the Brass Band conducted by J. Perry Watson perform concerts annually.

Other specialty musical organizations are the Clarinet Choir, Stage Band, Chamber Orchestra, String Ensemble, Trombone Guild and String Guilds.

The music department also has many vocal music groups.

The group which sings at the football games and many other functions is the Varsity Men's Glee Club. These 60 men of varying backgrounds make up one of the nation's finest men's glee clubs directed by Milton Bliss.

The University Choir sings a variety of music and entertains at many University functions as well as working its concert schedule. This spring this group also directed by Milton Bliss performed in the Outdoor Pops concerts sponsored by the music department in the University Student Center with a specialty group from the Men's Glee Club, The Grains of Time. Also featured in the Pops concerts were the Symphonic Band and the Women's Chorale.

The Women's Chorale, a women's choir group conducted by Eleania Ward, performs many concerts alone and with other State musical organizations.

The New Horizon's Choir, also directed by Eleania Ward, specializes in spirituals, gospel music and choral jazz. It also tours North Carolina high schools in addition to its regular concert season.

At the Madrigal Dinner, a medieval type of entertainment in mid-December sponsored by

(See 'Music,' page 14)



Technician file photo
State's Marching Band, just one musical opportunity for talented or eager-to-learn students, blows it out for State and its football team and fans.



Students find places to party at Cameron Village Subway

by Maria Drake
Features Writer

OK freshmen. So you're in Raleigh for the first time, you're confused, you have questions — about EVERYTHING. WHERE's the 'dick Lot? WHEN do we eat? WHO's Jim Valvano? WHAT's an infirmary? Typical freshmen questions. BUT the main question asked by freshmen is WHERE? Where are the nightspots? The bars? WHERE can we party?

Check this out: Happy Hour every night from 8-9 p.m., 50-cent draft, Best Buns Contest and five plays for a dollar. WHERE is this partying place? AGAIN, you ask? It's the Cameron Village Subway. I know, I know, a SUBWAY? You didn't ask how to get home already, you just got here and you want to Party.

First of all, it's not a subway. It's an underground mall. It's the Bear's Den, Cafe Deja Vu, Battle

Stations, The Pier and Midnight Express. A restaurant-bar, a video entertainment center and three nightclubs. ALL at your fingertips.

So now you know WHERE to party. But now your dilemma is WHICH one? Read on.

According to Manager Steve Thanhauser, The Bear's Den has "the best in live entertainment." It is State's only private club: open only to members and their guests. A membership to the Bear's Den is only \$5 for college students with an ID. The Bear's Den serves beer and wine to those 18 and over and also serves liquor to those over 21. Free munchies are always available, and hot and cold hors d'oeuvres are served on Mondays and Fridays.

All bands are original and cater to all music lovers. Rock'n'roll and jazz are the mainstays. Some of the regular bands are Brice Street, Glass Moon and the Dixie Dregs.

The Bear's Den is always having specials: On Mondays and Tuesdays, all drinks are served in 16 oz. glasses and sold at the regular price. There is a Happy Hour on bottled beer and also a Best Buns contest for men and women.

Wednesday is College Night. Pitchers are \$2 all night and draft is 25 cents until 11 p.m. Wednesday is also 'nuts and bolts' night. Males take a nut as they enter and females take bolt. If you find your 'missing part' you win a prize — and maybe a date.

Thursdays are ladies' nights. Ladies get free wine, beer and champagne until 10:30 p.m. Also on Thursdays there is a limbo contest.

On Fridays there is Happy Hour from 5-9 p.m., and hors d'oeuvres are served.

On Sundays, ladies get in free until 9:30 p.m., and Happy Hour lasts until 11 p.m.

Whew. Always something happening at The Bear's Den.

Cafe Deja Vu is another bar in the Subway. According to Manager Doug Brinson, it supplies the best in local rock and rhythm and blues with bands like The Snap, Jimmy and the Jones' and a reggae band, Sunfire. Cafe Deja Vu serves beer and wine and has Happy Hour every night from 8-9 p.m. They are open to the public.

Battle Stations has the latest in video entertainment. According to Associate Manager John Patterson, it caters to large groups, birthday parties and charities. It has specials every hour: five plays for \$1 before midnight and after, six plays for \$1. Battle Stations is Raleigh's finest in video entertainment.

The Pier, which just reopened following renovation, is "the only club in Raleigh that has national acts." According to owner Gayle Livingston, as a rule, The Pier on-

ly shows original bands — no copy — and the bands are strictly rock'n'roll. Some examples are The Skip Castro Band, The Fabulous Knobs and The Back Doors. The Pier is open to the general public.

Midnight Express is the only restaurant-bar in the Subway. According to Manager Brenda Dunlap, the restaurant serves mainly sandwiches. The music is supplied by tape, and Midnight Express carries all alcoholic licenses. Midnight Express is open to the public also. For entertainment it has pool tables and video games and daily lunch specials. Midnight Express also has Happy Hour from 8-10 p.m. Tuesday-Thursday and from 3-6 p.m. on Friday.

By now you have made your decision WHERE to party. BUT, WHERE is the Subway? Follow the crowd.

Ag students face stiff competition for Vet School

(Continued from page 4)

Veterinary Admissions Test score, college experiences and extracurricular activities.

In the second phase, motivation, maturity, attitude, interest, ability to communicate and qualities of character are evaluated by members of the Admissions Committee through interviews with the candidate and reference information provided in support of the candidate. The final ranking of the candidate is based on the sum of the first and second phases; the Admissions Committee selects candidates based on the final ranking.

Pre-vet and Veterinary School work is very rigorous. One should discuss it with his or her advisor or contact the Office of Admissions at the School of Veterinary Medicine before deciding to go the pre-vet route.



Don't fence me in.

I wonder if Vet School students ever feel this way.

Staff photo by Clayton Brinkle

Raleigh bars provide drinking, dancing, discoing after dark



by Tom Carrigan
Entertainment Editor

and
by Ben Matthews
Entertainment Writer

The Bars.

Those places that most college students patronize as a way to relieve the pressures of college life will be off-limits for students under 19 by a new law effective Oct. 1.

Since most freshmen won't be turning 19 until their sophomore year, perhaps it will be self-defeating to explain the intricacies of the various college bars in the Raleigh area to people who will not be allowed to patronize them for a year, but here goes.

Bars can be placed into three different categories. First, there are the places which specialize in live entertainment as a means of drawing crowds. At the top of

this list are all of the bars in the Cameron Village Subway. The Pier, The Bears' Den and The Cafe deja Vu regularly feature live entertainment ranging from country to jazz to hard core rock'n'roll.

The Bears' Den is a private club which means it serves liquor to members and their guests provided that they are 21. The Pier and the Cafe deja Vu are open the general public, but The Pier serves liquor since it also serves food. The Cafe deja Vu serves beer and wine and like the other bars in the Subway usually has a cover charge to pay for the live bands.

Not all of the bars with live entertainment are found in the Subway. The Switch, located on Paula street off of Old Wake Forest Road, also features live entertainment in a private club format. 2001 is another private club located off of Old Wake Forest but caters mainly to the over 21 crowd. P.C. Goodtimes on Hillsborough Street has local bands and beer at reasonable prices and usually little, if any, cover.

