University graduate is Nobel Prize winner

WASHINGTON (UPI) — Nobel Prize winner Paul Berg, a 1948 Penn State graduate, said "it took a few seconds until it sunk in" yesterday morning when he was notified of the honor.

"It was very unexpected," Berg said, adding that he was somewhat concerned that the demands made upon Nobel laureates might detract from his work.

Berg, 54, a biochemist at Stanford University, shared the chemistry prize with Cambridge University molecular biology professor Fredrik Sanger and American Walter Gilbert.

Sanger, 62, won the same award in 1958 for work on the structure of proteins, especially of insulin. Only three other people have won two Nobel prizes in the 79-year history of the awards.

The physics award was won by Americans James Cronin and Val Fitch for research which removed questions that had clouded the "big bang" theory of the origin of the universe. The Swedish Academy of Science said.

After graduating from Penn State, Berg, a New York city native, earned his Ph.D. in biochemistry from Western Reserve University in 1952.

Six years ago Berg led a go-slow movement because he feared gene transplant research might get out of hand.

He has since concluded that any risk is exceedingly small from experiments in which genes from one organism are spliced to those of another to create micro-organisms with new capabilities.

But back in 1974, when what scientists call recombinant DNA technology was in its infancy, Berg said not enough research had been conducted to determine if a serious hazard actually existed.

The concern was that experiments linking genes of different organisms might produce novel types of drug-resistant germs or spread dangerous viruses.

Berg was head of a National Academy of Sciences committee that appealed for scientists around the world to postpone certain kinds of experiments until their risks could be evaluated.

"Our concern for the possible unfortunate consequences of indiscriminate application of these techniques motivates us to urge all scientists working in this area to join us in agreeing not to initiate certain types of experiments until some resolution of the outstanding questions has been achieved," Berg said on July 18, 1974.

Three years later, in testimony before a House subcommittee, Berg said that after considerable study and discussion, he and others in the field had concluded their initial concern was not supported by the facts.

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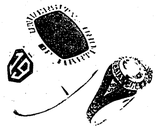

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U-034
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Institute formed to solve transportation problems

by WALT De TREUX
Daily Collegian Staff Writer

When was the last time you complained about riding your car into a cavernous pothole, or ruined your best suit waiting for the bus which always arrives "on schedule," or suffered through a summer heatwave in a three-mile traffic tie-up? Big cities and small towns face these problems day in and day out.

The Pennsylvania Transportation Institute, located opposite campus on University Drive at Hastings Road, attempts to solve these transportation problems by extensive research and testing.

The Institute was established in 1968, largely through the efforts of Robert D. Pashek, acting director of the Institute and associate dean of the College of Business Administration; Wolfgang Myers, retired professor of mechanical engineering, and Thomas D. Larson, state secretary of transportation and former director of the Institute.

There are only five other such institutes in the country. They include Texas A&M, Massachuesetts Institute of Technology, the University of Tennessee, Northwestern University, and the University of California at Berkeley.

Pashek said the purpose of the Institute is "to bring the faculty and the colleges together in regard to a common area of interest — transportation."

The Institute serves the University as well as outside interests. For researchers and graduate students, the Institute's staff provides secretarial help and edits reports. The Institute's library also houses an extensive collection of rare and specialized books in the field of transportaiton. These services are also available to outside researchers who request help from the Institute.

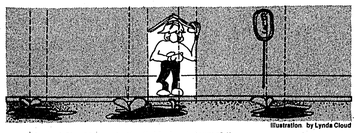

Illustration by Lynda Cloud

James H. Miller, professor of business logistics and director of the public transportation program, described the structure of the Institute as "fairly informal."

Miller said the structure of the Institute is defined "by the individuals who happen to be interested at the time." He said this personal involvement contributes to the Institute's success.

Pashek said the Institute receives its base funds from the University. However, most of its funding results from contract research. The Institute submits a bid to the research sponsor, and the sponsor selects the best bid from among the competing researchers.

Pashek said two of the Institute's biggest sponsors are the federal government and the Pennsylvania Department of Transportation.

