NEW ORLEANS (AP) - James, Worthy of

North Carolina and Eric "Sleepy" Floyd of

Georgetown renew an old rivalry tonight when

Prof's shuttle experiment part of nationwide effort

process encounters difficulties due to tions because you don't have to cool them

Sedimentation is the downward be five times as great, and that the novement of suspended particles due to number of cells involved could increase gravity. Convection is another gravity 15 times because of the lack of any need luid is drawn toward the Earth (by doing today is in concept a 150-fold im-

ust so much." Todd said. "It's hard to This particular biological system was

Todd said that applying an electrical ield to a column of fluid is analogous to around the body and reach critical sites

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highly charged particles from ones of explained, "it means that you can use esser charge. However, on Earth this larger containers to do these purifica-Todd said the separation of cells would

chosen for study, Todd said, because it

"They did most of our work early because of other difficulties — the toilet wasn't working, they didn't feel good, the hydrolic system was misbehaving and

Gregg, Jon, Marc 🥕 Tony D. & Tony P.

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'So already the experiment they're doing today is in concept a 150-fold improvement over what we're doing here in our lab.'

—Paul W. Todd, University biophysicist

nis Morrison at Johnson Space Flight Each part of the experiment in space is Center.

about an hour long, compared to two "In a short time Grant Barlow and I hours on Earth. An automatic camera will go to Houston and the frozen cells every minute, and occasionally the astro- and which cultures that contain the uronauts were asked to give voice downs, or kinase-producing cells will be deteractual voice descriptions of the experimined," Todd said. mental data, to Mission Control in Hous- Todd explained that the first set of ton. Todd has been in constant contact samples will be evaluated in Houston. with Mission Control and some of the "Some of the other samples will come other researchers involved as well. The project is a collaboration of re-verification of what is found in Houston,"

addition to the University group, in- "More importantly, we'll be adding volved in this experiment are scientists some of the techniques we're capable of cells, and be sure at least that the appafrom the Marshall Space Flight Center, using to find out more detailed informa- ratus is working, and that the buffers we McDonnell Douglas Corporation, Mition about each fraction of cells that was put in are working properly," she said.

ments) for them to do because it doesn't divided among University scientists, amount of urokinase production. require precise hand-eye coordination on said Grant H. Barlow, a specialist in Working with human kidney cells for of cell mobility. the part of the astronauts, and it doesn't urokinase at Michael Reese Institute in about 2½ years, Todd said his lab's role "Using the numbers I've come up with"

which to grow the cells; and the choice of methods of analyzing the cells — pref-Another job of the researchers is to

"You don't do a scientific experiment with all unknowns," Todd said. "You

took pictures of apparatus and dials will be thawed out and placed in culture, ns of cells in the experiment, two have Todd said.

to our lab, the idea being it'll be a Elaine Kunze.

Those controls were performed before Essentially the scientists will count the and during the space shuttle flight. containing the frozen separated cells will grow them to see if they are producing er from Hastings, New Zealand, has

experiments the choice of buffer going into the glass columns; the choice of cells the operation of the columns here, and the operation of the columns here, and used for study; the choice of medium in similar ones in space, and come up with predictions of the migrations of bands of "We get quite good agreement of the

theoretical numbers and physical data The researchers have decided to spread out the process of investigation

cells at a time, complete the analyses of "We'll be at a point in which there will

state our conclusions probably by The University scientists will continue to be involved in similar projects for provide biological materials for future shuttle flights for McDonnell Douglas

be taken to Houston. There they will be the correct product and measure the devised a way to mathematically predict flow by. Urokinase production could be

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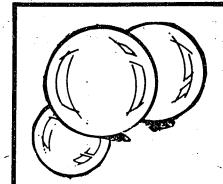
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Spikers down Ohio State in rematch

Georgetown coach John Thompson's sixth-ranked team is ready to battle No. 1 North Carolina in

the finals of the NCAA championships at the Superdome in New Orleans, at 9:15 p.m. tonight.

Georgetown, North Carolina

to clash for NCAA hoop title

championship, though."

we sat together. We never thought we'd be

playing against each other for the national

Worthy, a junior, and Floyd, a senior, each

represents a crucial part of his team's chances

tonight. They grew up about two miles from

each other in Gastonia, N.C. Worthy attended

Ashbrook High School; Floyd went to Hunter

But victory marred by official's controversial call

Collegian Sports Writer replay of what had happened two weeks earlier in Muncie, Ind. At Muncie, the men's volleyball team had a difficult time against Ohio And the prospects did not look encouraging Saturday night when the two teams met for a rematch, with the Lions getting slaughtered in the first

