Country reacts to shuttle explosion with grief

Associated Press Writer

By SCOTT McCARTNEY

Associated Press Writer

crews grew, White said.

no parachutes, White said.

Shuttle-

after liftoff, he added.

It is doubtful any escape mech- said.

first civilian astronaut watched the shuttle families of the crew. Challenger explode on live television yesterday in the world's worst space catastrophe. At first there was just stunned silence.

Silence in the bleachers at Cape Canaveral, where families, friends and fans of the seven Challenger astronauts watched the liftoff. Silence in classrooms where schoolchildren were rooting for space teacher Christa McAu-

"This isn't real, is it?" McAuliffe's students at Concord (N.H.) High School murmured as the horrible image of the Challenger suddenly crew.

turning into a fireball

family quarters, first lady Nancy Reagan exclaimed, "Oh my God, no!"

Challenger crew had

no means of escape

SPACE CENTER, Houston — The tank, said John Lawrence, a NASA

astronauts aboard the space shuttle spokesman, but he said it would not

Challenger had no way to escape the have helped yesterday's crew be-

vehicle once it left the launch pad, a cause the blast came without warn-

NASA spokesman said yesterday. ing.
Astronauts aboard Apollo, Gemini Mercury and Apollo space capsules

and Mercury missions could be had an escape rocket that would blast

ejected from their spacecraft, and the crew's capsule to safety in an

astronauts aboard the first four space emergency. Gemini astronauts had

well, spokesman Terry White said. "With small craft that was practi-

But the ejection provision was re- cal But the shuttle was too big.

had today," White said.

the cause of the explosion.

the safety of the crew," he said.

ty engineering students flew on the

moved once the program advanced You had people on two decks and

shuttle missions had ejection seats as ejection seats, White said.

said. "It's basically like a commer- 27, 1967, on the ground.

shuttles have hatches through which out," White said.

Conversation between mission con- last shuttle mission.

trol and the Challenger seemed nor- Melton said yesterday's disaster

mal until the radio went silent at will probably put the shuttle program

11:39 a.m. EST — just 60 seconds on hold while investigators unravel

However, Melton said, internal "I think it may be a long time

communications between the shuttle before there are any more launches

and ground control exist, which are in the shuttle program," Melton said.

not released to the public. Also, Chal- "(NASA) may have taken some

lenger's onboard computers are in alternate steps in preparation for

constant communication, called te- launch, but I don't think they would lemetry, with mission control, Melton have done anything to compromise

Melton said. A series of three experiball. The satellite was to be released

ments designed and built by Universi- into orbit by the Challenger crew.

Reagan postponed the State of the Union also voiced the hope that NASA would send shocked silence as the NASA loudspeaker

as the families of the others on board." clutched each other in tears.

the television in the school auditorium flashed EST today in remembrance of the Challenger exploded.

Secretary of Education William J. Bennett classmates, standing behind a "Go Christa!" Disbelief turned to deep sorrow, and silence issued a statement in Washington urging banner, were among the witnesses. to sobs as it became clear that no one could American schoolchildren to "be proud of Scott and his 6-year-old sister, Caroline, us," it said. Christa McAuliffe, one of your teachers, and were with their father and other family mem-At the White House, President Reagan of the other brave Americans who were will-bers in a nearby observation building. But

National Education President Mary Hat- daughter's life from the grandstands. wood Futrell expressed shock and sorrow, but The Framingham, Mass., couple stood in needed our prayers and our love."

The shuttles do have levers astro-

nauts can pull to separate the orbiter

from its rocket boosters and fuel

message he was to deliver last night. Instead another teacher into space soon. he delivered an Oval Office address on the "I would hope that the lessons that Christa" then walked up to them and said, "The vehicle Jubilation turned to horror across the natragedy to the nation and sent Vice President planned to teach will be taught. ... I think has exploded. tion as Americans cheering for the country's George Bush to convey his sympathies to the that's what Christa would want," she said.

