

It is forbidden to kill,
therefore all murderers
are punished unless
they kill in large
numbers and to the
sound of trumpets.
— Voltaire

Devil: The black sheep
of the heavenly hosts,
and the main prop of the
Church . . . Without
the devil, God would be
cut but a sorry figure at
best. The love of God is
frequently but the fear of
the devil.
— Voltaire

I detest what you write,
but I would give my life
to make it possible for
you to continue to write.
— Voltaire

Give me four years to
teach the children and
the seed I have sown
will never be uprooted.
— Lenin

How many divisions has
the Pope?
— Joseph Stalin

In conformity with the
interest of the working
people, and in order to
strengthen the socialist
system, the citizens of
the U.S.S.R. are
guaranteed by law:
(a) Freedom of Speech;
(b) Freedom of
Assembly, including the
holding of mass
meetings; (c) Freedom of
street processions and
demonstrations. In order
to guarantee to all
workers real freedom of
opinion, the Russian
Socialist Federated
Soviet Republic
(R.S.F.S.R., now
U.S.S.R.) abolishes the
dependence of the press
on capitalism, and
places at the disposal of
the working class and
the peasantry all the
technical and material
means for the
publication of
newspapers, pamphlets,
books, and all other
publications of the
press; and guarantees
free circulation for them
throughout the country.
— Constitution of the
U.S.S.R. (January 31,
1924)

The policy of Russia is
unchangeless . . . Its
methods, its tactics, its
instruments may change,
but the polar star of its
policy — world
domination — is a fixed
star.
— Karl Marx

The facts speak for
themselves.
— Euripides

Damn the money. Damn
the heavy weight
of the world.
I will die
before I sell out my
people for the white
man's money.
— Cassius Marcellus Clay

If gods do evil, then they
are not gods.
— Euripides

Human rights is the soul
of our foreign policy,
because human rights is
the very soul of our
sense of nationhood.
— Jimmy Carter

Man is not a mammal.
William Jennings Bryan
(Scopes monkey trial)

You can certainly
destroy enough of
humanity so that only
the greatest act of faith
can persuade you that
what's left will be
human.
— J. Robert Oppenheimer

You cannot put a rope
around the neck of an
idea; you cannot put an
idea up against the
barrack-square wall and
riddle it with bullets; you
cannot confine it in the
strongest prison cell
your slaves could ever
build.
— Sean O'Casey

All animals are equal,
but some animals are
more equal than others.
— George Orwell (1984)

Chastity — the most
unnatural of the sexual
perversions.
— Aldous Huxley

They wrote in the old
days that it is sweet and
fitting to die for one's
country. But in modern
war there is nothing
sweet and fitting in your
dying. You will die like a
dog for no good reason.
— Ernest Hemingway

Once a man's married,
he's absolutely anchored.
— Ernest Hemingway

I believe that man will
not merely endure; he
will prevail. He is
immortal, not because
he alone among
creatures has an
inexhaustible voice, but
because he has a soul,
a spirit capable of
compassion and
sacrifice and endurance.
— William Faulkner

Power does not corrupt.
Fear corrupts, perhaps
the fear of loss of
power.
— John Steinbeck

You can have your
choice between God and
Sex. If you choose both,
you're a hypocrite; if
neither, you get nothing.
— F. Scott Fitzgerald

To withhold news is to
play God.
— John Loft Hess

**Congress shall make no law
respecting an establishment of
religion, or prohibiting the free
exercise thereof; or abridging the
freedom of speech, or of the press;
or the right of the people peaceably
to assemble, and to petition the
Government for a redress of
grievances.
— First Amendment to the
Constitution**

I have a dream that
some day every valley
shall be exalted, every
hill and mountain shall
be made low, the rough
places will be made
plains, and the crooked
places will be made
straight, and the glory of
the Lord shall be
revealed, and all flesh
shall see it together. I
have a dream that my
four little children will
one day live in a nation
when they will not be
judged by the color of
their skin, but by the
content of their
character. — Martin
Luther King, 1963

The rich will do
everything for the poor
except get off their
backs.
— Karl Marx

Government by the
people is possible, but
highly improbable.
— J. William Fulbright

Friends, and I mean
friends, reserve nothing;
The property of one
belongs to the other.
— Euripides

Man's greatest tyrant
is his wife and
children.
— Euripides

I pity the Soviets. Their
god is science and
technology, and their
god lives in the U.S.
— Daniel Graham

If man hasn't discovered
something that he will
die for, he isn't fit to
live.
— Martin Luther King, Jr.

Let us begin by
committing ourselves to
the truth — to see it as it
is, and all is like it is —
to find the truth, to
speak the truth, and to
live the truth.
— Richard Milhous Nixon

Volume LXVII, Number 90
Wednesday, July 23, 1986
Raleigh, North Carolina
Phone 737-244-8100

Technician

\$5 Million grant largest ever

State has received a \$5 million grant — the largest direct research award ever won by the university — to expand the nation's only university research program focusing on the emerging field of precision engineering.

