By JEANNETTE GIBSON Collegian Science Writer

of fire shoots from an oil well and transforms the petroleum engineering. rig into a towering inferno with a blaze that rises several hundred feet in the air.

polluted by gas and dust, leaving miners — who said. may be working up to three miles away from each He noted that the simulator at the University is other — surrounded by air that is dangerous to the only one in the northeastern United States and in the mining ventilation laboratory during the

While those scenarios are fictionalized, the to certify off-shore drillers.

Through the use of two unique pieces of equip- without penalty." and the Mine Ventilation Laboratory — students in can learn to deal with potentially catastrophic the College of Earth and Mineral Sciences have problems in the early stages in order to prevent an the opportunity to learn to deal with these types of situations before they assume actual on-the-job

The simulators provide the best available substitute for field experience and the potential to he said. prevent tragedies, such as oil rig blowouts or black lung disease, an affliction resulting from poor Students enrolled in Petroleum and Natural Gas lab was already in place," Ramani explained, safety training,

451 spend 15 hours a semester with the oil rig "Trap doors in the basement of the building allow simulator which is located on the second floor of students to enter and experience the environment the Mineral Sciences Building, said Stan Supon, of an actual mine shaft." A sudden explosion rocks the earth as a column who is in charge of the lab and an instructor of

dents with valuable training that they would not The benefit of simulated mining experience for A ventilation failure results in air that is quickly get otherwise until they are on the job," Supon students is similar to that received by students

death and destruction caused by an actual oil rig "We are one of the very few universities to have blowout or ventilation failure are very real for a machine of this magnitude," Supon said. "We

engineers, said a University petroleum engi- are able to let students in a drilling lecture apply neering instructor and a professor of mining the class material to a simulated real situation which allows them to learn and to make mistakes ment — the Simtran Drilling Rig Floor Simulator The benefit of that experience is that students

actual disaster. Ramani said the mine ventilation lab at the positions, said R.V. Ramani, professor of mining University is "a tremendous substitute" for experimentation at an actual mine site. "You cannot get any closer to the real world,"

"Two underground tunnels were included in the Ramani said.

Three large fans are used to draw air in and out of the concentric tunnels, with different blowing "The (drilling rig) simulator provides the stumodes possible, Ramani added.

who work with the oil rig simulator. Students spend approximately 24 hours working is officially licensed by the Department of Interior semester, where they receive training that is "absolutely critical for health and safety in mining engineering." Ramani said.

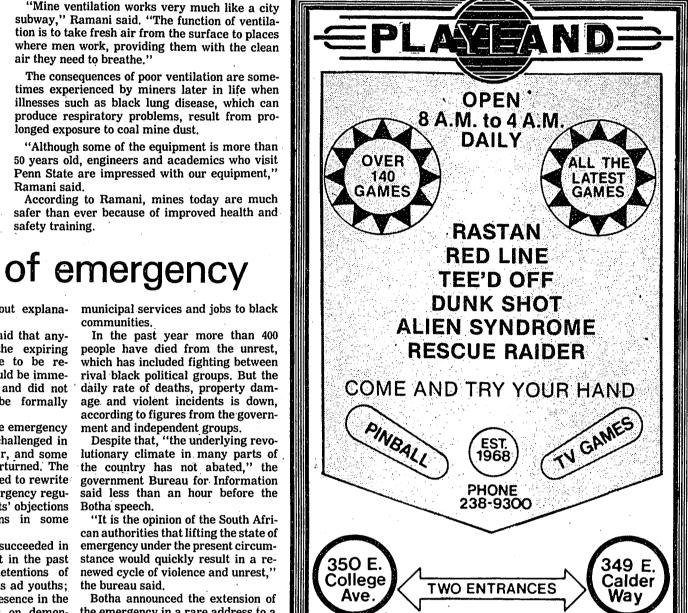
"Mine ventilation works very much like a city subway," Ramani said. "The function of ventilation is to take fresh air from the surface to places where men work, providing them with the clean air they need to breathe."