Futrell spent most of the past week at Cape words as a question. "It's a terrible thing," Reagan told report- Canaveral in pre-launch seminars and festivi- The official nodded his head and the Corriers. "I just can't get out of my mind her ties with the nine other finalists and more gans were quickly led away. (McAuliffe's) husband, her children, as well than 100 other teachers who represented their third weather postponement of the launch. heads and wiped tears.

changes planned a minute of silence at 11 a.m. screams and anguished wails when the shuttle and his classmates released a statement Nine-year-old Scott McAuliffe's third-grade

wordlessly viewed video replays of the Chaling to take great risks for the good of our Christa McAuliffe's parents, Ed and Grace spirits and our hearts were as close as possi-Corrigan, saw the tragedy that claimed their ble to Christa, her crewmembers and their

broadcast the terrible news. A NASA official

A stunned Grace Corrigan repeated his

Many of the 114 semi-finalists for the teach states in the teacher-in-space competition. er-in-space spot on the shuttle were in the In Houston, Mission Control workers She returned to Washington Monday after the bleachers. They stood quietly, shook their Several states flew flags at half-staff and At Cape Canaveral, about 200 NASA guests, "I'm horrified," David Staples, a colleague legislatures drafted statements honoring the many of them relatives and friends of the of McAuliffe's in Concord, said as he fought

astronauts, watched the Challenger liftoff back tears. "It's just unbelievable." The New York and American stock ex- from bleachers. Their cheers turned to Hours later, chaperones for Scott McAuliffe before boarding a plane to head home. "We know we are joined in our sorrow by

our fellow Americans and by people the world over who have experienced this tragedy with The statement said the group found "a kind

'If we die, we want

and we hope that if

anything happens to

people to accept it. We

are in a risky business

us, it will not delay the

program. The conquest

Virgil I. 'Gus' Grissom,

one of the seven original

Mercury astronauts, who

was killed when the Apollo 1

capsule caught fire on the

of space is worth the

risk of life.'

crashes. loved ones at the moment when they most

> He had also been the first astronaut o manuever a spacecraft in flight and the first to fly two missions - the second Mercury flight and the first in

eagerly awaiting his first flight. The three men were in the cockpit

fee's, uttered the dread cry: "We've got a fire in the cockpit!"

intense. Flames from the burning polyurethane foam floor cushion flared between the astronauts and the hatch that was their only exit. Technicians listened, horrified, to a garbled transmission. A sharp cry of pain was heard.

310-foot gantry grabbed gas masks and rushed to the cabin level. Their gas masks were ineffective, and all 27 were treated for smoke inhalation. They were valiant, but they couldn't help. The astronauts died in seconds What caused the fire? More than 1.-500 experts dissected the charred cockpit and studied blobs of melted metal from the 15 miles of wiring. They said the fire probably started when a broken or bruised wire contacted metal, shooting sparks into the cockpit's nylon netting, which prevented loose objects from floating into crevices during weightlessness.

In 1981, a dozen years after Americans walked on the moon July 20, 1969, the United States sent aloft its first space shuttle. The doomed Chal-Yesterday in Mitchell, Ind., Gris-

Dennis Grissom said his son was

hing happened to him, they (Grissom and the other astronauts) wanted the space program to go on.'

Apollo 1 fire: 19 years and

Challenger exploded 19 years and one day after another fiery disaster shocked the nation and threatened the American space program. On Jan. 27, 1967, three Apollo astronauts were incinerated in their space capsule as it sat atop a Saturn rocket on the launching pad. Killed were Air Force Lt. Col. Virgil 1 "Gus" Grissom, Lt. Col. Edward H White and Navy Lt. Cmdr. Roger B. Chaffee, who were performing tests for what was to be the first manned

Apollo flight. killed in a space vehicle. Three other astronauts had died in airplane

ocean splashdown.

the Gemini series.

can to walk in space. Chaffee. 31. was a rookie astronaut Jan. 27 to check several major sys-

