

Wooden Box to Become 'Actor' in New Comedy

By PAT HUNTER
Collegian Feature Editor

Impossible as it may seem, perhaps one of the most important "actors" in Eugene Raskin's fantastic comedy, "One's a Crowd," is a small wooden box.

The play, which begins its six-weekend run at 8 p.m. Friday at Center Stage, is the story of Stephan James, who complicates his life quite a bit by separating into four different personalities.

Debate Team Places Third At Tourney

The men's debate team placed third in the annual Marshall-Wythe debate tournament which was held last weekend in Williamsburg, Va.

The topic of the debate was resolved: That the United States should discontinue direct economic aid to foreign nations.

'Pro' Team Record

The affirmative team won three and lost three debates. It defeated Duke, Morris-Harvey, and University of Virginia, losing to Ohio State, Pace and Princeton. Members of the team were Jonathan Plaut, senior in industrial engineering from Rockville Center, N.Y. and Edward Klevans, senior in electrical engineering from Roaring Spring.

Wins Four

The negative team won four debates and lost two. It won over Army, Richmond, Hampton-Sydney and Emory. Dartmouth and George Washington defeated it. Members of the team were Gerald Bogus, sophomore in arts and letters from Brownsville and Robert W. Adams, junior in business administration from Johnstown.

In the entire tournament, the negative teams from the 40 competing colleges and universities won 68 per cent of the debates. Princeton won the tournament.

Three Will Run In WH Election

Louis Wonderly, junior in business administration from Phoenixville, and Lawrence Kowalski, junior in arts and letters from Hazleton, were nominated for the presidency of the West Halls Council at a meeting Monday night.

Carl Smith, freshman in chemical engineering from Scranton, was nominated for vice president.

Elections will be held next Monday.

A notice from Dean of Men Frank J. Simes on fireworks was read at the meeting. It reminded students that the penalty for using them may be suspension.

The projects committee was instructed to investigate the possibility of having the sidewalks in the West Halls quadrangle repaired. It will also determine whether the University regulation that no calls may be made within the West Hall dorms after noon can be changed.

AF Drill Team to Meet

A special meeting of the Air Force Reserve Officers Training Corps drill team will be at 3:10 p.m. tomorrow at the Armory.

Employment Interviews

The following firms will conduct interviews for June and August graduates in the Placement Service in 112 Old Main:

- March 6:**
Carrier Corp. BS, MS: AeroE, ArchE, AgE, ChE, EE, EngSci, ME, IE; Also Jrs. for Summer Employment.
Ford Motor Co.: BS, MS: Acctg. Fin. Econ, ME, AgE, IE, EE.
Kroger Co.: BS: AgEc, AH, PH, LA, Econ, T & T, Mktg, Bus Mgmt, Acctg, Adv., LMR.
Riegel Paper: BS: Econ, LA, Math, Mktg, ChE, Chem, IE; Also Jrs. in above fields for Summer Employment.
Provident Mutual Life Ins. Co. of Phila.: BS: Acctg, Math, LA, BusAdm, Ed, Psych.

The following camps will conduct interviews for prospective counsellors at the Student Employment Service:

- Feb. 23:**
Camp Delwood, Penna.
Indian Lake Camp, Penna.
Camp Rondack, New York
New Jersey YMHA Camps, Penna.

Local Burglary--

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morning, but the president of the Baltimore fraternity and the three fellows who remained here have refused to give the information.

The three who remained here are John Arnett, of Kearny, N.J.; William N. Vanous Jr., of Annapolis, Md., and John E. Wordon Jr., of Washington, D.C.

Goods Returned
All of the stolen material was returned except for two topcoats and a suit. Theta Chi of Baltimore has promised to pay compensation, which would amount to \$263.90, including damage done to the finish of the articles of furniture.

Taken in the robbery was \$1367 worth of furniture and clothing, including 2 end tables, 6 lamps, 10 overcoats, a radio-phonograph combination, and a hi-fi set.

Marriages

Hartman-Silk

Miss Patricia Silk, daughter of Mrs. Edward Silk of Philadelphia, was married to Ronald Hartman, son of Mrs. Hilda Hartman of Litzitz, in January.

Mrs. Hartman is a junior in elementary education. Mr. Hartman is a senior in landscape architecture and a member of Acacia fraternity.

Springman-Dimmick

Mr. and Mrs. Glenn L. Dimmick of Haddon Heights, N.J., have announced the marriage of their daughter Carolyn Jean to Charles Edward Springman, son of Mr. and Mrs. Frank Springman of Lancaster.

The marriage took place Feb. 10 in St. Andrew's Episcopal Church, State College.

The former Miss Dimmick is a junior in art education and is a member of Kappa Delta sorority. Mr. Springman is also a junior, and is majoring in recreation education. He is a member of Lambda Chi Alpha fraternity.

ICG Replaces Officer

James Goodwin, junior in physics from Philadelphia, has been elected vice president of the University chapter of the Intercollegiate Conference on Government.

He replaces Daniel Thalimer, who resigned for scholastic reasons.

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Microscope Advance Predicted by Inventor

Further improvement of the field ion microscope, at present the most powerful microscope in the world, is seen by its inventor, Dr. Erwin W. Mueller, research professor of physics.

