Sunny and not as cold today, high near 50. Fair and cold tonight, low near 32. Sunny and warmer tomor-row, high near 60. Outlook for Sunday: partly cloudy and warm.

The Daily Collegian

W-20: Repressive Rule

--see page 2

Vol. 70, No. 19

10 Pages

Published by Students of The Pennsylvania State University University Park, Pa., Friday Morning, October 24, 1969



# augumentan associated press ananomous NewScope

# The World

**England Proposes Stricter Drug Penalties** LONDON — Prime Minister Harold Wilson's government has decided to seek new powers for a nationwide crackdown on drug pushers and underground drug makers, informed of-ficials said yesterday.

bit drug plasters and underground drug makers, micrited of ficials said yesterday. A comprehensive new bill to toughen Britain's spotty system of producing, distributing and prescribing drugs is in preparation and will be announced by Queen Elizabeth II in her speech from the throne opening the new Parliament Tuesday. The over-all aim is to strengthen and rationalize existing menace. This threat has assumed big proportions with revolutionary developments in drugs that work on the central nervous system. Informants estimated the number of new drugs being manufactured may run into hundreds and includes stimulants, depressants, tranquilizers and hallucinogens.

## Viet Cong Position for Possible Offensive

SAIGON --- U.S. infantrymen screening infiltration routes northwest of Saigon engaged North Vietnemese soldiers in two

northwest of Saigon engaged North Vietnemese soldiers in two running battles yesterday. Field officers said it appeared that North Vietnamese ar-my units which have been holed-up in Cambodia are moving back into South Vietnam, possibly positioning themselves for the kickoff of a winter-spring offensive next month. In Saigon, the U.S. Command said that American casualties for the past week remained near the three-year low, with 78 Americans killed in action. It was the fourth straight week that fewer than 100 Americans died on the battlefield. South Vietnamese combat deaths exceeded the U.S. total for the 23rd consecutive week, with 301 government troops killed.

A U.S. spokesman also said that a GI captured 4½ months ago by the North Vietnamese made nis way to an allied land-ing zone Monday.

Arab Guerrillas Attack Lebanese Posts

Ardb Guerrinds Artick Lebanese Posts MIDDLE-EAST — Arab guerrillas from Syria swept into neighboring Lebanon yesterday, attacked three border posts and abducted 4 frontier guards in retaliation for a Lebanese army crackdown on the commandos. Apparently carried out with Syrian cooperation, the raid was bigger than any launched by the guerrillas against Israel since the end of the 1967 six-day war. Al Fatah, largest of the Arab commando organizations, claimed responsibility for the forays and promised to return the kidnapped men.

the kidnapped men.

the kidnapped men. "Today's operations were only a warning to Lebanese authorities," Al Fatah said in a comunique from its head-quarters in Damascus, the Syrian capital. "The Palestine revolution demonstrates its ability to take any measure it deems fit to defend itself and escalate its operations."

# The Nation

## Nixon Seeks Merchant Marine Changes

WASHINGTON — President Nixon proposed to Congress Thursday a 10-year, \$3.8-billion Merchant Marine program to "restore this country to a proud position in the shipping lanes of the world" "restore this of the world

It represents an increase of \$1 billion over the present rate

It represents an interact of spending. Administration spokesmen, in explaining the program, said it changes the methods of ship construction and operating subsidies and is designed to produce 30 new ships a year when the program gets in full swing in the third year.  $\star$   $\star$   $\star$ 

# Mayoral Races Highlight November Elections

Mayoral races in New York City, Cleveland and Detroit, and races for governor in New Jersey and Virginia will highlight this year's Nov. 4 elections. Voters in two states will decide on whether to lower the minimum voting ages to 19 in Ohio, and 18 in New Jersey. In North Carolina each of the state's 100 counties will hold a local option vote on a proposed 1 per cent sales tax. In New York, Mayor John V. Lindsay is in an uphill strug-gle for re-election and in Cleveland, Mayor Carl B. Stokes, the first black to win election as mayor of a major U.S. city, also is in a tight race.

first black to win election as mayor. Detroit's mayoral election has county Sheriff Roman Gribbs, who is white, running against county auditor Richard Austin, who is black, in a close contest to succeed Jerome Cavanaugh, stepping down after two four-year terms.

