#### By FRED BAYLES **Associated Press Write**

BURLINGTON, Mass. — Sometime in the early hours of June 11, John Zemotel, a 31-year-old technician at a Route 128 high-tech firm, either deliberately or accidentally inhaled arsine gas, a toxic vapor used to cook circuits into high-speed

microchips. In hours, Zemotel was in a hospital, his kidneys failing. Eleven days later he was dead. Occupational safety experts and union organizers say Zemotel's death dramatizes the dangers

lurking in the laboratories and production lines of the nation's booming technology industries. The critics deride the public notion of high tech as a "clean industry," where workers in white lab coats worry more about contaminating their product than contaminating themselves.

"The myth has got to be debunked," said Ken Geiser, an associate professor of urban and environmental policy at Tufts University. "It is not that high tech is dramatically more dangerous than other industries. It is the perception that it is cleaner and safer that is dangerous." But industry officials say isolated incidents have

been overplayed and claim one of the best safety records in U.S. history. "You talk to all the environmental affairs and Environmental Protection Agency people and they've been saving the high tech sector has a very high health and safety record," said Charles Baker, a spokesman for the Massachusetts High

Technology Council. The American Electronics Association estimates some 2.4 million people work for companies incidence of cancer in the respiratory system. producing or using electronic components; in

sun and its rays — not by the random

The study by Dr. Robert Hope-Sim-

pson of Britain's Epidemiological Re-

search Unit, published in the latest

Journal of Hygiene, researched all

major flu outbreaks around the world

Hope-Simpson said current medi-

cal opinion that the flu virus travels

via endless - and sometimes interna-

tional - chains of direct transmission

of the disease from individual suffer-

ers, fails to explain why epidemics

arrival of alien viruses.

between 1964 and 1975.

tend to be seasonal.

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LONDON (AP) — A new study the "midsummer" curve, when the

triggered by global movements of the The data showed that, for example,

suggests that influenza epidemics are sun is directly overhead.

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'Many illnesses may not be recognized as work-related and many illnesses don't show up until after the worker has left the firm.'

High tech industry safety is questioned

—Jack Barry, Boston region Labor

that those in the business of manufacturing electronic components and accessories have an accident and illness rate nearly half the national

In 1982, the last year of complete figures, high percent incidence of injury and illness, compared to 10.2 percent for all manufacturing jobs. But Jack Barry, chief of occupational safety and health statistics for the Labor Department's Boston region, said the numbers didn't reflect problems that could crop up years later.

"Many illnesses may not be recognized as workrelated and many illnesses don't show up until after the worker has left the firm," he said. Few studies have looked into the long-term health effects of the high tech workplace. Geiser mentioned a 1983 study in the British Journal of Industrial Medicine, which reported that electronics workers in Sweden, whose health was tracked over a past decade, had a higher than average Geiser also said a 1980 report by the California

Flu outbreaks may be caused by sun

two widely separated localities on the

same line of latitude - Prague and

Cirencester, England — had a series

of simultaneous flu outbreaks caused

by the same virus between 1969 and

A comparison between England

and New South Wales in Australia,

two regions on latitudes roughly equi-

distant from the equator, further

revealed that the same virus sparked

off epidemics in both locations some

six months apart

tern, with the so-called flu seasons tion in the sun's movements along epidemic, he said.

tors that was three times the norm in other manufacturing industries.

The hazards have not gone unaddressed. Industry and labor recently agreed to a new Massachusetts law that requires manufacturers to tell employees about toxic substances and their effects. The law goes into effect later this year. But Geiser worries that exotic chemicals used in high tech industries may be exposing workers to

Solvents like trichloroethane and methyl ketones, used to make microchips, are known to affect the human central nervous system. Epoxies boards are suspected carcinogens.

unknown health risks

Others fear the long-term effects from the production of gallium arsenide microchips, cheaper tech manufacturing workers nationwide had a 5.8 and faster components that may someday replace

> cause of skin and lung cancer and behavior changes, including mood swings and paranoia. Zemotel's employer was MA-COM, which makes telecommunication components. The company had transferred Zemotel from arsenide gallium chip production when a routine health check in March found his urine contained higher than

But MA-COM officials say they have witnesses and a deathbed statement by Zemotel to prove he went into a room without authorization, removed a Department of Industrial Relations had raised panel from the cabinet containing the gas tanks, questions about the immediate health effects of took off a protective cap and released a stream of U.S. Bureau of Labor Statistics figures indicate the high tech workplace. That study reported an gas into his face.

become for a short period intensely

Such phenomena occur because the seasonal

variation in the sun's movements along each line

of latitude activates the latent flu virus existing

- Dr. Robert Hope-Simpson of Britain's Epidemiological

areas. He did not explain how the virus is reactivated, such carriers

The latent virus is carried in the infectious to their non-immune com-

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in those areas. He did not explain how the

activation occurred.

activation occurred.

