

Roles the Scientist Can Play

First of a Series
By DR. ERIC A. WALKER
President of the University

To the engineer, international understanding and cooperation are more than a philosophical concept; they are a way of life. The engineer is concerned with an accurate knowledge of the physical world in which we live and the energy and materials through which that knowledge can be made to benefit man. These things are not respecters of national borders.

Specifically, the engineer sees three opportunities in international understanding—opportunities so important, so critical to our lives that we cannot afford to pass them up.

The first of these opportunities is brought about by the fact that science and engineering often progress in different ways in different parts of the world. The ideas, methods, and solutions developed in one country may be all the engineers of another country need for a major break-through in a significant field. In fact, it has been said that our particular American genius lies in making practical applications of scientific principles, rather than in making original discoveries.

It is certainly true that our present technological level could not have been achieved without the brilliant contributions of scientists and engineers in other countries. We must be grateful for the help we have received in the past and encourage such co-operation in the future.

This internationalism is shown clearly in the history of man's knowledge and use of electricity. To pave the way for the progress made in our own times, major discoveries were made by the follow-



Dr. Eric A. Walker

ing men between the sixth century B.C. and the twentieth century A.D.: a Greek philosopher named Thales; the English physician to Queen Elizabeth I, William Gilbert; an Italian Jesuit named Niccola Cabeo; a 300-pound German burgomaster, Otto von Guericke; two Englishmen, one named Francis Hauksbee, the other Stephen Gray; Charles du Fay, a Frenchman; Pieter van Musschenbroek, a Dutchman from Leyden; a German named Ewald von Kleist; "the first civilized American," Benjamin Franklin; a French engineer named Charles Coulomb; the Italian physicist Luigi Galvani; another Italian, Count Alessandro Volta; a Danish professor, Hans Christian Oersted; the brilliant French physicist Andre Marie Ampere; Michael Faraday, a British chemist; a German school teacher named Georg Ohm; an American named Joseph Henry; Scottish-born James Clerk Maxwell; Julius Plucker, a German; William Crookes, an English chemist; Joseph John Thompson, an English physicist; a Frenchman named Antoine Henri Becquerel; and the American inventive genius, Thomas Alva Edison.

It is useless to speculate whether or not we would have had electricity without the work of any one of these pioneers; the important point is that progress would have been achieved at a much slower pace if the knowledge gained by any one of these had been denied those who followed him.

The second opportunity involves the fact that the raw materials necessary for maintaining our technology are not distributed evenly throughout the world; consequently, we are dependent upon other countries for much of the ores, metals, fuels, and other substances we need.

In 1953, for instance, we "consumed" over a million short tons
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Today's Forecast:
Cloudy, Showers;
High, 70-75

The Daily Collegian

FOR A BETTER PENN STATE

Editorial Debate:
Football Too Big?
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FIVE CENTS

Radar System on Exhibit



—Daily Collegian Photo by Marty Scherr
SGT. MYRON HAUSELMAN and Airman 2d Class Richard Byers operate an early warning radar system device of the State Air National Guard on exhibit near the Hetzel Union Building.

Original Art Will Appear In Lantern

An original painting will appear in each issue of the Lantern, University literary magazine, which goes on sale today.

This is the first time that a college publication has sponsored such an unusual feature, according to Donald Garber, art editor.

The center page of each 32-page issue will be a different hand-painted painting. The paintings will be done in three colors—black, gold and red.

4 Prepare Paintings

The paintings have been prepared by a four-man staff, consisting of Garber, Carl Kaufman, Joseph Servello and Stuart Frost, art adviser.

The Lantern will be sold at the HUB desk, the Mall bulletin board, West Dorms and the Corner.

7 Short Stories

Short stories are by Morton Levy, Warren McLaughlin, Bonnie Walters, Joseph Stemple, Matthew Robinson, Bernice Fastow and Patricia Paladino.

Poetry is by John Febako, Arlene Lit, Ethelrene Johnson, Alan Elms, Ruth Billig, Jan Bartow, James Jimmiro, Ralph Henninger, Charles and J. D. K.

Criticism Tables School Aid Plan

HARRISBURG, May 14 (AP)— Rank-and-file opposition forced the House Republican leadership today to table temporarily a plan to increase state aid for schools under a sharply revised formula.

Rep. Johnson, House Republican floor leader, said the \$30,300,000 measure drew criticism from many sections of the state, explained:

"Opinion is divided on this matter. The bill was not sent to the House Appropriations Committee until a time when the thinking crystallized on this one way or the other."

