

FOR RELEASE: IMMEDIATE

Contact: Bob McGill



Mailed January 25, 1985

YOUNGSTOWN, Ohio - The Office of Continuing Education/Education Outreach at Youngstown State University is announcing that its "Where You Live and Work" 1985 Spring Quarter courses will again be offered at three off-campus locations: in Boardman, Hubbard, and Lordstown.

Among the courses to be offered at Boardman High School will be "Religion and Contemporary Issues: Feminist Theology," beginning Monday, March 25.

To explain YSU admission procedures and explore educational options, Continuing Education/Education Outreach counselors will meet with prospective students at local libraries from now through Feb. 28. These counseling sessions will enable adults to discuss admission requirements, degree options, career planning, off-campus course locations, other Continuing Education resources, and on-campus day, evening and weekend classes.

Appointments for a library counseling session may be made by calling the YSU Education Outreach office at (216) 742-3221.

"Religion and Contemporary Issues: Feminist Theology," will provide an examination of historical tradition and the contemporary human experience in an attempt to sort out the complexity of issues raised by feminist theology. Specific objectives include an understanding of: the historical evaluation of women and religion through the process of cultural interpretation; male and female images of God; key elements in male-female relations that contribute to the devaluation of women and the devaluation of nature; and, alternate ways of thinking of issues in religion.

MORE

ADD ONE

Eight hours in Religious Studies or Philosophy, or the consent of the instructor are a prerequisite to the credit course. Classes will meet on Monday and Wednesday evenings, 8-9:50, throughout the Spring Quarter, March 25 through June 8.

The instructor will be Mary Place Thomas, in-service coordinator of the YSU School of Education. She received her master's degree in education from Kent State University, and is presently working toward a master's degree in theology from Duquesne University, Pittsburgh.

Mrs. Thomas has been with YSU since 1972. Her published works include "Teaching Moral Values" for Scholastic Magazine, and "Dream On, But Be Practical About It," for the Ohio Elementary School Principals' publication.

In addition to Boardman High School, Education Outreach courses will be offered at Hubbard High School and the General Motors BOC Assembly Plant in Lordstown. These "Where You Live and Work" courses are designed to assist adults who want to enter or re-enter the University to attend classes in a setting that's conveniently located near their homes or workplaces in Mahoning, Trumbull or Columbiana counties.

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CUTLINE

This photograph of the dendritic nodules in an aluminum casting was made by Youngstown State University's scanning electron microscope at a magnification of 300 times. The microscope is especially helpful in finding possible fracture areas within a metal's structure.

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CUTLINE

Dr. Robert McCoy, Poland, a Youngstown State University associate professor of chemical and metallurgical engineering, works with YSU's scanning electron microscope, which is used by the chemical and metallurgical engineering, biological sciences, and allied health departments. Dr. McCoy, who is currently using it to investigate defects in various types of metals for several industries, also teaches students to use the microscope.

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(YSU PHOTO BY ELISE CLEARY)

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YOUNGSTOWN, Ohio - An apparently strong bridge collapses. A large crane unpredictably breaks and drops its heavy load. The axle on a truck speeding down a busy freeway fractures with disastrous results.

Metallurgical engineering students at Youngstown State University are learning that these fractures are often the result of minute internal defects in the structure of metal which can only be seen and identified by using a scanning electron microscope (SEM).

YSU acquired a SEM for use by the Metallurgical Engineering, Biological Science and Allied Health departments. In 1983, the capability of the SEM was greatly enhanced by the addition of an energy dispersive x-ray analyzer (EDXA).

Using high magnifications of up to 100,000 times, the SEM displays an image of the material's surface with excellent resolution and depth of focus, so that suspicious areas can be identified. The EDXA then analyzes the elemental composition of each of these areas. For example, faulty processing of a steel part could produce brittle particles which significantly weaken the structure. Such minute particles can only be found by using the SEM-EDXA combination.

The system, which is one of only a few in northern Ohio, is one of the most important and useful state-of-the art metallurgical research tools available, and has become indispensable for the automotive, aircraft and other manufacturing industries. The SEM-EDXA is especially useful in evaluating fracture surfaces because it allows accurate depiction of various fracture features. This enables metallurgists to locate the region which fractured first, and often to determine the cause.

