



DR. KENT FORSTER receives the Second Annual President's Award for superior teaching from President Eric A. Walker at commencement exercises Saturday.

Turf Grass Program Continues

More than \$20,000 has been poured into a University research program to develop superior turf grasses for use on golf courses, parks and lawns, and to improve cultivation and maintenance methods.

The project, under the direction of H. Burton Musser, professor of agronomy, has been supported since 1947 by the Greens Section Committee of the United States Golf Association.

One of the problems being worked on this year is the development of a non-creeping type of bent grass. According to Musser, creeping bent grass has plagued turf management directors for years, since it gradually spreads and takes over the fine grasses with which it is mixed.

Bent grass is useful in mixtures because of its density and quality, he said, and non-creeping types would contribute a great deal to improvement of turf.

Albert Dudeck, graduate student from West Hazleton, is presently conducting research on the inheritance pattern of the creeping habits of Colonial Bent grass. His studies are carried on under a Golf Association fellowship.

Five other graduate students have been aided by this fund during the last 11 years. The University offers a regular 2-year course in turf management as one of the winter courses in agriculture. Composed of two periods of 16 weeks each, its objective is to train persons to meet the shortage of men qualified for turf maintenance work.

Golf courses, public parks, highway departments and other institutions have all felt a need for personnel trained in this field. Twenty-two students completed the course in April, and a new class will be enrolled in the fall.

Miller Named Ass't At Nuclear Center

Dr. Warren W. Miller, professor of chemistry, has been named an assistant to the director of the Puerto Rican Nuclear Center, established by the U.S. Atomic Energy Commission at the University of Puerto Rico, for the 1959-60 academic year.

He has been given a year's leave of absence by the University to accept this position.

Dr. Miller will be an assistant to Dr. Carlos Bonilla, professor of chemical engineering at Columbia University, who is in charge of the Center. The Penn State professor will operate the nuclear science and engineering part of the Center's program.

Part-Time Teacher

Murphy Travels Riding Boxcars

By JEFF POLLACK

George E. Murphy, professor of education, loves to travel—and he doesn't care how.

Boxcar, tramp steamer—they're all the same to the man who has been periodically on the go since 1932.

Murphy said his travels began when he was 25. He "rode the rods" from North Dakota in a big sweeping arc through the southwest to Los Angeles. Then he headed on to Seattle, Wash., and back to North Dakota.

According to the man who met the King of the Hoboes, he had saved \$50 when he started the trip. Only \$35 was spent in the two months he was on the move.

Murphy said most of the travel was by freight train—he took only one bus ride and did very little hitch-hiking.

He said he made the trip partly as a challenge to the theory that a teacher couldn't get along outside the class room for 10 seconds and was completely ineffective in life.

His other reason was to prove some of the information in a book on hoboes and to gather some data of his own. He is still working on it.

And he got more of a chance to meet them than he expected.

Murphy was arrested in Los Angeles as a vagrant and spent two days in the lock-up. During his stay he interviewed 65 others in the "tank" with him.

He has taken many other trips since his first. Most of them have been sandwiched between semesters and on sabbatical.

Last year he went around the world on freighters. On this trip, unlike some of his earlier, he took his wife along.

Murphy has been in 49 states so far. He says he has to get to Alaska soon. He visited Hawaii before it was a state but said he didn't want to quibble.

"There are too many things in the world still to see," he said.

He also plans to visit South America as soon as possible. Originally he had hoped to go last summer, but he said there was a conflict of dates which prevented the trip.

During the summer of 1960, Murphy hopes to head for the South Seas. He wants to make

stops at Hawaii—which he greatly enjoyed on his first visit, Samoa and Tahiti. And on this trip he said he hoped not to have passage booked in advance.

What does the 52-year-old professor think of the wandering life he's led? He recommends it to anyone. Murphy said he thought "a large segment of the Liberal Arts program should be devoted to travel."

Special Safety Rules Aid Atomic Workers

Dr. Edward S. Kenney, University health physicist, is responsible for the health and safety of those working with the University's Nuclear Reactor, located on the eastern edge of campus, and any other people working with radioactive materials.

To insure safety, Dr. Kenney has provided that film badges be issued to everyone who goes into the Reactor building. They consist of a metal backing with a metal frame on front that allows the film or negative enclosed in it to register any beta or gamma rays that the wearer may come in contact with.

Periodically the films are removed from the badges and sent to a lab for developing which brings out any rays that may be registered on them. So far no film badge has shown any undue amount of radiation in fact, the Reactor has an excellent safety record.

The monitoring system begins right on the bridge from which the reactor is suspended. If the amount of radiation coming from the surface of the pool should mount above the continuous tolerance level for which it is set, the monitor detector, which is connected to the monitoring system, will automatically shut off the reactor. It will also signal a loud horn for people to evacuate the building, and actuate an alarm on the University switchboard.