For those who like to go to bars

to, dance there are several choices. Tuts and Harpo's Gashouse are both located off of Western Boulevard and usually feature a live DJ who spins the disc while the patrons spin each other. For those who like beach music and are a little more preppy there is Crazy Zack's on Hillsborough Street. Barry's II, also on Hillsborough Street features both dancin' and drinkin' with an equal emphasis on both.

The Keg and My Apartment Lounge feature both live entertainment and dancing — except that the dancers appear in the buff. Maybe not the place to go on a first date, but definitely a change of pace.

Several bars are designed by choice as a place to go where one can sit back and relax over drink. Leading the list is Mitch's across from campus on Hillsborough Street. Mitch's offers light sandwiches, beer and wine. It is a nice typical college bar where one can drink a beer while playing pool or just sit down, listen to tunes and enjoy the atmosphere. Blimpie's, just down the street from Mitch's, offers both sandwiches

and beer. Its sandwiches are said to be the world's second best taste treat with the first being left to the imagination. Blimpies has many video games and tables

(See 'Socialize,' page 14)



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Hillsborough Street offers delicious and dull edibles



by Barret Wilson
Features Writer

Not every eating experience will be rich as the time when the guy wanted a \$100 cigarette. Conversation in that classy French restaurant did stop cold. Big bucks worry people. Fretting, what etiquette to apply? Accept? Reject? Laugh?

"I'll give you," he interrupts, "\$100 for a cigarette!" His honey blonde wife laughed. Felicia and I smile and go on talking. He liked our scintillating talk enough to interrupt. My date takes the outstretched hundred dollar bill and tosses a smoke. We blandly order dessert, Godiva chocolate mousse. Tension everywhere but our table, where all is possible. To his startled wife I say "It's only money," and to him "Great gesture!" It could not interrupt us.

On Hillsborough Street today at lunch researching this story, a guy came in, work clothes and '50s hairstyle. Covered in tatoos, chest tatoos, bicep tricep tatoos, forearm tatoos, wrist, hand and yes, finger tatoos. Tremendous purpling tatoos, dark with age as they get in time. What became of the leather-jakes, driving souped-up Chevies to the soda shop? "I do floors. Oak wood and pine, parquet floors. And I love people. I believe in helping people," this improbable and very real man began.

"I had \$9,000 on me one Saturday night in here. Told the bartender, 'Set up the entire place.' Cost me \$348 and a few cents. I paid the man, and I was glad to do it. Someday I'll do it again."

The places along Hillsborough provide entertainment, theater sometimes, diversion, games, pastimes, music, wildly differing tastes and surroundings, quality, art, flirtation, contact with our species and food of varying degree and style. These 22 carefully constructed establishments regularly produce decent meals, at least one or two as well as any place imaginable, and several above average. All are reasonable, some cheap. All aim to please. And pleasure is not difficult to find. Imagination and quality are more daunting. Adventure in this world, chance and experiment. Try them all. Take me along.

Imagine Hillsborough Street as a candy cane with the crook pointed toward town were the street becomes one-way. To provide some order we'll begin there and head back toward campus.

The orange world of corporate dining outlets. Omeletes from \$2.50, pancakes, synthetics. Acoutered in vinyl fetish. Open 24 hours.

Around the corner of Hillsborough Street and Oberlin Road is Player's Retreat. Bernie Hanula for 32 years operates the oldest tavern in the state, claims barkeep Pat. The PR contains six large aquariums with fishes older than most customers. Framed basketball stories from State's ACC win of 1962. Thousands of collected steins, mugs, jugs, bottles and decanters line the walls. A jukebox place with pool tables and games, the PR is "a real regulars bar," says Pat.

"People who have been coming in here for years, politicians to college students." Selling best is the Bernieburger, a bacon cheeseburger for \$2.75. The PR's menu offers steak, spaghetti, subs and pizza, which was pale and thin. The meatball sub is better. They make salad dressing, sauce and gravies right here. Teams still celebrate at Player's Retreat.

Darryl's is dark, lit by antique

Here Charlie Goodnight's inhabits the old Raleigh Ice Plant basement. Down through the big stained glass doors along the stairs to that underground nest of rooms serving Mexican food. Diners run about \$5. Ample food so Mary-lou promises "you'll hafta be carried out." The stereo plays local originals, very new music or older '60s rockers.

Irregardless, back toward campus a block, offers luscious international style cooking. Arthur Gordon, the chef and owner, calls



Irregardless a "fresh foods restaurant. We try not to open any cans, and frozen foods. I go to the market each day to obtain fresh foods, taking advantage of the seasons.

"Taking advantage of what's in season," Gordon says, "provides better economic values for consumers with the added bonus of being good for you. America has the greatest bounty of food in the world. There's a lot of choice. The challenge is being creative." Gordon provides poultry, seafood and vegetarian entrees each night, from always delicious and varying recipes. Mexican, Italian, Japanese, Indian, Greek, French, English, all over the world. The Irregardless Cookbooks, currently in two volumes, attest to Gordon's culinary skills. The menu features hearty salads, sandwiches from honey and peanut butter at \$1.25 to Tuna at \$3.25. Entrees range from \$4.50 to \$6.50. Live music at night presents a rotating potluck of pianists and guitarists doing ragtime to classics and jazz, harp-sichordists, and Sunday brunch has a string quartet once a month. Irregardless serves some of the best eating I know. Tasty, unique, wholesome, plenty and scrumptious Irregardless flatters and stimulates.

Three blocks nearer school is the ersatz Pancake House, IHOP.

Breakfast House changes from night to day about 4 a.m., when the fluorescent brights come on and the stereo switches to a morning show. Night people face the day. Police come to eat and brag about the DUIs last night. Talk about delivering warrants this morning. The breakfast crowd starts. Lunch, afternoon and night. It's a wonderful zoo.

The Breakfast House, surely diverting, emphasizes food first. Best are the many, many omelets: California Dream has avocado, tomato, sour cream and cheddar; Joe's Vegetarian Delux has tomatoes, onion, green pepper, mushroom and cheese. Omeletes may come with three kinds of cheese, with seafood, potatoes. A great satisfying feast. These adventures cost \$3.15 to \$4.50.

The huge six-page menu includes Hawaiian French Toast made with pineapple and coconut, the Texas Belt Buster burger, deli sandwiches, shrimp creole, a \$2 breakfast, soups, salads, fanciful sandwiches, seafood, beef and the Gerald Ford Memorial Hoagie. This fall the oyster bar will again offer fresh steamed

China. Heros \$2.70 up. Dr. Franks, an ornate composite of deli meats and cheeses is popular at \$2.60. Supersprout for \$2.25 is a good high energy lunch. The music here could be Tom Waite, old rock, sit on your for slamdancing. Sit on your Harley in the parking lot and enjoy the day. Laundromat next door.

