



**Athletically Intellectual**  
UK senior tight end Rob Mangos is an athlete who blends athletic skill and scholastic achievements successfully. As well as leading the team in pass receptions with 19 this season, he was recently selected as National Football Foundation Hall of Fame Scholar-Athlete for 1982. See page 6.

## THURSDAY

From Associated Press reports

### Drastic health care changes considered

**LOUISVILLE** — State officials will meet next week to consider changes in health care programs that could revolutionize the industry in the state, officials say. They are members of a coalition formed by Gov. John Y. Brown in April to find ways to cut the upward spiral of medical costs.

In its 54-page final report, sent to the governor last week, the group said outpatient ambulatory centers should be developed so babies can be born outside hospitals. It also urged more use of competitive clinics rather than traditional hospital care.

Doctors should offer a set fee for regular care so people can visit a doctor as often as they like for one price, and more people should take advantage of home health care from a visiting nurse or hospice worker, the report said.

Leaders of the state's medical societies have declined comment on the report because they have not seen the final draft.

### Shuttle liftoff may be scrubbed

**CAPE CANAVERAL, Fla.** — America's space shuttle stood poised on its launch pad, ready to make its debut today as a commercial cargo carrier. But a major worry was whether in the West should an emergency landing be necessary.

If conditions are not adequate, NASA could make a last-minute decision to scrub the launch for a day. Liftoff on Columbia's five-day return to space was set for 7:19 a.m. EST.

The weather problem existed at Edwards Air Force Base in California, where the Mojave Desert runway was rain-soaked and unusable. The back-up strip on the White Sands Missile Range, N.M. was also expected to be wet. The Kennedy Space Center runway, however, remained available for an emergency landing.

The shuttle's four astronauts were told in a briefing yesterday that a concrete runway at Edwards would be used as the landing strip. Weather officials expected the runway to be dry.

### Vietnam veterans' memorial opens

**WASHINGTON** — Hundreds of peoples yesterday visited the black walls of the new Vietnam Veterans Memorial for the first time, reading the names inscribed and reflecting on the war. Saturday, culminating a four-day national salute to the 2.7 million who served in Vietnam, the monument will be dedicated after a veterans' parade down Constitution Avenue.

The monument's walls, 250 feet long, descend 10 feet into the sloping ground at center. The names of Americans who died in the conflict are engraved in letters half an inch high.

Also yesterday, volunteers began a vigil in the Washington Cathedral, reading the names of the missing and dead, one every two seconds, in alphabetical order. That vigil, 21 hours a day, will continue through midnight Friday.

### Poles riot; hundreds arrested

**WARSAW, Poland** — Thousands of Poles protesting the ruling military junta and the clampdown on the Solidarity union battled riot police in Warsaw, Wroclaw and Nowa Huta yesterday. But tough measures by the martial law regime apparently stymied nationwide work stoppages called by the union's underground leaders.

Workers staged sporadic minor protests and stoppages in about 20 towns and cities, and there were student protests in four cities, according to reports from Western correspondents, the official news agency PAP and government sources. Police reportedly detained more than 300 people in Warsaw, more than 250 in Wroclaw and 94 in Nowa Huta and Krakow after street clashes, as well as about 150 others elsewhere.

### British superspy sentenced

**LONDON** — Soviet spy Geoffrey Prime, convicted of espionage that caused "incalculable harm" to Britain and its Western allies during 14 years of treachery, was sentenced yesterday to 35 years in jail.

The former translator for British intelligence was sentenced to three additional years for sexual assaults on three young girls. Police questioning about those crimes led him to confess his guilt and his espionage activities to his wife, who informed police.

Earlier this month intelligence sources said Prime knew every monitored Soviet message and every code broken at Britain's Government Communications Headquarters for electronic intelligence-gathering in Cheltenham. It was said to be the most serious penetration of a British intelligence operation since World War II.

## WEATHER

Today will be mostly sunny, breezy and unseasonably warm with a high in the low 70s. The winds will be from the south at 20 mph. Tonight will be increasingly cloudy and breezy with a 20 percent chance of showers and thunderstorms. The low will be in the low to mid 50s.

# High Kremlin official rumored dead; most speculation centers on Brezhnev



LEONID I. BREZHNEV

**MOSCOW** — Soviet sources said Wednesday that an important figure in the Kremlin hierarchy had died. No one would say who it was, but President Leonid I. Brezhnev's name was missing from a state document he normally signs.

The Communist Party daily Pravda, did not print Brezhnev's name at the bottom of the message to Angolan President Jose Eduardo Dos Santos on the seventh anniversary of the African nation's independence.

The congratulatory message bore Brezhnev's signature in 1980 and 1981.

The other names most frequently mentioned in rumors of a death in the aging leadership were those of Andrei P. Kirilenko, 76, and Arvid Y. Pelshe, 83. Brezhnev who is 75, has been in poor health for the past year and was said to have had a mild stroke recently.

The rumors circulating around the capital did not focus on any one member of the governing 13-man Politburo.

The Soviet sources were reached by telephone in response to the rumors.

The state news media did not report any deaths among Soviet leaders, but there were unexplained changes in television programming and somber music played intermittently on the radio.

In Washington, U.S. officials, who requested anonymity, said they were aware of "a lot of rumors in Moscow" that Brezhnev had died but had been unable to confirm them.

Officials assigned to the Soviet desk at the State Department said they had received no reports from the U.S. Embassy in Moscow that Brezhnev had died.

In the past, announcement of deaths of important persons have been preceded by mourning music. On television, A 7:30 p.m. concert in honor of Soviet police was replaced with a patriotic film about Vladimir I. Lenin, founder of the Soviet state. There was no explanation for the change.

