# Defense Department Awards Contract To University for Crystal Research

A $692,000 research contract to expand work in high temperature crystal preparation and growth was awarded to the University this week.

The contract, presented by the Advanced Research Projects Agency of the Department of Defense, was described by President Eric A. Walker as "one of the most important in the history of the University."

"THIS CONTRACT gives the University the opportunity for leadership in one of the most critical technologies of our time —the development of new materials to meet the needs of the space age," Walker said.

The research program will also include the training of scientists in high temperature crystal chemistry where the manpower shortage is critical.

It will permit an expansion of the University's work in the development of synthetic minerals. In the present program, intense heat and pressure found deep within the earth are duplicated to create new mineral forms. Walker said that it was this work of trying to understand how rocks and minerals were formed in the earth that led to the ARPA contract.

The new research program will concentrate on controlling the composition and perfection of both single and polycrystalline materials, to develop a "bank" of these materials to serve as standards and to determine the physical properties of the materials.

The researchers will place emphasis on materials that crystallize from liquid, vapor or solid phases held in high pressure—high temperature furnaces. The scientists will try to increase the size of these materials to make extensive testing possible.

RUSTUM ROY, professor of geochemistry, and M. E. Bell, professor of geophysics and assistant dean for research in the College of Mineral Industries, will be project directors.

Several other mineral industries' professors will participate in the program and 11 new academic staff members and 10 graduate assistants will be added to the research staff.

Walker, who is a member of the Manpower Panel of the President Kennedy's Advisory Committee, said yesterday that the committee is concerned with the need for more doctor of philosophy candidates in the country. Walker said that he plans to look at the entire research program of the University to determine if they are producing an adequate number of Ph.D. candidates.

WALKER SAID that he does not know what action will be taken as a result of this survey.

He said that he will consider both the educational training provided by the projects and their contributions to the fields being studied. Both pure and applied research projects will be continued since both are needed, particularly in the field of science, Walker said.

### Miss Pennsylvania Contest

The Miss Pennsylvania contest opens tomorrow night in West Chester with Centre County represented by Nancy Stringer, 7th term arts and letters major from West Caldwell, N.J.

## Proxy Appoints Assistant

Benjamin M. Nead, former staff member of the Institute for Defense Analyses in Washington, D.C., was recently appointed staff assistant by President Eric A. Walker.

The appointment will become effective Aug. 1.

Nead will fill the position vacated when Christian K. Arnold resigned on April 1 to become associate executive secretary of the Association of State Universities and Land-Grant Colleges in Washington, D.C.

## Bicycle Inspection Set for Saturday

Final bicycle inspection will be held both on campus and in State College Saturday.

The free campus inspection will be held from 10 a.m. to 3 p.m. in parking area 46. After Saturday, unregistered bicycles found on campus will be impounded and a storage charge will be levied.

The State College inspection will be held from 10 to 11 a.m. and from 3 to 4 p.m. at the Municipal Building. This inspection will cost 50 cents. State College Police said that unlicensed bicycles found in the borough will subject their owners to a $2 to $5 fine.

## 420 Seniors Join Alumni Association

About 420 of the 1,800 June graduates have joined the Penn State Alumni Association, Ross B. Lehman, assistant executive secretary of the Alumni Association, said yesterday.

Those seniors who have not already joined, about 75 per cent of the 1962 class, will be contacted again by the alumni office, Lehman said.

Brochures and letters will be mailed to the newest graduated seniors in September, he said. Those who join the association will receive the alumni magazine, published seven times a year, the quarterly alumni newspaper, called "The Penn Stater" and Ridge Riley's Football Letter, issued after each football game.

Cost for one year's membership are $3 and for a lifetime membership, $70.


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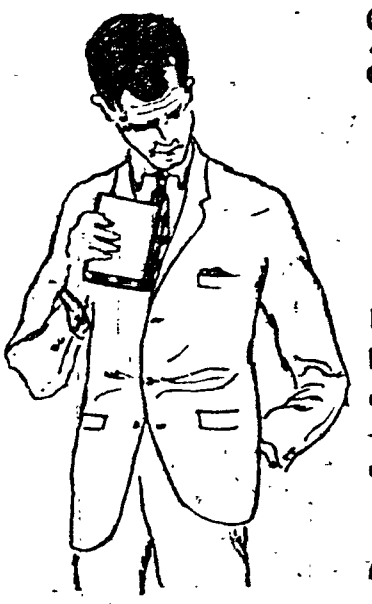

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