Dr. Mueller's contract with the Air Research and Development Command of the United States Air Force in Wash-

ington, in effect since 1953, will be extended for two years, beginning July 1, 1957. The Air Force has allocated \$64,522.74 for the two-year period, making its total contributions to Dr. Mueller's project \$178,646.40 since its inception in 1953.

It was through research and experimentation under the Air Force contract that Dr. Mueller developed and perfected his field ion microscope. This microscope has made it possible for the first time for scientists to see individual atoms and how they form the regular crystalline structure of a metal surface.

Arouses Interest

This accomplishment, announced in October, 1955, aroused great interest among scientists in the United States and other countries. Since then, Dr. Mueller has given many lectures on his field emission research here and abroad, and has published many articles in scientific journals.

Through the use of his microscope, Dr. Mueller developed methods of manipulating single atoms and of measuring the force necessary to move them. It also became possible to produce perfectly clean, atomically faultless metal surfaces.

In his efforts to improve the performance of his field ion microscope, including image intensity, Dr. Mueller plans to operate it at still lower temperatures, reaching minus 450 degrees Fahrenheit.

Gas Operated

The microscope, which has a magnification of about 2,000,000 times, has been operated with helium gas. In the future, Dr. Mueller intends to use other gases. He explains that the atomic structure of only the hardest metals can be observed when the microscope is operated with helium and he hopes that other gases will permit the study of softer metals.

Dr. Mueller plans to study the atomic structure of a large number of different metals in the next two years. Such relatively rare metals as tungsten, tantalum, molybdenum, rhenium and columbium, as well as the more familiar ones including copper, iron, platinum and nickel will be studied.

"It is known that disorder and Metal surfaces will be bombarded with fast ions and atoms to simulate conditions which occur in atomic reactors or on the surfaces of missiles traveling at tremendous speed through the upper atmosphere or through space. This research should throw light on studies of radiation damage," Dr. Mueller predicts.

Field emission is an important physical effect of great interest to physicists, but its practical significance in the past has been limited because of various technical difficulties. Dr. Mueller's field of ion microscope has ironed out many of these difficulties so that new research and experiments can be conducted.

Describes Problems

"It is now mainly an engineering problem to utilize in technical devices the unique properties of field electron emission," Dr. Mueller says.

The field ion microscope has become a most powerful, but so far, very little applied tool for the investigation of metal surfaces with respect to atomic structure, adsorption, catalysis and some problems of gas-and-surface dynamics and radiation damage. This is true because the operation of the microscope is so difficult and tricky that only a very skilled and experienced experimentalist can operate it.

Under the present contract, eight scientific publications have resulted, and Dr. Mueller has published in addition, six other scientific articles on field emission and its application.

To achieve this unusual feat, Stephan tampers with the small black box built by his inventor father, who says it is an atom splitter which he hopes will make him famous.

Ignoring his father's warnings, Stephan begins turning knobs and dials and manages to set the device in action.

A humming sound is started at the touch of the first knob and with the second, a flashing of three reddish-yellow lights begins.

Box Explodes

As his tampering continues, the invention suddenly explodes and Stephan James, who was once only one person is immediately split into four.

The box, which is approximately 18 inches long, 8 inches wide and 10 inches high, contains batteries which operate the humming buzzer, neon lights and the "explosion." The entire device is covered with copper screening which acts as a safety precaution against flying debris during the "explosion."

Endurance Secret

The real secret of the atom splitter, known only to its inventors, is just how it can blow up in Friday's performance and still remain in one piece to "explode" again twice each weekend until March 30 when the play closes.

The atom splitter, without which the play could not exist, was designed by Paul Wank, junior in psychology from Correy; Dean Eayre, freshman in education from Abington; William DeLaney, junior in electrical engineering from Wilmington, Del., and Charles Ross, senior in agriculture economics and rural sociology from Kane.

The atom splitter will be the main topic of an interview with the director of "One's a Crowd," Robert Reifsnider, associate professor of theater arts, at 9:15 tonight over radio station WDFM.

University to Send 4 to State Meeting

Four representatives of the University are to attend a meeting in Harrisburg today to hear details of a proposed plan to integrate Social Security with the State Employees' Retirement Plan.

The invitation was extended by Paul C. Moomaw, executive director of the Bureau of Social Security for Public Employees, a division of the Commonwealth's Department of Labor and Industry.

Representing the University will be Louis H. Bell, director of public information; Wilson M. Carr, methods coordinator; Frank F. Morris, director of personnel services, and J. W. Wilson, supervisor, employee benefits division.

Chess Club to Meet Tonight

The Chess Club will meet at 7 tonight in 7 Sparks. The meeting is open to the public.

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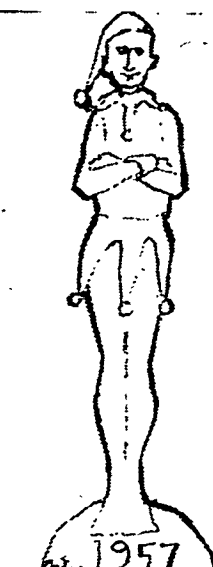
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