The consequences of poor ventilation are sometimes experienced by miners later in life when illnesses such as black lung disease, which can produce respiratory problems, result from prolonged exposure to coal mine dust. "Although some of the equipment is more than

Penn State are impressed with our equipment," original design of the Mineral Sciences Building According to Ramani, mines today are much more than 50 years ago, so the groundwork for the safer than ever because of improved health and

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Botha renews S. African state of emergency

Associated Press Writer JOHANNESBURG. South Africa — tablishes a racially segregated socie- one detained under the expiring people have died from the unrest, President P.W. Botha said vesterday ty in which South Africa's 24 million emergency would have to be re- which has included fighting between he had renewed a national state of blacks have no vote in national af- leased, but that they could be imme- rival black political groups. But the emergency that during the past year fairs. The 5 million whites control the diately detained again and did not daily rate of deaths, property damhas given police wide powers to crack economy and maintain separate dis-necessarily have to be formally age and violent incidents is down,

down on people protesting apartheid. tricts, schools and health services. freed. state of emergency once more in the cuted" last June still exists. national television. "I have already without charge since then, but the cases.

Botha's June 12, 1986, state-of- being held.

emergency for up to a year.

lice to restrict freedom of speech, press and assembly were due to express and assembly as a fining to express and assembly were due to express and assembly as a fin pire at midnight today. The new leaders had been released from degrams to provide houses, basic Parliament.

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tion.

"Considering the safety of the pub- Botha said the background Many provisions of the emergency ment and independent groups. lic and the maintenance of public "against which deeds of violence and regulations have been challenged in Despite that, "the underlying revoorder, I have decided to proclaim a unrest were being planned and exe- court over the past year, and some lutionary climate in many parts of sections have been overturned. The the country has not abated," the whole of the republic, including the When Botha declared the emergen- government was expected to rewrite government Bureau for Information self-governing national states (black cy last year, he cited statistics on portions of the new emergency regutribal homelands)," Botha told Parincreases in public violence. More lations to meet the courts' objections Botha speech.

signed the documents in this connec- government indicated earlier this The government has succeeded in emergency under the present circummonth that just over 3,000 were still sharply reducing unrest in the past stance would quickly result in a reemergency decree and a series of The Detainees Parents Support black activists, militants ad youths; the bureau said. related regulations empowering po- Committee reported a few hours be- heavy security force presence in the

liament in a speech he repeated on than 20,000 people have been detained and tighten restrictions in some "It is the opinion of the South African authorities that lifting the state of year through mass detentions of newed cycle of violence and unrest,"

decree legally extends the state of tention yesterday without explana- municipal services and jobs to black By law and custom, apartheid es- Some legal experts said that any- In the past year more than 400 according to figures from the govern-

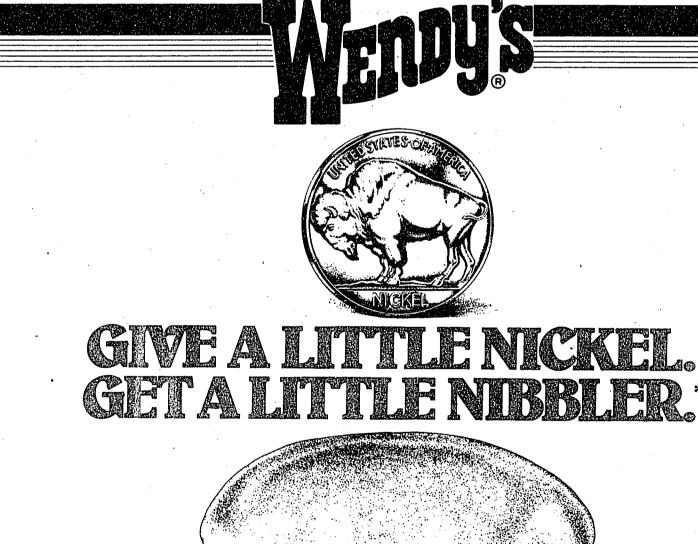
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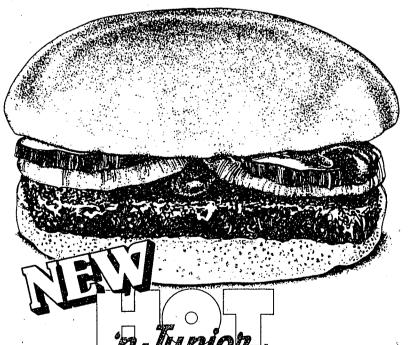
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notes