Close to central campus now, we reach two-story Raleigh. The Fast Fare! Here's an eclectic neon video orange blitz. Not totally devoted to creating diabetes, this palace sports a cook. And District Manager Toni Lichtenwalter wants suggestions. Free pizza on trial today. Who will buy for 30 cents the slice? They offer biscuits, sandwiches and may install BBQ pork and deli fare in pita bread. Lichtenwalter ties-in items, like the popular two hot dogs with soda for \$1.19. No profit, but people in the store. Not those sleazy franks either, "beef hot dogs, which are good for the kids. I know how I ate when I was in school," she says, "anything to fill up the hollow leg."

Next door, Blimpies, a cacophonous video parlor done up in the grubby Food Industry Orange and National Forest Picnic. The usual submarines, lipping and losing oil, needing drydock. Not very shipshape, unswabbed tables. Prices start about \$2.50.

The dark wood front distinguishes the Rathskeller, drawing people from all over town. It has flair. Consistently decent is the quiche with salad for \$3.60. Daily specials, homemade breads, terrific cherry cobbler with whipcream, meals, steak, the Tree Frog (go find out), sandwiches, salads, bushels of veggies. Rathskeller can overcook and won't blush at serving lettuce with brown trim. Send it back. Dark interior, low lights, jazz, soap operas in the afternoon.

Angotti's saved Mark Angotti and his wife from his career as a Virginian elementary school assistant principal. His Italian grandmother supplies the recipes for the savory home-made concoctions. Angotti uses spices very well. The lasagne is unique, great chili and bread it makes for sandwiches crumbles like pastry in your mouth. A 14-inch pizza is \$4.50. Calzones, meat and sauce or pizza fillings wrapped in dough and baked, start at \$3.

Mitch's, up the long stairway beside Studio One theater, belongs to another academic gone right. This tavern door can be mysterious to find. Up there, the

(See 'Meals,' page 16)

Hoagie. This fall the oyster bar will again offer fresh steamed shrimp, oysters, crab. A line of Mexican foods begins this summer. Hammock, once a rural Ford dealer, stocks his place with plants, keeps it lively and does very well.

Sadlack's for sandwiches. It takes eight inches to make a hero, they advertise. This little shop is a piece of folklore, a terminally unkempt quanset hut overlooking an asphalt veranda. On these concrete benches and tables gather to gossip folks who once sat on crackerbarrels. Inside Sadlack's, take up to one of the 17 stubby short counter stools. Posters and video machines cover the walls. Purple jaw crackers sell in gum machines. Tipping ain't no city in



Carmichael gym running athletic/recreational relief from study

by John B. Jones
Staff Writer

Carmichael Gymnasium is for students one of several major centers of his campus life, due largely to the physical education requirement incorporated in each curriculum.

A freshman first encounters the ordeals of PE 100; after this course he selects from a wide range of PE courses for his three semesters of remaining PE requirements. If it weren't for this University requirement, many students would not care to use the gym at all; still others, of similar mind, having completed all necessary physical education, never return to the gym facility, nor intend to. An individual should at least give the recreational facilities of Carmichael a chance, for the complex has a great deal to offer.

Although one may bear deep emotional scars from PE 100's treacherous mile-and-a-half run or perilous pullup test, the gym, once one has a feel for it and a familiarity with its many facilities, seems no longer an unpleasant environment, but a beneficial, convenient and fun (yes, fun) place to visit and use.

It seems that the word "gym" conjures up a fairly common image in most people's minds — a large, rectangular building with two or three basketball courts, locker rooms for the respective sexes and perhaps one or two peripheral rooms for use as offices or for various activities. Some larger gyms contain swimming pools, some have mat-covered exercise areas and still others, weight training equipment. State has it all and more. Of course, basketball courts, as in most gyms, are standard at Carmichael — the upstairs area of the gym contains seven available full courts (the eighth holds the equipment of the gymnastic team), with three additional courts outside the gym next to the parking lot. If you, like many people, have lost your ball down the sewer or never had one to begin with, for the modest fee of your registration card the gym personnel will lend you one (you get your card back upon return of the ball).

Upstairs, along with the basketball courts, are volleyball-badminton nets, available for student recreational use during non-class hours. If no one is playing on a basketball or volleyball court and you wish to play, it is alright to proceed onto the court. However, for a court reservation, present your registration card in room 116 of Carmichael; this process saves the area for you during an hour of your choice.

Making reservations for the volleyball courts over the summer is usually a good idea, for court demand is especially high during this time. Likewise, raquetball and tennis courts do not require reservations for play, but having a reservation slip in hand is grounds for ousting casual players from the court if there are no play areas to spare; a reservation simply assures an individual of a place to play. Reservations for any of these four types of courts may be made by

students or faculty in advance or on the day of play during the week; but for weekends, signup ends on Friday. Due to its popularity, raquetball courts are usually tied up during each noon hour during the work week, while weekend reservations often begin as early as Wednesday. The raquetball courts are located on a sub-ground level of the gym building, below the large room containing ping-pong tables. The courts are also used for handball. Sixteen tennis courts line the valley bounded by the gym building and the Physical Plant on Cates Avenue, but still others are available on Pullen Road near east campus. A student may play anytime (court lights are timed on cutoff), so if a 3 a.m. tennis match is your thing — hey, this is college; go for it.

The gym also deserves a word or two about its locker rooms (referred to on the signs as "dressing rooms"). These rooms are surprisingly large, so if you

machine. Sometimes referred to as Universal weight set, the machine allows the execution of many different exercises by using of a network of slab weights, cables and pulleys. This machine is one of two available in Carmichael gym, the other is in the women's weight room.

Other indoor gym facilities catering to specialized interests include a mat room for dance, martial arts, boxing or wrestling. A golf room next door is equipped with thickly padded walls and hanging netlike material that allow golfers to touch up on their driving skills without having to hold back in power.

Around the corner is a spacious room lined with carpet. Originally planned to contain bowling facilities, a dream that never quite materialized, the room currently allows fencers to jab and parry without feeling confined.

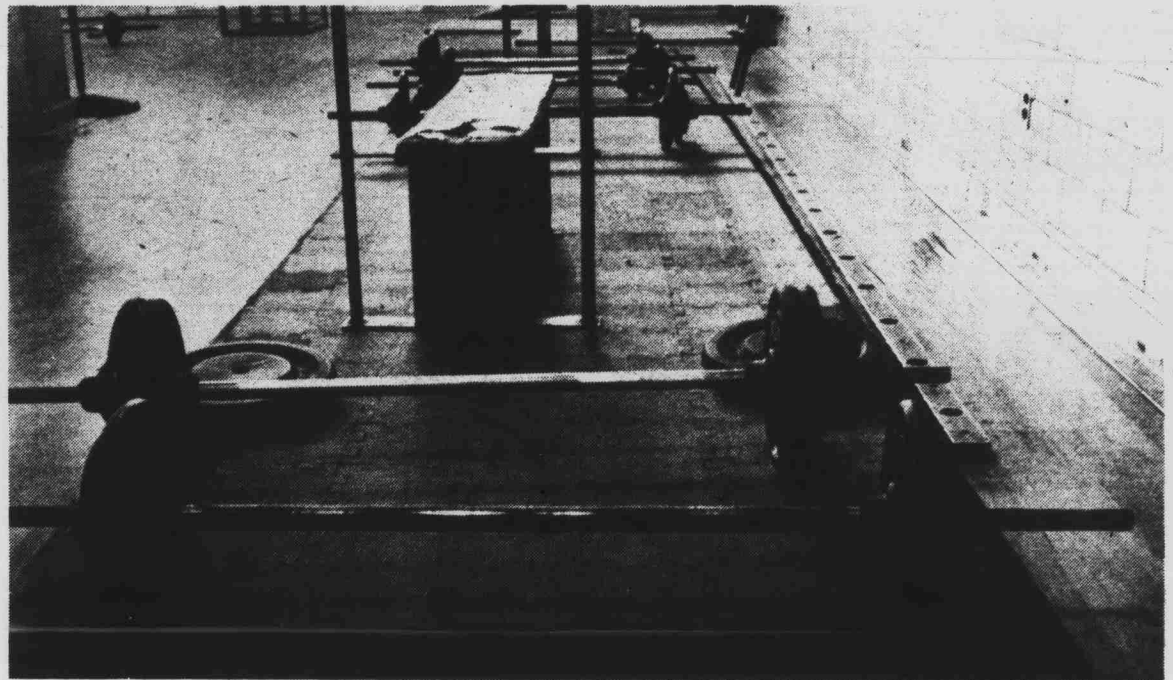
Across the pillared stone corridor outside the gym, near the parking lot, is another large