## Military Rejects Unilateral Cease-Fire

WINITARY Rejects Unilateral Cease-Fire WASHINGTON — Top U.S. military leaders oppose a one-sided cease-fire in Vietnam on grounds it would enable enemy forces to move unopposed into positions from which they could strike serious blows at American units. Senior generals also dislike the idea of a mutual cease-fire, saying they have no faith that the enemy would keep its part of the agreement. These uniformed leaders contend the enemy is neared withing this microwing.

**Open Meeting** 

munication

on campus.

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In the HUB

-Collegian Photo by Alex Beatly ARTHUR O. LEWIS, (right) chairman of the University Senate, listens to a student express his opinions at an open meeting of students, faculty members and members of the Senate held yesterday in the HUB.

# Liberal Arts Council Holds **Faculty-Student Discussions**

By BETTI RIMER Collegian Staff Writer

dominated board to control non-academic policies, includ-ing student publications. Lewis said that he had presented a proposal to the University Senate for a student board which was passed unanimously. 'If the students come up with a decent pro-posal I think it will pass. But I hope students will ask us for help, only this time on a volun-tary basis,'' Lewis Said. Lewis Made Mistake Some students walk in g through the Hetzel Union Building yesterday merely cast a curious glance in the HUB Reading Room. Others came in, looked around helplessly and walked out. But some sat down and talked face-to-face. freely with faculty members who responded frankly. The occasion was an open meeting of students and facul-

Lewis Made Mistake

Referring to University ac-tion on the sale of the Garfield Thomas Water Tunnel, an unmeeting of students and faculty members and members of the University Senate in the College of the Liberal Arts. The order of the day was comderground newspaper, Spring Term, Lewis said that he thought Charles L. Lewis, vice president of student affairs, had made a mistake by ban-ning the publication from campus munication. Pete O'Donnell, president of the Liberal Arts Student Coun-cil expressed the general feeling of the people at the meeting. "It wasn't so much what the people were saying that was important. It's the fact that students and faculty eat down and communicated

campus. "My objections to the Water Tunnel are on a purely literary basis, he added.

Lewis commented that he had supported the open meet-ing sponsored by the Liberal Arts Student Council last spring and he was pleased with yesterday's meeting.

fact that students and faculty sat down and communicated how they felt on different issues, be it the Vietnam War or the pass-fail system." Senate Chairman Attends Discussions broke up into groups of approximately ten students and a faculty mem-ber. Notable among faculty members present was Arthur O Lewis, chairman of the University Senate. Students speaking with Lewis showed interest in the abolishment of Rule W-20 which regulates the sale and distribution of all publications yesterday's meeting. "The discussions gave stu-dents a chance to talk to peo-ple who theoretically have some influence. I probably have more access to student opinion than most faculty members, but today confirmed much of what I felt to be true. For instance it showed me that W-20 is by no means a dead issue and that the students want us to consider it again." Merrill Noble. head of the distribution of all publications

Merrill Noble, head of the psychology department, spoke with students on the problems of the large university. In Lewis said that he had urged the senators to "do something about the rule." He added that favored a student

# response to questions about the "publish or perish'' con-troversy, Noble said that rescarch is "usually a good thing."

~ 4

He explained that in many fields such as psychology it is neccessary to transmit in-formation to large numbers of

Noble urged students who are dissatisfied with a course to speak to the professor and offer suggestions or even to write a letter

write a letter. After the meeting O'Donnell commented that the senators did seem receptive but that the (Continued on page nine)

**USG** Approves **Easing of Fines** 

By PAT DYBLIE and BILL BROADWATER Of The Daily Collegian Staff

Guidelines to ease campus traffic fines and remove many evening parking restrictions were approved by the Undergraduate Student Government last night.

The guidelines, presented in the form of a bill by the USG executive, will become effective Winter Term and will apply only to undergraduate students.

Students will receive a warning on the first violation and will be subjected to successive fines of \$2, \$2, \$5, \$5 and \$10 according to the bill. Violations will be recorded on a term basis and a warning will be issued for the initial violation of each term.