The award was announced last week by Chancellor Bruce Poulton, who said State was selected from among 35 universities vying for the five-year grant from the Office of Naval Research (ONR) to develop technological expertise in important areas as part of the Department of Defense's new University Research Initiative.

"N.C. State is indeed pleased and proud to have been chosen for a leadership role in developing the new manufacturing technologies needed by American industry and North Carolina manufacturers to regain a competitive edge," Poulton said.

"Precision engineering, along with our other interdisciplinary centers here at NCSU, is striving to boost the economy of North Carolina and the United States," he added.

The funding will expand the

activities of State's Precision Engineering Center, an interdisciplinary research center directed by Thomas Dow. Dow said he hoped the center could become a force in boosting American industry's competitive position in fields such as consumer electronics, high-efficiency engines and high-precision manufacturing.

"Most industries need to make things better and smaller, to extend the life of mechanical and electrical parts and to reduce their cost and wear," Dow said. "With the help of the ONR grant, we hope to develop both new technologies and new people to take leadership in this field."

The new ONR funding, at a level of \$1 million a year over five years, will begin in September. It represents a major increase in ONR support for State's Precision Engineering Center.

Launched in 1982 as the Precision Engineering Laboratory, the facility in Broughton Hall initially was supported with a \$1.26 million ONR grant for a three-year period. Its

current activities are supported by a \$200,000 one-year grant from ONR and by a total of \$150,000 in funds from industrial supporters.

State was one of four universities chosen for the ONR's original Selected Research Opportunity in precision engineering. It is the only university which has been selected to continue the research.

The ONR grant will support the work of seven faculty members from NCSU's Departments of Mechanical and Aerospace Engineering, Physics, Materials Engineering and Computer Science.

To provide adequate space, Poulton said, the research activities will be moved to a 5,000-square-foot building to be built later this year with university funds. The building is to function as an interim facility until a major Engineering Graduate Research Center is built.

The ONR grant also will provide funds for graduate fellowships, increasing to \$230,000 a year by 1989. Combined with the affiliates' support, the funds

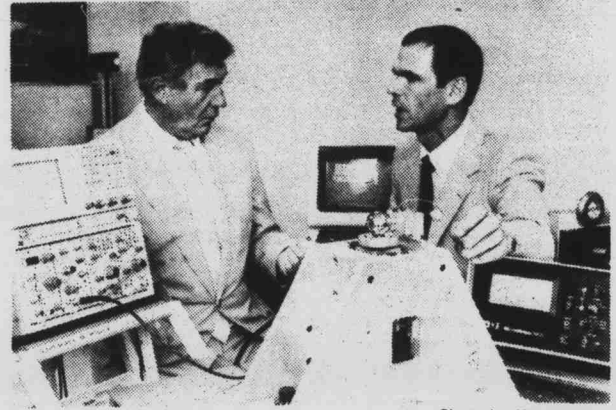


Photo by Ken Melley

Chancellor Bruce Poulton listens as Thomas Dow, director of State's Precision Engineering Center, explains a computerized movement correction system.

will support some 25 graduate students.

State now is training eight graduate students in precision engineering, offering the only such training in the country. The budget approved by ONR also provides \$22,500 a year for training undergraduate students.

The Precision Engineering Center also will be the head-

quarters of the American Society of Precision Engineering, now being formed, and of a journal to be published by the new society.

Precision engineering is a field which seeks to make and measure mechanical and electrical devices with extreme precision — down to one millionth of an inch, or less than one-thousandth the thickness of a human hair.

AIDS task force releases university guidelines on disease

In response to widespread concern about AIDS, State has adopted policies and procedures to deal with infected persons and is undertaking a widespread educational program on the disease, Chancellor Bruce Poulton recently announced.

The university is responding to a projection by health officials of a national AIDS epidemic by the 1990s and to a request by the University of North Carolina system leadership to develop policies for

institutional response and to develop an education program.

The AIDS Task Force, chaired by Carl Dolce, dean of the School of Education, was appointed in December by Poulton and asked to obtain the latest medical and legal knowledge about the disease. The group recommended appropriate steps to take in the event an incidence of AIDS on campus.

"This task force has done a great service to the university

community by drafting informed, compassionate guidelines for dealing with a very difficult potential problem," Poulton said.

The policies reflect a directive from the UNC system which states that persons infected with the AIDS virus enjoy the same rights as any other member of a university community, unless it is medically determined that they endanger the welfare of others.

The task force recommended

that judgments on individual cases be made by a special "University Response Team" which could supply the medical, legal and administrative expertise to handle the situation.

The program includes a campus wide educational effort to encourage persons who suspect they might have AIDS or might have been exposed to the virus to seek medical assistance on a confidential basis. The report stressed that effort will be made to preserve and protect the privacy of those persons.

Therefore, the task force said, "...the university will not routinely inform others of the existence of individual cases, except as required by law."

Although the university will not release information which could identify individual AIDS patients, the report said "it is the university policy to cooperate fully with the news media and to provide general,

statistical information on AIDS cases, when available."

Robert Moseley, Student Health Services physician and a member of the task force, said, "Because of the voluntary nature of individual reporting, we will not be able to maintain any meaningful statistics on the incidence of AIDS here at NCSU."