the gym on the bulletin board in the stone corridor, inside the pool area itself, and in each locker room, but the basic schedule remains more or less constant.

Gaining access to indoor gym facilities may sometimes mean having to present your registration card to the gym security individuals, who are posted outside of each gym entrance at 1 p.m. each day. The gym security program, started two years ago by equipment storeroom manager Levi Burt, helps control use of gym facilities by non-students. At the time of the program's beginnings in 1981, the University had recognized a problem in the growing inability to accommodate individuals non-registered with State. The security program not only places priority of gym use with N.C. State students, but, by making the gym non-public, the program, to some degree, also helps to control unchecked theft of both personal and University property.

which so many students play basketball is considered by many a superior surface for roller-skating. Up Morrill Drive fifty yards or so from the bus stop begins the expanse of Miller Field, consisting of two levels and bounded by hedges and fences. On the lower field is an archery range, free weights and peripheral weight equipment and an area suitable for softball or football. Each lap around this lower field is 4/7ths of one mile, a convenient measurement that, combined with the field's privacy, makes for a nice place to jog. On the upper field is a golfer's sand-trap and a long stretch of turf suitable for more intense golf practice. This field is fine for soccer, lacrosse or field hockey, and concrete walls erected on one sideline provide returns from practice shots for any of these sports.

As always, equipment for these outdoor activities — bows and ar-



are wandering around before getting dressed, be careful you don't get lost in the many passageways and cul-de-sacs.

There, on the first floor, a student may fill out a locker checkout card in order to receive a lock and a metal basket which contains a gym uniform and towel. It is estimated that every fall some 8,000 men and 3,300 women "draw lockers" from the gym.

The most popular of the first floor rooms are the adjacent weight training rooms. These rooms contain a variety of free weights, as well as benches, inclined benches, chin-up bars, sit-up mats and other training equipment.

Dumbbells are locked into a rack and for use by PE classes, but a registration card permits a student to check out a pair of most any weight from the cage in the locker room. In the weight room closest to the door also stands a Nautilus weight

room, this one containing ping-pong tables, visible from outside through pane glass windows. This recreational room has a balcony inside that overlooks each of the raquetball courts below. One should note that the ping-pong paddles, as well as equipment for any of the aforementioned sports, is available for checkout with a registration card in the equipment storage room (room 116) of the gym. One can check out volleyballs, raquetball rackets, fencing foils, wrestling tight's or golf clubs.

Another popular attraction is the indoor, Olympic-sized swimming pool. Located in the wide, flat wing of the building directly next to the parking lot, the pool area is accessible from both locker rooms via tiled corridors that emerge at the eastmost corner of each. Staffed with two lifeguards at all times, the pool has racing lanes as well as both high- and low-dive boards.

Pool hours are posted outside

Those freshmen not yet registered who wish to use the gym facilities during orientation may gain access to the building with a registered student. Once a student receives his registration card in the mail or in person on registration day, he should keep it safe, for it will often serve as his gym pass, as well as the key to innumerable other campus activities. Gym hours for the summer, which apply to all indoor facilities except the pool, are 7:30 a.m.- 9 p.m. during the week, 8-5 on Saturdays, and 1-5 on Sundays. The gym will be closed on July 2-5, and the fall gym schedule will resume on August 24, extending weekday hours to 11 p.m.

One should by no means fail to notice the many outdoor sports areas also available for use around the gym. For example, surrounding the southeast corner of the building, next to the outside basketball courts, is a putting green for golf enthusiasts. The concrete area nearby on

rows, lacrosse sticks, soccer balls — is available in the same equipment room, Carmichael 116.

Last, but not least in the list of outdoor recreational areas, is the famous Epert track field, located between the new athletic facility and Reynolds Coliseum. A tunnel leads onto the field from the Carmichael parking lot, but vehicles on the field are discouraged. This is State's track and field meet area and provides runners of all caliber with a good, solid surface on which to train.

The variety and diversity of the recreational facilities at State provides something for virtually everyone. According to L.T. Burt, storeroom coordinator, "State compares very well with other Universities from the standpoint of being a total facility." Just as State's academic programs spark new ideas and thoughts in its students, the aspect of college life that Carmichael gym provides should generate interests in the realm of physical education.

Faculty research vents into students' labs, lives

by Bill Ridenhour
Assistant Copy Editor

State's department of mechanical and aerospace engineering is currently engaged in research that will place it at the cutting edge of today's technology.

Over the past several years, the department has brought in about 10 new faculty members who are now developing research programs of their own to supplement the already large amount of research that the department is doing. According to Ralph A. Burton, head of the department of mechanical and aerospace engineering, department research expenditures increased last year from approximately \$800,000 per year to \$2,000,000 due to the new professors bringing "their energies into the program." As entering students progress through their college education the "labs will begin to be completed and brought on line."

The types of research being studied are as wide-ranging as the tools used in their study. One of the most valuable tools for the aerospace students are the wind tunnels. State is fortunate to have several operational wind tunnels for use not only with the research efforts but also for use in the undergraduate and graduate courses and labs. Robert Vess, aerospace laboratory coordinator, sees the "hands-on experience" as being an invaluable asset to the student. He stressed the importance of experience not only as what the student can gain in the classroom or lab but also outside of class through "extracurricular" work.

Vess suggests that interested students seek out their professors and find out exactly what type of work or experimentation is ongoing that they could assist with. "Whereas in a course lab you have a specific deadline to meet, when you are able to do some lab work outside of the classroom where the pace is very relaxed, you can really get the enjoyment out of what you are learning. You see the results of what you are doing much better and it



Soap bubbles carried by the wind allow for the observation of vortex currents which flow past this projectile.

Staff photo by Clayton Brinkley

makes the overall effect of studying more enjoyable."