Kirilenko has been Brezhnev's heir apparent for years. His picture did not appear with those of other Politburo members in public displays for Revolution Day celebrations Sunday, nor did he attend the annual Red Square military parade. Pelshe also did not attend the parade.

Soviet sources and Communist diplomats in Moscow said Kirilenko had retired because of poor health. There was no noticeable increase in police presence around the Kremlin or in downtown Moscow.

## This Bud's for you

Sigma Pi fraternity members borrowed a Budweiser truck and Joanne Amos, owner of Reflections Photography, recorded the scene on film yesterday for a Greek event titled the "Craziest Picture Hunt." According to Amos, each participating fraternity and sorority will arrange to have a group shot taken in any way they want for the contest, to be judged by Lexington luminaries Anita Madden, Mayor Scotty Baesler, Gloria Singleary, coach Jerry Claiborne and coach Joe B. Hall. All entries will be exhibited at a "Print Premiere Party" Nov. 23 at 803 South. The event is sponsored by Reflections Photography, Phi Sigma Kappa fraternity and Alpha Omicron Pi sorority. All proceeds will be donated to the Arthritis Foundation.

J.D. VANHOOSE/Kernal Staff



# Administrators study loan defaults

By STACY SIZEMORE  
Reporter

## No difference seen in ability to pay

Borrowers who default on student loans aren't necessarily motivated by an inability to pay, two UK administrators have found.

A recently-published study by Jon Hesseldenz, coordinator of management information systems and David Stockham, financial aid director, found a minimal difference in the disposable income of former UK students who defaulted on loans and those who repaid their loans.

"I was surprised by the results," Hesseldenz said, "We were the first to find any indication it was not related to income."

The researchers compared the state income tax records of former students who repaid 564 National Direct Student Loan with those of 117 NDSL defaulters.

The average disposable income (income left after expenses) of de-

faulters, the study showed, was between \$6,187 and \$6,120, as compared to between \$6,375 and \$6,421 for those who repaid their loans.

Each subject had been away from UK for 4 years, Hesseldenz said.

**"I was surprised by the results. We were the first to find any indication it was not related to income."**

— Jon Hesseldenz  
UK researcher

The only major difference found between repayers of loans and defaulters in the study, he said, was that many of the latter had moved out of state after leaving school. The proportion of in-state students were the same in both groups.

Hesseldenz said the data used in the study was obtained by comparing the social security numbers of those selected for the study to state income tax records. A series of computer programs selected gross in-

come, income adjustments, federal tax paid, amount of itemized deductions and Kentucky income tax paid.

The study was "completely anonymous" because those students were identified only by their social securi-

ty numbers, he said. Although an equal number of social security numbers of repayers and defaulters were selected for the study, not all of those studied filed Kentucky income tax forms. Hesseldenz said this casts some doubt on the results.

The report said the research group of students, in which a relationship between those who defaulted on loans and certain personality characteristics was found.

By studying defaulters' and repayers' scores on the Omnibus Personality Inventory, which all students were required to take in the early 1970s, it was found that defaulters were more tolerant of complex situations and less anxious than repayers, Hesseldenz said.

In a 1979 study using the Personality Inventory and other factors, Hesseldenz and Stockham were able to predict with 95 percent accuracy which NDSL applicants would default.

# Political parties stake out positions on federal job program

By TOM SEPPY  
Associated Press Writer

**WASHINGTON** — With momentum apparently building for new federal jobs programs, Democrats and Republicans staked out different positions Wednesday on what shape they should take, what to call them and how to pay for them.

Democratic congressional leaders called for defense spending cuts and higher taxes on the well-to-do, while a Cabinet official lobbied President Reagan for doubling the federal gas-

oline tax.

Transportation Secretary Drew Lewis insisted that the proposal be pushed during a 45-minute meeting at the White House was aimed at repairing the nation's highways and bridges rather than creating jobs.

But Transportation Department documents said the program would generate 320,000 jobs.

03404901 Under the Democratic approach outlined at a news conference by Rep. Henry S. Reuss, D-Wis., chairman of the Congressional Joint Economic Committee, 600,000 people would be put to work next year on such things as repairing bridges, maintaining roads and

mass transit systems and rehabilitation of public buildings.

The \$3.6 billion program would be aimed at communities hit hardest by unemployment.

"One person must decide whether a job-creation bill is to be enacted," House Speaker Thomas P. O'Neill Jr., said in a written response to Reuss' report. "That person is the president of the United States. I hope that he does not frustrate the growing concerns of the American people and the hard work of people like Henry Reuss."

Reuss said his proposal has been translated into legislation to be introduced when Congress returns

Nov. 29.

At about the same time Lewis was lobbying at the White House and Reuss was pushing the Democratic plan, Sen. Bob Dole, R-Kan., was telling a Washington Press Club audience the gasoline tax increase was the way to go.

Dole, chairman of the Senate Finance Committee, said the highway repair program would provide jobs in every state.

Transportation Department officials said the package would include a doubling of the current 4-cent-a-gallon federal gasoline tax and a 1-cent increase in various taxes on large trucks.