The education program began last spring and will be more fully implemented this fall. It is designed to provide the latest information on the disease to all in the university community, but will especially target high-risk groups.

The report stated, "A widespread, effective and ongoing educational program is essential in any viable institutional response to AIDS. Such a program can help to reduce unnecessary anxieties and to promote behavior which reduces the risk of infection."

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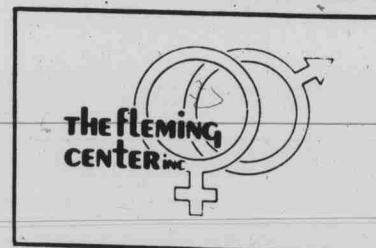
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Help Wanted

Aerobic instructors needed for morning classes at Carolina Courts Sports Club. Call Teresa at 851-8940 or 467-5405.

GOVERNMENT JOBS \$16,040-\$59,230/year. Now Hiring. Call 805-687-6000 Ext. R-4488 for current federal list.

Gymnastics coaches and instructors, new gym in North Raleigh, several part-time positions. 781-9366 or 847-7647.

HELP WANTED: Evening cashiers, 5:00-closing, 2 or 3 nights weekly. Experience preferred but not required. Apply in person. The Crossroads Restaurant.

HELP WANTED. Electrician of electrician helper. Experience preferred by not necessary.

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Help wanted. Char Grill needs part-time help now! Flexible - hours. Start \$4.00/hr. Also taking applications for this fall. 833-1071.

JOBS AVAILABLE: Work at night cleaning buildings, Mon.-Fri. Also some other part-time jobs for these with light schedules during the fall semester. 832-5581.

Part-time help needed now and through school year. Flexible hours. 772-3554. Leave message. 772-3554.

WANTED: Mature, responsible individual to work in veterinary hospital on a part-time basis. Must be willing to work in afternoon/evenings and alternate weekends. Approximately 20 hrs./week. Please contact Tower Animal Hospital, 834-7836.

For Sale

Fender Deluxe Reverb Lead Guitar Amp for sale. Excellent condition. \$250. 851-7598 after 1 pm.

Miscellaneous

Am being employed overseas and my neutered Black Lab must have home by Aug. 29. Great loving and fun guard dog. Free w/dog house to excellent home. Call 829-1873.

GOVERNMENT HOMES from \$1 (U repair). Delinquent tax property. Repossessions. Call 805-687-6000 Ext. H-4488 for current repo list.

Tutoring

TUTORING AVAILABLE FOR WYLBUR COMPUTER USERS by a graduate student. Call Al, 737-3120 or 755-0723.

Rooms and Roommates

Efficiency Apartment. \$275/mo. Near State. Available mid-August. 772-3554. Leave message.

Female roommate wanted immediately. 2 bedroom, 1 1/2 bath townhouse apartment 4 1/2 miles from campus. \$131/month plus 1/2 utilities. Smoker O.K. Call Lori, 859-2639.

Mature, well bred male to share 2 BR apt., 1 block from NCSU bell tower. \$200 plus 1/2 utilities. 839-0392.

NCSU. 1/2 block away. Share bath. Utilities included. Lease. 847-1726.

Near NCSU, 2 bedroom, 1 1/2 bath duplex. No pets. \$420. 847-1726.

WANTED: Female, nonsmoking roommate. New condo, Western Blvd. \$200/mo. plus 1/2 utilities. Call Margie 1-493-3732.

Crier

GSA meeting July 28, 7:00 pm, Room 2211 Broughton. Final plans for GSA breather to be held July 30 will be made. All graduate students are invited.

ATTN: GAY AND LESBIAN STUDENTS. The new Gay and Lesbian Association (G.A.L.A.) will be meeting soon. For time and place write: NCSU G.A.L.A., Box 33652, Raleigh, NC 27606 or call 919-828-5663.

CO-OP STUDENTS: If you worked in the spring semester and plan to go back to work in the fall semester, it is imperative that you come by the co-op office to complete a work review. This is a program requirement and you will receive a "U" on your transcript if you do not comply.

Come to the NCSU Judo Club, Thurs., 5:00, Room 1206 Carmichael Gym. Call 772-1553 for more information.

If you like to backpack, canoe, rockclimb, kayak, etc. then come to the Outing Club. Beginner oriented and everyone is welcome. Meetings are every Wednesday night, 7pm in the Student Center Brown Room.

CP&L will be on the N.C. State campus again this year to assist students for signing up for electrical service. This service will be available during Student Orientation and Registration, August 11-29. We will be located on the First Floor of the Student Activities Center from 8-5 weekdays.

NCSU's Trained Emergency Medical Personnel is sponsoring an Emergency Medical Technician course. The course will be during the fall semester on Mon. and Wed. evenings. For more information, call 737-2564.

The Summer Institute of English at N.C. State University will hold its annual Fiesta! This is a smorgasboard of the multi-national talents of Institute students, which always includes humor, music, dancing, and singing, and often includes unusual native arts as well. This year's Fiesta! will take place in the ballroom of the N.C. State Student Center at 8:00 on Sat., July 26. Admission is free.



