

Football

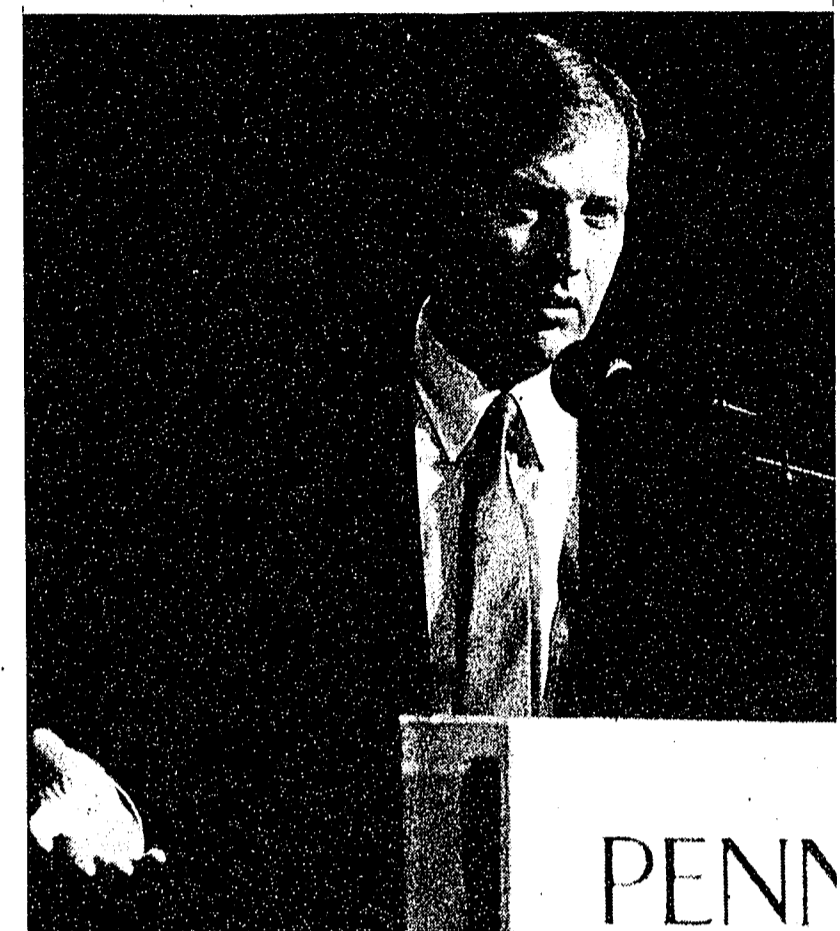
Continued from Page 1.
Erickson said the study also showed that Penn State football is a "very stable family-oriented activity." The respondents held on to the average \$4 season tickets for 10.8 years.

Geoffrey Godbey, professor in the Department of Recreation and Parks, said that it is believed "that when one experiences something only once, they're likely to spend more money than if they do it routinely." So the research team was interested in the fact that Penn State football generated so much money even though it is a "ritual."

Assisting in the study were Frank Guadagnolo, acting chair of the Department of Recreation and Parks; Godbey; William D. Anderson, assistant director of the Center for Regional Business Analysis; and Alan Graefe, associate professor in the Department of Recreation and Parks.

Godbey, Guadagnolo and Graefe are part of Penn State's new Center for Travel and Tourism Research. Erickson said that spending more money than if they do it routinely "is a very good vehicle for moving the initial research program to the new Center for Travel and Tourism Research that's taking shape in the College of Health and Human Development," Erickson said.

Erickson said the study is not complete, and that he and his colleagues are "looking toward the publication of not only results but a number of methodological issues and a number of hypotheses about travel and tourism that we believe are going to flow from this effort."



Rod Erickson answers a question on the economic impact of Penn State football on Centre County. Erickson presented the results of his study to the press in a conference Tuesday at Beaver Stadium.

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BASKETBALL: Open independent - All undergrads, grads, faculty and staff are eligible.

TENNIS: Men's singles, Women's singles, Mixed doubles.
RACQUETBALL: Men's singles, Women's singles.

COST: Softball and Basketball - \$10.00 per person. Tennis and Racquetball - \$2.00 per person.