# PERSUASION

Bill Steffen Editor  
 Andrew Oppmann News Editor  
 John Griffin Arts Editor  
 Steven W. Lauther Sports Editor  
 Lill E. Andrus Special Projects Editor  
 J.B. VanHornes Photo Editor  
 Ben Clifford Graphics Editor  
 James Edith Harris Managing Editor  
 Barbara Price Sallee Editorial Editor  
 Bill E. Widener Jr. Assistant Arts Editor  
 Mickey Peterson Assistant Sports Editor  
 Kathleen Hillon Special Projects Editor  
 Ben Van Hook Chief Photographer  
 Chris Ash Copy Desk Chief

## Call for total disarmament: an answer to world safety

The call for limitation of nuclear arms must go a step further: it is time to being work toward unilateral disarmament. Nuclear freeze and disarmament proposals have attracted widespread and growing support throughout the world as tension increases consciousness of the immense dangers atomic warfare poses.

Disarmament is more a threat to government status quo than to the average Jim or Jane. The same fear that keeps the two main powers from using nuclear arms spurs both to continue stockpiling warheads.

The idea that this fear could be abolished by unilateral disarmament deserves serious consideration.

The reasoning behind disarmament is as simple as it is clear: It would rid the world of the overbearing fear that, at any moment, the nuclear roulette game may end in a holocaust.

Of course, many short-sighted individuals argue that unilateral disarmament is simplistic and lacks value as a negotiating strategy. But

it is not a matter of policy — rather, sheer survival.

Most, of course, agree that a freeze is preferable to the current escalation in the arms race. But if holding arms levels steady still does not address the problem at hand: existence is sufficient to ensure the destruction of the world and its populace many time over, if such a thing can be imagined.

At some point, a balancing of costs must be made. It is useless to argue that the disarmament of the United States and the Soviet Union would not set the world on end, and that wars and chaos would not result.

But most of the world's population would survive. Is the perpetuation of a particular form of government or way of life worth risking the continuance of life itself?

The choice is ours to make, particularly now, while awareness of the nuclear dilemma is at an all-time high.

In 1986, a great comet will pass this way, as it does once every 76 years. Will anyone remain to witness the spectacle?

## TIME



## Nuclear freeze is necessary to prevent world holocaust

Anyone who confidently condones the use and proliferation of nuclear weapons at this time in the advent of human civilization deserves the scorn of mankind.

Nevertheless, the clock cannot be turned back to the 1940s. Nuclear weapons are currently a key part of the military strategies of eight nations. Similarly, the horror of nuclear destruction twice has been released on the human race.

Debate this afternoon at the free speech area of the Student Center will center on the issue of nuclear destruction and "what's in it for you." The issue, however, is not one of destruction — it's the life or death of nuclear weapons.

Paradoxical thought pervades some halls of leadership. The bomb keeps us from annihilation. The best insurance policy is a nuclear one, whether in silos or on bombers. Unfortunately, that spectre is frightening, and rightly so.

But a total disarmament frightens us. The dismantling and disposal of all nuclear warheads, in the final analysis, would be the opening of the door toward the research and development of other technologies

— biological weapons, for instance — that will prove to be as frightening and as distasteful as nuclear weapons.

Fear is perhaps the most identifiable good to come from the stockpiling of nuclear weapons. As much as the Reagan administration would like the American people to believe otherwise, the Soviets and the Chinese, 1.4 billion strong, wish to remain citizens of the world. They share our desire to keep the world from Armageddon.

The endorsements in Congress, in state and town legislatures and by voters for a verifiable nuclear freeze between the Soviet Union and the United States are by far the most hopeful of signs that nuclear weapons finally may find their niche in civilization.

A freeze would be successful only if the Soviets abandoned their time-honored strategy of doubletalk and doublethink, but such an abandonment, from both them and America's leaders, is necessary.

The citizens of the world are afraid, and more of them are admitting it. It's time for a nuclear freeze.

## Freshmen strive to show immaturity

A few weeks ago, senior staff writer Dan Metzger and I were writing our respective stories on the computer terminals in the Kernel office when I decided to amuse myself.

Using the message key, I typed a lewd note that flashed upon his screen. Rather than reply in a similar manner, Dan showed mock disapproval.

### GUEST OPINION

"You can tell who the freshmen are," he said.

Unfortunately, the same statement applies to the recent Student Government Association freshman senator elections.

As a rule, the freshman year is usually the last time in people's lives that they must take abuse and kidding for their youth. The stereotypical freshman is innocent, timid and immature.

The immaturity was evident in the recent campaign.

Each Fall, the freshman population elects two representatives to serve in the SGA Senate. The freshman senators have the same power and responsibilities as the other members, which requires a certain level of maturity.

After an initial candidates' meeting to discuss rules and regulations of the race, hundreds of posters appeared across campus the next day. The late-starting candidates responded that night, so by Wednesday morning of that week, eight two-candidate tickets and two independents had their names plastered on dorm windows, light posts, bulletin

boards and trash cans.

Then the warfare began. Some time before the next morning, the majority of the campaign posters were down except for those of one particular ticket, which had mysteriously taken their places. Interestingly enough, all of those posters disappeared, and another pair of names dominated the scenery the next day.

Intrigued by musical poster practices, I took a midnight campus stroll.

First I came upon one of the independents who was strategically placing his propaganda wherever the others' was. "It's pretty rough," he said. "I can't afford very many posters, and the ones I put up are gone the next morning. All I've got to say is if I catch anyone ripping mine down, they're not going to live to see the election."

While we discussed the implications of such a threat, another aspiring senator came along.

Once he was assured we were not on the phone in the Funkhouser Building, he told us of some new developments. "Two other candidates" spoke to some fraternity and sorority pledges and distributed posters before the official start of the campaign, so they're in violation," he said.

The two late-nighters agreed to file a formal complaint, thus reducing the field to eight.

The next morning, I noticed a serious lack of either one's posters.