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Opinion

A paper that is entirely the product of the student body becomes at once the official organ through which the thoughts, the activity and in fact the very life of the campus are registered. It is the mouthpiece through which the students themselves talk. College life without its journal is blank.

Notepad from around campus

Today's cover commemorates a human right over which wars have been fought, legal cases argued and governments overthrown: free expression of thought. *Technician* hopes the politicians, judges and civic leaders in our country will oppose any measures to restrict the free circulation of human thoughts.

...

Congratulations are in order for N.C. State's women's basketball coach Kay Yow. She led the United States team to a 83-60 victory over the Soviet Union in the Goodwill Games, held this month in Moscow. The victory marked the first time the American women have beaten the Soviets in a championship game in 29 years. Yow, an assistant coach on the 1984 Olympic gold medal team, is being considered for the head coaching spot on the 1988 squad. She is undoubtedly qualified and deserving.

...

Our sympathy goes out to the university's brave dorm dwellers. In one of the hottest summers on record, these students are endlessly suffering in unairconditioned dorms.

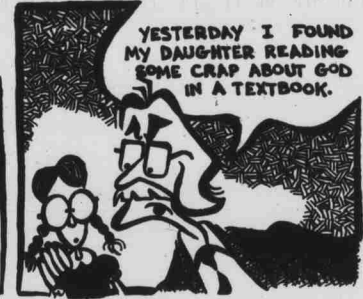
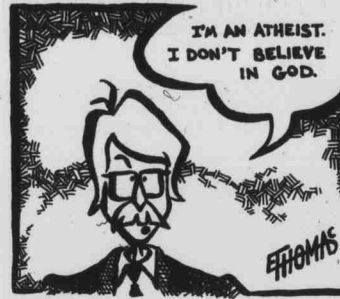
We suggest students play video games in the cool Student Center, go to matinee movies or study in the library until midnight. Stay out of the steam room and sauna at all costs.

...

Speaking of video games, the athletic department holds far too many camps during the summer. That's right, camps. The gameroom is swamped with youngsters attending these money making ventures. If Wolfpack coaches need so badly to turn a buck they should give gameroom attendants a break and supply babysitters. The only other alternative (and certainly a viable one) is a height requirement for gameroom entrance.

...

Recently released statistics indicate the School of Textiles wins the award for having the highest percentage of phantom majors. In last year's freshman class, over 71 percent of the students enrolled in the School of Textiles had settled for their second or third choice. At the other end of the spectrum is the School of Design with only two students, or 3.4 percent, enrolling as a second choice.



Callers seek "Good Talk" from Dr. Ruth

I turned on the TV last night. "Good evening and welcome to Good Talk. I'm Dr. Ruth Wordsworth, your hostess for the show that talks openly and honestly about talking. Tonight's show is entirely devoted to viewer calls. (Rring) There's our first call. Hello, you're on the air with Dr. Ruth."

"Yes, hello, this is Joan from Denver."

"Hello, Joan from Denver."
"Well, Dr. Ruth, my problem is, well, I meet a nice man and invite him back to my place for a drink. Maybe I haven't decided if we are just going to watch TV or if we're going to... you know, talk. But as soon as we sit down, they always start rambling on about politics or psychology or religion, at lightning speed. I'm helpless. I feel like I'm being lectured. What can I do when a man just starts talking to me?"

"Well, as you know, these are fast times, but that is no excuse for this man to be so inconsiderate. What we all need to remember is that it is no fun to be talked at suddenly. Conversation must evolve, allowing each partner ample time to warm up. Begin with

ELLIOT INMAN
Editorial Columnist

simple topics such as 'how are you' and the weather. And remember, it is as important to be a good listener as it is to be a good talker. And when both partners are ready, then it is all right to communicate. Thank you for calling. Hello, you're on the air with Dr. Ruth."

"Hello? Dr. Ruth, I'm a fourteen-year-old boy and I talk to myself a lot. But last week, my mother caught me. She got really angry and said it's unnatural and if I keep on talking to myself, I'll go crazy. Is that really true?"

"Certainly not. Let me tell you, at your age a boy gets the urge to talk. It can be frustrating when there's no one to talk to. If talking to yourself makes
(See 'People,' page 5)

Opening day brings panic, mass chaos

Now that the thrill of the Fourth of July weekend has passed and we are well into the second summer session, I am beginning to look ahead to the perils of the coming academic year. While I was in New York on the Fourth, a strange thought occurred to me. I realized that the mass chaos on the streets of New York closely resembled what we see on campus, especially opening day.

Traffic on NCSU's campus is a ridiculous maze full of lost, crazed animals. When the time comes for classes to resume, myriads of confused and panicked motorists hit our campus.

KAY MANN
Editorial Columnist

Everyone seems to move back to campus at exactly the same time. You would think, with all of these engineers at State, that one would have designed an efficient method for unloading the
(See 'NCSU,' page 5)

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Opinion

NCSU roads a nightmare

(Continued from page 4)

year's necessities. Yet parking a half mile away from my building, making six trips through a parking lot and unmoving traffic, and then up several flights of stairs to my room is not my idea of efficiency. Neither is waiting in an unmoving line for several hours only to find out that oops — you can't get in there that way!