Plaza today at noon.

Collegian Science Writer

plant doctor, of course.

explain how to treat it.

homeowners." he said

mens from all over the state.

police log

Fisher Plazá tonight at 8.

Bureau of Police Services said.

• The HUB Craft Centre will hold an open house tonight from 7 to 9.

Most people know what to do when they get sick,

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John Peplinski, commonly known as the "plant

diseased plant, he can diagnose the disease and

across Pennsylvania as well as Pennsylvania

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the University's Cooperative Extension Service, plants.

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appreciated.

doctor," said if someone gives him a sample of a Plant Disease Clinic.

lot 80, University police said.

Peplinski, coordinator of the University's Plant ourselves if people bring them to us," he said. He put people out of business," Harkcom said.

clinic or the extension service.

ries, and the other half come from homeowners, he others across the state, primarily keeps in touch plant pathology department.

4pm-2am

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tion as Centre County Register of Wills.

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Roger A. Bierly

Register

Disease Clinic, diagnoses problems in plant speciadded that individuals who want to send their Peplinski said he is responsible for every sample

"We get samples from commercial growers Clinic Kit, which can be obtained from either the sent from the extension office and those brought

cial growers, including greenhouses and nurse- tic clinic. The Centre County office, as well as happens, he consults with other members of the

with growers to let them know if there are any

Peplinski said he also works in conjunction with prevalent diseases they should watch for in their (Peplinski) up in our area of expertise," said Gary

possible for some specimens to be identified in his
Communication is very important, particularly

office, the majority are sent to Peplinski at the for commercial growers who depend on plants for

"We give information on how to get a sample "It can be really important that we diagnose and

sent in (to the clinic), or we will take them in get in touch with people because some things can

specimens directly can use the Plant Disease that comes into the disease clinic, including those

Harkcom said the extension office is really However, he added, at times he runs into dis-

"more of an educational branch" than a diagnos- eases with which he is not familiar. When that

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• The Graduate Student Associa- • A \$44 car emblem was reported • A wallet and dorm key valued at • A dog was apprehended near tion will show From Mao to Mozart in missing Tuesday by Jan Hagen-Fred- \$29 was reported missing by Dave Grange Building and taken to the eriksem, 315 S. Allen, State College Trobert, 419 Atherton Hall, University SPCA, University police said.

• University Police Services said • Vehicle trim valued at \$20 was alcoholic beverages was referred to they ordered a vehicle parked in a reported missing by the vehicle's the office of student conduct stan-• Summer Session Diversions will traffic lane on Shortlidge Road towed owner, Ted Perry, 801 Southgate dards after they refused to produce sponsor a music recital in Fisher after an unsuccessful effort to locate Drive, while it was parked in parking identification. Police said both were

"Each of our faculty members backs

Moorman, assistant professor of plant pathology.

 University police said one of two persons found in Ewing Hall with found to be over 21. -by Karl Hoke

12.6 p.m. Plant doctor takes over where green thumbs fail Thurs. 12-8:30 p.m. which sends him specimens from its various Communications methods include monthly offices which are located in every Pennsylvania newsletters sent out by the extension service county offices as well as the extension computer Featuring a Complete Line of Scott Harkcom, assistant agent for the extension service, a system people can hook their home service in Centre County, said that although it is computer into by contacting their county agent. New and Used Clothing,

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