My second night on the beat, I found the first candidate talking to a friend on the phone in the Funkhouser Building. Glancing out the front doors, I saw three figures cautiously walk up the stairs. The candidate ignored my warnings.

One of the suspicious figures suddenly went for the trash can outside

the doors and ripped all the campaign posters off it. My candidate friend finally took notice and swung the doors open as the vandals fled.

He caught two of them, but the one who did the actual damage escaped. "We weren't going after yours, just (two other candidate's), because they've been getting our friends'."

He let them go (with a warning concerning the escapee). As we walked down the walkway, we noticed all posters were down — no exceptions. Then we met up with the vandals again, and one called out my name.

I recognized him as an old high school friend. "Why is (this candidate) so fired up?" he asked. "All we did was rip a few posters down."

A few minutes after the partisan vandals departed, their candidates appeared. The hopeful senators denied employing the others, however, and said the ripping tactics were justified. "We're just fighting fire with fire."

After promises to leave each other's posters alone, we departed. The next morning, all were down.

Another candidate talked to me about the problems later that day. "It's getting ridiculous," she said. "(Two of the candidates) have been breaking the rules and having people tear down posters for them. I'll just be glad when this is all over."

That night, the last before the elections, the first candidate was sitting by the fountains across from Patterson Office Tower. He said the plan to file the complaint fell through because no evidence could be found, so he was going to wait for poster-rippers and eliminate some candidates on his own.

While we talked, another SGA

hopeful came up with some friends.

"Looking for some poster-rippers?," one of the friends asked.

"I replied that was what I was doing, in hopes of finding a news story."

"Well, just stay out another hour or so, and you'll find them," he said. "It's getting pretty bad."

I gave up after a while and went home. The next morning, posters of both of the previous night's candidates were down all around the Classroom Building. One of those candidates was putting up the last of her posters.

"I haven't been getting any sleep," the candidate said. "I'm so glad it's election time. This has gone on long enough." I had to agree.

The following night the winners were announced.

There has been speculation that some other candidates will challenge the results because of the closeness of the race. There seems to be a good chance that the accusations and dirty work that characterized the campaign will continue for a while.

Whatever the outcome is, hopefully the new senators will show a sense of maturity and vote their conscience, rather than fall into the various factions currently in the Senate.

Hopefully, as well, they can pass on what happened in this year's campaign to next year's candidates, so the immature actions will not be repeated.

Then, maybe, the freshmen won't be as obvious as they are now.

Jason Williams is a journalism freshman and regularly covers SGA for the Kernel.

## LETTERS

### Verbal attacks

We are angry! For thousands of years women have been dehumanized, sexually and psychologically abused, mutilated, violated and oppressed by man who has hidden behind a veil of religion. This oppression continues today on our campus' free speech area.

Through the distorted position taken by Bob Duvall and Maranatha, women on this campus have been subjected to misogynist rhetoric. Women who are exercising their right to cross campus have been the targets of vicious verbal attacks including phrases such as "slut," "murderer" and "inferior."

How long should our free speech area be used as a platform for verbal violence towards women? We feel that a certain amount of responsibility must accompany free speech. Without it, our free speech area could be used as a volatile weapon aimed at...

Members of Women's Studies 200 class

### Anti-health fee

I have heard both pros and cons concerning the mandatory health fee. There have been (so-called) polls taken within small percentages of the student body, which were hardly adequate, as far as representation goes.

We now have the referendum. We are getting a choice of what we want, not what anybody else wants. The thing that really bugs me is the statement concerning the so-called exemptions. Up to this time,

there have been no stipulations made as to who will be exempt from paying the mandatory health fee.

Is the Health Service Administration waiting until after the voting takes place before making that decision? Sounds tacky to me.

If this crazy issue passes, I am considering attending the University of Kentucky less than full time, rather than be ripped off by something I don't want or need. After all, I'm paying for an education, not a health service.

I urge all students to make the right choice by voting against the mandatory health fee today. Please be there to help defeat this crazy issue by casting your vote as NO.

Remember, it's your money they're wanting to play with, not theirs; and it's your education that you pay for.

Nelson B. Duncan Jr.  
Engineering Junior

### Nuclear rally

Do you know what effects the atomic bomb had on Hiroshima? Do you know the power of nuclear weapons today? Do you know what it would be like to survive a nuclear attack?

For the answers of these, and other questions, attend the educational rally on the nuclear arms race entitled, "Nuclear Destruction: What's In It For You?" The rally will be held today at 1:30 p.m. in the free speech area of the Student Center.

I encourage everyone to come and learn what the future may hold.

Louis Straub  
SGA Senator-at-Large

## The grass on the other side of campus sidewalks will never be greener

In the 1960's students smoked grass. Twenty years later, students walk on it. Who needs green grass anyway?



Who needs nicely mowed fields of grass blowing in the breeze? A brochure describing this school might read as follows: "UK — a state university located on rolling

hills on dirt paths beside nicely unused sidewalks.

What is the problem with students? What is behind their hatred for sidewalks?

I guess avoiding the sidewalks could be seen as a means of expressive outflow. You know, where can you have the freedom to create a new dirt path today?

Along with the wonderful feeling of creating a new path, the attraction of following a dirt path is an urge that cannot be denied. That urge is simply an exercise in adventure, it's a tremendous feeling.

One day I was feeling adventurous.

I started to follow a little path that was close to the new Student Center addition.

The little trail twisted for about one hundred yards or so.

The path was quite pleasant to follow. But after about three minutes, I was beginning to wonder where this path was taking me.

Suddenly, the path came to an abrupt end. The path ended flat square into a stone wall. Now who in their right mind created this trail and for what reason?

