

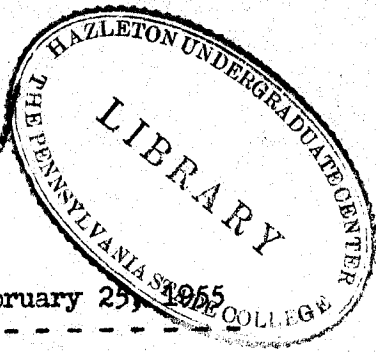
# COLLEGIAN

Weekly Newsletter

The Pennsylvania State University Center  
Hazleton, Penna.

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REGIONAL PENN STATE ALUMNI AND STUDENTS  
CELEBRATE 100 YRS ANNIVERSARY AT HIGHACRES

Approximately 80 alumni and students of Highacres, gathered in our main lounge and cafeteria on Tuesday evening to listen to the 100th anniversary program that was transmitted by telephone from the newly dedicated Hetzel Union Building on the main campus. After listening to speeches by Gov. George Leader, Speaker Hiram Andrews, and President Milton Eisenhower, those attending joined with our College Community Chorus in singing the favorite songs of Penn State and the Alma Mater. The Center provided refreshments to conclude the evening.

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CONFIDENCE(?)

Few students here at Highacres ever see the inside of Mr. Ward's Physics Lab and so miss all the interesting (and complicated) contrivances that are used there. One of these was recently assembled by Mr. Ward - a device known as a tuning fork calibrator.

The Physics classes use tuning forks in some of their experiments and naturally must know the exact number of vibrations-per-second of each fork. This number is stamped on the fork, but (according to Mr. Ward) since the students can't take anyone's word for anything, they have to find out whether or not the given number of vibrations is accurate with the number stamped on the fork.

The set-up for obtaining the information includes a revolving disk punctured by concentric rows of holes. In the experiment, a beam of light is directed on one row of holes as the disk turns. The light then makes regular pulses as it shines through one hole after another, and when this succession of light rays falls on a photoelectric cell it produces a pulsating current of electricity. When amplified, this pulsating current produces a tone. The frequency of the vibrations of this tone can be increased or decreased by changing the speed at which the disk rotates. If the tuning fork is struck and held in front of a microphone, it will produce a tone simultaneously with the other. If the fork is vibrating at not quite the same rate as the tone produced by the photoelectric cell, a definite, regular 'beat' will be audible. This 'beat' proves that the tuning fork is not vibrating at the prescribed rate. Then, by certain mysterious mathematical computations involving slide rules and long columns of figures, the fork's actual number of vibrations-per-second can be determined. Simple, but interesting!

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VOLPONE

On Monday, March 7, a film entitled Volpone, will be shown at Highacres. This is a French film based on Ben Jonson's comedy, with Harry Bauer as Volpone and Louis Jouvet as his all too shrewd servant.