Minorities:

PSU to research education in science, technology and society

By CHRISTINE KILGORE Collegian Science Writer

nology and Society.

Although economic recovery has created new jobs in U.S. northeastern cities, many minority high school students are not receiving the science education needed to prepare them for technical jobs, said a University professor of Science, Tech-

Leonard J. Waks said the STS department recently received a \$133,000 grant from the U.S. Department of Education, which will allow the University to develop science education programs designed to conquer this problem.

Waks, who is director of the programs, said the University competed with about 500 other institutions for one of 23 grants awarded nationally for education projects. University researchers will work in conjuction with Lincoln University in Oxford to develop the project, which will begin on

Jan. 1, 1987, he added. "In our major cities — like Philadelphia, New York, Baltimore and Newark - the residents going through public schools are increasingly minorities. There are more black and Hispanic students than caucasian students," Waks said. "Evidence shows that these kids aren't getting the science education and knowledge of skills that

"They need to take advantage of jobs in cities this requires self-management skills, some technical knowledge and problem-solving abilities - all on top of basic skills," he said. "We're trying to look at what STS education can do to address the

realize how science and technology affect their past. "Teachers in math and science are, of Anyone interested can call Paula Mourant at 865lives and careers, from a new scientific devel-

opment to moral and religious implication. Waks hardest to convince is the English teachers," he said STS education, which is geared toward all said. "But once they understand what it's all students and not just those interested in science, about, they enthusiastically endorse the procould help increase the number of minorities in gram. science and technological fields.

"STS has a strong social, decision-making aspect. It benefits not only oneself but one's community," he said. "And as opposed to traditional science education, it is geared to be beneficial to Teachers may integrate science with technology

and society in high schools by supervising student projects resembling those a citizen might have to cities like Philadelphia and Baltimore and their

'Evidence shows that these kids aren't getting the science education and knowledge of skills that they should.'

-Leonard Waks, University STS

"A student might have to do an environmental mpact report, for instance. Here the teacher is not only an information provider, but an adviser and a Peter Rubba, associate professor of education and coach," he said. "And the teacher doesn't have to director of the Center for Education in STS; Mary be a science teacher. An English teacher may Dupuis, professor of education; and James Stewteach technical writing, for instance." Edward Fagan, a University professor of educator of the black studies program.

tion and co-worker on the project, said teachers STS education is aimed at helping students have been enthusiastic about STS education in the for a graduate student to assist with the project.

State College 234-1040

Gift to benefit math dept.

dowed professorship, thanks to a professor about \$25,000 a year. of the Campaign for Penn State.

graduate of the University in commercial chemistry, said he donated to the math department because his father, Jabir Shibley, was a former University math

students are more directly involved." Waks said. "We'll (also) have high school teachers come in as Shibley said he believes he added. professorships are an important Waks said the project will first involve gathering donation to the campaign because "raises academic level of exceleaching materials and reviewing past STS curriculums to see what has or has not been effective. "At this point, we're scoping the problem. We want to know what works and what doesn't," he said. "We also want to produce a handbook of Math Professor Stephen Simp-

> be the first recipient of the five-Norman Freed, associate dean the Penn State Blue Band. for the College of Science, said the His contribution, Shibley said, is professorship is a significant hon- a "special devotion to the Univer-

ment. It is significant because it designed to enhance the academic

quality" professors at the University, Freed said.

The endowment, he said, should The University department of generate about 10 percent interest, mathematics will have a new en- which would give the endowed \$250,000 gift to the University from Shibley said, "I think the caman executive committee member paign is right on target in its attempt to develop professorships, Raymond N. Shibley, a 1949 chairs, and fellowships instead of being directed solely toward athletics, buildings, bricks and mor-

> something in retaining or attracting additional professors of the caliber that is being developed," Freed said the endowment

Shibley has previously estab-

tional sphere." professorship in the math depart- \$200 million fund raising effort

will help attract and retain "star quality of the University.

Dr. Ronald Keiper

Monday, Nov. 10

8:00 P.M.

Sponsored By ERM Club

Wild Horses Ponies

Presented By

8 Mueller

SHOULD YOU BECOME A PRIEST

FOR PSU EMPLOYEES AND DEPENDENTS

Wise Eyes Optical in STATE COLLEGE, BELLEFONTE, and

full for the following services:

• SINGLE VISION OR ST BIFOCAL LENSES

And as always, no extra charge for SCRATCH RESISTANT PLASTIC LENSES

342-5361

• ANY FRAME FROM GROUP 'A' OR 'B'

PHILIPSBURG will accept your benefit coverage as payment in

• COMPLETE EYE EXAMINATION

• 2 YEAR GUARANTEE

355-1354

Here's an opportunity to find out... A special program of "DISCERNMENT" for the college student is now being offered by the Catholic Diocese of Pittsburgh...