At about 6:30 p.m., there was a shout on the communications system. Seconds later, a voice, probably Chaf-

cockpit's pure oxygen, the fire was

In less than 25 seconds, pressure ruptured the inner hull and clouds of toxic smoke filled the cockpit. For a moment, fire enveloped the outside of

som's parents said the disaster had

always aware of the odds "He said that he knew it was dangerous," Grissom said, "but if any-

a day before By LAWRENCE KILMAN Associated Press Writer

NEW YORK - The space shuttle Many Pell Grants will be reduced, origi- If Congress fails to institute specified defi- million, respectively, she said.

will all be cut.

They were the first U.S. astronauts

Grissom, who was 40, had been a space pioneer. One of the seven original Mercury astronauts, he had piloted the United State's second manned flight in July 1961 and had to swim to safety when the capsule sank after its

White, 36, had been the first Ameri-

tems in preparation for the scheduled Feb. 21 launching, which was to be the first of the three-man Apollo flights that led to landing men on the

They never had a chance. In the

Twenty-seven men working on the

lenger launch was NASA's 25th. brought back a lot of memories.

from the testing phase and the size of crews of up to eight. How would you launchpad on Jan. 27, 1967 arrange something like that?" White anism would have helped the Chal- The Apollo escape tower, which lenger crew in yesterday's explosion, was designed to pull the capsule off the rocket and parachute it to safety, "After launch, there is no egress was never used, even in the flash fire except for an intact landing," White that killed the crew of Apollo 1 on Jan. cial aircraft. How do you rescue 300 The first four test flights of the shuttle Columbia, each carrying two-The shuttles and other NASA space man crews, were equipped with ejecvehicles have emergency slides on tion seats much like those on a jet launch pads for the crews, and the fighter, where the pilot can "punch the crew could escape in the event of But there never was any intent in an emergency landing or a belly the program to allow for in-flight crash into the ocean. The shuttle ejection and "no provisions for escarried life rafts and survival kits but cape in a catastrophic failure like we

Moments after liftoff yesterday, everything seemed normal for the space shuttle Challenger

the Challenger crew



ailing solar satellite.

ranked No. 1 in his senior class lantry with Silver Star. have a daughter. Kathle. 25. ison, 14, and Erin, 8.



5, 1949, in Akron, Ohio.

Scobee's son. Richard, 21, is the Vietnamese Cross of Gal. An electrical engineer, she tellite space communications. received a bachelor's degree at the Air Force Academy. Sco- Smith and his wife, Jane, had from Carnegie-Melion Universibee and his wife, June, also three children: Scott, 17, Al- ty and a doctorate from the had two children, Reginald, 3, and Joy, 1. University of Maryland.



Carolina A&T State University, and a doctorate in physics from Massachusetts Institute of Hughes Research Laboratories in Malibu, Calif., he conducted laser research in satellite-to-sa-

McNair and his wife, Cheryl,



June 24, 1946, Kealakekua, Ha- 24, 1944, Detroit.

Onizuka and his wife, Lorna,

Jarvis was a Hughes Aircraft Framingham, Mass. Onizuka, a lieutenant colonel Co. engineer who was flying on McAuliffe was a high school In the Air Force, was a mission Challenger to test the effects social studies teacher in Conof weightlessness on fluid in cord, N.H., and the first private

An astronaut since 1978, tanks, it was hoped his experi- citizen selected in national Onizuka was a crew member on ments would give engineers competition to fly on the space a secret Defense Department new information on the design shuttle. of liquid-fueled rockets. He earned bachelor's and Jarvis graduated from high training at the Johnson Space master's degrees in aerospace school in Mohawk, N.Y. He Center near Houston in flight engineering from the Universi- earned a bachelor's degree in preparation.



liffe, 37, born Sept. 2, 1948.

achieved the rank of captain. Caroline, 6.