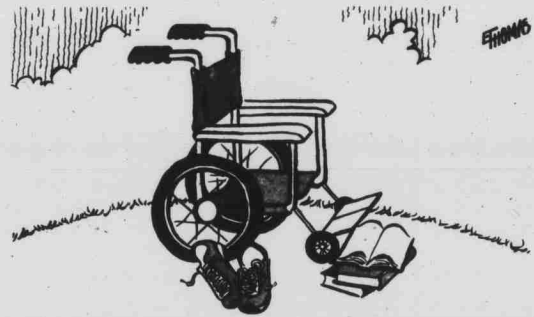
Once the crowds have thinned and classes take most of the student's time, you would think that the problem would disappear. But it never goes away. I go back to the topic of engineers. It must have been an IE (imaginary, I mean, industrial engineer) who designed the intersection of Dunn Avenue and Dan Allen Drive. I

can't imagine anyone thinking that stop signs for both directions of Dan Allen with the right of way on Dunn is a logical setup. Sure it slows down the traffic, but it also confuses things tremendously. The driver on Dunn stops, the drivers on Dan Allen curse him for stopping, and then all three proceed into the intersection at the same time, scaring themselves as well as pedestrians crossing the street. By the way, the pedestrians have the ultimate right of way!

Speaking of pedestrians, someone always forgets to tell freshmen that they have the right to cross the street and the cars should stop. You can always identify freshmen: they stop, look both ways, and only

cross when the way is clear. Upperclassmen expect everyone to stop for them and have a lot to say when someone does not. Yet, those same upperclassmen, when driving, will be the first to challenge a freshman's bravery when he is about to step off the curb. So there is another traffic problem: pedestrians holding up cars and cars mowing down pedestrians.

Where will it all end? I only wish I knew. In one sense, the university is a world of its own, but it is also a thoroughfare for traffic going from Hillsborough Street to Western Boulevard. There doesn't seem to be any way around the problem as long as Raleigh and the university are growing so rapidly. We could set up toll booths at



THE PRICE OF PERFECTION.

each end of campus. Or, we could allow a movie crew in to film the "moving" traffic. We could call it *Nightmare on Hillsborough Street*. It would star the famous NCSU public safety SWAT team and feature hot, angry, perturbed parents

ready to return to the safety of homes, wondering if there is any way their children can survive....

Of course, most do survive, but the problem still leaves me wondering if someday we just might meet by accident.

People call for good talk, forget good sex

(Continued from page 4)

you feel better, I say do it! But I want to warn you. Do not scream at yourself because you could permanently damage an extremely sensitive organ such as your throat or ears. And life would not be very much fun, would it?"

"Gosh no!"

"Well, thank you for calling. Hello?"

"Hello, Dr. Ruth, I'm Estelle from D.C. I want to thank you so much for helping us all get in touch with our interpersonal communication skills."

"Thank you."

"Yes, well I'm seventy-three and my husband, Ed, he's seventy-eight, and we still communicate. Our conversations have never been better. We even talk about some of the more controversial topics young people are trying today. Sometimes we even talk in the car!

"Last weekend, we went to the park. We were lying underneath a tree, eating the cold fried chicken lunch I packed when suddenly — you won't believe this — Ed got this look in his eyes and grabbed me and said, 'Talk to me, baby!'

"At first, I was scared. I thought maybe someone was eavesdropping on us. But when we got into the conversation, really bouncing the ideas back and forth, (giggle, giggle) I didn't even care. And let me tell you, it was one of the best conversations we've ever had."

"Well, thank you for calling. Hello?"

"Sue from L.A., Dr. Ruth."

"Sue from L.A., what is on your mind?"

"My boyfriend. Every time I'm telling a joke, just when I'm almost at the punchline, he breaks out laughing, 'Ha! Ha! Ha!' It just completely ruins it for me. What can I do?"

"This is a common problem with many men: premature exclamation. All I can tell you is to tell him in a delicate way, but certainly not in the middle of a conversation (chuckle), that he should see a speech therapist so he can learn to control his laughter. Hello, you're on the air with Dr. Ruth."

"Dr. Ruth, I'm worried. At the bookstore, I listen to guys talking and I don't really know what they're saying. I mean, I feel like I've got a really

small...uh..."

"Vocabulary?"

"Yes, and it's... well, uh..."

"Embarrassing?"

"Yes."

"There is no need to be embarrassed. Your vocabulary is probably much bigger than you imagine. And what's more, even if you do have a limited vocabulary, you can still be a great communicator. Just remember, it's not the size of your vocabulary; it's what you can say with the vocabulary you've got. Don't worry and thanks for calling. Hello?"

"Dr. Ruth, my problem is my boyfriend. Every time he gets drunk, he wants to talk. Of

course, he thinks he's communicating, but it's just talk to me. I just can't stand the thought of listening to him slurring his words again."