**** Weekend of November 7, 8, 9, 1986 Topic -"The Contemporary Church"

***** Weekend of March 6, 7, 8, 1987 Topic -

"The Priesthood" *****

Call Father Bob Clarke

412-928-5836

GREAT LEGS!

Waks said the grant will be administered

through the University's Center for Education in

expertise on the black youth unemployment crisis,

problem) from a distance. Lincoln has closer ties

to the black community and the school districts in

"We have more of an understanding (of the

materials on all kinds of concerns - like food,

clothing, and the space shuttle - that will be

Fagan said "There is a lot of material out there.

out it's scattered around. We want to search,

Waks said the project will be led by Fagan;

art, associate professor of labor studies and direc-

Waks said University researchers are looking

readily available to teachers."

organize and set priorities."

TRY SCUBA

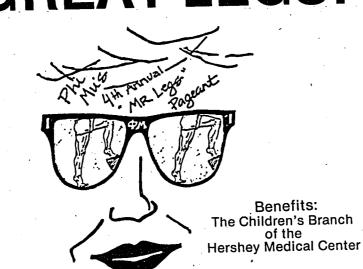
Get∖Wet With A₅Friend!

Nov. 9th or 16th, 8 for 1 Hour of Scuba Diving. Register today or all next week in HUB Basement.

Call 23 Heary For More Information

Sponsored By Wittany Divers.

* * * * * * * *



BELLEFONTE NATIONAL STORE and KOPEASE

TO BEGIN WITH

SURF CLUB CHOWDER ...

ck, zesty New England Clam Chowder. A perfect blend of spices d baby clams. Prepared dally . . . Cup \$1.35 Bowl \$2.00

ALOHA WINGS

A warm welcome to the Surf Club. Crispy wings basted with your choice of one-alarm or two-alarm hot sauce. Served with celery sticks

NOT AN ORDINARY SALAD

SURF CLUB SALAD ...

THE MERT OF THE MENU

THE CHEESEBURGER ...

SMOKIN' TURK€Y . . .

RORST BEEF SUPREME . . . oast beef, trimmed, aged & prepared to succulent perfection.

with a side of our red & white Surf Club slaw . . . \$3.75

Come Watch on Nov. 7th at 7:30 p.m. in the HUB Ballroom



deliver in 30 minutes or your pizza is FREE

... ahead of its class! OPEN: Sun.-Thurs. 4pm-12am; Fri.-Sat. 4pm-3am

- FRESH INGREDIENTS PREPARED DAILY ON THE PREMISES -

WE ACCEPT DOMINO'S COUPONS

BAR SNACKS . . . Moube there is no such thing as a free lunch g combination of mixed greens, olives, onlons, sprouts & served with house dressing & sliced bread . . . \$2.25 SURF CLUB CHAR BURGERS 80z. = 1/2 lb... Who says they don't make them like this anymore? Think of a beach bonfire – burgers sizzling over an open flame. Our 36" char-grill sizzles a lean, ½ lb. burger to your specifications. Served on a fresh kalser roll with a thick slab of onion, lettuce & tomato . . . \$2.95 With rough our burgers don't need a disguise, cheddar or swiss cheese tlights the taste...\$3.60 With wedge fries\$3.95 sandwich is the talk of the islands. Boneless chicken breast fired on the char-grill, basted with a taste tempting terivaki sauce. Served with a ring of pineapple, kaiser roll & side of our red & white Surf k-sliced tender smoked turkey breast topped with sprouts, umber coins & a tangy flussian sauce. Served On a fresh kaiser roll

tate Callege, PA • 237-4338

OOTSIE ROLL

ORANGE CRUSH

CHARGO COME CONTROL CO

SURF CLUB SPECIALTY Formed Holland ham sliced & piled high. Topped with aged Swiss (DRINKS, COOLERS & SHOOTERS) SURF CLUB SHOOTERS ... ncing the shooter revolution. We are proud to offer these TOTALLY PIZZA (After 5 P.M.) is served chilled unless ice is requested

STATE COLLEGE, P.

SURF CLUB PIZZR . . . You have to try it to believe it! All pizza is not created equal. Serv mply with sizzling cheese or our topping of the day.

By the cut - 90 with topping - . 95 in entire pizza -... \$5.95 with topping -\$6.95

> THE FINISHING TOUCH CREAMY CHEESECAKE . .