Gramm-Rudman act hits federal student aid programs hard

Collegian Staff Writer

spending cuts under the new Gramm-Rud-

will rise, and federal aid programs adminis- cuts will be made in many federal programs. University students will lose their loans or awards be reduced, but we don't know what tered by colleges - Supplemental Educatio- by the Office of Management and Budget, the grants. nal Opportunity Grants. National Direct General Accounting Office and Congressional Student Loans and work-study programs — Budget Office.

Raphael, chairman of the Government Rela- defense programs. GRC is an Undergraduate Student Executive versity's Office of Student Aid, said that 30 now withheld. Council committee responsible for coordinat- percent of the federal budget is affected by Also, the interest paid to lending institu- year," Boyd said, adding that he is not sure if It could have an impact on certain students ing University lobbying efforts in Harrisburg Gramm-Rudman. and Washington, D.C.

nation fees for Guaranteed Student Loans cit reductions each year, across-the-board Boyd said it is too early to tell how many said. "This appears to require that individual

billion to zero in five years.

Though needs must be approved

Other agencies to receive fund-

Miller said the program's funds

are spent for the weatherization of

homes, schools and hospitals. The

program also offers assistance to

The goals of the energy assis-

tance program parallel the 1983

rize buildings that house the nee-

utility bills, promote energy con-

servation or find cheaper energy

"This court award has been

dv. help low-income residents pay

"Of all the domestic programs subject to Boyd said.

percent for fiscal year '87. The cuts aren't too receive some type of federal aid, Boyd said. point."

Under Gramm-Rudman, a federal budget- bad this year, but 1987 gets kind of scary." Raphael said including Commonwealth balancing law, the Department of Education The Gramm-Rudman act, signed into law campuses, 27,000 students receive GSLs, and work-study programs will be imposed to be a lot more successful is required to cut spending by \$170.9 million last Dec. 12 by President Reagan, is a bud- which is a total of \$50 million for this pro- Jul. 1 for the 1986-87 school year, and will Raphael said the GRC urges students to get for the fiscal year 1986 — with federal student get-balancing measure designed to reduce gram. Fourteen thousand students receive represent a 4.3 percent cut. aid programs suffering substantial reduct the annual deficit from the current \$212 Pell Grants and 3,000 students receive

For fiscal year 1986, \$11.7 billion is to be cut current origination fee of 5 percent will rise to that grants to the needlest students, or the This reflects a 4.3 percent automatic cut in from current programs - \$5.85 billion from 5.5 percent for loans made on or after Mar. 1. largest grants awarded, would remain the Boyd said when cuts get larger in the all federal student aid programs, said Edith domestic programs and \$5.85 billion from This means that for a student borrowing the same, and grants to the less needy would be future, the reductions could affect enrollment maximum \$2,500, the bank will retain \$137.50 reduced, he said. tions Committee for Washington, D.C. The William Boyd, acting director of the Uni- (for the government) as compared to \$125

tions will be reduced from 3.5 to 3.1 percent, smaller Pell Grants will be cut completely. in a very narrow band - not being able to

will be cut approximately \$150 million," Boyd in aid. the average size of the reductions will be." Reductions in the GSL program will go into When the Pell Grant program is cut, linear effect on Mar. 1. Under Gramm-Rudman, the reduction will be used, Boyd said. This means

Raphael said the GRC doesn't expect its attend school," he said.

