## New Diving Bell May Reach 20,000 Foot Depth - Dr. Nelles

Dr. Maurice Nelles, director of
the engineering experiment stathe engineering experiment sta-
tion at the College, has predicted tion at the Colege, has predicted
that a depth of 20,000 feet will
be reached in new underwater be reached
With the aid of a new benthoscope that he is helping to design
Dr. Nelles believes that man could reach a new and challenging world. The present depth rec-
ord is 4500 feet, set by Otis Barton, deep sea zoologist
explorer, on Aug. 16, 1949. Record Breaking Dive
Record Breaking Dive
Dr. Nelles and Dr. Hancock, of Santa Maria, Calif., set the stage
for the record-breaking dive. Dr. for the record-breaking dive. Dr
Nelles handled the communication lines and controls, while Dr under water experimenting had actually begun in 1945.
The Marine Laboratory ship, the Velero IV, which was design-
ed by Dr. Nelles and Dr. Hancock, several years ago, is complete with chemical laboratories, an electronics laboratory, a bottany laboratory, and has biological specimens. This ship serve as the platform from w.
benthoscope is lowered. The Velero II is capable o carrying oil and food for a trip equipped with all the latest. It is gational instruments, including an rer. It also has a device that can remove a 50 -foot core from mental purposes.
There is equipment on board bottom of the sea to a depth of 24,000 feet.
Drs. Nelles and Hancock devised new fish traps to catch traps work by high speed which is extremely important, because fish were caught in the slow speed traps.
Drs. Nelles the aid of Barton, worked at great length on new features for the benthoscope: The bell which set the depth record was design-
ed by Barton, and it included cables for communication and electricity extending from the platform to the bell. It is a five-
foot steel sphere with a stee walls one and three-quarter Deep Sea Creatures
Dr. Nelles, in planning his new benthoscope, is working on a method of photographing the as yet unknown deep sea creatures
He said Barton found that these fish had their own light below a depth of 1000 feet, and he
plans to utilize their light in plans to utilize their light in about the same as that from a

luminous clock dial in a dark
room," Dr. Nelles said, "while the exact nature of this light is
not known, it is believed to be caused by luminous bacteria." Quartz Windows
He is also planning to use ere quite successful in Barton's ell. He said the major changes his new model would be its ylindrical shape and the material sed in its make-up. He plans
use aluminum instead of steel is expected to weigh only 200 ounds in the water.
Dr. Nelles discussed the pro1949. He said Barton went down the bell while he remained on with the bell and give instrucion. The dive was an extremely langerous one, he said, because he apparatus was being. used ar of freezing temperatures at he lower depths.

No Light
He said Barton reported that
$t 300$ feet below the surface sunght and plant life began to disppear, and at 600 feet only

## Makes a Man Love a Pipe

 and a Woman Love a Man


DR. MAURICE NELL'S, at left is shown beneath a porthole in
the record-breaking benthoscope.
He handled the record-breaking benthoscope.
He handied $\pm$ he communication
and control apparatus during th and control apparatus during the
4500 -foot dive. Shown above is the five-foot steel sphere above is which Otis Barton reported strangely Equipped with strong lights and quartz-windows, the sphere suc-
cessfully withstood the unknown.
General Authority Calls For 4 Bids
Bids on four new projects in
the $\$ 10,000,000$ building program the $\$ 10,000,000$ building program at the College have been called
for by the General State authBid.
Bids will be received for con-
struction of a new million-dolla chemistry laboratory which will nclude facilities for 2100 under graduate students and 150 gradualso be received for an addition to Pond laboratory and for a fourth floor which will be con-
structed on the Main Engineerin structed on the Main Engineering
building to provide designing rooms, studios, and storage for architecture classes.
A chemical storage building also will be constructed at an
solated site on campus.
solated site on campus.

Barton told him of fish with uminous outlines, some had "headlights" where their eyes should be, and some had a cur-
tain that could be drawn over
the light for protective purposes.


## UN Advisor To India To Give Forum Address <br> Prof. Amiya Chakravarty, advisor to the Indian delegation at

 the United Nations, will be the speaker at the India and the International Scene conference sponsored by the PSCA on Monday.The conference under the auspices of the American Friends Service committee, will consist of a dinner at $5: 30$ p.m. in the Friends meeting house at 318 S . Atherton street and an address and forum

## PSCA Votes

Finance Power

## The board of directors of

 PSCA yesterday voted the finance committee power to approve all bills of the organizationThis move was made in an at tempt to alleviate the critical fi nancial situation of the associa fessor: of agriculture education made two proposals to raise mon y for the group.
He suggests that student mem bers attempt to obtain the coat College dances, and that
PSCA make another appeal funds to faculty members of th College. since the Campus ches
drive did not fully reach the facrive did not fully reach the fac
ulty. Definite action was not tak en by the directors on these sug The dire
ecision concerning not reach hest. Dr. Brunner said some peo ple did not contribute to the drive The drive was not a PSCA drive

Collegian Fee Raise To Be Reviewed
The West dorm council will rehe Daily Collegian assessment, Thomas Du
yesterday.
The council voted against the quent discussion seemed to indicate that the council had been Russell E Clart on facts. Russell E. Clark, with whom the council severed relations last
week following a disagreement
over the return of tables, is scheduled to put in an appearance at the meeting, Duror said. Clark will probably ex

## Prosthodontist Lecture

Dr. Cloyd Harkins, one of th the country, will give an illus rated lecture on "The RehabiliSigma Alpha Cleft Palate Child" ection honorary, will sponsor vening at 8 o'clock in 312 Sparks.
at 8 p.m. in Schwab auditorium. Topic at the dinner will be "Gandhi's Message and the Modern World Crisis," while the subject of the Schwab address will be "India's Role in the East-West Conflict." Admission to the dinner, for which reservations must dmission to the lecture is free. Professor Chakravarty has aught English at Forman Chris cutta university, both in India. He has also served on the Depart Ments of English at Howard and dale universities and has acceptfaculty invitation to serve on the vanced studies at Princeton.

## Local Friends Wire Truman

The State College Friends President Harry S . Truman re garding the world situation, Marorie Allen, clerk for the organ The tear "Stak. The telegram read: "State Colubmits following suggestions as possible means of alleviating world anxiety and opening way toward solution of present crisis.
One, clearcut refusal to use atomic bomb; two, top-level conference among major powers to explore all avenues of mediation; three, seating of Chinese delegation in neutral zone to prevent spread of violence; to prevent spread
five, creation of United Nations peace observa tion mission. Our prayers for uidance and direction are with Il nations"

College To Be Host
Of Deans Conference
Penn State is the host school
or the second annual Deans of Men Conference, which witl be held tomorrow afternoon.
Twenty-three Pennsylvania colleges will be represented. at the conference, which will begin with a luncheon a
Lion Inn at noon.
The conference will discuss
For Best Results
Use Collegian Classifieds