Other experimentation being researched is in the field of robotics. Working with an IBM CAD/CAM (Computer Aided Design/Computer Aided Manufacturing) system, mechanical engineering students in a specially developed senior design course learn the procedures for developing designs for automating assembly and testing systems. According to Allen C. Eberhardt, associate professor of mechanical and

aerospace engineering, students need to be proficient in many areas in order to make a worthwhile contribution in their field. They must be able to view problems presented to them and, within the scope of the project, supply results for a specific application. Exposing students to this type of experimentation is proving to be invaluable in preparing them for these responsibilities.

Burton credits the variety of research within the department with the individual professors.

"They (the professors) looked at what was current and emerging in the field today, and they said, 'This is what we are going to work on.'" This progressive attitude on the part of the faculty has led to experimentation and research in the areas of boundary layer growth, hydro-acoustics, aircraft flutter, precision engineering, etc., as well as an

tensive use of computers in these and many other areas.

Without hesitation, entering students in engineering as well as other disciplines can look forward to an exciting and challenging road ahead as technology and continued research bring new innovations into our lives and our studies.

Socialize near campus

(Continued from page 11)

where friends can meet, eat, drink, talk and generally have a good time. Poor Boy's Heros in Mission Valley offers the same — good sandwiches, cold beer and relaxed atmosphere.

These are essentially the bars that are in the local area of campus, those that are probably the

best equipped for the college crowd as in Raleigh. Completely equipped with facilities for drinking, dancing, jamming, partying, socializing and every thing else that makes college leisure life worthwhile. So get out and try the bars in Raleigh, even if you don't drink (or may not be able to), there's enough fun to be had to make the trip an enjoyable experience for all.

Music lives on campus

(Continued from page 10)

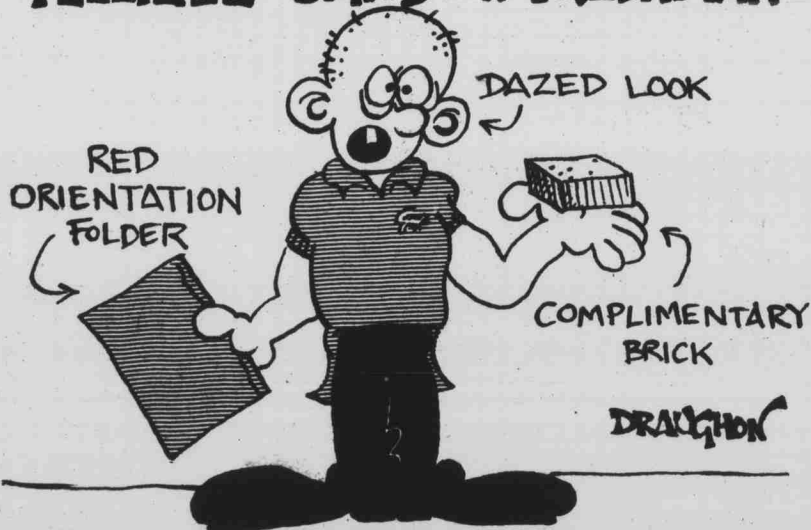
Mu Beta Psi, State's music fraternity. The Chamber Singers are featured with their vocal music of the Renaissance and the Baroque. The singers conducted by Phyllis Vogel also have a regular concert season.

One of the advantages of State's musical opportunities is that most of them are in the form of classes. Yes, you can get credit for playing in the band or or-

chestra or singing in the Chorale or Glee Club. And you can have your registration put through the computer before others so that you will be assured of your music class and maybe others.

Now that you have the rundown on what State offers in the line of music — both for the spectator and the eager to perform or learn — go by Price Music Center and ask about joining up or find out what is going on this summer or next fall. You might be surprised and delighted.

TELLTALE SIGNS OF A FRESHMAN



Step-by-step instructing for dormitory room additions, interior decorating, shopping tips

Rooms need carpeting, paint, personal touches

by Nancy Buttermore
Production Manager

and
Barry Bowden
Entertainment Writer

When you first move into your dorm room, you may be shocked by the lived-in look. Never fear. With a little elbow grease and a lot of funds or imagination, you can transform that plain dorm room into an expression of your personality.

Step 1. Before you begin, it's a good idea to check with your roommate to make sure you agree on the new decor. Not only will this start you two off on the right foot, it will also make the job easier.

Step 2. Plan. Not only will this save you a lot of hassles, it will prevent you from getting your room half-done with no funds to finish the job. Make sure everything you plan is approved by the housing office or you may end up tearing down everything you've worked so hard to build.

As you can tell from that first glance, your dorm room needs paint — really bad. Free paint is available at the beginning of the fall semester from Residence Facilities, but the color selection is just not Sherwin-Williams. If you go this route, you'll also find the supply goes quickly. K-Mart has a good selection of inexpensive wall paints, though certain colors are a no-no with housing. Always check with your resident advisor before going to any violent extremes with colors or graphics.

Carpeting is a great addition to your dorm room. The first time you get out of bed this winter and set your feet on that icy tile floor, you'll wish you had bought carpeting when you first arrived. Carpeting also brings your whole decorating scheme together and makes it more like home. Now, don't rush out to buy 15 square feet of deep pile, sculptured wall-to-wall rug. Many area carpet outlets hold remnant sales on campus. You can get a decent 10'x12' carpet for about \$20. Or if funds are low try smaller remnants or area rugs available at carpet stores and K-Mart.

Next thing you're going to realize is that space is at a premium in dorms. Bunk beds are a great solution to the problem. Remember, though, planning is of the utmost importance. You don't want your roomie crashing down on your head at 2 a.m. or at any time for that matter. Back to K-Mart you go. Or Lowe's, which is a little more expensive, but you may find the quality is also a little better.

It's best to pre-fab the bunks at home as it's against the 'rules' to use power tools in the dorms. What this means is this. Construct the bunks at home with Dad's power tools, dismantle the whole thing and bring it to school to put back together. Take careful measurements of your dorm room. If you go this route, you also need to get a copy of the Structure Policy from Harris Hall before you begin, as your RA will inspect your bunk after it's completed. Plan to stain or paint your bunk — this is also required by the "rules."

A small refrigerator is a must for the self-sufficient freshman. Just because you're on the meal plan doesn't mean you won't get hungry or thirsty when the Dining Hall and the bars are closed. There is a limit of four cubic feet per person, but unless you cook in your room, you won't need that much. Unless, of course, you're a heavy drinker. Several companies in the area rent various size refrigerators for a reasonable price per semester.

A stereo is a must for the serious student. Get together with your roommate beforehand and work out a compromise for bringing components. Also make sure you share an interest in the same kinds of music. If not, you should seriously consider bringing headphones to school.

It will become apparent after your first few weeks at State what small appliances you will wish you had brought. Popcorn popper, fan, blender, toaster oven, clock radio, television, can opener and calculator — just to name a few.

Now for the walls. Posters, posters and more posters to cover up those spots you missed when you painted.

Many upperclassmen you meet will have decorated their rooms with street signs, but this is absolutely forbidden. Sure, it looks good and it promotes that macho image, but Mom and Dad are real-

ly gonna be mad when you phone home from jail. Ditto for milk crates!