"Cuts this year won't be too noticeable, and the cuts, student aid does not represent a "The interest paid to banks will be reduced lobbying efforts to be too successful this year, student interest will reflect this fact," Ra- disproportionate (amount)," he said. "The by 0.4 percent," he said. "The less attractive but has high hopes for the next few years. phael said. "However, we are anticipating college students will be one group hit hard by phael said. "However, we are anticipating college students will be one group hit hard by phael said. "However, we are anticipating programs are cut by a flat percentage, across the loans are, the less (banks) will want to "We are establishing the mechanisms with participate, but there's no way to measure (if which to fight even harder in the next few student aid is cut the projected 25 to 35 Fifty percent of all University students fewer banks will give out loans) at this years," she said. "Next year, student interest will be a lot higher when we'll actually be Reductions in the Pell Grant, NDSL, SEOG able to see the missing dollars, and we expect

> "What we are hearing at this point is for the stating they are University students and NDSLs. which amounts to \$12 million and \$4 1986-87 school year, the Pell Grant program expressing their concern about the reduction

> > "It's a painless task - students can just write to their legislators and state their feelings about cutting student aid," she said, adding students can also telephone legis lators but writing is more effective.

"A student receiving \$1,500 now might be "There's no way to measure right now if receiving something less than that next the 4.3 percent (cuts) will affect enrollment.

3-yr project to attract business to Bellefonte Pa. to get \$100 million from Exxon judgment valuable resource of information and done in cities like Baltimore and New At the present time those involved Collegian Staff Writer in the project are owners of business-

By JANE KOPACKI

Collegian Staff Writer

Pennsylvania will be awarded by the state legislature, funding up to \$100 million for its energy should aid the Low Income Homes assistance programs after a feder- Energy Assistance Program conal court found the Exxon Corpora-siderably, said Richard J. Miller, president of the Pennsylvania Gas

tion guilty of overpricing oil. The Supreme Court refused to Association. He said the Exxon hear the appeal by Exxon Monday case is the largest overcharging and let stand a 1983 court order case to be awarded to consumers. forcing the corporation to pay over \$2 billion back to their consumers. ing include the state departments Pennsylvania will probably re- of Public Welfare and Community ceive its share from the Exxon Affairs, Miller said. He said the judgment within the next few money will most likely be used for months now that the oil company cash assistance and emergency has exhausted its appeals, said grants for these departments.

Jack Vandenberg, press secretary of the Department of Energy. According to the Warner Amendments, a set of congressional guidelines on overpricing settlements passed in 1981, the funds are distributed by the U.S. Department of Energy to the states involved on the basis of petroleum be spent on programs to weather consumption at the time of the violation. Each state will receive a percentage of the settlement based on the amount of petroleum the state used compared to nationsources for schools and hospitals.

The court ordered that \$200 bil- earmarked for this use," said lion be paid to the U.S. Depart- Jack Stollsteimer, North Central ment of Energy. Under the 1983 Director of the Pennsylvania Puborder, states are to spend the lic Interest Coalition. money on energy assistance pro- He added that "people are algrams and the needy.

The Exxon Corporation was eating and heating." charged with violating former fed- State Senate Majority Leader eral regulations on overpricing oil John Stauffer has proposed a bill from a Texas field from 1975 to to the state senate which outlines

against the corporation began in assistance programs in Pennsyl-1978 and was carried on by the vania.

ready making the choice between

1981, Vandenberg said. He said the how the allocation of such funds award is estimated at about \$92 should be handled. Gregg Warner. million, but with the interest it council to the senate majority may amount to almost \$100 mil- leader, said the bill follows the guidelines of the Warner Amend-Vandenberg said the lawsuit ments but provides for energy

renovation. This approach has would like to see in Bellefonte, considworked since 1979 in many commu- ering the amount of space the town nities across the country, Bellefonte's has, Everett said. Main Street Coordinator, Kevin Clark "We looked at the overall market said, and includes organization, pro- needs and came to the conclusion that Organization is presently the most motion, design, and economic re- it might be successful to take a histor- important point, Clark said. "We structuring. The national organization is "a scale shopping mall, which has been policies and goals."

lefonte, the Centre County seat, is

store fronts and adorn businesses

Through a three-year program

called The Main Street Project,

joins 28 communities in Pennsylvania

with attractive awnings and signs.

a strong lobby in the Capitol for York," Everett said. preservation concerns in commu- Griffin divided his class into groups es, members of Historic Bellefonte With the help of state funding and nities all over the country," he said. and had them develop proposals for Inc., government, civic, organiza-University research, downtown Bel- So far, the approach has been ap- the use of a specific building in Belle- tions, and the community at large, he plied in 26 states. The project is fonte. They used the Bush House, said. getting a facelift that will revamp funded and supervised in the state built in 1868, which was one of the Through promotion, Bellefonte through the Department of Commulargest hotels in Pennsylvania at one wishes to become an attractive place nity Affairs.