When I first came to UK, the path to the Classroom Building leading to the Mining Resource Building was

nothing but a little shortcut that was seldom, if ever, used.

Today, more students prefer to trample down the grass, than use the sidewalk.

Now, come on.

The University, however, simply ignores the whole problem.

I stood in amazement the other day watching the University employees placing the sod near the renovated Mining Laboratory. These guys worked all afternoon carefully laying down the sod and watering it. This went on for several days. But alas, their work was doomed from the very start.

For several days the grass grew, but the future of these seedlings was bleak.

The moment the fence surrounding the work was removed, so ended the chance for the grass to grow.

I could see, as the workman removed the fence, students eagerly awaiting to be the first to plant their feet on the new grass.

I took out my notebook and wrote down some of the conversation the students were saying.

"Hey Mark, come on over here!

They're about to remove the fence. Hurry and you can be the first to stomp on the grass!" Bob said.

"Great, between tying cans to cats and tearing the wings off of flies, stomping on grass is the highlight of my day," Mark said.

And it was not just students on the scene.

There were professors and what looked like administrators all awaiting the chance to crush the newly laid sod.

Here are a few solutions to keeping the grass killers from their destructive habit:

First placing small nuclear devices at the entrance points to every dirt path around the campus. Nothing like a little radiation poisoning to convince the wayward bound.

Okay, maybe a bit extreme.

Then how about planting sharp pointed sticks, like the ones used in Viet Nam, on strategic points along the dirt paths. This would certainly get the point across.

Possibly digging several Burmese tiger pits would work.

Or how about placing signs on the trees reading: Warning! The surgeon general has determined that walking on grass could result in extreme disfigurement and sterility.

Probably the best solution to keeping the students off these paths would be moving the evangelicals who preach at the Student Center.

If we could get these guys to preach near the entrance and exit points of the paths then I'm sure students would go out their way to avoid the area.

I heard that Indiana University had the same problem for years. In the great Hoosier tradition, IU simply placed limestone slabs over all the paths.

And hey look, IU got the movie "Breaking Away" filmed on campus.

Maybe if UK placed rows of burlap tobacco over the paths, we'll get some big Hollywood movie production company to come here.

All the joking aside, if people continue to avoid the sidewalks and create new dirt paths then soon UK will soon fit the description mentioned earlier.

How about showing a little consideration and use the sidewalks.

Let the grass grow!

### DRABBLE





# OP-ED

KENTUCKY  
Kernel

## Magnitude of arms race has helped to change attitudes

By PETE LANG

Editor's Note: Pete Lang is founder and president of Students Against Nuclear Destruction

During the last 30 years, governments and citizens have experienced a broad shift in attitudes toward nuclear weapons. Sentiments have changed from support of the arms race to the current drive for disarmament.

Part of the reason for this may be that, since the atomic age began with the bombing of Hiroshima on Aug. 6, 1945, the race for nuclear superiority between the superpowers has swelled in magnitude.

In the 1940s, nuclear weapons were small atomic devices developed from turbo-prop bombers. The years following 1945 were monopolized by U.S. nuclear development — it was not until 1949 that the U.S.S.R. tested its first atomic device.

Ernest J. Yanarella, professor of political science, said the arms race had its initial acceleration during the 1950s, with the U.S. decision to develop the hydrogen bomb.

Hydrogen bombs work on a fundamentally different principle of physics than atomic weapons. This difference makes H-bombs vastly more powerful than those used at Hiroshima.

By 1953, the Russians had produced a hydrogen bomb small enough to be placed on a missile. Meanwhile, the United States had deployed its first missile, the Honest John, in Europe.

As the end of the decade approached, both superpowers had developed ICBMs and nuclear weapons in a variety of megatonnages and ranges. The United States tested its first Submarine Launched Ballistic Missile in 1960.

In 1961, America had 96 SLBMs in six submarines. The Soviets did not launch a nuclear powered missile submarine until 1968.

That year, the United States started testing Multiple Independent Re-entry Vehicles — missiles with more than one warhead, each aimed at a different target.

The MX missile system, the most recent U.S. MIRV, contains 10 war-

heads. At a given point in the rocket's flight the warheads break off, each going its own separate way.

The first U.S. MIRVed ICBM, the Minuteman III, became operational in 1970. It was only in 1973 that the Russians started conducting tests with MIRVs.

General David Jones, recently retired chairman of the Joint Chiefs of Staff, said he expects the trend toward MIRVed missiles to continue.

In the absence of agreed limitations, he said he anticipates a doubling of strategic weapons within a decade.

To defend against incoming missiles, both sides have developed Ballistic Missile Defenses, of which the Soviets reportedly have 32. BMDs are missiles intended to intercept and destroy ICBMs.

The United States phased out its single BMD site in 1976 and is in the process of developing a new system.

Yanarella said the United States first develops a new defense technology, then modifies its strategy to take that technology into account — "Technologically, details wag the

strategic dog."

The United States builds a new weapon, Yanarella said, and the Russians try to duplicate it, compensating for U.S. technological superiority with a greater number of larger weapons.

In the 1970s, the United States began developing the cruise missile, described by the Center for Defense as "a pilotless, jet-powered, relatively slow airplane capable of carrying a conventional weapon or a 200 kiloton device to within 200 feet of its target."

Yanarella said the advent of the

relatively inexpensive, hard-to-detect cruise missile will have a serious effect on the arms race. The missile flies below radar and can be deployed in a variety of ways.

He said the missile also makes arms control very difficult because its small size and portability makes it difficult for one side to accurately determine how many cruise missiles the other has.