"This is a big problem. Give men a few drinks and all they want to do is talk. And they'll talk with any girl. Of course, they think they're communicating. But, girls, we know, it doesn't do a thing for their communication skills. Tell him the truth. He will un-

derstand. If he doesn't, well, I don't think he's worth keeping. No woman deserves to be talked at."

"Thank you."

"Well thank you for calling. Hello?"

"Hello, Dr. Ruth, I'm Elliot from Raleigh, North Carolina."

"Hello, Elliot from North Carolina. You have a question for me?"

"Yeah, what ever happened to sex?"

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Did showers of meteorites exterminate the dinosaurs?

Elizabeth Wells
Staff Writer

If you can become accustomed to hot days, muggy nights, a drab social life and 18-inch roaches, you, too, could live on Central Campus. You could also live during the Mesozoic Era, 225 to 65 million years B.C. The days were hot, the nights were muggy, highly social creatures didn't exist and dinosaurs co-habitated with 18-inch roaches.

If you've ever seen the cult-classic *Land of the Lost*, you are familiar with dinosaurs. The huge "thunder lizards" depicted on U.S. television were a small portion of the reptiles that ruled the earth for approximately 100 million years. They ranged from the size of a small rooster to more than 80 feet in length.

Dinosaurs became extinct 65 million years ago. Since the early 1800's, when scientists began to study the reptiles seriously, the creatures have been fascinating scientists and non-scientists alike. Although *Land of the Lost*, *Godzilla* and natural science classics are the limits of most people's knowl-

edge of dinosaurs, scientists sometimes spend their entire lives contemplating the reign and sudden disappearance of the reptiles.

William Showers, with State's School of Marine, Earth and Atmospheric Sciences has discovered evidence contradicting a major modern theory of the dinosaurs' disappearance.

Based on fossil records, Walter Alvarez concluded that there was a sudden change in the earth's temperature and atmosphere that made the earth uninhabitable for several years.

This change theoretically caused the dinosaurs to die off and allowed small mammals to become the predominant creatures on the planet. The event described has been compared to the theorized nuclear winter suggested by modern scientists.

The scenario consists of a large extra-terrestrial body crashing into the earth, causing widespread fires, dust and smoke rising to the atmosphere, and sunlight blockage for many years. This would change the temperature of the earth, ef-

fectively exfoliate the planet and kill the plant-eating animals which would in turn eliminate the carnivores.

Alvarez' much-publicized *Meteoritic Impact Theory* was very popular and still is.

Another modern theory, the nuclear winter, is flawed because the effects of a nuclear war would be minor compared to the geologic impact of a meteor of the size Alvarez suggests.

State's Showers, a marine geologist, heads a research team working on geologic samples obtained from the cliffs of Spain. The cliffs are the most accurate record found to date the fossil records dating back 65 million years, the time of the extinction of the dinosaurs.

Showers' students process these samples in a lab at Withers Hall.

Showers and other scientists study a section of geologic strata in Zumaya, Spain. The geologic and fossil records available in the cliffs of Zumaya are the most complete records of the time preceding the extinction of the dinosaurs. Where other records have been studied, scientists have only been able to pinpoint geologic occurrences to 50-100 million year spans.

The Zumaya record contains evidence of climatic changes over a period of 2.5 million years leading up to the Cretaceous-Tertiary Boundary, the time when the dinosaurs disappeared and primitive mammals became more dominant, Showers said.

Other theories of rapid cli-



Photo by Marc Kawanishi

Trevor Bannister, a senior majoring in geology, helps date fossil remains with a ratio mass spectrometer.

matic changes (the meteor impact theory and the massive volcanic activity theory) are less likely explanations of why the extinction occurred now that this evidence has been found.

"Other geologic records had gaps due to erosion that falsely indicated that the extinction and the climatic changes occurred at the same time. This is not true. The climatic changes began 2.5 million years before the extinction, indicating that the events were gradual," he said.

A possible reason for the eventual extinction of the animals is that increased volcanic activity or a possible meteoric impact may have been the one final blow to the increasingly fragile environment of the reptiles.

The stable isotope laboratory in Withers Hall, directed by Showers, is investigating the ocean temperatures at the time the animals that left fossils were still living. The main information comes not from fossilized reptiles but from the shell left by the ancestors of today's shellfish, nautili 10 feet across and clams large enough to enclose many people. The shellfish were called ammonites.

Every living thing is made up of elements; most elements are made up in part of non-radioactive isotopes, particular atoms that react with their surroundings. This exchange with the environment is affected slightly by the climatic conditions of the environment, Showers said.

"As long as the shells being studied were living, they reacted with their environments

and at the time of their deaths, the isotope exchange ceased and what is left is an accurate record of the climatic conditions during the life of the shells. Over a period of several hundred million years, the change in the ratio of isotopes in a particular material corresponds with the changes in climate," he said.

This ratio can be measured by a \$250,000 machine called a ratio mass spectrometer, located in Withers Hall.

The fossils are converted to a gas which the ratio mass spectrometer can analyze to determine the ratio of stable isotopes to the mass of the material. This machine can do analyses in 1 month which would have taken Showers and his colleagues at the University of Hawaii two years to complete. The development of this technology has taken place in a period of less than five years.