Step 3. Execute. All this takes time, of course, and we don't expect your rooms to look as good as ours right away. But we know you're doing as well as can be expected. Remember, space is a luxury, so check with your roommate before you move in. You won't need two TVs, two stereos or room for four people.

Good luck! And if you need help, never hesitate to ask an upperclassman or your RA. We're here to help you.

Freshmen myths dispelled

by Carol Rascoe
Proofreader

Welcome Class of '87 to North Carolina State University. I hope that your stay here at State will be a pleasant and fruitful one. We here at this great institution of higher jumpshots, oh, I mean learning, will do everything in our power to make your learning experience a most comfortable one...

Let's dispense with the cordialities. I'm sure you all have heard and will hear those same words many times. Make no mistakes, the administration here is a very big help in the orientation process, but let's face it, there are certain questions that just aren't answered in the handbooks and welcome speeches. Maybe I can be of some help.

Trust me. I wouldn't lie to you, although there are those upperclassmen who seem to enjoy purposefully leading freshman astray. I'm not one of those upperclassmen. I've had years of practice being a freshman so I can relate. So here are some pointers

to dispell popular misconceptions.

1. NC does not stand for North Carolina, no comment, no cookies, new car, no caffeine or noncarcinogen.

2. The train is not a University service to shuttle students from east to west campus.

3. The bell that sounds as you exit the library does not mean that you are the grand prize winner.

4. Dialing 9 to get off campus does not mean that the call is toll free.

5. There are only three tunnels; and they are not the work of campus rodents.

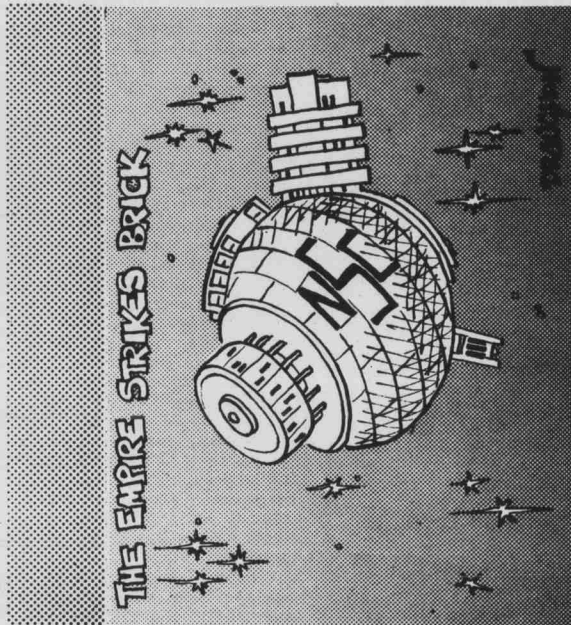
6. Contrary to popular belief, Tut's does not stand for Tutorial Unisex Teaching Service.

7. It is not mandatory that notes be taken at the Stewart Theatre movies.

8. Pink slips received in the mail are not tuition or room rent refunds.

9. Economics courses are not taught in Peele Hall.

10. Your student number is not the number of times that you have taken freshman English.



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Use of library depends on clear mind, questions

by Stuart Baselsky
D. H. Hill librarian

revised by John B. Jones
Staff Writer

Did you know that "The Star-Spangled Banner" is sung to the tune of an old English drinking song titled "Anacreon in

Heaven"? This unusual fact came to light when a State student, doing research for a history class, questioned the librarian as D. H. Hill library. With this answer, other facts were uncovered from the library and the student successfully completed his assignment with flying colors. This young man was fortunate, for he had learned early in his life that if he did not ask questions, he would

not get the answers. Regrettably, many students find the use of the library a difficulty and great frustration; still others realize that there is an abundance of information at their fingertips. The library works very efficiently once a student masters its logic. This logic is learning to ask questions, but questions have to be asked in a clear manner.

Before you come to the library you should have some idea of what information you want and why you want it, then try finding it yourself. If you get confused, lost or frustrated ask one of the librarians for help. They will be glad to do all they can for you; that is their job. To be sure, the library is by no means an easy place to totally understand and without knowing

exactly what it has to offer, it is difficult to know what paths are open to you as a student; therefore, there will be several articles written as a follow-up to this introduction during the summer session editions of *Technician*.



D. H. Hill Library is full of information in the form of magazines and journals to micro-film and newspapers. There are areas to study and areas to take a break from studying. And if you have a questions about anything concerning the library facilities, there is always someone around to ask.

Staff photos by John Davison

Meals out keep eye on wallet

(Continued from page 12)

place is spacious and charming, with the former high school science teacher's carefully acquired antiques and art. Booths and tables. A good lunch special has chunky vegetable or beef stew and sandwich for about \$2.50. The big sandwiches anytime. Classical music at lunch, rock nights.

Baxley's exists for breakfast and lunch. It opens at 5 a.m. and closes at 4 in the afternoon with eggs, omelets, hot cakes and grits. Good coffee here. Biscuits 50 cents. Early American wallpaper and light green pastel walls. Baxleys fed farmers before State college raised its first hog.

Two Guys and Brothers, side by side, create popular Italian western pasta and red stuff. The 17-inch pizza at Brothers is 20 cents less than at Two Guys, \$9.75 with everything, but they have plastic tea glasses. The walls at Two Guys are more interesting, closely grouped State sports headlines. Low prices and quantity sells. A common fault is the pasta, preferring that overcooked white paste. Good pasta should be soft but toothy. And the superior flavor available in other grains than bleached flour, provide better tastes and textures for the sauces, cheese and spices.

There's another surprise upstairs. Ever eaten at the bowling alley? Roy Lasater has remodeled and refurbished the menu. Breakfast starts at 7:30 a.m. with omelets and grits. Lunch specials, Lasater says, include "meat, two vegetables and a drink for \$2.75. Homemade rolls. Things that stick with somebody." Western Lanes opened in the '40s and Lasater plans to restore the "old fashioned way." Cherry cokes, fresh lemonade, old fashioned milkshakes, fountain cokes, fresh hamburger and ground coffee. Music by the 10 pins and a free jukebox. The muted tone also strikes a '50s note, tables sport North Carolina Variety Vacationland place mats. Cheeseburgers are vast heavy things with chunks of lettuce. The

(See 'Cuisine,' page 17)



Cuisine ranges in price, quality: Show your pleasure, displeasure

(Continued from page 16)

waitresses knew my father from State football years ago.

Old Time Hotdogs is across from the library, back behind the rugged iron bars. This neon fluorescent tunnel is a friendly, efficient place for attracting all sorts of people who go for hot dawgs, sandwiches of the fried kind, corndogs and burgers: The Fried Surprise is \$1. Old Time has that workaday hillbilly bluegrass ambiance. Those big cans of tomato puree and Heinz ketchup line the walls. Dawgs \$.99, hamburgers \$1.40. Maybe it fries carrots.

Next door is Harmony. The most amazing snacks, lots of nibblers, many cheeses, the best yogurts around, bran muffins, sprouts, juices, "food without any junk in it." The soft drink selection boggles: Apple Rush, Ginseng Ginger, Strawberry Apple, Black Cherry, Mandarin Lime, Mountain Water.

