

Comet Kohoutek to illuminate sky

by Gary Dorsey
Staff Writer

Sometime in the next few days the sky will add another feature to its face of stars and clouds, sun and moon. Comet Kohoutek, discovered about nine months ago by West German astronomer Lubos Kohoutek, will soon present its icy head and extending tail to our "naked eyes."

Dr. Morris Davis, UNC professor of astronomy, said Kohoutek may possibly be the "comet of the century."

"The only predictable thing about comets," said Davis, "is that they are unpredictable. All we can say is that the comet may reach our expectations."

And such expectations. Great expectations! Astronomers across the world have been describing Kohoutek as a "celestial spectacular," a "cosmic show," which will treat us with its presence from December through January.

Kohoutek, discovered March 7, 1973 — it was the sixth comet discovered in 1973 — was relatively unexciting when it was first sighted. It was "10,000 times fainter than the faintest star that can be seen with the naked eye" and was described as "diffuse with no tail."

After a preliminary orbit was calculated for the comet the discovery began to take on new dimensions of importance.

As Davis puts it, "It will be considerably brighter than Halley's comet, which isn't due

until 1985-86."

Like other comets, the most spectacular feature of the Comet Kohoutek will be its tail, a collection of gases and dust flowing from the conglomerate of iced gases forming the comet's head.

The tail is expected to stretch about 30 million miles. Viewed from the earth it will appear to toss itself at a 60 degree curve from the horizon. (A 180 degree curve would constitute a semi-circle) Although the comet will not appear to move to a viewer a day-by-day watch will show that the comet is changing positions in the sky.

Traveling at an approximate speed of 70 miles per second, the comet will continue to grow collecting cosmic dust and gathering icy gases as

the solar winds from the sun strew the tail out from the head. Astronomers liken this to a "dirty snowball effect."

Kohoutek will be largest when it reaches its closest point to the sun, Dec. 28, 1973. At this point, called the perihelion, the comet will be within 13 million miles of the sun and, from earth, will be as bright as the planet Venus when Venus is at its brightest. Astronomers predict that it will be bright enough to be seen during daylight.

As the comet gets closer to the sun it will seem to disappear because the sun's brightness will make it harder to see. Therefore, there will be about three days in mid-December, Dec. 25-28, when it won't be visible.

Dr. John Baumert, Morehead Observatory Fellow, said "comet Kohoutek will be at its best in the middle of January when it is only 75 million miles from the earth."

To dispel rumors of "cosmic collision" it should be repeated that at its closest point the Comet Kohoutek will be 75 million miles from the earth. (The sun is 93 million miles away.)

Comet Kohoutek, which will be with us for a visible visitation period of two months, may not bring doom to the inhabitants of this planet, but it will cause many, astronomers and astrologers, the scientific and the abstract, to turn their heads to the heavens with thoughts of cosmic imaginings.



Sen. George McGovern

Rally for impeachment features Hobby speech

Wilbur Hobby, president of the state AFL-CIO, will head a rally supporting President Nixon's impeachment.

The rally, to be held at 1 p.m. Saturday in Raleigh's Memorial Auditorium on Fayetteville Street, will show "a local sentiment for impeachment from people that reflect different areas of North Carolina," said Paul Price, coordinator of N.C. Students for Impeachment.

Other speakers will include Sally Avery, member of the national committee of the New America Movement; Larry Little, Black Panther from Winston-Salem; UNC

Student Body President Ford Runge; and a representative from the American Civil Liberties Union.

After the five addresses, the platform will be open to speakers from the audience. Students from about 20 N.C. universities will attend the rally. The Women's International League for Peace and Freedom, the N.C. People's Party and the Chapel Hill Peace Center also plan to send representatives.

Transportation will be available at 12 noon from the Union parking lot for those wishing to attend.