TO QUENCH YOUR THIRST With a meal a refill is always on the house BEER, WINES & COCKTAILS Draft Beer . Bottled Beer . Red Wine by the Glass

SURF CLUB TROPICAL COOLERS laube the best cooler you will ever experience. This refreshing bland SURF CLUB MARGARITAS

Berries, berries, & more berries. This icy-cold bland will take you

Researchers study hole in ozone

Collegian Staff Writer

popularity as a recreational drug.

S. Allen St., has received several

phone calls asking about the plant,

On Drugs Inc., a drug and alcohol

past, this is the first time On Drugs people," he said.

The weed, which contains a chemiqualities."

dents, said Berrigan, who believes tions, Berrigan said.

Collegian Science Writer Researchers at the South Pole are searching for the cause of a whole in the ozone layer which has expanded in size to an area equivalent to the

United States. A group of 13 researchers from throughout the possible cause for the hole, which is largest during and foam insulation. In the upper atmosphere, ozone -- an unstable form of oxygen with three oxygen atoms in a

they improve the academic qual- lence in the institution itself," ity at the University and help to because the more outstanding a attract and retain quality profes- University's faculty members are, the better reputation it builds. son, who specializes in logic, will lished 12 permanent student scholarships in areas at the University including philosophy, theater and

or for Simpson and added that the sity ... in appreciation of the of Science have high esteem for itself into the high-caliber educa-This is the second endowed The campaign is a five-year,

gradual depletion of the ozone layer which had already been observed.

country are presently attempting to establish a are used in spray cans, air conditioners, freezer, seen anything this dramatic yet. 'During the local winter seasons at the poles,

there is a long period of darkness. At this time, the without ultraviolet light given off by the sun. When freons can build up and cannot be broken down molecule rather than the normal two - acts like a shield to protect the earth from the sun's ultraviothe sun does appear, the ultraviolet light hits the let radiation. Excessive amounts of such radiation regions of freon build up and releases molecules of can cause skin cancer, crop damages, and wildlife chlorine. The chlorine released causes a chemical reaction which in turns breaks up the ozone in the Currently, the scientists say they have evidence atmosphere." he said.

that a chemical process is causing the hole. In a statement read from McMurdoo Station in Antartinomenon is caused by cyclical atmospheric procca, the scientists said "At present we have not esses that have no relation to manmade gases. conclusively established the cause of the ozone hole. However, we have strong evidence against theories that upward winds or high solar activites caused the depletion. We suspect a chemical process is fundamentally responsible for the for-

hallucinogenic, which has them con- weed requires a lot of sunlight, he level."

found in woods.

and death, Keener said.

"Anybody that eats any part of

Some climate experts believe a change in the ordinary motions of waves and cyclones in the upper atmosphere might cause the hole.

chemical reactions, it could be linked to the from lower altitudes. Still other researchers believe that the hole has come and gone in the past before it could be "This is caused by fluorocarbons in the atmo- measured. However, Oliverio said, "You cannot sphere," said University Professor of Meterology explain this on dynamics — atmospheric motions

John J. Oliverio, Jr. He added that the fluorocar- - or on solar cycles alone." He added that this bons, which contain freon, that cause the depletion theory might be true but researchers have not A final theory implies that volcanic particles that have built up in the polar atmosphere can be heated by the sun and cause the upwelling. "This

is an interesting theory that must be looked at

particles exist at atmospheric levels where they can break down the ozone. "This is one of the most challenging things that we've ever come across in atmospheric chemistry," said the team's leader Susan Soloman of the Aeronomy Laboratory at the Goddard Space Other researchers have proposed that the phethe souce of the hole must be understood because "this is a change in the ozone that's of absolutely unprecedented proportion. We've just never seen

Antartic. For example, an upwelling of air over the pole The hole was discovered in March of 1985 by could push aside the layer of the stratosphere with British atmospheric scientists

anything like what we're experiencing in the

Jimson weed is a common annual it. It's very easy to kill someone with The alkaloids in Jimson weed affect Volunteers at a State College drug weed that grows mostly around belladonna," said Berrigan. "You're the nervous system, Keener said, and crisis center are receiving an in- farms in limestone and cultivated poisoning yourself to get high, and while peoples' reactions vary, Jimson crease in calls concerning an exsoils, said Carl S. Keener, associate there is a real fine line between the weed is one plant that is dangerous tremely toxic plant used as an professor of biology. Because the hallucinogenic level and the overdose regardless of whether or not people have allergic reactions to it. cerned the plant might be attaining said he doubts the plant would be People get high from the drug by One of these alkaloids, scopola-

Extremely high doses may produce weed in tea, grinding the roots into a truth serum of spy-lore fame, accordinformation and crisis center at 2361/2 convulsions that could lead to coma powder or eating the seeds, which are ing to an On Drugs pamphlet. more potent than any other part of the plant. However, Berrigan said, more intense than those from LSD called Jimson weed. Although callers Jimson weed is playing with fire and I the high from Jimson weed is usually have asked about the plant in the mean deadly fire. This stuff can kill a "bad trip." rigan, sometimes up to three days

Berrigan said, "(Jimson weed) is The drug usually begins to take about the poison, said Donna Berrinot a hallucinogen in the sense of LSD effect within 20 minutes. Initial reaccal once fabeled as a truth serum, is

A combination of the poisonous cals in the weed leave the body.