Atlantic and Pacific Tea Company is self-service and take out, but the prices are good. Whole chickens for \$.59 a pound, mixed vegetables \$.65, sirloin \$3.89. Here are the cool breezes of central air, here's the Wolfpack Soda, but no seafood, no lamb and inferior vegetables. Where's the pizzazz?

Biscuit Time serves maybe the best biscuits, about \$1, open 6 a.m. to 2:30 p.m. every day.

Golden Key, final saga of the spaghetti westerns, has a more sumptuously budgeted set. Belly dancers sometimes. Nick dishes up the better Greek salads, pasta and eggplant. Richer, more sincere cuisine.

Huckleberry's tries to serve chicken, burgers and anything fitable to the biscuit after the frier. Chicken boxes. 24 hours. They could fry Toyotas or spinach. Outfitted in plastic ranch.

Mr. Ribs is in a jovial sort of chaos as Bob Bell moves from the old place of 13 years to the new place. This little house was built in 1922 beside the old trolley station. BBQ beef, pork and chicken starting about \$4. Good fare.

Swensen's is managed by Renee Burdette, a happy poli-sci graduate from State who worked through school here. Swensen's offers lunch specials, sandwich and soup. A favorite, she says, is the cheeseburger plate for \$3, another the Patty Melt and the tuna sandwiches. Swensen's is rigged with hanging plants, flowers and stained glass, booths and outdoor tables breezed by overhead fans. The famous ice cream is made right there upstairs. Flavors change frequently. Friday and Saturday nights get crowded from 8:30 p.m. to the midnight close. Renee suggests it's all those girls from the junior colleges flocking in.

It's fun to try every place and go for what's best. The most consistent place is Irregardless, which could thrive anywhere from Minneapolis to New York. This is superb food which "is also good for you." Breakfast House can offer a lot, the omelets world-class and its circusy 24-hour zoo. The Rathskeller enjoys a roman-

tic touch with its design. Swensen's has a pleasant San Francisco charm.

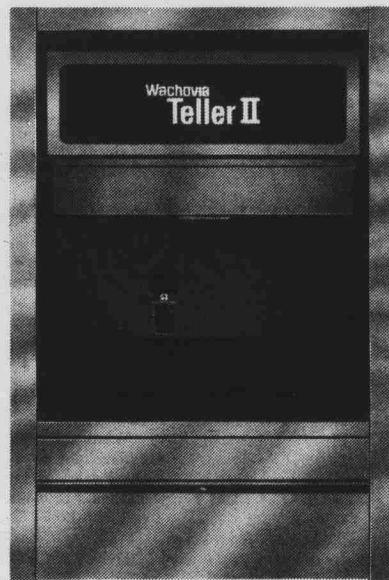
For lunch, the specials at Mitch's can be hearty and economical. Western Lanes is fun, almost a secret. Darryl's has the only buffet, so if you want to lay in pasta-pounds waddle out there.

For Italian savorings, Angotti's has the most flavorful touch. Golden Key is more expensive. Two Guys and Brothers do best when the owners cook. For Chinese, rumor is their ship will soon try to pilot the Hatteras reef of Hillsborough Street, that chancy corner near the Post Office littered with the floatsom of previous assays.

The people banking on your approval without exception are friendly and charming. Eating on Hillsborough, fueling for the intense metabolic load demanded by careers in school, has one caution. Some of the worst places believe plying everyone with ethyl alcohol, cheap but low-overhead profitable, will cover

mangy quality in food. Hardly. Since even bad calories are filling, you must trust your forebrain to articulate a sign. Ignoring yourself will not provide the happiest outcomes from living here. Don't be used to bankroll those cynics. Eat well. Demand it. Discover.

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Join up with Thompson Theatre: act out joys, fears

by Susan Hankins
Feature Editor

Have you ever heard the expression "the show must go on?" Of course you have. And for all you freshman who aspire to be actors, directors, dancers or techies, the show must go on at State also.

A few places exist on and around campus where interested students can participate in theater and the arts.

The first place to start is right here on your campus at Thompson Theater. Located on Dunn Avenue between the parking deck and the Quad snack bar, Thompson Theater serves the campus and the Raleigh community with student-oriented productions. Headed by director Charles Martin, Thompson Theater provides an outlet for student acting, directing and technical work as well as supplies entertainment for State students and Raleigh citizens.

Auditions for Thompson are open to all State students. Times and dates for auditions are announced in *Technician* and on the billboards outside of Thompson Theater.

Thompson has a small studio theater where students who wish to can direct experimental theater projects. Certain dates are allotted each semester for these student-directed shows. Anyone interested in doing a studio should call Martin at 737-2405.

For students more interested in watching shows, you can't find a better deal. Tickets are 25 cents each with your semester registration card, and you are allowed to pick up two student tickets per card. So, for 50 cents, you and a date can see a show and still have money left over for dinner!

This fall, Thompson Theater will present *Look Homeward Angel*, a studio production (unknown at this time), and the

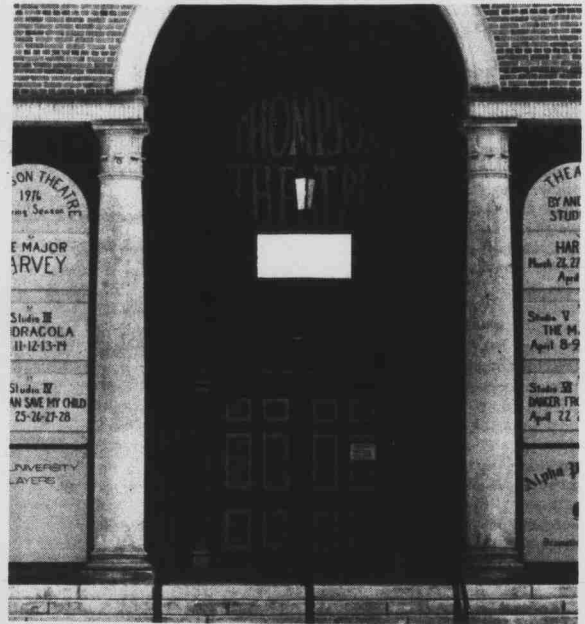
fourth annual Madrigal Dinner.

The spring will open with the fifth year of Childrens Touring Theater, directed by Terri Jamney. Students in the touring company have to take the show as a class, blocking out time from noon-3 p.m. every Monday, Wednesday and Friday.

The spring major will be the musical, *Guys and Dolls*. And again, some time will be set aside for studio productions.

If the campus theater doesn't suit you, Raleigh boasts two community theaters close to campus. Theater-in-the-Park, located on Pullen Road and across from the Bell Tower, is close enough for on-campus students to walk to. This theater is directed by Ira David Wood, who acted in the uncompleted film, *Brainstorm*.

Theater-in-the-Park holds open auditions for the entire community. Announcements for these Auditions are printed in *Technician* and the *News and Observer*.



Technician file photo

Productions go on in Thompson Theatre during the summer. Live entertainment with friends.

Wood directs *A Christmas Carol*, which has become a Raleigh tradition. The rest of next season's line-up was unavailable, but TIP usually has a spectacular group of plays.

The other community theater, Raleigh Little Theater, is located on the other side of Hillsborough Street, three blocks down Rogue Street. Like the other theaters, RLT relies heavily on volunteers to act, build sets and do other technical work.

