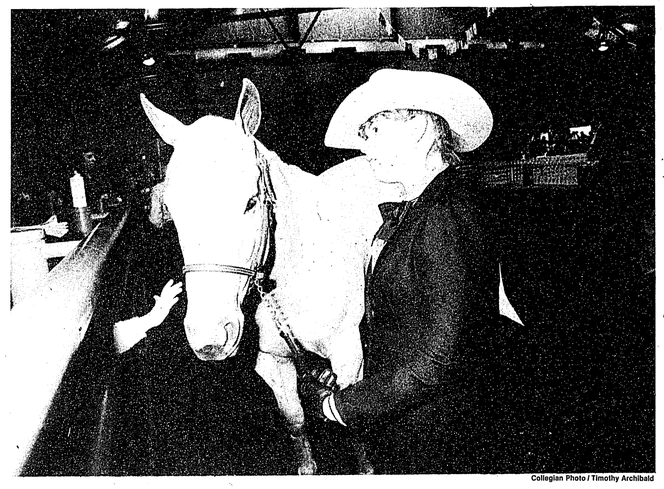

Collegian Photo / Timothy Archibald

No horsin' around

Kathy Jo Meckley (junior-animal production) and her horse wait patiently to be judged at the Brock and Bridle Horse and Agricultural show while an excited youngster reaches out to touch the animal. The show was held Saturday at the Ag Arena.

Greek Week begins with party games

By CAROL CHASE
Collegian Staff Writer

Let the competition begin! Greek Week will officially begin this afternoon when State College Mayor Arnold Addison launches the week by opening greek games at a block party.

Kelley Lynch, Greek Week chairwoman, said the block party, which starts at 4 today at East Fairmount Avenue and Fraternity Row, will be one of several events at which the greek community can show their spirit.

Ben Siegel, Interfraternity Council public relations chairman, said Greek Week is "an end-of-the-year spring bash to unify everybody in a fun atmosphere."

The theme of Greek Week this year is "More than a Party." Because many people think greeks just sit around and get drunk, IFC picked this theme to remind non-greeks that greek organizations contribute a lot to the community, Siegel said.

"With a theme like 'More than a Party,' we're trying to bring out other aspects of greek involvement in the University and the community that often aren't realized as much because they don't get as much attention as the things that everyone harps on," Siegel said.

Greek Week events throughout the week will be:

- Monday — Block Party/Greek Games from 4 to 7 on E. Fairmount and Fraternity Row.
- Tuesday — Carnival from noon to 4 on the HUB lawn and Skits from 7 to 10 p.m. in 301 HUB.
- Wednesday — Chariot Race from 4 to 7 on Fairmount between Garner and Hetzel, and Skits from 7:30 to 10:30 in the HUB Ballroom.
- Thursday — God/Goddess Contest/Dance from 8:30 to 11 p.m. in White Building, and Skits from 7 to 9:45 in the HUB Ballroom.
- Friday — Skit Finals and Awards at 7 in Eisenhower Auditorium.

Anyone in the University and local community is welcome to attend the events, Siegel said.

Greek week this year differs from other years in several ways, Lynch said. To promote spirit and unity in the greek community, a spirit competition was initiated in which teams earn spirit points for attending events, she said.

Also, smaller events like a movie night and swim night took place last week so greeks could "relax, have fun, and just enjoy being a Penn State student," she added. "These events were to remind everyone that being greek is more than just competing," she said.

In previous years, no money was earned for philanthropies, Siegel said. But this year, carnival proceeds will benefit the Special Olympics, he said. At the carnival, game booths will be set up by greek organizations, and tickets to play will cost five cents, he added.

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Lab expected to open this summer

By CHRISTINE KILGORE
Collegian Science Writer

A new fluid mechanics laboratory developed by the mathematics department for experimental research and interaction between mathematics and other disciplines is expected to begin operating this summer.

Jerry Bona, professor of mathematics and one of the laboratory's founders, said the $250,000 lab, being built in McAllister Building, will be used by faculty and student researchers to compare laboratory measurements with mathematical models and equations developed to describe fluid motion.

Although a few individual mathematicians have similar laboratories, this is the first mathematics department-based lab in the country, said Bona, who has teamed up with mathematics Professors William Pritchard and Rideway Scott to work on the lab. All three joined the faculty last fall, he said.

"We will all work on fluid mechanics, but we're all different. Pritchard is an experimentalist, Scott deals with the numerical aspects, and I am theoretical," said Bona, who has a joint appointment at the University's Applied Research Laboratory. "Having these three points of view doesn't happen much. . . . There is no other lab in a math department anywhere in the country.

"The pure discipline of mathematics is somewhat isolated. There are applied mathematicians but math departments are still isolated from the rest of university communities," said Bona, adding that all funding for the laboratory came from the College of Science.

"This laboratory has already outreached to other departments."

Pritchard, who holds a joint appointment in the aerospace engineering department, said the lab resembles one that used to exist at the University of Essex in England, where he previously worked.

"The idea evolved from the set-up we had in England. Fluid mechanics isn't new — it's an area of physics that's very mathematical," Pritchard said. "It's also an area in which you can do very interesting experiments cheaply."

Fluid mechanics, which includes wave motion and free-surface flow, is a part of almost every technological and industrial process, Pritchard said.

Research performed at the new laboratory, however, will not have direct applications to industry, he added.

"We're trying to understand the science," Pritchard said. "We can take a fundamental process associated with a class of flows and if we can isolate the crucial physics and solve the problems, then the engineer has a role."

Bona pointed to the artificial heart as an example of a technology involving fluid mechanics and "some very complicated fluid flow problems." Pritchard added that fluid flow concepts are important in making emulsions for film.

The mathematic equations that describe fluid motion relate velocities and pressures in the fluid flow, Pritchard said. "We can try and model equations through an experiment or we can take an experiment that's done and try to develop equations (to describe it)."

Most of the equipment and set-ups used in flow experiments will be built by the researchers in a machine shop associated with the laboratory, Bona said.

One piece of equipment already obtained is a regular pipe through which cooking oil will circulate, he said. "There are very delicate measurements to be obtained from the flow," he said. "The experiments may look very simple, but they're really very complicated."

Pritchard said flow speeds and fluid viscosity — the degree of resistance to flow under pressure — will constantly be adjusted in the experiments.

"Materials are characterized not just by viscosity but by the scale of the experiment. If you take a small animal swimming through water, it will find it very viscous, but a large animal like a whale would find the water very thin," Pritchard said. "Similarly, if you move through water very slowly, it will seem more viscous than if you were moving through it faster."

Bona said understanding how fluid flow changes and how to take accurate measurements without disturbing the flow will be a critical parts of the research.

Computers will be used to take data from the experiments and perform various calculations and mathematical manipulations, Bona said. Researchers will have access to the a very high speed fiber-optics connection called a T-1 line that runs to Princeton University's supercomputer center.

Bona and Pritchard said the laboratory will give student researchers problem-solving experience and an advantage in the job market.

"This will give students a greater perspective," Pritchard said. "We have real-life problems to solve."

A public awareness of "real-life" problems, such as those that will be confronted in the University's new laboratory, and the important role that mathematics plays in solving them is the focus of this week's National Mathematics Awareness Week.

"So many things we do now need mathematics," Bona said. "You name a subject matter and we'll find mathematical applications."

Miss Black PSU

Collegian Photo / Dan Oleski

There she is . . .

Stephanie Brown (sophomore-corporate wellness) receives a kiss from a supporter after she accepted the title of Miss Black Penn State last Tuesday night in the sixth annual event. She beat out nine other contestants to win the contest.

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