

Planetarium honors N.C. 400th

By IVY HILLIARD
Staff Writer

The Morehead Planetarium has an early start on the celebration of the 400th anniversary of the colonization of Roanoke Island and the Outer Banks with its latest production, *Opening New Worlds*.

The program, part of Orange County's anniversary activities set to begin in October, celebrates the parallel developments in exploration of the New World and in astronomic discoveries which took place in the late 15th and early 16th centuries.

Opening New Worlds is also the first Morehead show to be written by planetarium director Lee Shapiro.

Shapiro said he began to develop the show when he looked back at the historical records on the period of the colonization and realized this period was one of the most exciting times in astronomy.

"Men like Kepler, Copernicus and Galileo and their revolutionary discoveries made this a general time of exploration of both ideas and lands," Shapiro said.

The program explores the story of John White, leader of the first successful colonization effort in 1587, who went back to England for more supplies that same year and was delayed from returning for three years by the Spanish Armada. When he returned to Roa-

noke, the colonists, including his daughter and granddaughter, had vanished without a trace.

This story is intertwined with the discovery by Copernicus that the planets revolve around the sun instead of the earth; by Kepler of the planets traveling in ellipses, not circles; and by Galileo of lunar features, the moons of Jupiter and sunspots.

"Europe in essence had been stagnant for many centuries before this time," Shapiro said. "People were not encouraged to go beyond the status quo."

Shapiro said this overall perspective on the voyages and the thinking of the time makes the program an exciting show for people to attend.

As the show's writer, Shapiro said he was able to preside over most of the production aspects of the show and work with the technicians on the kinds of special effects to put into the show.

"Compared to the other planetariums I have been associated with," Shapiro said, "there is more involvement for the writer here in all aspects of the production. All phases of production go back to the writer for feedback."

Shapiro said that one of the most interesting connections made in the show between the two areas of exploration was that Thomas Hariot, a Roanoke voyage participant, probably observed the moon and sunspots with a telescope even before Galileo did.

Several interesting effects have been included in the show among the more common special effects. Along with an episode demonstrating how planets moved according to popular thinking before Copernicus, one effect sets the scene of Europe emerging from the Middle Ages. In this scene, torches flicker on and off as they move behind the columns of a cloister to give a very animated feeling to the opening of the show. Other effects use the Zeiss projector's special abilities, such as a solar eclipse and streaking comets.

The show also uses slides of some of the drawings John White made during the Roanoke voyages.

Shapiro said he expects the show to pick up added viewers because it is part of the 400th anniversary events.

Opening New Worlds, which will run through Nov. 19, is shown nightly at 8 p.m., with additional matinee performances on Saturdays at 11 a.m., 1 and 3 p.m. (except on football Saturdays) and Sundays at 2 and 3 p.m. Call 962-1236 for ticket information.



Lee Shapiro, Morehead Planetarium director, runs the Zeiss projector for "Opening New Worlds" (DTH/Nancy London)

Football

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front of Anthony's third-quarter pass, and Maye had a short toss picked off in the Navy end zone to prevent a sure UNC score, the tide surged enough for Navy's flotilla to stay in the battle.

Maye could come up with no explanation for the second-half breakdown. "We had opportunities to score and we got it down close, but we just couldn't put it in the end zone. We moved the ball well I thought, we just didn't put up as many points as I thought we could have."

"We just weren't maintaining consistency out there," Anthony said. "We were up on top one minute, and down another. For this team to be good, we've got to beat that."

The Tar Heels did show signs of developing a potent offense. Tailback Ethan Horton and fullback Eddie Colson, probably the best backfield combination in the ACC this year, rushed for 96 and 97 yards, respectively, and Colson proved to be especially

promising, dragging tacklers along with him on several long runs.

"The line just happened to blow the holes open," Colson said of his performance. "But I feel bad for the team, because individuals don't win."

UNC head coach Dick Crum was not terribly bitter about the loss, acknowledging that this was the first game of the season for a very inexperienced team. "We were a little worried about our defense, because they are fairly young," Crum said. "The offense was not bad, they were probably good enough to win. But we had a couple of things happen, a couple of penalties that killed drives and so forth. Navy is very experienced offensively and they did a good job with us."

The Tar Heels must now face their second Heisman candidate in as many weeks when they travel to Foxboro, Mass., Saturday to play ninth-ranked Boston College and quarterback Doug Flutie, who picked apart Alabama in a win last week.

Cable

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Larry Griffin of Chesapeake, Va. said he would be willing to pay a fee to get cable in his Ehringhaus dormitory.

Some students said they did not care about cable because they did not have time to watch television. This was the view of graduate student Joi Scaggs of Hodgenville, Ky., and sophomore Kelly Corbet of Raleigh.

Gail Conger, a senior from Sheboygan, Wis., said having cable television in dormitories might cause hurt students' grades.

"But they're all old enough," she said. "If they want to sit in front of it all the time, it's their decision."

But Beth Weeks, a freshman from New Bern, said, "I can study with MTV

on."