The University is involved in the ty to be creative. It's a broad role project through two classes conwhich began last July, Bellefonte ducted by Peter Everett, associate professor of community studies, and that are revitalizing their downtown Robert Griffin, associate professor of A four-point approach developed by planning. the National Trust for Historic Pres- Last semester Everett's class stud-

ervation is guiding Bellefonte in the ied the kinds of businesses consumers

ic building and turn it into a small- have to get community support, set

many aspects of the renovation project, Bellefonte is also using the four-

point plan to conduct its three-year

"Students are given the opportuni- Clark said.

Clark said. He said persons are awarded funding based on the designs proposed. Another financial incentive to get business owners to renovate their est rates for loans. "We want to

est rates through The Main Street Project," he said. The final point of the approach is economic restructuring. This is aggressively recruiting new businesses to expand where there is a needed

A town meeting will be held tomorrow at the Centre County Courthouse concerning the project. A slide presentation will be shown and the four "The goal of the meeting is to make people more aware and to ask them to

ject ends in three years, Clark said

they could continue the renovation

Borkovec said, "Often, worrying

Another student, Luther Miller,

(senior-speech communication)

said he feels that worrying pro-

vides a chance to de-emotionalize

"After worrying," Miller said,

"you are left with a clear picture of

the problem that is not as emotion-

and rationalize the situation.

through community efforts.

help psychology research projects worry but not enough to extinguish

grade in their Psychology 2 class. One University student. Chris

Borkovec's research appeared in Conti, (senior-telecommunica-

Part of his research asked one "Worrying slows you down, in-

"(The results showed) when peo-seems to be a method of resolving

an article in the December issue of tions) said he could not worry on

group of people to worry for 15 stead of coming to a conclusion

minutes, another group to worry about the problem, you tend to

ple brood for a brief period, both problems and anticipating or pre-

Higher admission units approved

necessary for admission to the UniThornburgh's April 1983 address to "I am very pleased that we have versity beginning with Summer Sesthe American Federation of Teachers done this with the cooperation of the

research honor society.

tion to the acid rain problem.

Region plans

support crew

coordinated

emergency

chairman of the admissions, records way through a diverse array of elec-

and scheduling committee. A unit is equivalent to one quarter been emphasized over need."

Gold answered that healong given to the admissions office. of a year's worth of work, which is Faculty Senate Chairman Donald

in which he stressed the need to deans," Rung said. Currently 13 high school units for increase high school curriculum stanthree years are needed for admission dards and emphasized more rigorous College of Engineering, raised doubts

falling asleep in the University's consider themselves non-worriers, thing, the thoughts and images anxiety laboratory located in show signs of hesitation and slower appear to take on a life of their Moore Building. "Since worrying seemed to be The study showed the most adthe main cause (of anxiety) my verse reactions came from the colleagues, Rich Metzger and seve- least amount of time given to wor-

By VALERIE BAILEY

Collegian Staff Writer

Excessive worrying is a main

cause of psychological insomnia, a

University professor has concluded

Thomas D. Borkovec, professor

of psychology, said his research

data on the effects of worrying on

Borkovec's data collection in-

after three years of research.

main thrust of our research on worrying," he said. Borkovec defines worry as "a chain of negative and relatively uncontrollable thoughts and

Borkovec's conclusions are based on 10 research studies he conducted over the last three years that involved 250 to 300 people.

Very few people sit for hours straight and worry."

volved asking participants about those who consider themselves

ral graduate students in psycholo- ry. Borkovec said he was not sur-

gy, and I decided to devote the prised by the results.