"There will be a tremendous impetus to build hundreds and thousands of cruise missiles," Yanarella said. The United States is currently in the process of deploying the mis-

sile, while the Russians are still developing theirs.

An article in the July 1982 issue of Atlantic Monthly noted that the two countries have a basic difference in strategies that make them difficult to compare.

A 1978 study prepared for the Congressional Budget Office estimates that by the mid-1980s, the U.S. will have 13,904 warheads on its delivery systems, compared to the Soviet's 8,794.

The U.S.S.R. warheads tend, however, to be larger than the American and possess more sheer megatonnage.

According to the Union of Concerned of Concerned Scientists, the Soviets concentrate 70 percent of their nuclear explosive power in ICBMs, while the U.S. concentrates about half its strength in submarines.

How much is enough? That depends on who you talk to and what they want to achieve.

Some defense planners, such as Assistant Secretary of Defense Richard Perle, feel the U.S. must build enough weaponry to have a vast superiority over the Russians. This superiority would then force the Russians to diplomatically back down, as in the Cuban Missile Crisis.

On the other hand, if deterrence is the name of the game, former President Jimmy Carter in 1979 stated the case: "Just one of our relatively invulnerable Poseidon submarines — less than 2 percent of our total nuclear force of submarines, aircraft and land-based missiles — carries enough warheads to destroy every large- and medium-sized city in the Soviet Union. Our deterrent is overwhelming."

According to the Atlantic Monthly, "Neither the U.S. nor the Soviet Union has a meaningful strategic advantage. A window of vulnerability does not exist."

Furthermore, it is almost impossible to imagine how either side could achieve a usable advantage.

"Both sides are thoroughly deterred from using their strategic forces because a decision to use them would be a decision to commit national suicide."

SOVIET / AMERICAN NUCLEAR ARSENAL					
AMERICAN ARSENAL			SOVIET ARSENAL		
Type of Launcher	Warheads per Launcher	Yield per Warhead	Type of Launcher	Warheads per Launcher	Yield per Warhead (TNT equivalent) (Hiroshima equivalent)
<b>Intercontinental Ballistic Missiles (ICBMs)</b>					
Titan II	1	9 megatons	SS-11	1	1.2 megatons 67-133
Minuteman II	1	3 megatons	SS-13	1	400 kilotons-1 megaton 40-67
Minuteman III	3	3 megatons	SS-17	6	700 kilotons 47
			SS-18*	1-10	600 kilotons-2 megatons 33-133
			SS-19	6	700 kilotons 47
<b>Submarine Launched Ballistic Missiles (SLBMs)</b>					
Poseidon	3-10	3 megatons	SS-N-6	1	1 megaton 67
Trident I	6	3 megatons	SS-N-8	1	2 megatons 133
			SS-N-18	6 or 8	200-300 kilotons 13-133
<b>Long Range Bombers</b>					
B-52 (1955)	20-30	3 megatons	Bison	4	1 megaton 67
B-52 (1962)	15-20	3 megatons	Bear	4	1 megaton 67

Source: "Freeze: How You Can Help Prevent Nuclear War" — Sen. Edward Kennedy, 1982

DAN CLIFFORD/Kernel Staff

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**Kernel Crossword**  
WEDNESDAY'S PUZZLE SOLVED

ACROSS  
1 Contemplate  
5 Garment  
8 Behind  
14 Ear part  
15 Asian  
17 Buffalo  
16 Way  
17 Pastime  
19 Card game  
20 Banes  
21 Pipe fitting  
23 Chinese coin  
24 Pompous  
27 Consumes  
29 Turned  
31 Retailer  
35 Haggard  
39 Hot  
40 Rime  
42 African natives  
44 Sicily resort  
45 Neckwear  
47 Kind of wave  
49 Spigot  
50 Particular  
52 Home of the RCMP  
54 Agreement  
56 Fuses again

DOWN  
2 Punishes  
2 Halley's —  
3 Mistreatment  
2 words  
4 Snuggle  
5 Machine part  
6 Smelter food  
7 — of  
8 Cleaves  
9 Appellation  
9 Branch  
10 All walked-  
11 Albacore  
12 Imitation:  
13 Flounder  
18 Chemical compound  
22 Lover  
25 Greek god  
26 Coup — president  
28 Three: Pref.  
30 Architectural order  
32 Melon  
33 Alcohol burner  
34 Harvest  
35 Fish  
36 Footwear  
38 Asdic's kin  
41 Auto  
43 Practical

46 Dead heat  
48 Texas  
49 Resin  
53 Mortgage order  
55 Unattached  
57 Harmonized  
58 Typist  
59 Makes lively  
60 Judah king  
61 Medicine  
63 Fastener  
66 Before  
68 Greedy one  
69 Poem

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# FIRSTNIGHTER

KENTUCKY  
Kernel

## Play studies friends, dreams

Relationships fade with dwindling ambitions

Laughter and utter silence marked the audience's reactions to last night's premiere of "Self Serve," as a cast of five men explored the theme of friendship with power and skill.

however, in Act II, but is soon overshadowed by the performances of the other actors.

The play's impact lies with Dutch (James A. Stoll), the carefree and long-winded storyteller who whittles armadillos and plays checkers to pass the time. He keeps the audience laughing with his jokes and sentences them with his perceptive statements about Joe Ralph's pride and Don's inability to forget the past.

Don struggles between his physical handicap and the hate which is "crippling" his relationships with Joe Ralph and Dutch.