Hope-Simpson said such phenome- tissue of people who suffered and panions, he said.

occurring around the earth's surface each line of latitude activates the Though themselves immune from a and inflammation of the respirator

in a curve roughly six months behind latent flu virus existing in those recurrence of the illness, when the mucous membranes.



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traffic from the area. Traffic control personnel buildings.

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Rho fraternity house, 425 Locust

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folding attached to the house and

ing to nursing supervisor Mary

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due to bare

wall glare?

traffic around State College, is scheduled for

completion by Sept. 1, the director of University

David E. Stormer said the project, which began

in May, is part of the State College bypass con-

struction, which will connect Park Avenue, the

The bypass will be completed in 1986 in response

to a demand in State College for additional routes.

Stormer said the tie-in to Park Avenue will be a

major University entrance and will allow access to

He added that Pennsylvania Department of

Transportation workers could have finished the

work last week, but were hindered by wet weather

Stormer said traffic normally on Park Avenue

and University Drive will be routed to Curtin Road

until Sept. 1. Other roads in the area will be

Stormer said the Sunday arrival date for fresh-

men and transfer students was helpful because

"We didn't have the faculty, staff and norma

Beth Smollon (sophomore-pre-law) said it took

"(The traffic) made it really miserable for

people trying to move in," Tracey Bentzel (senior-

road behind Parking Lot 81, to the bypass.

Safety said last week.

extend to the hospital.

during the summer months.

weekday traffic," he said.

contend with some traffic

dled it really well, though."

temporarily designated as one way.

However, many arriving stude

21-year-old man dies in fall from scaffolding Borough police are still investito his death early Friday morning

gating the incident, but no further information was available, Stuller Kerry Holsinger of 230 E. Maple University Police Services, although not involved in the investigation, reported yesterday that

Holsinger was a senior at Elizafell about 40 to 50 feet when the bethtown College and was apparscaffolding apparently came loose ently just visiting State College. from the building, said State Col-He attended Summer Session at lege Police Corporal James Stul-University Park campus Holsinger is survived by his parents, Mr. and Mrs. John Holimbulance where he was pro-

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# campus, aimed at rerouting trucks and through Centre Community Hospital. Park Avenue will

Workers oversee construction that has been taking place all summer at Park Avenue and Bigler Road.

individual and family studies) said. "People han- also kept the congestion to a minimum. "We will just have to bear with it because there Stormer said motorists should allow an extra 15 will be congestion," Stormer said. Notices in the faculty and staff newsletter, to 20 minutes if driving in the affected area this He said the final coat of asphalt was put down television releases and letters to departments in week, especially from 4:30 to 6:00 p.m. He sug- Wednesday. Motorists can look for new traffic Shields and Wagner helped keep unnecessary gests that students walk to the administration lights at University Drive and Shortlidge, Bigler

### USG Senate spends weekend acquainting itself with issues and setting semester's goals

"We want to put a lot of them

-by Steve Wilson

The Undergraduate Student Govern- the senate is going to combine some ment Senate left the hustle and bustle of its committees and narrow down of State College this weekend to get each one's purpose. Some of the comits senators better acquainted and to mittees may be eliminated.

lay out semester goals. USG President Adam Levinson together," Cooney said. "That's the said the retreat, held at camp Blue basic idea." Diamond in Mooresville, gave the The senate will also be working new senators an opportunity to learn more on publicity, she said. how USG works so they can make an "It still takes a lot of effort for "educated" start on the semester. senators to find out what students feel

"There's a lot of new senators and and vice-versa," Cooney said. "In the Adam (Levinson) thought it would be past, we've had a problem with visia good idea (for them) to get away. . . to get to know each other,"

Senate President Kate Cooney said

cost \$100, was funded through Associated Student Activities.

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## collegian notes

• The Penn State Juggling Club • The Newman Student Associa-will hold its first meeting of the Fall tion will sponsor a special mass to Semester at 8:30 tonight in 133 White celebrate Fall Semester at 7:30 tonight in Eisenhower Chapel.