The researchers of the Institute have access to a variety of modern testing apparatus including several tire-testing machines, a circular test track and an experimental bridge.

The circular test track is located about one mile beyond the airport. The track is used extensively for research on tire-pavement interactions. The experimental bridge, located at the same place, tests bridge durability and bridge construction materials.

Researchers at the Institute are involved in research ranging from transportation of coal to pothole solutions to the possiblity of sulfur and asphalt roads, Pashek said.

Kenneth W. Crowley, professor of civil engineering, in cooperation with the State College-based Institute of Research, is involved in research concerning drivers' informational needs in construction work zones. The research started 18 months ago and another six months of research is expected.

Crowley said the research project, sponsored by the Federal Highway Administration, attempts to define "an ideal information system at work zones, not allowing for individual interpretation by individual drivers.

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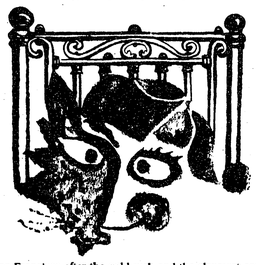

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Penn State administrators, faculty members and students will be giving 5-10 minute presentations on issues involving the semester change, with a Question and Answer session following. This is your chance to get directly involved and learn the issues.
THE VOICE OF THE STUDENT MUST BE HEARD. WITH YOUR HELP, STUDENT OPINION CAN COUNT!
R-034