The role calls for strong emotions — resentment, hatred, disbelief — but Mitchell doesn't seem to have the ability to fully portray the sensitive scenes in the play.

The price for keeping old images alive has been dwindling friendships. Joe Ralph, the local stud, "stays cool" by chasing women and racing cars.

Although Haggard is supposed to be playing the lead role, he lacks the strength of a main character in the first act. He regains some stature,

In strong contrast is the powerful performance of the black man Mon, acted by Duane T. Nettlesbey.

He is central to the parallel theme of prejudices faced by blacks. Nettlesbey captivates as his booming voice resonates throughout the theater.

He skillfully acted out the plight of the suppressed and pained black, forced to be calm all his life while rage was boiling within him.

Complementing the other actors was Bill Felty as Tiger, the slightly retarded boy, who often showed more insight than "normal" people. While his performance was good it did not have the refinement that Mon and Dutch both displayed.

The play explored a series of emotions, shifting effectively from the relaxed, spirited atmosphere of old friends reunited to the tension of destroyed friendships. Throughout, director James Rodgers kept the pace and emotional tension high.



Mon (Duane Thomas Nettlesbey) strokes the mentally retarded Tiger (Bill Felty) during "Self Serve," a new play which opened last night in the Lab Theatre. The play was written by UK faculty members Daniel Blake Smith and James Rodgers.

### REVIEW

Set in the gas station of Joe Ralph (Henry K. Haggard), the play revolves around him and Don (Brian Mitchell), two friends reminiscing about the past when they still had dreams and ambitions.

Those hopes are now just stories, as the characters come near to realizing they are wasting their lives in a fantasy world.

The price for keeping old images alive has been dwindling friendships. Joe Ralph, the local stud, "stays cool" by chasing women and racing cars.

Although Haggard is supposed to be playing the lead role, he lacks the strength of a main character in the first act. He regains some stature,

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If there is no mandatory fee, the present program will be reduced.  
Considering the above information, should the health fee be mandatory?

YES xxxxxxxx NO xxxxxxxx

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Student Center: 10 a.m. - 7:30 p.m.  
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L.T.I.: 9 a.m. - 3:30 p.m.  
Nursing School: 9 a.m. - 2 p.m.  
Commerce Building: 9 a.m. - 1 p.m.  
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# SPORTS

## Basketball team gains two major recruits

By STEVEN W. LOWTHER  
Sports Editor

The Wildcats basketball team is yet to play its first game and already it has won two major recruiting battles.

Yesterday, Louisville Male's prep standout, Winston Bennett, and Marion, Indiana star James Blackman both signed national letters of intent with Joe B. Hall's Kentucky Wildcats.

Bennett, a 6-7 junior forward who averaged 20.8 points and 11.5 rebounds per game for Maurice Payne's Bulldogs, is considered the No. 1 prospect in the state of Kentucky.

Blackman, a 6-3 guard guard who averaged 22 points and five assists per game last year for Marion High School, is also considered to be the front-runner for

"Mr. Basketball" honors in the state of Indiana.

Both players were able to sign letters of intent early this year under a new NCAA ruling allowing high school seniors who have made up their minds where to attend college to sign before the basketball season begins.

Hall said he was enthusiastic about his two early signees after practice yesterday. "It was a very good recruiting day for us," he said. "We're very glad that both of them chose Kentucky. It's a credit to our assistant coaches and our program."

Hall played down the fact that both players had narrowed their final choices to UK and the University of Louisville before choosing UK. Blackman had narrowed his down to both UK, UL and the University of Iowa before choosing Kentucky.

"We just considered him another in-state player," Hall said. "It was more important that he was an in-state player and we were proud that he chose our program."

The last player from Louisville to sign with UK was in 1973 when Ernie Whitus from Louisville Doss signed with the Hall's team. He left the team after his sophomore year.

Two years ago, current UK forward Bret Bearup committed to Kentucky before the season started in order to take some of the recruiting pressure off during his final year at Harborsfield High School in Centerport, N.Y.

Bearup, however, didn't have the privilege of actually signing until the official signing date in April. Other schools still had the opportunity to call to lure him away.

"A few schools called," he said, "but it was no big deal. It didn't make any difference, anyway. I was coming here. My mind was made up."

Kentucky is expected to sign at least one more player from the state of Kentucky during the Nov. 10-17 signing period.

Paul Andrews of Laurel County, who hit a half-court jumper at the end of the second half in the state finals to clinch the title for the Cardinals, is expected to sign a national letter of intent with Kentucky today.

Hall would not confirm whether Andrews would sign or not. Andrews is a 6-2 guard who moved from forward to the point this year.

## NFL strike expected to hurt L.A. economy

PASADENA, Calif. — The Los Angeles area may lose as much as \$40 million to \$60 million if the National Football League players' strike cancellation of the Jan. 30 Super Bowl, area officials estimate.

Hotels and motels, restaurants and bars, tourist attractions, taxi companies and car rental agencies

all have been counting on the influx of 100,000 or so visitors for Super Bowl week. So have many of Southern California's unemployed, who had hoped to pick up part-time jobs.

Rolf Arnhym, executive vice president of the Pasadena Chamber of Commerce, says that based on Pasadena's experience as host of the

1977 and 1980 Super Bowls, the Los Angeles area would lose \$40 million to \$60 million, or 10 percent of it in the city itself. The lower figure would apply if a California team is in the Super Bowl, the higher if both teams are from out of state.

"People don't just come to sit in

See NFL on page 6

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### memos

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# UK tight end combines athletic, scholastic achievement

By DAN METZGER  
Senior Staff Writer

It is often called to the attention of the public when an athlete is honored in a capacity other than in the sport in which he participates. These honors have athletes who are not "dumb jocks," but interested citizens or devoted students.