"Oh no, not again!" Well, it didn't happen again. The fourth-ranked Lions (25-2) battled back to defeat the seventh-ranked Buckeyes (24-5) in impressive fashion, 6-15, 15-6, 15-11, 16-14. The match was excellently played by

both teams, although Penn State appeared to be the stronger of the two and may have proved to most of the fans at Rec Hall that they deserve to be ranked fourth in the country, if not Nevertheless, while the victory was a rather convincing one, the match

official's call at the end of the third game of the match, in which the Lions, who were serving at the time, were leading, 14-11. A spike by the Buckeyes' Michael Hill, which would have resulted in a side-out to Ohio State, was disallowed when Hill was called for a line viola-

was marred by controversy over an

other side of the net before the ball hit the ground. "It's impossible!" Ohio State coach Jim Smoot said when the ruling was made. "There is no way in the world that could have happened!" So, instead of a side-out to Ohio

tion, his foot apparently landing on the

State, the point (and the game as well) went to Penn State (15-11) After the match, Smoot did not want to talk much about the call itself, but said he was not satisfied with the officiating in general. "I was satisfied with the umpire

(Russ Rose) and the linesmen; I guess I should say linespersons, since they were girls," Smoot laughed. "And that's about it." Rose explained that it was his job to rule whether a line violation had been

Kruger) was to judge whether the ball hit the floor before the violation was

coach Tom Tait said when asked if he thought the ball hit the floor first. "It was a call I'm glad I didn't have to taped replay of what happened (in slow motion) after the match, it was

not easy to tell whether the ball hit the floor before or after Hill crossed the Nevertheless, Smoot said he felt the call was a turning point in the match. Perhaps. But the term "potential turn-

ing point" seems to be a more accurate

Penn State had already seized the momentum of the match by winning the second game of the match and taking a 14-11 lead in the third game. If anything, the call simply prevented the Buckeyes from getting the opportunity to shift the momentum back

At any rate, the win almost ensures that the winner of the Eastern Collegiate Volleyball League hampionships next month (most likey Penn State or No. 9 Rutgers-Newark) will receive at least the No. 3 seed. in the Final Four (NCAA will be held in Rec Hall May 7-8. Meanwhile, the Midwest representa tive — probably Ohio State or Ball State — is expected to receive the No. 4 seed, since California teams usually

Tait said he was extremely happy with his team's showing, although the first game was a disappointment because of a strategy which turned out to left-side blockers, Harpo (Mike Guyon) and J.J. (Jeff Johnson)," Tait

take up the No. 1 and 2 seeds.

said."I thought I knew which one I wanted on (Ohio State's Craig) Sherman, but it didn't work out." Initially, Tait had Guyon on Sherman, who competed on the 1980 National Junior Olympic team with Lion coaptains Mark Kraynik and Bruce an effective job on Sherman, and

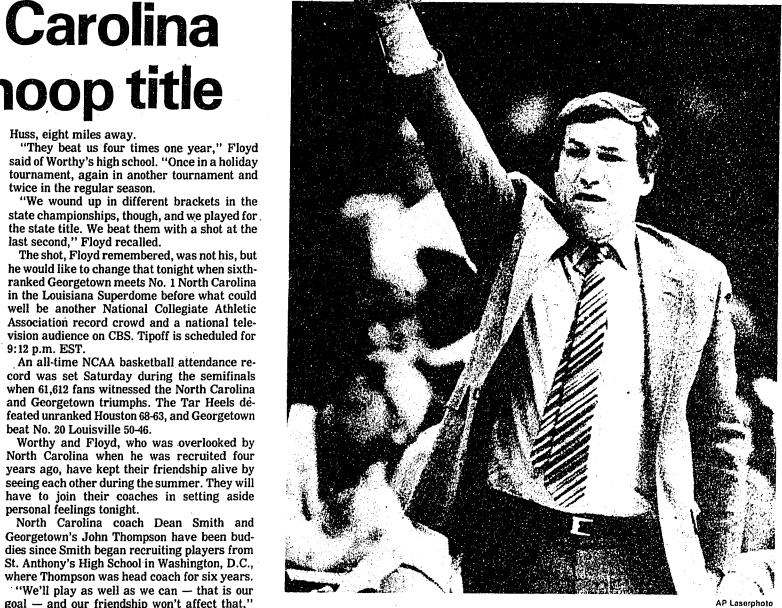


Men's volleyball players Bruce VanHorn (left), Mark Kraynik (center) and Jeff Johnson jump in unison to block an Ohio State's player attempt to spike. Saturday night in Rec Hall. The fourth-ranked Lions overcame the seventh-ranked Buckeyes to win 6-15, 15-6, 15-11, 16-14.

second game Tait put Johnson on Sherman and assigned Guyon to block in a

izing OSU's Dave Jandasek, who competed in the 1981 National Sports Festival with Johnson, Kraynik and "We blocked him well," Tait said. "Dave is a streak player; when he is Guyon's performance also seemed to not blocked effectively, he can be dan-

The Lions also succeeded in neutral-



while North Carolina's Dean Smith is ready, too. Smith is ready to win his first nationa

Floyd, a 6-3 All-American guard, averaged he had only 13 against Louisville after hitting only 3-of-11 from the field.