 The HUB Craft Centre will sponsor a craft sale between 10 a.m. and 4 p.m. today, Tuesday and Wednesday police log on the first floor of the HUB.

• The College of Education is offering a two-credit College Reading

• Anthony Smith, 2215 Circleville Improvement course Mondays and Road, reported yesterday the theft of Wednesdays, fifth, sixth, and seventh his wallet from his car between midperiods during Fall Semester. Those night and 1 a.m., University Police nterested should register for the Services said. Smith's car was course at the College of Education parked in Parking Lot Orange B

• Fall Orientation Tours for gradp.m. and 4 p.m. today in Pattee.

at 7 tonight in 323 Sackett.

uate students will be held at 10 a.m., 2 • Kurt Murray, 121 N. Gill St., told University police his bicycle was • The staff of the Penn State EngiWillard. The bike is valued at \$389, neer Magazine will hold a meeting for persons interested in the publication police said.

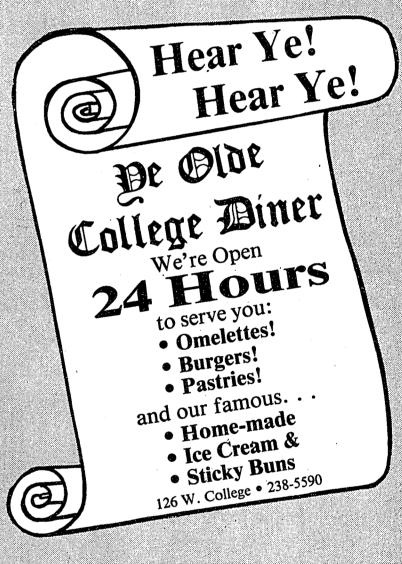
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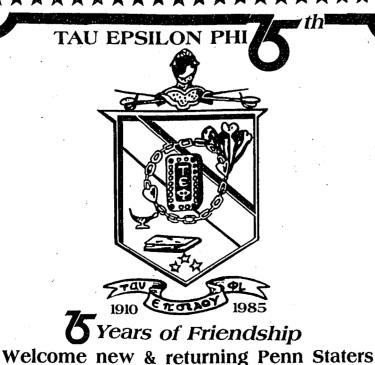


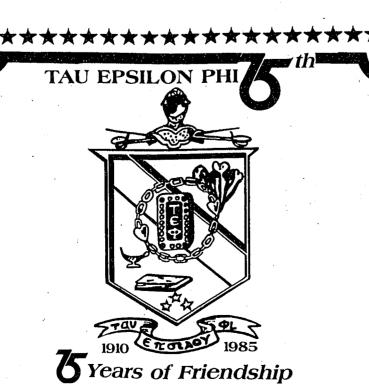
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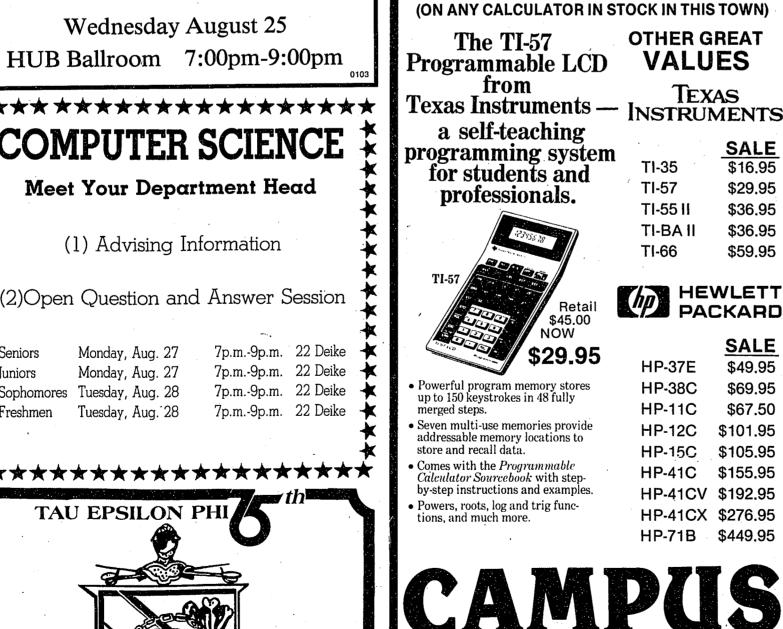
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