Borkovec's advice to worriers

was to set aside a specific time each day to worry, and restrain from worry until that time. "During brief periods of worry

Set a time for worrying, prof says

"Psychology Today."

may be the first to obtain clear for 30 minutes, and a third group worry about it," he said.

the content of their thoughts before chronic worriers and those who a person is worried about some-

decision-making," said Borkovec.

"After all, that's how we worry.

not to worry at all.

to earn points towards their final it," he said.

When asked about her thoughts on worrying, Sheree Hassell, (se-

ally frustrating."

nior-telecommunications) said, "Worrying can motivate you to do (15 minutes), we may provide our-something, but you shouldn't worry The people were mostly Univer- selves with just enough fearful all the time. Life is too short to sity students who volunteered to thinking and imagery to create worry."

University can provide certain re-

However, under current regula- agement services for EC Manage- The municipalities affected by the ties are required to have an emergen- only when the scope of the emergency er to require a municipality to "This is the first time a regiona- Halfmoon, Harris, and Patton Towncy action plan, said Sandra is beyond the municipality's ablility request its services; it does not have lized plan has been developed in ships and State College Borough the jurisdiction to intervene unless Pennsylvania, but similar plans have are left with the option to adopt the the municipality requests it, been successful in other parts of the plan or to continue under their pre-

"It's possible there could be some Lawrence said a communication clues in the telemetry," Melton said. satellite manufactured by the Space There were no experiments from Communications Group of Gaithersthe University aboard Challenger, burg, Md. was destroyed in the fire-



Francis R. "Dick" Scobee, 46, Michael J. Smith, 40, born April Judith A. Resnik, 36, born April Ronald E. McNair, 35, born Oct. Eilison S. Onizuka, 39, born Gregory B. Jarvis, 41, born Aug. Sharon Christa Corrigan McAuborn May 19, 1939, Cle Elum, 30, 1945, at Beaufort, N.C. Smith, a Navy commander Scobee, the spacecraft com- and the mission's pilot, was a specialists aboard, became the He was the second black man mander, also piloted the Chal- decorated Vietnam veteran second American woman in in space, following Guion Blu-

lenger in 1984 on a mission on who had been an astronaut space, after Sally Ride, on a ford. which the crew repaired an since 1980. Scobee entered the Air Smith held a master's degree in cal planist and also the first Force as a mechanic after his aeronautical engineering from Jewish astronaut. high school graduation in 1957. the U.S. Naval Postgraduate Resnik trained on the shut-In 1965, he earned a bachelor's School In Monterey, Calif. degree at the University of Ari- He was awarded the Navy flight, she used it to delicately zona and entered flight school Distinguished Flying Cross, break away a chunk of ice that after being commissioned as three Air Medals and other had formed on the side of the military decorations, including spacecraft.

1984 mission aboard the shut-An Annapolis graduate, tle Discovery. She was a classi-

tie's robot arm; on the 1984

21, 1950, Lake City, S.C. Resnik, one of three mission McNair, a mission specialist. wall.

McNair earned a bachelor's degree in physics from North As a staff physicist with

shuttle flight a year ago.

Force Base.

and Darien, 10.



She underwent 120 hours of

ty of Colorado. He was an electrical engineering from the She had a bachelor's degree erospace flight test engineer State University of New York in from Framingham State Colwith the Sacramento Air Logis- Buffalo and a master's in elec- lege and a master's from Bowle tics Center at McClellan Air trical engineering from North- State College in Bowie, Md. eastern University in Boston. She and her husband, Steven He served as a satellite engl. J. McAuliffe, a Concord lawyer, had two children, Janelle, 16, neer in the Air Force and have two children, Scott,9 and

"Our goal is an economically viable they assume," he said. downtown area and we're playing off Using the Bush House as a model, Bellefonte's historical heritage," said students make decisons on financing, marketing, and the laying out of a In order to solicit interest in the business in downtown Bellefonte.

