

Behrend briefs

A Flu vaccine is available at the Health Center for the 90-91 flu season. The cost is \$6.00 per injection.

The Last day for advance registration is Nov. 6 from 8:30 a.m. to 4:30 p.m. Your student ID card is required to register.

A Toronto trip is being sponsored by the honors program on March 16 - 17. Cost of the trip is \$64.00 plus theater tickets. Reservations and deposits are due by November 12. For more information call 6160 or stop by the Provost's Office.

Food and clothes drive will be sponsored by Alpha Phi Omega in the Wintergarden Lobby from 10 a.m. to 4 p.m. For more information contact Glenn Miller at 454-8093.

SPC will co-sponsor a fall, informal dance with Mercyhurst, Friday, Nov. 9 from 9 p.m. to 1 a.m. Admission and refreshments will be free.

The Logan Series will be introducing opera to Behrend students with LaBoheme by Puccini. For confirmed opera buffs, it holds the sweet nostalgia of a first love. Sung in English, the Eastman Opera Theatre will explore the famous opera's appeal based on an honest reflection of our deepest feelings about love and death as well as the universal need to clown around and enjoy life "Full tilt." The performance will be Monday, Nov. 5 at Noon in the Wintergarden.

"Coffee with the Provost" will be held Wednesday, Nov. 7 at 10 a.m. in the Reed Seminar Room. This is an opportunity for students to discuss issues and concerns with Dr. John Lilley.

"Successful Stress Management" will be presented by Dr. Louanne Barton, Staff Psychologist, Student Services on Thursday, Nov. 1 at Noon in Reed 116.

All Saints Day will be celebrated with a Roman Catholic Mass on Thursday, Nov. 1 at 5:30 in the Reed Lecture Hall by Rev. Joseph Olsen.

Jesus Christ on trial. A trial will be held tonight at 7:30 p.m. in Reed 119 to determine if Jesus was who he claimed to be.

The Learning Assistant Center's phone has been hooked up. The number is 898-6014. The Center is located at the South Cottage and tutors are available for English, Math, Physics, Chemistry, and Writing.

Women's Film Series will present "Vagabond", directed by Agnes Varda on Thursday, Nov. 1 at 7:30 p.m. in the Reed Lecture Hall. Discussion will follow.

Graduation for Summer and Fall 1990 will be held on campus Saturday, Jan. 5, 1991 at 1 p.m. in Erie Hall. Keepsake caps and gowns are priced at \$14 and must be ordered from the Bookstore no later than Friday, Nov. 9, 1990.

All Commu 001 students be sure to turn in your tear sheets and hard copy folders to The Collegian office by Monday, Dec. 5.

Police Report:

Student sent to Erie County Prison; instructor's office burglarized

by Richard S. Gajewski
The Collegian

On Wednesday October 24 a student was arrested for possession of a stolen parking permit. The student was arraigned before District Justice Nakoski and processed by Police and Safety. The student was remanded to Erie County Prison in lieu of \$500.00 cash bond.

Burglary

Also on Wednesday an instructor reported to Police and Safety that books and papers were missing from his office. He

stated that upon returning to his office he found the door open and the items missing. He also stated that boxes usually left in the hall for students homework were inside the office.

Student Injured

Last Thursday Police and Safety were called to the Reed Building for a student who had passed out. The student was taken to the Health Center and checked by the nurse. The student was advised that her blood sugar and blood pressure were low because she was not eating enough. She was then taken to her residence

by Police and Safety and advised to eat a meal with pasta.

Fire

Last Sunday officers from Police and Safety were called to the Niagara Residence Hall for a fire alarm. Residents in Niagara had set a waste can on fire while smoking. The room became filled with smoke and set off the fire alarm. The building was evacuated and checked for damage. None was found and no residents were injured. Students were then allowed to return to the building.

Marande takes arm chair explorers on a "Journey through the Universe" Professor explores black holes, blazing suns

by Rob Farnham
The Collegian

Dr. Robert Marande took a Reed Lecture Hall audience on a "Journey Through the Universe" Tuesday night as part of the 1990-91 Provost's Speaker Series. Marande is an associate professor of physics at Behrend and recipient of the 1989-90 Council of Fellows Excellence in Teaching Award.

His lecture was on astronomical objects and phenomena and attempted to bring a greater understanding of the surrounding universe to a lay audience. He illustrated points with color slides and overhead projections, including diagrams of our solar system and our own Milky Way galaxy.

Using Earth as his starting point, Marande proceeded from a brief tour of the planets of our solar system to a description of comets, likening them to "dirty snowballs" that are "probably the oldest undisturbed objects" in our galaxy.

After discussing the possible origins of comets and theories regarding their influence on the Earth's development, he moved on to explain several categories of stellar objects, including our own sun ("really the closest star"), red giants, planetary nebulae, neutron stars, pulsars (which were once thought to be navigational beacons), and black holes.

Moving still further out, Marande talked about other galaxies -- the nearest of which, Andromeda, is approximately 4.3 million light years away. Included in his discussion were spiral galaxies, such as ours, which are younger and in which new stars are born, older or elliptical galaxies, so-called "radio" galaxies from which radio-frequency transmissions can be picked up, and the manner in which galaxies interact and form clusters. "Galaxies don't like to

be alone," he said by way of explanation.

Several times during his presentation, Marande stressed the importance of understanding the sciences and said that science, especially physics and astronomy, is "a study of nature." He also said, "watching the night sky, 'You're really looking at history,' because of the tremendous distances involved (4.2 light years to the nearest other star) and the time it takes for light from other systems to reach us.

He reminded the audience

several times that he was giving them highly condensed and simplified versions of the concepts involved in stellar and galactic evolution.

Explaining gravity, he said that it "makes indentations in space," and likened its effect on the fabric of space to the distortion a weight causes on the surface of an inflated beach ball.

After his presentation Marande answered questions from the audience. He fielded queries about black holes and the methods by which the universe's age can be estimated.

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