Kenney has the responsibility for keeping check on the various laboratories of the University where radioactive materials (Continued on page eight)

New Methods Studied for Oil Recovery

Studies relating to newer methods of oil recovery are being conducted by the department of petroleum and natural gas at the University. Particular emphasis is being placed on the school alcohol slug process and the combustion drive recovery method.

The alcohol slug process has been studied theoretically by application of the mass transfer and displacement theories. Experiments have been conducted using cores of different lengths made of packed glass beads and packed crushed Berea sandstone. A 100 foot core has been assembled to study the alcohol slug process under "pilot plant" conditions more nearly resembling actual field conditions.

The aim of this research is to understand how the oil is contained in oil-bearing sandstone and how it can best be displaced towards the producing well. The mechanism of fluid flow and displacement of oil from porous media have been studied through use of a microscope technique.

These studies are supported by grants from the Pennsylvania Grade Crude Oil Association, South Penn Oil Company and the State Special Petroleum Fund. The research is under the direction of Dr. R. L. Slobod, professor and head of the department of petroleum and natural gas engineering.

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WMAJ Radio Program Schedule

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Monday through Friday

6:28 Sign On	10:31 Morning Show	6:00 News, Markets
6:30 Morning Show	11:00 News	6:15 Sports Special
7:00 News	11:05 Swap Shop	6:30 Curtain Time
7:05 Morning Show	11:15 Classical Interlude	7:00 Fulton Lewis Jr.
7:10 News	12:00 Music at Noon	7:15 Stock Report
7:15 Morning Show	12:15 Center County News	7:20 Curtain Time
8:00 Sports	12:30 What's Going On	7:55 News
8:05 News	12:35 Music Show	8:00 Curtain Time
8:10 Morning Show	1:00 News, Spts., Market	8:00 News
8:30 Morning Devotions	1:15 Afternoon of Music	9:05 Music of the Masters
8:45 Morning Show	2:10 News	10:00 News
9:00 News	3:15 Afternoon of Music	10:05 Summer Session
9:05 Morning Show	4:10 News	11:00 News
9:30 Local Headlines	4:45 Afternoon of Music	11:05 Sports
9:32 Morning Show	5:00 Local News	11:15 Summer Session
10:00 News	5:05 Curtain Time	12:00 News and Sports
10:05 Morning Show	5:30 News	12:05 Summer Session
10:30 Local Headlines	6:35 Curtain Time	1:00 News and Sports
		1:05 Sign Off

Saturday

6:28 Sign On	10:45 Public Affairs For.	6:30 Music Show
6:30 Morning Show	11:00 Farm & Home For.	6:45 Blue Cross Music
7:00 News	11:15 Album of the Week	7:00 Music Show
7:05 Morning Show	11:30 News	8:00 News
7:30 News	11:35 Music Show	8:05 Bandstand
7:35 Morning Show	12:00 Sen Hays	8:30 Sports
8:00 Sports	12:15 Centre County News	8:35 Bandstand
8:05 News	12:30 What's Going On	9:00 News
8:10 Morning Show	12:35 Music Show	9:05 Bandstand
8:30 Morning Devotions	1:00 News	9:30 News
8:45 Morning Show	1:05 Music Show	9:35 Bandstand
9:00 News	1:20 Baseball Warm-Up	10:00 News
9:05 Morning Show	1:25 Pittsburgh Baseball	10:05 Summer Session
9:30 News	2:00 News & Sports	11:00 News
10:30 News	5:00 News	11:05 Sports
10:05 Morning Show	5:05 Music Show	11:15 Summer Session
10:15 News	5:50 Rep. Van Zandt	12:00 News and Sports
10:30 Rep. Fulmer	6:00 News	12:05 Summer Session
10:30 News and Sports	6:15 Sports Special	1:00 News and Sports
		1:05 Sign Off

Sunday

7:28 Sign On	10:45 Local Church Serv.	8:00 Billy Graham
7:30 News	Music Show	8:30 Sunday Sports
7:35 Children's Show	12:15 National, Local	8:45 Music
8:00 News	News, Sports	9:00 News
8:05 Sunday School Lesson	12:30 Church World News	9:05 Music of the Masters
8:30 Reformation Hour	12:45 Baseball Warm-Up	10:00 News
9:00 The Herald of Truth	12:55 Pitt Pirate Baseball	10:05 Summer Session
9:30 Mormon Tabernacle Choir	News and Sports	11:00 News
9:45 Christian Science	Pitt Pirate Baseball	11:05 Sports
10:00 Ave Maria Hour	News and Sports	11:15 Summer Session
10:30 News and Sports	7:00 Music	12:00 News and Sports
	7:30 Protestant Hour	12:05 Summer Session
		1:00 News and Sports
		1:05 Sign Off

PITTSBURGH PIRATE BASEBALL SCHEDULE

June 9	S.F. at Pgh	8:10 p.m.
10	S.F. at Pgh	8:10 p.m.
11	S.F. at Pgh	1:25 p.m.
12	L.A. at Pgh	8:10 p.m.
13	L.A. at Pgh	1:25 p.m.
14	L.A. at Pgh	12:55 p.m. (2 games)
15	No Game	