The measure was sent to the floor by the Education Committee a week ago as the answer to Leader's veto last year to a school aid bill on ground of insufficient funds.

It increases the maximum school subsidy from \$5100 per teaching unit 22 high school students or 30 elementary to \$6000 in the 1957-58 school year and \$6300 in 1958-59.

But an important change revises the complex formula for making the payments. It provides that school districts put up a larger

share of their own funds to qualify for state aid.

Other legislative developments: Final Adjournment—The Senate unanimously adopted a resolution fixing final adjournment of the Legislature for June 15—but the action was subject to agreement by the House.

Turnpike Probe—A Senate committee that started out a year ago to investigate a toll rate boost proposed—and then abandoned—by the Pennsylvania Turnpike Commission came up with recommendations that didn't touch on the toll question.

But it did call for a permanent medical barrier on the entire length of the superhighway, adequate lighting of tunnels and state acquisition of the former turnpike headquarters buildings in downtown Harrisburg.

LA Group Studies Radio-TV Possibility

The possibility of offering an inter-departmental major in radio and television is now under study by a committee in the College of the Liberal Arts.

Most of the students who intend to make a career in radio and television are now majoring in either speech or journalism. A variety of courses in the field are also offered in the Colleges of Home Economics and Education.

The committee conducting the study is composed of Ira W. Cole, director of the School of Journalism; Dr. Harold E. Nelson, associate professor of speech; and Dr. W. H. Walters, associate professor of theatre arts.

Resources Studied

The group is studying what resources are available, in which department they are located and how they can be improved. Cole said that the study is "largely an academic matter" and at the present time has no relationship with the proposed student AM radio station.

At the present time there are broadcasting courses in journalism, speech and theatre arts while other courses have some broadcasting content, Cole said.

The School of Journalism now offers three courses in radio and television news, radio and television advertising and a semester radio practicum at Station WMAJ.

Offers 4 Courses

The department of speech offers four courses in radio-TV theory and practice, direction and production, and organization.

A committee report will be presented in June to Dr. Ben Euwema, dean of the College of the Liberal Arts. Cole said that the investigation of the courses grew out of suggestions by persons in several departments. To his knowledge, he said, the study was not a result of the Middle States Accreditation report.

The committee is not connected with the investigation of an AM radio station or the television instructional research program, Cole added.

Lion Predicts Cool Weather

Today's prediction calls for cooler weather (70-75 degrees) with a possible continuation of yesterday's showers. The Nittany Lion, however, was in no condition this morning to take advantage of the cool the rain brought.

The Lion explained that a few weeks ago he bought one of the new midget sports cars recently appearing on the market, and the company delivered it to his den yesterday. Finding no room for his tail, he solved the problem with his usual ingenuity by cutting a hole through the trunk, where he planned to keep his tail while driving.

Not being familiar with the workings of this model, however, he had no idea that the engine was in the rear until he carefully got in, inserting his tail through the hole, and gunned the engine.



Athletic Aid System Defended by McCoy

By DICK DRAVNE

Editorial on Page Four

Earnest B. McCoy, dean of the College of Physical Education and director of athletics, said last night that Penn State athletes are given no special scholastic privileges and that grants-in-aid are completely above board.

McCoy, speaking before the Plant Sciences Club, cited the case of Lennie Moore to prove the strictness of the athletic department's policy toward scholarship.

Moore, football star of two years ago, was dropped from the University after failing two courses. He had a year of eligibility left when he was dropped.

Professors Pressured

McCoy said that Moore could legally have taken re-examinations in both courses, because of extenuating circumstances in the case, but that they were refused when McCoy found that pressure had been put on Moore's professors to let him take, "and pass," the examinations.

McCoy did not say who had put the pressure on the professors.

An athlete loses his grant-in-aid if he does not make normal scholastic progress, he said.

Defends Grants-in-Aid

McCoy defended the University's grant-in-aid system in athletics, saying that "if there is anything under the table, I don't know about it."

The University gives only 150 grants-in-aid over a period of four years, he said, and only 50 of these are full grants, for room, board, and tuition.

McCoy dispelled the idea that many athletes are put through school on aid from alumni. Funds from alumni are welcomed, he explained, but any contributors are warned before they give money that their contributions are given to the University, and can only be administered by the proper University officials.