### No Present Warning

Present regulations require fines of \$1, \$3, \$5 and \$10 and are compiled on a yearly basis with no warning provision.

Students will be required to report violation tickets received to the Traffic Violations Office within two class days after the date on the ticket. A \$1 late fee will be imposed on both warning tickets and subsequent tickets if a students fails to report within the required time.

The bill also opens the lots around the Ritenour Health Center, Pattee Library and Sparks which are not designated as "yellow" on the University traffic map to student parking between 6 p.m. and 2 a.m.

Passage of the bill was encouraged by USG President Ted Thompson who helped compile the adjustments last summer with Ralph E. Zilly, vice president for business, Raymond O. Murphy, dean of student affairs and officials from the violations office. Thompson also reported to Congress that most of the proceeds from traffic fines are turned over to the USG Scholarship Fund.

Congress voted to refer to USG's Student Affairs Committee a resolution requesting the University Senate to recognize spokesmen from

the Black Student Union and the Association of Women Students when deliberating problems relating specifically to those groups.

Interfraternity Council President Harv Reeder questioned if the resolution would mean "throwing out the window the fact that we ask USG to be the sole voice for the entire student body." Reeder said that he felt recognition of the two groups might mean "further fragmentation" of students.

Nina Comly, AWS president, stated, "I support this (the resolution) because we are a special interest group." She said USG represents the student body "as a whole" and cannot specifically accommodate interests of women and black students.

"Doesn't Exclude USG"

"The resolution doesn't mean to exclude USG but rather include groups to lend expertise to certain problems," according to Terri Borio, USG East Halls congresswoman.

Winners in this week's congressional elections were certified by the USG Elections Commission and inducted into Congress by Harry Hill, USG Supreme Court Chief Justice.

Two West Halls candidates, one of whom was seated on Congress, charged to the Elections Commission that Ray DeLevie, winner of a West Halls seat, had terminated his residence hall contract and moved to an apartment before being certified.

DeLevie was certified after a pre-meeting grievance hearing with the Commission but his case will be taken to the USG Supreme Court on Monday. Chief Justice Harry Hill said that impeachment proceedings will be taken by Congress if Dellevie's alleged move is found unconstitutional.

Congress approved a recommendation by Thompson that Tom Ritchey, former East Halls congressman, be appointed Parliamentarian. Hill resigned his post as Parhamentarian at Congress' initial session Fall Term "to devote more time to my duties as Supreme Court Chief Justice."

# YAF Not Supporting Palladino

which appeared in Thursday's Daily Col-

The letter called for action to force

Building so that others may have the op-

portunity to support it by signing their names under it. YAF members agreed to participate

in the model United Nations which will occur on February 19-22. in Chambers.

They considered sending delegates to represent such countries as Australia, Japan, the United States and Yugoslavia. There will be a \$5 fee for each delegation (or country) entered, and three representatives will be sent for each delegation.

This model UN will meet to discuss international problems (such as the Middle East and Rhodesia) and try to seek resolutions for the situations. It will

follow a basic format similar to the rules and procedures of the real UN.

YAF members also plan to send a weekly newsletter concering the activities of their organization to its members. The name they chose for the publication is "The Pipeline."

Allan Montross, YAF chairman, said that they were planning some activity for the Nov. 14-15 Moratorium, but no definite plans could be revealed until next week.

Montross also stated that some profit had been made from the YAF table in the HUB, and that new supplies would have to be ordered.

The Young Americans for Freedom said last night that they do not support Dean of the College of Engineering Nunzio J. Palladino's letter to the editor

North Vietnam "to negotiate a peace that will give the South Vietnamese a chance to reasonably determine their destiny.'

**But Will Circulate Letter** 

legian.

However, the group will provide for circulation of the letter, as requested by Palladino, by posting it on YAF's table in the ground floor of the Hetzel Union

part of the agreement. These uniformed leaders contend the enemy's record justifies their misgivings. They recall that the United States halted all bombing of North Vietnam nearly a year ago, after reaching what were thought to be 'understandings' with the North Vietnamese. These understandings, as outlined by U.S. officials at the time, were that the North Vietnamese cities and stop violating the demilitarized zone. On that basis, the Joint Chiefs of Staff supported President Lyndon B. Johnson's decision to stop the bombing in the north. But the shellings continued and the enemy kept violating the DMZ.