Exam schedule for fall semester

All	10:00 A.M.	Classes on MWF, *Phil 21	Tues.	Dec. 11	8:30 A.M.
All	1:00 P.M.	Classes on MWF	Tues.	Dec. 11	2:00 P.M.
All	9:30 A.M.	Classes on TTH	Wed.	Dec. 12	8:30 A.M.
All	5:00 P.M.	Classes on TTH, *Poli 41, sect A-1, B-1 only	Wed.	Dec. 12	2:00 P.M.
All	11:00 A.M.	Classes on MWF	Thurs.	Dec. 13	8:30 A.M.
All	8:00 A.M.	Classes on Tth	Thurs.	Dec. 13	2:00 P.M.
All	9:00 A.M.	Classes on MWF	Fri.	Dec. 14	8:30 A.M.
All	5:00 P.M.	Classes on MWF, *Phys 24, *Astr 31 sect 131 & 161 only, *Econ 61, *Busl 71, 73	Fri.	Dec. 14	2:00 P.M.
All	11:00 A.M.	Classes on Tth	Sat.	Dec. 15	8:30 A.M.
All	8:00 A.M.	Classes on MWF	Sat.	Dec. 15	2:00 P.M.
All	12:00 Noon	Classes on MWF, Fren, Germ, Span, & Russ 1, 2, 3 & 4	Mon.	Dec. 17	8:30 A.M.
All			Mon.	Dec. 17	2:00 P.M.
All	12:30 P.M.	Classes on Tth	Tues.	Dec. 18	8:30 A.M.
All	2:00 P.M.	Classes on MWF	Tues.	Dec. 18	2:00 P.M.
All	2:00 P.M.	Classes on TTH	Wed.	Dec. 19	8:30 A.M.
All	3:00 P.M.	Classes on MWF	Wed.	Dec. 19	2:00 P.M.
All	3:30 P.M.	Classes on Tth	Thurs.	Dec. 20	8:30 A.M.
All	4:00 P.M.	Classes on MWF	Thurs.	Dec. 20	2:00 P.M.

Instructors teaching classes scheduled for common examinations shall request the students in these classes to report to them any conflict with any other examination not later than November 12, 1973. In case of a conflict, the regularly scheduled exam will take precedence over the common exam. (Common exams are indicated by an asterisk.)

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President's impeachment only alternative—McGovern

by Lynn Lloyd
Staff Writer

Sen. George McGovern, D-S.D., told UNC students Wednesday night in Carmichael Auditorium that there "is only one basic, honorable alternative to the presidential crisis. The agency is Congress and the remedy is impeachment."

The 1972 Democratic presidential candidate said that he had been reluctant for many months to come to this conclusion

because he was the defeated candidate, "but my silence has ended. The question now is before the American people."

"The President gave his pledge to get to the bottom of Watergate. He produces a secretary, instead of the tapes, who accidentally kept her foot on a button that cut out 18 minutes of the most critical tape," he continued.

"Much has been garbled. It's clear that it won't be possible to maintain integrity and self-respect if we allow the cover-ups. I said three-quarters of a year ago that I wouldn't

believe the accusations against the President until he showed his innocence, but it's harder to hold to this each day."

McGovern said the nation is surrounded by "grave" concerns, but the government is at a standstill. He said, he thinks the President's powers to deal with inflation have not been effectively used.

"The leadership is too preoccupied with covering-up its own doings to face other problems. Their concentration is on their misconduct when we need them on problems."

He told the crowd that the government leaders continue to repeat an "optimistic litany" to the people, but the picture is grimmer.

"Unemployment may go up eight per cent, and Nixon said Congress is at fault. The fuel crisis demonstrates failure in the leadership. We are in danger of having a President with power who doesn't exercise it for the majority of the people."

He continued to say that the government has shown some gains in foreign policy, but that the administration is not as influential in foreign affairs as we are told.

"We need to give these places of leadership to more honest men. Our government's capacity can be restored if we forgive the President and turn away from Watergate. But can we do the business of the United States without doing the business of justice? Behind the facade of government, the law may reach the humblest but not the highest and most powerful."

McGovern denied corruption in his own political campaign. "Mistakes and errors were made, but there was no violence to the Constitution and principles of this country. We can recover faith in the political process, and we do it by demanding justice be done, even in the highest stations."

He said he believes that some good can come from Watergate—re-examination of the role of Congress and the restoration of checks and balances.

"Ours must be a government of laws and not of men, especially not of one man. We must be willing to follow our consciences. We can't accept a government which misgoverns, offering up a lie of the week. We must say to them, enough. Only then can we turn to shaping of a country that our children will love because it is a great, good, decent land which you and I have made it," he concluded.

Debaters second in U.S.

by Robert McDonald
Staff Writer

UNC debaters Cole Campbell and Tom Dillard took first place in a major national debate tournament held over the Thanksgiving holidays at Georgetown University in Washington, D.C.

In the final round, Campbell and Dillard

defeated debaters from Harvard, ranked No. 1 nationally. Because of the win at Georgetown, the UNC debate team is now ranked second nationally.