*NOTE: Each event will require you to play at least once a week, possibly twice. DO NOT OVER COMMIT YOURSELF! Individuals may play for only ONE team in any division. Persons may play for an independent team and a Co-ed team when applicable. Teams may choose to play on Monday or Tuesday/Thursday sequences to avoid conflicts. THIS IS ON A FIRST COME, FIRST SERVED BASIS. Rosters are required at the time of entry.

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Gypsy moths

Student's company offers wasps as relief

By JEANNETTE GIBSON
Collegian Science Writer

Mark Ticehurst, a University entomology student, offers a unique natural method of gypsy moth control. He sells wasps that do only one thing — they kill the caterpillars.

Ticehurst, a doctoral student, runs the National Gypsy Moth Management Group Inc., located in Landisburg, Pa. The company's products include two species of wasps which are parasites to gypsy moth caterpillars.

"The insects (that we produce) occur naturally in other parts of the world," Ticehurst said. "We import one from India and one from Korea, and breed them here."

The wasps, which are as thin as the lead in a mechanical pencil and only one-eighth to one-fourth of an inch in length, do not harm any organisms other than gypsy moths and go virtually unnoticed in the areas in which they are introduced, Ticehurst said.

C.W. Pitts, head of the University's Department of Entomology, noted the chronic problem of gypsy moth infestation and the role that parasites play in their control.

"We will never be totally free of gypsy moth caterpillars," Pitts said. "Our goal is to prevent them from causing a total defoliation state."

Pitts said although parasites are not the solution to the control of gypsy moth caterpillars by themselves, they are certainly a strong asset.

Ticehurst said the two species of wasps his company produces have slightly different life cycles, but each follows a similar pattern.

In 1985, Ticehurst established the Management Group to provide the needed gypsy moth control parasites.

lays one or several eggs — depending on the species — in the body of the caterpillar," Ticehurst said.

"One day later the eggs hatch into parasite larvae that feed on the gypsy moths internally for 10 to 15 days, after which time they emerge from the dying caterpillars and spin cocoons around themselves," he said. "Later they emerge from the cocoons as adults and the cycle repeats itself."

Ticehurst said his company is the only commercial producer of the wasps, which are sold primarily to the Virginia State Department of Agriculture and Consumer Services.

"We are primarily a wholesaler to the government now, but we hope to get into retail in the future," Ticehurst said, adding that his company offers consulting services to customers as well.

Ticehurst explained that beginning in the early 1900s, shortly after gypsy moths were introduced into this country and became a problem, the U.S. Department of Agriculture and state agriculture agencies were playing the major role in raising and distributing the insects.

"The Department of Agriculture and the state agriculture agencies provided funds to state government laboratories for the mass production and release of the parasites," Ticehurst said.

"In the early '60s these funds were reduced, the state governments received less money, and the process of production and distribution of the parasites was slowed down," he added.

In 1985, Ticehurst established the Management Group to provide the needed gypsy moth control parasites.

Del.'s ladybugs horde beaches, feed on aphids

DOVER, Del. (AP) — Itsy-bitsy, teeny-weeny polka-dotted ladybugs are inundating Delaware beaches.

"They would come in herds and attack you while you were on the beach. I'm not kidding," said Pam Denny, 39, of Dover.

But ladybugs, which entomologists call ladybeetles, are helpful because they feed on aphids, according to Paul Schaefer, a Department of Agriculture research entomologist at the Beneficial Insects Research Laboratory, which is affiliated with the University of Delaware.

"The more the merrier," said Jay Windsor, the Sussex County agent from the University of Delaware extension service.

Aphids attack important ornamental trees, such as maples and oaks. Since at least last week, the ladybugs, carried by easterly winds, have been covering the Delaware shore. Most are coming from alfalfa, pea and red-clover fields, where they have been feeding on aphids.

The red, black-spotted insects have gone to the beach to dine before. In 1984, Schaefer said, he found 2,300 ladybugs in a one-meter-long sample along the beach.

Ladybugs were imported from India and France to fight aphids in the early 1960s. They disappeared for several years, reappeared, and then were distributed around the country by a colleague of Schaefer's.

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Tonight! 7 p.m. in 69 Willard Building.

The dual mission of Collegian Inc. is to provide a good college newspaper for Penn State and to provide a rewarding experience for our student staff members.

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