Students were also asked about Student Television, which had its premiere show Wednesday on Village Cable's Public Access channel 11. Some said they had not even heard of STV, such as freshman Doug Robinson of Clemson, S.C. Alan Welfare, a freshman from Wilmington, said he had heard of it but did not know how to get the channel.

Conger said she had watched the premiere show partly because she had been one of those interviewed for its segment on sorority rush. "I was impressed by the guys who interviewed us," she said. "The show looked like a high-quality product."

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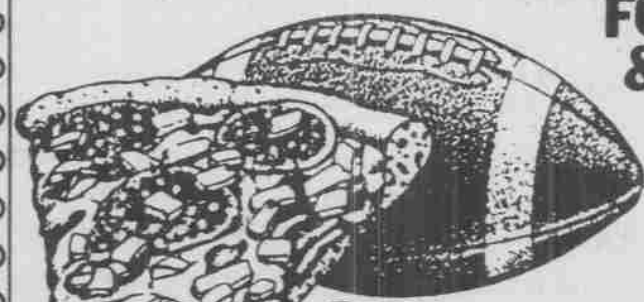
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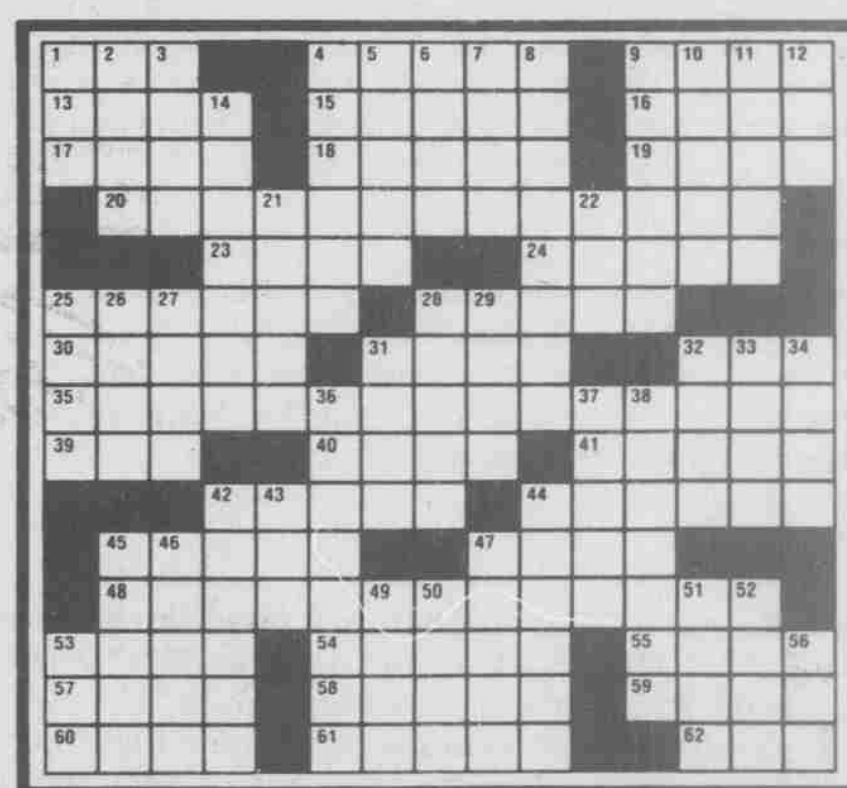
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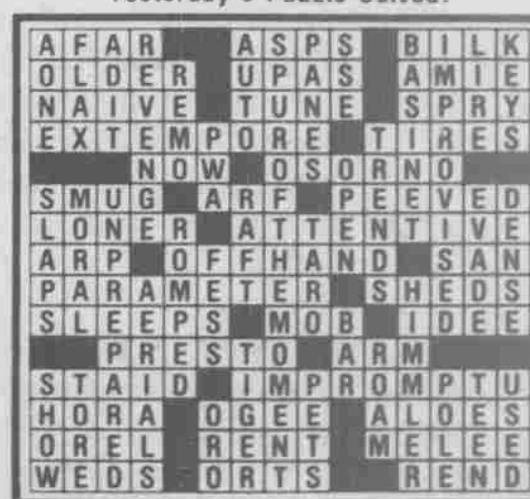
- ACROSS
- High mountain
 - Entrances
 - Snug
 - Blind in falconry
 - Of ancient Chinese
 - To shelter
 - mutual
 - Upright or grand
 - Musical sign
 - Government worker
 - Hibernia
 - Spruce
 - Become visible
 - Makeshift watercraft
 - goose (gannet)
 - Knee
 - Symington or Erwin
 - Electric and gas companies
 - Verily
 - Sale condition
 - Pedestal support
 - Mediterranean island
 - Quenched thirst
 - Coral Isle
 - WWII plane
 - Hunted criminals
 - Beautiful girl
 - Literary effort
 - Director Kazan
 - Seed integument
 - Broil
 - Mild expletive
 - Unit of force
 - Betrays
 - Seine



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| 42 Moving readily | 49 Heart |
| 43 Every | 50 Satanic |
| 44 Irresistible influences | 51 Verve |
| 45 Act of mimicking | 52 King's address |
| | 53 Launch — |
| | 56 Plismire |