Drug may be increasing in popularity and selling it in State College. ous and it is very easy to overdose on tions and hallucinations.

> smoking the leaves, brewing the mine, achieved semi-notoriety as the and may last up to two days. Visual distortions last even longer, said Ber-

gan, program coordinator at the cenor mushrooms, or something like tions include nausea, diarrhea, alter"All parts of the plant are poisonthat, but it does have hallucinogenic nating fever and chills and an ous," Keener said, "particularly the extremely dry mouth until the chemiseeds and leaves, which contain alkaloids that are very dangerous, even in being used primarily by local high alkaloids in Jimson weed, called bel- If the dose is strong enough, there is small amounts. Anybody drinking school students and University stuladonna, might cause the hallucinaa loss of motor coordination, extreme teas from it, unless done under mediexcitation and agitation, nervous, cal supervision . . . is a fool."

STYLING SALON 10.00 Specia

Shampoo, Cut &

Blow Dry only *\$10.00*

159 S. Garner St. 237-6609

The Daily Collegian Friday, Nov. 7, 1986-3 Penn State Sub Shops FREE DELIVERY TOWN & CAMPUS 234-4SUB Toftrees, Park Forest Heritage Oaks

234-7000



Friday:

TICAPOO BRAIN

10:00 pm

Saturday:

NEIGHBORS Susan

Dore

Steve Palmer 10:00 pm

Enjoy dinner before the show. Featuring steak, seafood, cajun, pasia, and stir-fried entrees.

* * * * *

BUDGET



P.S.U. MOBILE **FOOD** UNITS

Open: Saturday 9:30 a.m. to 1:30 p.m. Located at Shields Building and Bennypacker Hall on Curtin Road



By Shopping at the Oxford Shoppe you can stretch your ciothing budget. We offer 1st quality shirts, sweaters, ties, belts, jeans, blouses, socks and gloves all at Factory Outlet Prices. For a great selection of fine merchandise all at discounted prices shop at the Oxford Shoppe.

113 S. Allen St. **Lower Level** 234-4541

KALIONIS Oxford SHOPPE

Daily 9:30-6:00 Thu & F 'til 9:00 Sun: 12-4

The shoes you have been waiting for are coming now -

FOOTBALL

SPECIA!

THE NITTANY LION SHOES

From The Manufacturer Directly To You.

FAMOUS AMERICAN UNIVERSITY SHOES ANNOUNCES ITS 1ST ANNUAL COMPLIMENTARY SALE!

The sale that is almost impossible! But it is TRUE! We are bringing you these \$60 high quality

DATE: | Nov. 7, 9am-6pm

Nov. 8, 8am-5pm PLACE: Sheraton Penn State 240 S. Pugh Street State College, PA

Tel.: 814-238-8454

· Recommended for tennis, playing, running or walking

· Made by name-brand manufacturer

Money back quality warranty

LIMITED QUANTITY, HURRY

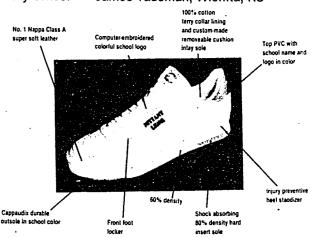
FOR MAIL ORDER ONLY

Please send \$23.95 (handling & tax included) to: C.P.P. Inc., P.O. Box 12446, Overland Park, KS 66212 A FREE pair to coaches

Consumers Comments "The most wonderful and comfortable sneakers I have ever had at the most unbelievable price." - Lisa Shafer, Columbus OH "First I thought it was just another sales gimmack but after a year of wearing. I recommend it to all my friends."

- John Gordon, Minnepolis, MN

"This is not only the best way to walk tall in school spirit; this is the best shoses money can buy." - Mike Edmund, Madison Wisconsin "Thank you for the wonderful shoes. I am sending you an order of 23 pairs for everyone in my office." - James Tademan, Wichita, KS



WALK TALL IN NITTANY LION STYLE

STUDENT HELPERS WANTED: \$5/Hour CALL 913-492-3595