"Jimmy Black will see some of Sleepy Floyd best." tomorrow," Smith said. "We're concerned that Floyd downplayed his importance to the

"Louisville played very good defense against us," Floyd said. "They were tenacious. They were all over us. Every shot I took was a tough shot because I had a hand in my face. Anyway, I don't have to score a lot for us to win. We play

A key to that team offense is Ewing, Georgetown's 7-foot center. Thompson feels that Georgetown's defense creates a lot of its offense, and in that area, certainly, Ewing is the

6.8 points per game for Georgetown, although ness," Worthy said of Ewing. "We'll stick to our basic man-to-man defense and try to help each other out, but we have to stay with what we do

Although Worthy said he had not seen tapes of Floyd will come out firing because he didn't Georgetown, he and Perkins, both 6-9, will have a good shooting percentage in the semifibecome well acquainted with Ewing in the final. ville, but he grabbed 10 rebounds and was an intimidating presence under the basket. His

> offensive philosophy "We'll be conscious of him." Black said. "It's try to stick with our regular offense." Part of that regular offense is the four-corner

game, and Smith said he wouldn't hesitate to use it against Georgetown if the opportunity

of the pressure off," said Joanne

Beltz, who was a member of the team

where Penn State wanted them.

prove that we truly were the better

exercise for the Lady Bruins. The

Despite a fall during a back aerial

Lady Lion gymnasts

3rd at NCAA finals

last second," Floyd recalled.

beat No. 20 Louisville 50-46.

personal feelings tonight.

and talk about this."

Sunday's news conference.

men, Worthy and Sam Perkins.

North Carolina coach Dean Smith and

Smith said. "We'll probably sit down some day

"Once in a while I hear coaches say, 'I wor

He pointed toward Worthy and guard Jimmy

teams to the Final Four without a national

The Black-on-Floyd matchup could play as

important a role in the championship game as

the more publicized battle between Georgetown

freshman Pat Ewing and North Carolina's big

In the Tar Heels' semifinal victory, Black saw

most of the man-to-man defensive duty on

Houston's Rob Williams, who was held to just

two free throws. Williams, who came into the

game averaging 21.8 points, was 0-for-8 from

something.' But that's silly." Smith added

"The pronoun should be 'we' or even 'they.

They're the ones that play the game."

9:12 p.m. EST.

Collegian Sports Writer

After all the injuries and other probems that the women's gymnastics ago.

themselves, the Lacy Lions did just that Friday nigh: in Utah, scoring a 143.10 to finish behind the powerful

repeat in that event, finishing second, and wound up tied for third in the allaround. Still, the meet was a dream come true for Penn State.

third," captain Marcy Levine said. "We were all dreaming a little bit, but might've been a major disappointment. But in the 1981-82 season, third

is nothing short of incredible just six healthy gymnasts. Then, in early January, two of those gymnasts; Joanna Sime and Linda Tardiff, were of the scores," Beltz explained. "We sidelined with injuries. Through the knew what everybody needed to get heart of a schedule that made the Lions had just four gymnasts. Still, they kept on winning, until fatigue and

was seeded a low (for Penn State) second with a 37.10.

them on a long West Coast swing when more quality gymnasts than the Mor-UCLA, Utah, and Oregon State defeat- mon Tabernacle Choir has singers. Penn State won the NCAA North- talents, freshman Sue Stednitz, won east Regional title (no big deal, since the all-around with a 37.20 total. Krisninth. The ninth-seed put them in the Anderson's total of 36.85 tied her with first rotation, which was thought to be Oregon State's Mary Ayotte-Law in a minus for the team, since scores third place. It was Avotte-Law who dethroned Anderson as floor exercise a dark, dark, darkhorse. It worked to second. Anderson also finished third

in the uneven bar finals.

Mr. Robert Theberge, a PhD candidate with the Department of Plant Pathology at P.S.U. has recently returned from the South China Agricultural. College in Guanazhou (Canton), The People's Republic of China. Robert conducted research for his dissertation and during his 6 months stay in China acquired much insight into Chinese life. Having lived and worked in the P.R.C., Robert has many interesting stories to relate. He is very interested in sharing his experiences and welcomes all of you to attend his seminar entitled: "BEHIND THE RED STAR" on Monday, March 29,

1982, at 4:00 PM in 112 KERN GRADUATE BLDG on the Penn State campus.

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