# The State

Mortgage Rate Is Lowest in Nation HARRISBURG — The laws of economics and the laws of Pennsylvania have collided with a crunch that is crushing the housing market across the state. And, as usual, the first victim is the little man. In this instance, it's the average family out shopping for a mortgage to buy a new or used home

to buy a new or used home.

The reason, according to mortgage lenders, is that Penn-sylvania's mortgage interests ceiling of 7 per cent 6 per cent plus a 1 per cent premium is the lowest of any of the 50 states, the District of Columbia and Puerto Rico. Only two other

the District of Columbia and Puerto Rico. Only two other states, Kentucky and North Dakota, have a 7 per cent ceiling. Five states have no limit at all; Rhode Island has a 21 per cent ceiling and more than a score of other states have rate maximums ranging from 10 to 12 per cent. And inflation has made it more profitable for lenders — banks and savings and loan institutions — to invest money in other types of loans and securities where they can earn more than 7 per cent than 7 per cent.

### House Opposes State Tax Proposals

HARRISBURG — The House Republican Policy Com-mittee issued a position paper yestorday warning current state spending proposals would cost the commonwealth \$300 million in new taxes in the next liscal year. This would be on top of the \$534 million in new revenues the programs are expected to require this year, the paper said. The House COP estimates were considerably higher than

The House GOP estimates were considerably higher than Gov. Shafer's own projection in the state's five-year budget proposed in January. In that document, Shafer estimated the "mandated costs"

In that document, Shafer estimated the "mandated costs" and expansion plans for his proglam would run some \$150 million higher in 1969-1970 than in the current year. But the House Republicans said their projections, based on new estimates and information, indicate the necessity for ma-jor cutbacks in proposed spending this year. The paper, looking at what it referred to as the "political realities," stated: "There is absolutely no possibility of enact-ing such a huge increase in an election year."

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# **On Advanced Mark 48 Torpedo**

Ordnance Research Lab Works

### By STEVE SOLOMON Collegian Staff Writer

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(Editor's Note: This is the sixth of a seven-part series on U.S. Deparment of Defense-sponsored research at the University. The concluding article, which will appear Tues-day, will be an analysis of the Penn State-Pentagon relationship.)

Several years ago, State College held a parade and requested officials at the Ordnance Research Laboratory to build a float with a torpedo mounted on it. "We threw together some scraps and put it on a truck," Richard E. Bland, associate professor of engineering research at the ORL says. "It didn't even have an engine in it. But nobody knew the difference. Ever since, though, everyone has had the idea that we made torpedoes here."

Of course they don't make torpedoes in the ORL. But they do research and development which enables Westinghouse to make torpedoes.

which enables westinghouse to make torpedoes. Westinghouse is now building the Mark 48 torpedo, the most advanced torpedo weapon yet conceived by this country and perhaps the world. It is faster than any nuclear submarine, much faster than any torpedo. It dives the deepest of any modern weapon. It has complex acoustic homing and guidance systems which will assure it of a kill miles away.

And it was designed and synthesized by scientists at the Ordnance Research Laboratory.

### Intimate Partner

The ORL, with a staff of about 600 in a complex of buildings on the west end of cam-pus, is an intimate partner of the military establishment; about 98 per cent of its research effort goes into antisubmarine warfare. Its emphasis is on problems of acoustics—the science of sound—and hydromechanics—in this instance the study of bodies moving through water water.

Besides playing lead in the Mark 48 cast, the Laboratory has also carried out, in its 24year history:

-"preliminary" studies into the anti-submarine rocket (ASROC), which is launched from destroyers or other fleet ships.

-"preliminary" studies into the submarine rocket (SUBROC), an underwater-to-air-to-underwater antisubmarine wcapon which can be launched by a nuclear submarine.