Though this was the first national tournament that Campbell and Dillard have won, they have made it into the final rounds in previous tournaments, according to Dr.

Robert Cox, debate director.

The national debate topic this year is "Resolved: That the federal government should control the supply and utilization of energy in the United States."

To win the tournament, Campbell and Dillard debated in eight preliminary rounds. On the basis of their 7-1 record there, they qualified for the octofinals, where they defeated the University of Pittsburgh.

In succeeding rounds, Campbell and Dillard triumphed over Houston and Kentucky and then defeated Harvard in the finals.

In individual speaker rankings, Dillard placed seventh, and Campbell eleventh out of a total of 228 speakers from 114 schools entered in the tournament.

UNC debaters Jeff Allred and Walker Smith also competed in the tournament, but failed to make it into the elimination round.

Finances are a problem again this year for the debate team, Cox said. Often at tournaments the debate team has slept on the floor to save money. This was not a problem at Georgetown because the entry fee was waived and free housing was provided, Cox said.

Earlier this year, Student Government allocated \$5,000 to the debate team as opposed to \$7,000 last year. No funding appears to be forthcoming from the administration, Cox said, and the team is planning to curtail the number of tournament entries next semester.

CGC finance committee grants 2 organizations additional funds

The Campus Governing Council Finance Committee approved Thursday additional appropriations totaling \$5,500 for next semester's Carolina Symposium and the Association of Women Students' planned Women's Festival.

If approved at the next CGC meeting Tuesday night, the additional appropriations—\$3,500 to the AWS and \$2,000 to the Symposium—will be taken from the swiftly dwindling reserve account for special programs in the Student Government budget.

Although Finance Committee Chairman Bill Snodgrass didn't have the exact figures, he said the reserve, which began the semester with \$20,000, would be reduced to a few hundred dollars by the appropriations.

The original AWS request was for \$2,000, but was raised \$1,500 by the committee after