design aspect of the project, financial Although the students studied project enters its second year in June, he said. "A Design Challenge Grant of \$1,-000 will be offered on a first-come, first- serve basis for the design of

for shoppers and businesses to locate

store fronts. If it costs a store owner \$1,000 to fix up his store front we will match up to half of that with \$500."

involve the local banking community and have them offer attractive inter-

service or product in the commercial district, Clark said. points will be explained. join us in our efforts," Clark said. Although state funding for the pro-

mously yesterday to increase the Gold said the change was in re- the senate was directly involved with number of secondary school units sponse to the challenge of Gov. Dick University admission requirements.

change, 21 credits for four years will tion.

to the University, but after the requirements for high school graduaallows students without the required The new units must be in academic Thornburgh said, "Schools have credits to be reviewed on an individupreparation subjects as opposed to permitted students, in many cases, to al basis. Daubert said he was convocational areas, said David P. Gold. 'do their own thing' and pick their cerned over who would be in charge

tives. It appears that interest has Gold answered that flexibility is

Donna Schroyer, spokeswoman for Sigma Xi, said the atmosphere are converted to nitric and sulfuric acid

Nicholas DeBenedictis, secretary of the state Depart- through a series of some 75 different chemical reactions,

By ERIC SCHMIDT

Collegian Staff Writer

Three experts to speak on acid rain Three experts will discuss the origins and consequences Hosler said rain is naturally slightly acidic, but pollutof acid rain at 7 tomorrow night in Kern Auditorium ants enhance its acidity, rendering the rain environmenduring a meeting of the University's Sigma Xi scientific tally detrimental. Acid raindrops form when naturally occurring oxides in

ment of Environmental Resources, will speak on political Hosler said, adding that, "we're only beginning to scratch and legislative issues; Charles Hosler, vice president for the surface in understanding how this whole process University research and dean of the graduate school, will works." elaborate on the atmospheric transport of acid rain; and "The rain in Pennsylvania is perhaps more acidic than John Huckabee, manager of the ecological studies pro- anywhere else in the country," Hosler said. The state's gram at the Electric Power Research Institute in Palo heavy industry coupled with pollutants carried in winds Alto, Calif., will address the power industry's contribu-from the industrial Midwest create the condition.

> emergency services on a regional cy services, she said. Steff, COG director of administra- spond to and recover from emergen- age assessors after the fire is out. manager of organization and man- ards and new procedures. cy situations," Jablonski said. Under federal law, all municipali- A municipality calls in the service tions emergency services has no pow- ment.

or local, said Jablonski. developed a new plan to provide of the functions handled by emergen- carry the injured.

Jablonski, director of emergency to react, Jablonski said. She gave one such example. In the county, emergency services A plane crashes into an apartment Jablonski said.

The Centre Region Council of Gov- Trucking in emergency food, sup- sufficient enough to cope with the ed concern over the inadequacy of ties are in a small area, and the ernments, with advice from a man-plying police services or calling in situation. More water is needed to their existing plans, Steff said. agement consulting firm, has realtors to assess damages are some control fires and more ambulances to The proposed plan, set up with sources, Cassidy said. basis rather than the municipality- In general, the service is a tool used services to provide both the water better distribute resources within the a safety program with employees based system in place now, said Jim "to help communities prevent, re- and the ambulances as well as dam- Centre Region, said Jim Cassidy, who keep informed of potential haz-

coordinates necessary responses be- complex in State College. Police, fire COG first realized the need for the Characteristics of the Centre, Retween agencies on all levels, federal and ambulance services respond, but new plan when several local emer- gion make it well suited for a regional borough emergency services are not gency management leaders express-plan because the several municipali-

country," Cassidy said.

advising from EC Management Plan- One of those resources is speciali-The borough can call emergency ning Services of Harrisburg, helps to zation, Steff said. The University has