Auditions are open to all community members, as well as students. For students who just enjoy going to plays, RLT offers special rates on seasons tickets.

This year's line-up at RLT includes *Annie*, *Never Too Late*, *Saint Joan*, *Deathtrap*, and *Cabaret*.

What about those interested in dance. Not to worry. Theater-in-the-Park offers some dance classes. For class rates and times, call 755-1261. The Easy Moving

Company dance studio is close by also, just next to Darryl's on Hillsborough Street. This dance company began in 1975. Three women decided to start an educational modern dance company.

Although the original members are no longer there, the company is still going strong. The company does not have many State students enrolled in classes. It would like to see more State students taking classes with them. All of the members are excellent dancers, and they perform all over North and South Carolina.

Generally, the company only teaches modern dance classes. But, recently, they have added a jazz class. Class times are very flexible, so students should be able to fit a class into their schedules. For more information, call the Easy Moving Company at 832-2632.

Now you have the information, so go on. Take a chance. Get involved. You'll be glad you did!

Social Security not personal, only numbers

Strike out on your own

by Jackie Jeffries
Proofreader

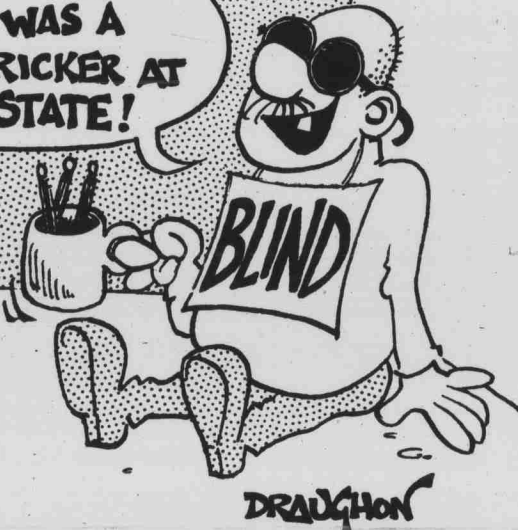
My worst fear as an entering freshman was how would I find my place among a campus population of more than 20,000 students. Coming from a small town, I couldn't even imagine many people being in one place at one time.

My hometown has a population of only 5,000 people, and that's over an area of about 10 square miles. I could set my high school inside of State about 20 times!

My first semester as a freshman, I learned what I should have learned long ago, my social security number. You are not a

"total unknown" as an entering freshman, you are -123-45-6789. But it gets better as time goes on. Once adjusted to college life you learn that you do have campus clubs, organizations, etc., along with achieving a nice academic standing. It is a slow process but it can be done. You can claim your place, "become an individual" here at State. You must say to yourself, I want to be known as Jane Doe, not as -123-45-6789 and go for it. Get to know people — the faculty, students, etc. Get involved in your University. The minute you hit State's campus find out what goes on around you; don't hide in your dorm room. Claim your individual place at State.

HOW DID I GO
BLIND? I WAS A
MASTER BRICKER AT
N.C. STATE!



Shimmery waters, carousels, fishing lead to fun

by David Knecht
Entertainment Writer

The life of a college student is often very hectic. Classes, campus activities and socializing require much time and energy. At State, one rises well before the sun has properly warmed the earth in order to arrive at class on time. On the way to class, students encounter bricks in all their myriad of forms. Underfoot or looming above us in walls, these red, white and brown blocks surround us. We trot across oceans of bricks, along brick paths and up brick steps in order to enter the brick buildings where classes are held. It doesn't take long for the average student to grow extremely weary of baked clay.

Where can a weary student find relief? At a local park, that's where. Three parks convenient to campus are Pullen Park, Lake Johnson and the Rose Garden.

The Rose Garden, located a

couple of blocks north of D.H. Hill Library, is directly behind the Raleigh Little Theatre amphitheater. It is a pleasant park that features, as its name implies, many varieties of roses. It is best-suited for casual strolls: a good place to stop and sniff the roses.

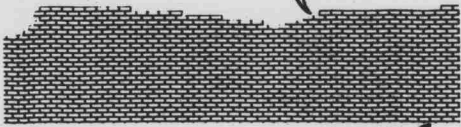
Lake Johnson, part of Raleigh's water supply, is an excellent place for a disillusioned campus-bound fisherman to find respite. Located approximately four miles down Avent Ferry Road, Lake Johnson has paved bike trails and picnic facilities. The real treasure at Lake Johnson is the fish. Bass, bream, crappie and catfish prowl the waters in search of baits' hooks. While shore fishing is not allowed, it is possible to rent a boat, with or without an electric motor. The boats, complete with life preservers and paddles, go for \$6 to \$12 a day. Wake county residents using live bait are not required to have fishing licences.

Lake Johnson is open from 7 a.m. to 7:30 p.m. weekdays and 6 a.m. to 8:30 p.m. Saturday and Sunday.

Pullen Park, located just across from east campus, has much to offer the weary student. It is one of the oldest parks in Raleigh, dating back to the 1920s. One can stroll through lightly wooded hills or meander casually through the flowers around Lake Howell. The park has picnic facilities, six tennis courts, a playground and a frisbee golf course. For a mere pittance, a student can swim, ride a miniature train around the pond, visit the concession stand, venture onto the pond in a pedalboat or experience a hand-crafted carousel that features genuine wood animals. The carousel, approximately 80 years old, has been completely restored.

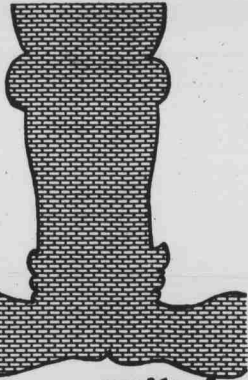
The park is open during the daylight hours, although some facilities are not in operation until 11 a.m.

PROTESTANT BRICK ETHIC



DRAGON

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If you're wondering what all the brick jokes are about, just stick around and observe what transpires while you are at State. You will be utterly surprised at the places that the Physical Plant bricks.

**TYPICAL
N.C. STATE
STUDENT**



DRAGON

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YOU'VE CAUGHT
ME LOOKING UP
GIRL'S DRESSES
NANNY!

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<u>FALL 1983 SCHEDULE OF CLASSES</u>		
MS 101 (1hr)	INTRO TO ROTC & THE ARMY	M(1000-1050) M(1525-1615) T(855- 945) T(1315-1405) W(1105-1155) W(1420-1510) W(750- 840) H(1105-1155) F(855- 945) ARRANGED
MS 103 (1hr)	RANGERSPECIAL FORCES OPERATIONS	M(1420-1510) T(1105-1155) H(750- 840) H(1420-1510) ARRANGED
MS 104 (1hr)	MILITARY PHYSICAL TRAINING	H(1420-1510) W(1420-1510) ARRANGED
MS 106 (1hr)	MAP READING	M(1315-1405) T(750- 840) H(1420-1510) F(1000-1050) ARRANGED
MS 201 (2hrs)	BASIC MILITARY LEADERSHIP	MW(1000-1050) TH(930-1020) T (1315-1510) H (1315-1510) ARRANGED