Showers predicted that by the time his undergraduate students begin their careers, the technology will have made comparable leaps, filling in the gaps of knowledge of the earth even faster during the next centuries.

State is among a few universities and private research laboratories in the country with precise, computer-controlled equipment that allows delicate scientific inquiries that lead to major breakthroughs.

Any students with backgrounds in geology who are interested in studying the phenomenon are invited to drop by Withers 140 and speak to Dr. Showers about possibly working on the project.

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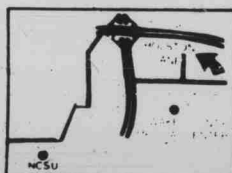
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Entertainment

Catch *Aliens*, the summer's hit

Mike Legeros
Staff Writer

A film like *Aliens*, the sequel to Ridley Scott's classic 1979 science-fiction/horror film *Alien*, is such a perfect example of filmmaking that elaboration only serves to point out any small faults. Quite simply, *Aliens* is unquestionably the best film of the summer. Starring Sigourney Weaver, the film

picks up after Ripley escapes the terrors of the *Nostramo* by fleeing in the ship's shuttle. Finding herself rescued by a salvage ship, Ripley quickly learns that the planet where her crew discovered the alien has now been colonized. Yet, all her horror stories go unheeded until a military lieutenant informs her that contact with the colony has been lost. Soon, Ripley consents to ride aboard a U.S.

Marine ship to determine what has caused the loss of communication. Thus, the seeds of doom are planted.

Beyond the bare-bones introduction, *Aliens* is a sledgehammer of powerhouse action, terrifying suspense and incredible set design. Director James Cameron, the man responsible for *The Terminator*, creates the definitive science fiction action film. Cameron's direction is

top-notch, as is his personal touch. *Aliens* is filled with flying weaponry, automatic rifles and innovative technology.

Aliens second strong-point is its cast. Michael Biehn, the hero of *The Terminator*, gives a command performance in his role as Hick. The other cast members portray a Marine detachment with enough authenticity to warrant Oscar nomina-

tions. In addition to the acting, the rapport between characters is simply incredible.

There is so much at work in *Aliens* that one reviewer cannot effectively communicate the scope of such a film. This film is a definite must see. Do not think of this film in the context of the first, for *Aliens* here and forever redefines the role of the sequel in modern cinema.

Legal Eagles: good example of a bad movie

Mike Legeros
and Shawn Hazlett
Staff Writers

Legal Eagles, the latest comedy-thriller from director Ivan Reitman (*Ghostbusters*, *Stripes*) is a perfect example of good talent gone bad. Moviegoers familiar with Reitman will probably go to see *Legal Eagles* solely because it is proclaimed as a brand new comedy from the

director of *Ghostbusters*. Those moviegoers should not waste their money.

For starters, the lead roles are terribly miscast. Robert Redford plays his role as a New York Assistant District Attorney with spunk, but he is just too old to be cute. When Redford is seen in jeans and sneakers, the image is almost unsettling. Redford is also unable to effectively deliver the

rapid-fire dialogue that could have been *Legal Eagles* saving grace.

Though Debra Winger delivers a spirited performance as an upstart young lawyer, who does not effectively mesh with Redford. Combine this with Daryl Hannah, who has a much screen presence as a telephone booth, and *Legal Eagles* lacks strong characters

escapades that basically leave the viewer totally lost. The entire plot of *Legal Eagles* amounts to nothing more than a juxtaposition of comic/suspense scenes.

As if miscasting and bad plot were not enough, the visual style of *Legal Eagles* is virtually nonexistent. Occasionally Reitman's direction takes hold, other times the camera seems guided by a monkey. Any possible attempts of screwball comedy between Redford and Winger are lost to bad direction.

Legal Eagles is a composite of all the elements a good movie should not possess. Miscasting, confusing plot and bad direction all contribute to the downfall of a potentially funny film. But is it any wonder why Reitman attacked such a film, after receiving no critical recognition

for a creative masterpiece like *Ghostbusters*?

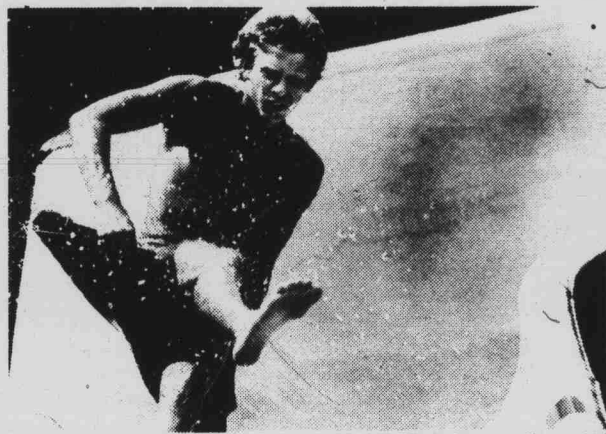
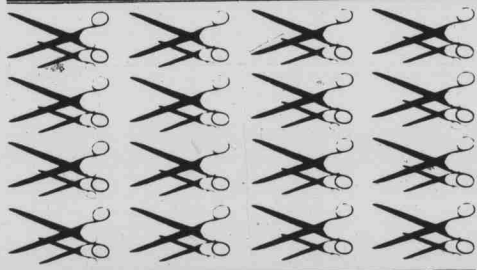


Photo by Marc Kawanishi

A Silver Lake employee makes a splash on the water slide Saturday. Unfortunately, Daryl Hannah was not waiting at the bottom.

