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

the engineering experiment sta-tion at the College, has predicted that a depth of 20,000 feet will be reached in new underwater

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 and explorer, on Aug. 16, 1949.

Record Breaking Dive Dr. Nelles and Dr. Hancock, of

Santa Maria, Calif., set the stage for the record-breaking dive. Dr. Nelles handled the communication lines and controls, while Dr. Hancock assisted him. Their under water experimenting had actually begun in 1945.

The Marine Laboratory ship,

the Velero IV, which was designed by Dr. Nelles and Dr. Hancock, several years ago, is complete with chemical laboratories, an electronics laboratory, a bottany laboratory, and has biologi-cal specimens. This ship serves as the platform from which the

benthoscope is lowered.

The Velero II is capable of carrying oil and food for a trip half way around the world. It is equipped with all the latest navagational instruments, including radar. It also has a device that can remove a 50-foot core from the bottom of the sea for experimental purposes.

There is equipment on board that enables scientists to plot the bottom of the sea to a depth of 24,000 feet.

New Fish Traps

Drs. Nelles and Hancock devised new fish traps to catch specimens of deep sea life. The traps work by high speed which is extremely important, because Dr. Nelles said, only the stupid fish were caught in the slow

Drs. Nelles and Hancock, with the aid of Barton, worked at great length on new features for the benthoscope. The bell which set the depth record was designed by Barton, and it included cables for communication and electricity extending from the platform to the bell. It is a five-

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 photographing them, if possible.
"The intensity of this light i



luminous clock dial in a dark room," Dr. Nelles said, "while the exact nature of this light is

bell. He said the major changes in his new model would be its struction of a new million-dollar cylindrical shape and the material chemistry laboratory which will used in its make-up. He plans to use aluminum instead of steel. graduate students and 150 gradu-It is expected to weigh only 200 ate students each week. Bids will pounds in the water.

1949. He said Barton went down structed on the Main Engineering platform to the bell. It is a livelable foot steel sphere with a steel in the bell while he remained on walls one and three-quarters inches thick.

Deep Sea Creatures

in the bell while he remained on rooms, studios, and storage for with the bell and give instruction. The dive was an extremely also will be constructed at an in the bell while he remained on building to provide designing dangerous one, he said, because also will be constructed at an he apparatus was being used isolated site on campus. for the first time and there was fear of freezing temperatures at feet there was absolutely the lower depths.

No Light

is shown beneath a porthole in drive did not fully reach the facthe record-breaking benthoscope. ulty. Definite action was not tak-He handled the communication en by the directors on these sugard control apparatus during the gestions. 4500-foot dive. Shown above is the five-foot steel sphere in which quariz-windows, the sphere suc-the drive was \$1200 short of the cessfully withstood the unknown.

#### General Authority Calls For 4 Bids

Bids will be received for conpounds in the water.

Dr. Nelles discussed the proteedings of the record dive in fourth floor which will be con-

Barton told him of fish with a depth of 1000 feet, and he plans to utilize their light in photographing them, if possible. "The intensity of this light i about the same as that from a movement could be seen. At 1000 to the light for protective purposes."

Barton told nim of lish with trated lecture on The Rehabilituminous outlines, some had luminous outlines, some had a currection honorary, will sponsor the open meeting on Tuesday the light for protective purposes.

### UN Advisor To India To Give Forum Address

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** 

PSCA yesterday voted the finance ner, for which reservations must committee power to approve all be made today, is 30 cents, while bills of the organization at least admission to the lecture is free. one month in advance.

This move was made in an attempt to alleviate the critical financial situation of the associa-tion. Dr. Henry S. Brunner, pro-fessor of agriculture education, made two proposals to raise money for the group.

He suggests that student members attempt to obtain the coat checking concession for all major College dances, and that the PSCA make another appeal for funds to faculty members of the DR. MAURICE NELLS, at left, College, since the Campus chest

The directors did not reach a decision concerning the Campus Ot is Barton reported strangely chest. Dr. Brunner said some peolighted fish and icy temperatures. ple did not contribute to the drive Equipped with strong lights and because it was not a PSCA drive.

#### Collegian Fee Raise To Be Reviewed

The council voted against the assessment last week, but subsequent discussion seemed to indicate that the council had been misinformed on certain facts.

Russell E. Clark, with whom the council severed relations last week following a disagreement over the return of ping pong tables, is scheduled to put in an appearance at the meeting, Dur-ek said. Clark will probably explain his stand, Durek said.

#### Prosthodontist Lecture

Dr. Cloyd Harkins, one of the outstanding prosthodontists the country, will give an illus-with trated lecture on "The Rehabili-had tation of the Cleft Palate Child".

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 The board of directors of the Conflict." Admission to the din-

> Professor Chakravarty has taught English at Forman Christian college, Lahore, and at Calcutta university, both in India. He has also served on the Departments of English at Howard and Yale universities and has accepted an invitation to serve on the faculty of the Institute of Advanced studies at Princeton.

### **Local Friends Wire Truman**

The State College Friends meeting has sent a telegram to President Harry S. Truman re-garding the world situation, Mar-jorie Allen, clerk for the organization, announced this week.

The telegram read: "State College Friends meeting respectfully submits 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 caused by luminous bacteria."

Caused by luminous bacteria."

Bids on four new projects in the \$10,000,000 building program consider the proposed increase in the \$10,000,000 building program consider the proposed increase in the College have been called were quite successful in Barton's bell. He said the major charges and the proposed increase in the College have been called the proposed increase in the College have been called the major charges.

Bids on four new projects in the \$10,000,000 building program consider the proposed increase in the Daily Collegian assessment, United Nations; four, creation of Thomas Durek, president, said bell. He said the major charges. of violence; five, creation of United Nations peace observa-tion mission. Our prayers for guidance and direction are with you and responsible leaders of all nations."

#### College To Be Host Of Deans Conference

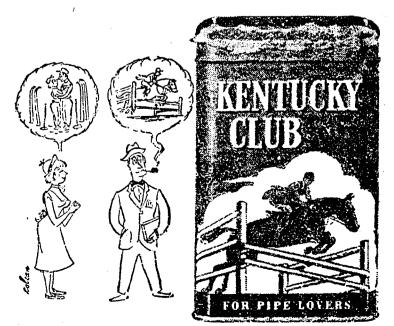
Penn State is the host school for the second annual Deans of Men Conference, which will be held tomorrow afternoon.

Twenty-three Pennsylvania colleges will be represented at the conference, which will begin with a luncheon at the Nittany Lion Inn at noon.

The conference will discuss problems pertinent to the field.

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