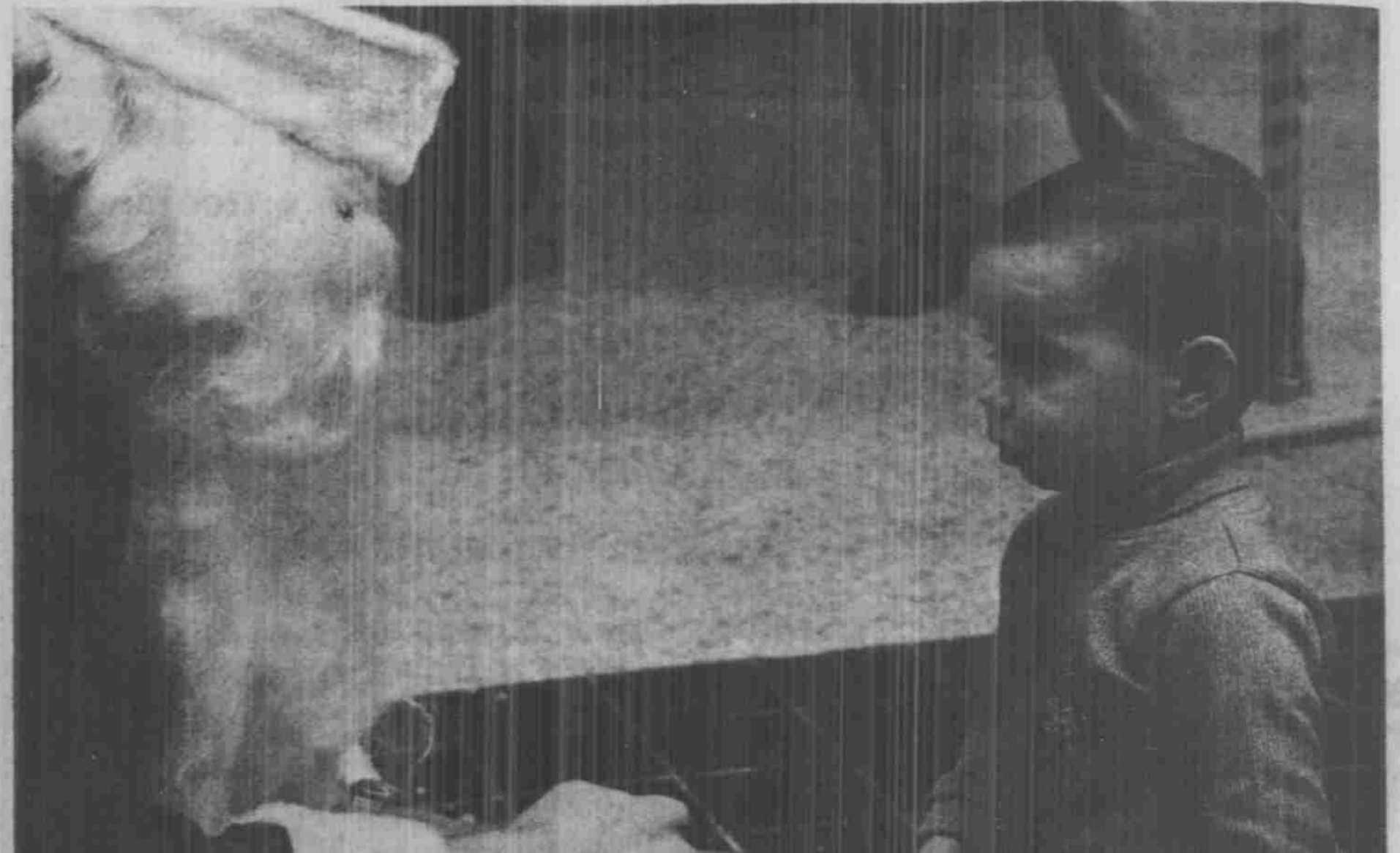
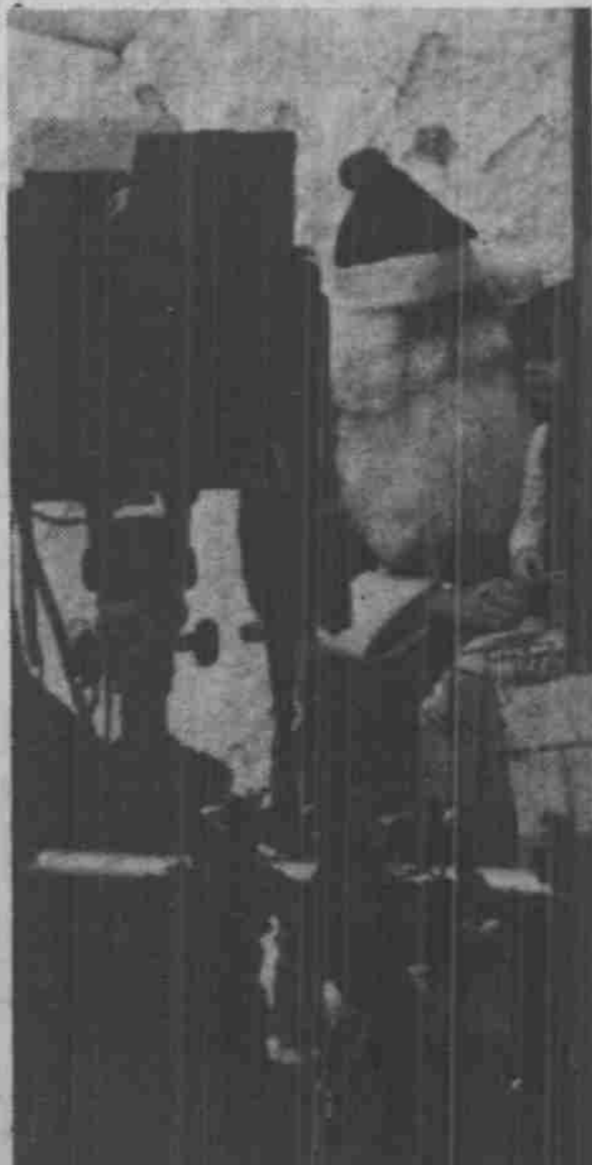
reviewing the plans for the Women's Festival scheduled for Feb. 4-17.

The women's association still needs to raise another \$1,000 to cover the projected expenses of the festival program to include films, theater productions, music and speakers.

Some of the scheduled speakers are Gloria Steinem, Germaine Greer, Congresswoman Yvonne Braithwaite Burke, and journalist Jeanne Taylor.

Amelia Bellows, AWS president, said her group is planning fund raising efforts and is requesting donations from several University departments.

She said the Carolina Union is spending \$3,200 on the festival, including \$1,500 for the Steinem speech, and the Carolina Forum is co-sponsoring several of the events.



Kindly Santa Claus comforts frightened Chapel Hill children

Staff photos by Bill Wynn