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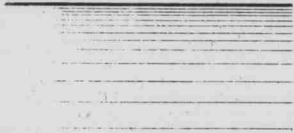
Pack voted sixth by media, fifth by students

ACC Media chooses; Terps should repeat

The results are in, Wolfpack football fans, and according to State students and ACC media in the recent summer polls, the Pack should finish well back in the conference standings, somewhere in the range of fifth place.

In the highly popular *Technician* Summer Football Poll, 17 people responded (surprisingly), naming the Maryland Terrapins to repeat as conference champions with five first place votes and six for second, adding toward a total of 113 points.

Clemson should be the second strongest team in the ACC, as the Tigers garnered the most first place ballots with seven



MAC HARRIS
Sports Editor

but managed only 111 overall points. Clemson had a mediocre season last year, finishing fourth in the conference, behind Georgia Tech and Virginia.

Next was Georgia Tech at 101 points, hoping to repeat last year's surprisingly strong

campaign. Tech received four first place votes in the poll and was the only other team to receive more than one vote for first.

A large gap between third and fourth in the *Technician* poll shows the equality of the teams at the top. After Tech's 101 total, UNC's 70 points is the next highest, good for the fourth place position.

State obviously enjoyed the home-school advantage in the *Technician* poll, moving ahead of Virginia and into fifth place by one point with 67.

The promise of State's new coaching staff may be giving the win-hungry Pack fans a little optimism for the upcoming grid year. The Cavaliers, on the other hand, had an excellent season last year, but few students seemed to take any stock in UVA's third place finish and plopped it into sixth, with 66 points.

Duke, despite winning the mythical Triangle championship last year (defeating State and Carolina) and producing perhaps the best crop of freshmen in the ACC, was chosen for the seventh place spot. The Devils

claimed one number one ballot and had 61 overall points.

The downtrodden Wake Forest Demon Deacons came in an almost unanimous last, receiving a miserable 26 points (its highest vote was for fifth). Wake Forest looks to be in for a dismal season in Winston-Salem if the State student football pollsters are right.

They are also in for a dismal season in WS if the ACC football "experts" are on the mark. The ACC media, in its newly-released football poll, picked the Demon Deacons to finish eighth as well. The Deacs got only 93 points from the 65 writers participating in the poll, and 47 of the media pollsters picked Wake dead last. Once again, Wake's highest vote was for fifth place.

Duke, as in the *Technician* poll, was chosen seventh with 173 points by the media, edging Wake for the spot by a mere 80 points.

State dropped down a notch into sixth in the media's voting, receiving 177 points — beating the Blue Devils in any competition in three years — by four points. Obviously, the media doesn't share even the lukewarm optimism of the State students for the Pack's chances this season.

The Virginia Cavaliers took over the fifth spot in the media poll, totaling 278 points, 101 more than sixth place State. Virginia received 25 votes for fifth.

Fourth place North Carolina grabbed two first place votes somehow, and finished with a 323 total. The most votes for Carolina was for fourth, of

which they had 20.

Of the last five teams in the ACC media poll, the "Big Four" of State, Carolina, Wake and Duke made up four of those five, including the last three. Looks like some hard times ahead for in-state fans.

The third place media team is Georgia Tech, which collected nine first place ballots and had 382 overall points.

Clemson and Maryland easily outdistanced the rest of the field in the balloting, each team gaining over 440 points and 20 first place nods each. Clemson had 23 votes for both first and second, while Maryland's Terps, conference favorites for the second straight year, and gunning for their fourth straight title, received 31 votes for first and 23 second place votes. In their last 16 ACC games, Maryland is 16-0-0.

Technician Summer Football Poll

1. Maryland(5).....	113
2. Clemson(7).....	111
3. Georgia Tech(4).....	101
4. North Carolina(1).....	70
5. State.....	67
6. Virginia.....	66
7. Duke(1).....	61
8. Wake Forest.....	26

ACC Media Poll

1. Maryland(31).....	465
2. Clemson(23).....	449
3. Georgia Tech(9).....	382
4. North Carolina(2).....	323
5. Virginia.....	278
6. State.....	177
7. Duke.....	173
8. Wake Forest.....	93

(First place votes in parentheses)



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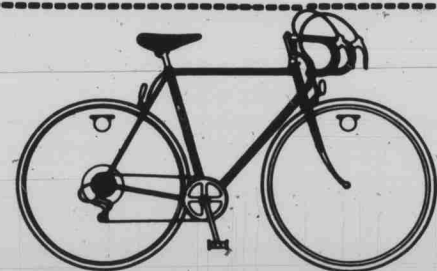
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