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Lt. Governor Visits Energy Center

by Michael Ross
Collegian News Editor

Lieutenant Governor of Pennsylvania, William W. Scranton, toured Behrend's energy center on April 18 and awarded sixth graders from two Erie elementary schools for their efforts in conserving energy.

Scranton, who is chairman of the Governor's Energy Council, said that "Energy centers such as Behrend's, established and funded by the Energy Council, have helped save the state \$7 million in energy costs."

The awards were sponsored by the Keystone Energy Education

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Network, a partnership of industry, education and government groups.

The students completed energy related projects in all of their classes and are a select group of 2,400 students in the state that will receive the award.

The Behrend Energy Center is one of 10 others in the state and

serves an eight county region. The center was granted \$40,000 with the stipulation that for every \$30 spent the center must save one barrel of oil.

Students majoring in Energy & Environmental Technology have given on-site energy evaluations for the purpose of cutting down on energy costs. Before giving these evaluations the students were trained by members of the Governor's Energy Council. These students have done over 70

of these evaluations since the center's inception in January.

Though the use of innovative energy sources such as cogeneration and solar power future energy savings can be assured, Scranton said.

Scranton also added, "I am certain that Erie and all of Northwestern Pennsylvania will experience the same positive results in energy conservation and energy dollars saved that our (eight other) centers have brought to other areas of the state."



Lieutenant Governor William W. Scranton

Faculty Member Applies Research to Combat Cardiovascular Disease

by Thomas Milley
Collegian Staff Writer

Dr. Amir Khalilollahi, assistant professor of mechanical engineering, is conducting biomechanical engineering research, the engineering discipline concerned with the application of engineering technology and principles to the life sciences.

He told the Behrend Collegian that biomechanical engineering has several uses, such as the designing of prosthetic devices, the construction of artificial hearts and heart valves, artificial joints, dialysis machines and the like. Working together with physicians, biomechanical engineers strive to assist in the advancement of medicine and the prolonging of life.

Khalilollahi earned his Ph.D in Engineering Mechanics in Dec., 1983. He is concerned with what he can do to lower the number one cause of death of people in America, cardiovascular diseases. So he strived to apply his knowledge of fluid dynamics to the specific problem of analyzing the viscous flow through distended arterial vessels.

His dissertation, "A Mathematical Model for Stenosed Arterial Flow: The Effect of Wall Distensibility," has produced several subsequent papers on the subject.

Simply put, his dissertation concerned a model for analysis of the several factors involved in the arterial distension which occurs prior to a hemorrhage. There are two basic situations in which a

hemorrhage will occur, the first being the case where an artery becomes clogged by lipids and cholesterol and the second when an artery is pinched off between a bone and a muscle.

He explained that an example of the second type is the case of a congenital defect of the cervical rib (the one nearest the neck) in which case the carotid artery becomes bulged as neck muscles pinch it off. Such an occurrence would be fatal, should the carotid artery hemorrhage. There are five different factors involved in the analysis conducted by Khalilollahi in his thesis experiment. These are the introduction of turbulent flow: the chemical inconsistency of the blood, the sheer stress on the vessel walls, the eddying of the

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Behrend Considering Plastics Technology Major

by Barrett Parker
Collegian Staff Writer

Behrend may soon have a plastics technology major. Dr. John Grode, assistant professor of mechanical engineering technology, says the new major is "only in the discussion stage." The major is now being considered for reasons which *The Quarterly Review* has quoted, "Northwestern Pennsylvania has established itself as a national leader in plastics technology and production. And now it is establishing a reputation for educating young people in that field. Dozens of area plastics companies are forced to look to schools in Kansas, Michigan, and

Massachusetts for talented people."

A committee has been formed to raise \$2 million for an equipment endowment. Co-chairing this committee are Joe Prischak, president of Plastek Industries, Inc. and Paul Roche Jr., president of Erie County Plastics Corporation.

When asked when the plastic technology major would actually appear at Behrend, Grode said, "There are many steps before that happens." Such steps include curricular review by the university. Such a proposed "hands-on" plastics major would be the only one of its kind in Pennsylvania.

ABC Anchorman Speaks at Business Luncheon

by Kevin Moore
Collegian Staff Writer

On Thursday, April 25, Peter Jennings, one of the nation's most visible journalists visited Erie. The Pennbank Executive's Club brought ABC's national anchorman to the Shriner's Club for a luncheon. The topic of the guest speaker's discussion was "International Relations".

Seated at the head table were the President of Pennbank-Erie, the President of Hammermill, Al Duvall, Erie Mayor Louis Tullio, Bishop of the Erie Diocese Michael Murphy and Peter Jennings. At the conclusion of the meal, members of the head table presented gifts and welcomed Jennings to Erie.

When the formalities ended,

"...when the debates got heated toward the end, Mondale said, 'God has no place in politics!' Evidentially God feels the same about Walter Mondale."

Mr. Jennings began his speech with witty introductory remarks about former Soviet Leaders, the last Presidential Debate, and Walter Mondale. Jennings said, "Remember last year when the debates got heated toward the end and Mondale said 'God has no place in politics?' Evidently God

feels the same about Walter Mondale." Humorous comments such as these dotted Jennings 45-minute speech.

Jennings spoke about world relations; more specifically, U.S.-Soviet relations. He said, "The time to talk is now, while there is room for rethinking. The 'old guard' has nearly disappeared and there is clearly room for new thinking...Mikhail Gorbachev has proven that he can compete for world attention as a

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