--pioneer investigation into underwater-to-air missiles, which started in 1947 and solved some of the problems of missile flight through both air and water. Its application today: the nuclear-tipped Polaris missile, perhaps American's most important deterrent.

-research into hydrodynamically shaped --researcn into hydrodynamically shaped submarines. One of the Laboratory's con-tributions was the design of the "USS Albacore," whose successful hydrodynamic properties were incorporated into the Navy's modern nuclear flect.

modern nuclear field. —design of the first cavitation-free pro-peller which can move a torpedo 50 knots at 50-toot depths. (Cavitation is the vaporization of water and the formation of small cavities in the low pressure regions produced by fast-moving water rushing by propulsar blades.) In addition to ships, such work contributes to the complex summum operations in missile propulsion pumping operations in missile propulsion.

-the development of new propulsion systems for ships and weapons. These systems include rotors of wide speed ranges, including the shrouded propeller, pump-jet, and multistage blading.

-designed electroacoustic transducers for the homing systems of most torpedoes developed during and since World War II, including the torpedoes Mark 21, 28, 31, 34, 37, 44 and 48. (Transducers are the elec-tromechanical devices in sonar systems which receive or generate sound.)

-done noise measurement and analysis of Navy ships and "other craft" (most probably enemy ships), of torpedoes Mark 35, 37, 45, and 48 and of sea life. Such studies are done so that sea noises may be identifiable from mechanical noises, and so that American ships may be able to mask their own sounds to prevent detection by hostile craft.

by hostile craft. All of this, according to Elbert F. Oshorn, vice president for research, is "small potatoes." And it is, if the ORL's budget of ap-proximately \$8.7 million for the current fiscal year is compared with the \$120 million or so lavished by the Pentagon upon the Instrumen-tation and Lincoln Laboratories of the Massachusetts Institute of Technology. But even on such a miniature monetary scale, the presence of the military on the University cam-pus is as troublesome as at Cambridge, where a special review panel was formed earlier this year to study MIT's relationship with the Pen-tagon. tagon.

Ironically, the ORL's origins go back to Cambridge, Mass., in the summer of 1941, when a small research group explored improv-ed submarine detection and location systems for the Navy. The entry of the United States *in*-to World War II led to a rapid evolution of the research team into the Harvard Underwater Sound Laboratory a year later, where the re-Sound Laboratory a year later, where the re-quisite manpower and monetary resolve was

translated into the crucial acoustic homing torpedo, which helped sweep Germany off the seas.

In 1945, after the war, the laboratory was divided into two groups, with the acoustic hom-ing torpedo team moving to the University un-der Eric A. Walker, now president of the University University.

University. Under contract with the Naval Ordnance Systems Command, the ORL's tacilities have grown with its budget; the main facilities at University Park include the ORL Main Laboratory, the Smithfield Building and the Garfield Thomas Water Tunnel, the largest operating high-speed water tunnel in the iree world and the titular inspiration for a campus underground newspaper. underground newspaper.

The ORL also has field test stations at Key West, Florida, florida, and Keyport.

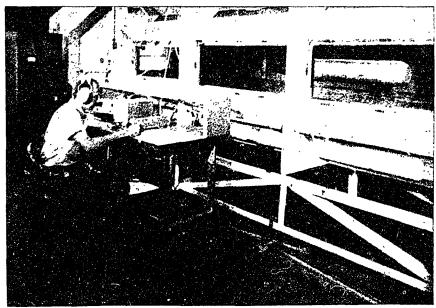
Washington, and a calibration station at Lake Black Moshannon, about 20 miles northwest of University Park, Research and experimental stages are undertaken at the University and the testing at one of the three field stations,

### Measure of Control

ORL officials say that research project proposals are conceived in the Laboratory and forwarded to the sponsoring agency (Depart-ment of Defense), as with all other research on campus. This independence, according to of-ficials, prevents the ORL from becoming a satellite of the Pentagon, and maintains a measure of civilian control and restraint.

"Essentially," said George F. Wislicenus, director of the Water Tunnel, "this Laboratory

(Continued on page four)



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## The Real Water Tunnel

MODEL ANALYSIS in the subsonic wind tunnel. Wind is rushed by the model, and accodynamic properties are. measured.