UK senior tight end Rob Mangas is one such athlete who blends athletic skill and scholastic achievements successfully. As well as leading the team in pass receptions with 19 this season, he was recently selected as a National Football Foundation Hall of Fame Scholar-Athlete for 1982.

Mangas has also been inducted into the Phi Beta Kappa honorary. Head coach Jerry Claiborne said earlier this season that he was "extremely proud of Rob Mangas for his academic achievements." Claiborne was a Phi Beta Kappa initiate when he was a player at UK from 1947-50.

"I knew I had applied for it, but I wasn't expecting anything to come out of it. It was a pleasant surprise," said the native of Toledo, Ohio.

Mangas, who will be honored for the selection at a banquet in New York December 7, said he is thankful to the UK sports information office and the athletic department for his selection. "They did a good job of promoting me," he said.

In addition to this honor, Mangas is waiting to hear from the NCAA on another scholarship he has applied for.

The political science major will be spending next semester in Washington D.C. as an intern for Sen. Wendell Ford (D-Ky.). "That came up last semester. I'll be working for

Senator Ford on the Rules Committee. I'll be doing the basic things the committee staff does up there like monitoring hearings and doing research. It'll be an exciting opportunity."

Mangas said he is interested in political research as a possible career. "I can't get real specific on that, but the national level appeals to me more than any other level. If that

type of opportunity came up," he said, "I'd jump on it."

Although he is unsure where, Mangas said he plans to attend law school after graduating from UK.

"I'm looking at some eastern schools, but the internship will help me in deciding what direction I will head.

"I'm also looking at an MPA," he said "which is a Masters of Public

Administration, but I haven't decided which I am going to pursue. You can combine the two, but I won't have the time."

The burden of playing football and school has created a situation where Mangas has had to improve his studying. "You budget your time better and you study more intently," he said. "But it'll be a lot easier

when it's done."

"You really have to develop a certain amount of discipline in your studies. Playing on this level allows you to look at things at a different perspective in relation to a lot of things. You get some big business aspects, entertainment aspects and other things in society that other students don't get. So its added to my overall academic experience."

Football at UK has not always been a happy experience for Mangas. In addition, he said the transition from quarterback to tight end after his freshman year was discouraging.

"That's tough for anyone and I was still adapting to school and I hadn't declared a major," he explained. "I really wasn't sure where things were going."

The coaching methods of Jerry Claiborne and Fran Curci are contrasting in philosophies, Mangas said. "I like to compare the two coaching philosophies. Coach Curci had a little more sophisticated approach — more of a professionalized approach. They expected you to do certain things and corrected you when you didn't."

"This coach (Claiborne) is more

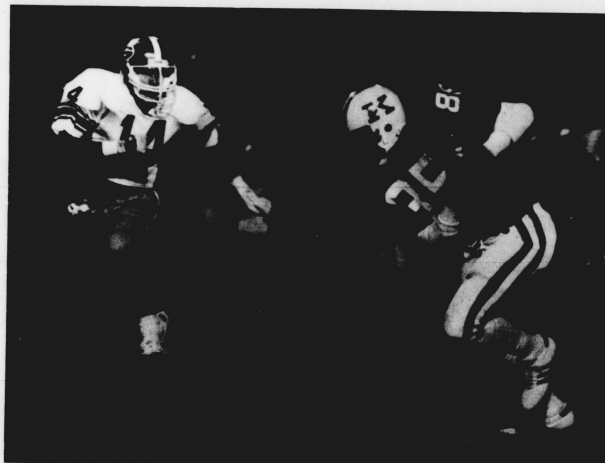
of a motivational type. His philosophy is to encourage you to do something right and pat you on the back when you do," he said.

"Those are two different philosophies and two different approaches to a lot of things you can do that don't have anything to do with football. I think it's an interesting contrast and I don't know which is right or wrong, but as far as football games go, I prefer the second — coach Claiborne's."

While Mangas expressed displeasure about the team's performance this season, he said he is satisfied with his own.

"Going into the season I didn't have any statistics that I wanted to reach," he said, "but I wanted other people — when they look back on the season — to consider me a major contributor. I thought I had the potential to be one before the season, but I wasn't sure what form it would take."

"If I can perform up to my potential these last two games, when I look back on the season, I'll be satisfied with my personal performance and have others look upon it as giving all I had. That'll be the most rewarding thing personally."



J.D. VANHOUSE/Kentucky Staff

Kentucky tight end Rob Mangas, shown here in action against Georgia, has excelled not only on the gridiron but also academically. Mangas has been named a National Football Foundation Hall of Fame Scholar-Athlete for 1982 and has been inducted into the Phi Beta Kappa honorary.

## •NFL

Continued from page 1

the Rose Bowl and watch the Super Bowl game," says Arnhem. "They also come for other entertainment, like Disneyland, Marineland, plays and museums."

With the strike in its 51st day, canceling the Jan. 30 Super Bowl has become a real possibility.

Arnhem says that even if the game is moved to a later date, there would be considerable loss. The league has booked 50,000 rooms in an estimated 200 hotels for Super

Bowl week, many of the which have turned down others seeking accommodations for that period, but are booked in subsequent weeks.

However, he said the NFL told the Los Angeles Convention and Visitors Bureau yesterday that if hotels want to release rooms reserved by the league they could do so.

"It does not appear to be a complete release, but the NFL did not want the hotel industry to be left holding the bag should the Super Bowl be canceled or the date moved," Arnhem said.

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