Wednesday Evening

6:00 (3) WEATHER-WORLD
(5) STARSKY AND HUTCH
(6) (8) (10) 22 NEWS
(9) JOKER'S WILD
(11) HAPPY DAYS AGAIN
6:30 (3) SYSTEMS MANAGEMENT
(6) NBC NEWS
(8) ABC NEWS
(9) TIC TAC DOUGH
(10) (21) (22) CBS NEWS
(11) SANFORD AND SON
7:00 (3) MACNEIL-LEHRER REPORT
(5) M.A.S.H.
(6) (8) DAILY NUMBER
(9) BULLSEYE
(10) (22) TIC TAC DOUGH
(11) BARNEY MILLER
(21) JOKER'S WILD
7:01 (8) M.A.S.H.
(6) PM MAGAZINE
7:30 (3) DICK CAVETT SHOW
(5) ALL IN THE FAMILY
(6) YOU BET YOUR LIFE
(8) TIC TAC DOUGH
(9) FACE THE MUSIC
(10) FAMILY FEUD
(11) NEWS
(21) JOKER'S WILD
(22) HOLLYWOOD SQUARES
7:58 (8) NEWSBRIEF
8:00 (3) DIONNE WARWICK IN CONCERT: SOUNDSTAGE SPECIAL Captured in a performance at Chicago's Park West Theater, this program combines a taped interview with Dionne Warwick's renditions of some of her now classic hit songs. (60 mins.)
(5) P.M. MAGAZINE
(6) MAJOR LEAGUE BASEBALL WORLD SERIES
(8) ABC SPECIAL MOVIE 'Friendly Fire' 1979 Stars: Carol Burnett, Ned Beatty. The patriotic parents of an American soldier killed in Vietnam investigate the mysterious events surrounding his death, despite government opposition. (3 hrs.)
(9) MOVIE -(DRAMA) *** 'New Centurions" 1972 George C. Scott, Stacy Keach. The experiences and tensions of rookie cops in Los Angeles. (2 hrs.)
(10) (21) (22) THE BUGS BUNNY MYSTERY SPECIAL Bugs Bunny comes within a hare's breadth of being dubbed Public Rabbit Number One when a series of mistaken identities involves him in a mini-crime spree.
(11) JIM ROCKFORD: PRIVATE INVESTIGATOR Baseball 'In the event the New York Yankees participate in the World Series, WPIX will telecast the game from Yankee Stadium. Alternate schedule will apply.)
8:30 (5) HERY GRIFFIN
(10) (21) (22) PUFF THE MAGIC DRAGON A musical animated special based on Peter Yarrow's classic hit song and made famous by Peter, Paul and Mary, wherein a young boy acquires from a magic dragon the courage to face growing up.
9:00 (3) (6) PETE This program offers a profile of New Orleans clarinetist Pete Fountain, sometimes known as the Crescent City's top tourist attraction. Included is rare footage of the young musician marching in Mardi Gras, fishing with friends, relaxing with family and performing his inimitable jazz. (60 mins.)
(10) (21) (22) CBS WEDNESDAY NIGHT MOVIE 'And Your Name Is Jonah' 1979 Stars: Sally Struthers, James Woods. A poignant drama about a New York couple whose 7-year-old son is discovered to be profoundly deaf after having been incorrectly diagnosed as mentally retarded. (2 hrs.)
(11) DONAHUE SHOW
10:00 (3) GOVERNMENT AS IT IS 'Judicial Branch' Washington insider Jack Anderson focuses on the judicial branch, from the federal court system to the U.S. Justice Department. (60 mins.)
(5) NEWS
(9) NEWARK AND REALITY
(11) INDEPENDENT NEWS
10:30 (5) MEET THE MAYORS
(11) NEWS
11:00 (3) ABC CAPTIONED NEWS
(5) M.A.S.H.
(6) (8) (10) (21) (22) NEWS
(9) MAUDE
(11) RHODA
11:30 (3) SHEPHERD'S PIE
(5) KOJAK
(6) THE TONIGHT SHOW Guests: Goldie Hawn, Judges Richard and Robert Roylaton. (60 mins.)
(8) ABC NEWS NIGHTLINE
(9) MORECAMBE AND WISE
(10) (21) (22) CAMPAIGN COUNTDOWN
(11) PRISONER: CELL BLOCK H
11:50 (8) LOVE BOAT—POLICE WOMAN Love Boat—'Ex Plus Y' Two newlyweds are distracted by the appearance of the bride's ex-husband. Police Woman—'The Chasers' Pepper and Crowley go after a ring of ambulance chasers. (Repeat; 2 hrs., 15 mins.)
12:00 (9) MOVIE -(SUSPENSE) ** "Sam's Song" 1974 Robert De Niro, Jennifer Warren. A nonconformist young filmmaker is invited to spend the weekend at the home of wealthy friends. Tensions mount and finally explode in a shocking and tragic climax. (2 hrs.)
(10) (21) (22) CBS LATE MOVIE 'Overboard' 1978 Stars: Angie Dickinson, Cliff Robertson. A successful attorney gives up his lucrative practice to sail around the world with his reluctant wife. (Repeat)
(11) ODD COUPLE
12:30 (5) HOGAN'S HEROES
(8) TOMORROW
(9) MEDICAL CENTER
1:00 (6) RAT PATROL
1:30 (5) ADAM 12
(11) TWILIGHT ZONE
2:00 (8) MOVIE -(HISTORICAL-DRAMA) ***½ "Anthony Adverse" 1936 Fredric March, Edmund Gwenn. A historic romance based on Hervey Allen's book about the moral and education al growth of a young man through experience. (2 hrs., 52 mins.)
(9) JOE FRANKLIN SHOW
(11) (22) NEWS
(21) NEWS (TIME TENTATIVE)
2:15 (10) NEWS
2:30 (3) MOVIE -(DRAMA) **** "Time Limit" 1957 Richard Widmark, Richard Basehart. The story of the trial of an American military officer suspected of collaborating with the enemy as a P.O.W. in North Korea. (2 hrs.)
2:45 (11) THOUGHT FOR THE DAY
3:00 (8) MOVIE -(DRAMA) ** ½ "Caper of the Golden Bulls" 1967 Stephen Boyd, Yvette Mimieux. Charming ex-safecracker is blackmailed into re-employing his skills in order to rob the bank of Spain during a festival. (119 mins.)
4:30 (11) BIOGRAPHY
5:00 (3) PRAYER
(11) LIFE OF RILEY
5:04 (6) NEWS
5:30 (8) DANIEL BOONE
(11) NEWS

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