MORE

Soon after the SEM was acquired, Dr. Richard Jones of North Jackson, professor of chemical and metallurgical engineering, began teaching a graduate course on it. In the Fall Quarter of 1984, Dr. Robert McCoy of Poland, an associate professor in the same department, initiated an undergraduate course on the SEM-EDXA system. This course presented a unique opportunity for YSU students, since it is seldom offered at an undergraduate level at any university.

In addition to learning the basic theory and operation of the system, the eight students who enrolled in the course completed individual term research projects which included the identification of specific objectives, preparation of a sample, and analysis of the sample through photomicrographs and x-ray spectrum of the elements in the sample.

Dr. McCoy says, "The students showed imagination in choosing a wide variety of topics to study."

Jeanine Layfield, Warren, identified a tungsten inclusion in a titanium alloy. Ray Schleiden, New Castle, Pa., evaluated the microstructures of two high-alloy cast irons used for grinders in a rock crushing machine. John Einfalt, Hubbard, diagnosed the fatigue failure of a steel bolt.

Bob DeMunzio, Warren, found a problem close to school to study. After a floor grate at the entrance to the Engineering Science building collapsed under a student, DeMunzio pinpointed the cause as corrosion of the aluminum bolts supporting the grate due to rock salt.

Also completing research projects were Cheri Bires, Fowler, Terry Hughes, Louisville, and Bill Clark and Chuck Lambis, Warren.

Dr. McCoy will teach a graduate course on the SEM-EDXA in the second term of the Summer Quarter. If sufficient student interest is shown, the undergraduate course may be offered again in the Fall Quarter of this year.

The microscope is currently being used in several metallurgical thesis and research projects, as well as for research in biological science and other

ADD TWO

areas. Dr. McCoy is investigating defects in various types of metals, and several area industries have asked him to check some of their products to determine possible metallurgical problems.

The Department of Chemical and Metallurgical Engineering is part of YSU's William Rayen School of Engineering.

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YOUNGSTOWN, Ohio - Youngstown State University's Winter Quarter enrollment is 14,468.

This is 282 fewer than enrolled last Winter, and 98.1 percent of that total of 14,750 students a year ago.

The student body this Winter includes 9,525 full-time students who are carrying 12 or more hours of credit, and 4,943 part-time students.

The Full-Time Equivalent this quarter is 11,113. (FTE is the student-credit hour formula used by the state to measure both part-time and full-time students into a full-time equation).

Of the total 14,468 students, there are 13,442 undergraduate and 1,026 graduate students; 7,702 men and 6,766 women.

The freshmen class leads enrollment with 4,595. Other class enrollment figures show 3,321 sophomores, 2,585 juniors, and 2,941 seniors.

Of those attending winter classes, 13,337 are Ohioans and 1,131 are from other states and foreign countries. (This past fall, 53 other nations were represented).

Winter enrollment by schools and colleges shows 5,032 in the College of Applied Science and Technology, 4,395 in the College of Arts and Sciences, 1,390 in the Warren P. Williamson, Jr. School of Business Administration, 1,026 in the Graduate School, 961 in the William Rayen School of Engineering, 856 in the School of Education, and 808 in the College of Fine and Performing Arts.

MORE

ADD ONE

A comparison of this quarter's class enrollment figures to those of the 1984 Winter Quarter shows the freshman class having the most change with 199 fewer students, while the sophomore and junior classes showed smaller drops. The senior class increased by 1 student.

Current freshman class enrollment is 95.8 percent of last winter's figure; the sophomore class is 97.2 percent; the junior class is 99.6 percent and the senior class is 100 percent.

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FOR RELEASE:

Mailed Jan, 25, 1985



ATTENTION: NEWS DIRECTORS/EDITORS

Dr. Anthony Stocks and Dr. Yih-wu Liu of Youngstown State University will hold a press conference at 9:15 a.m. Thursday, Jan 31, in the Buckeye Reception Lounge of Kilcawley Center to present their fifth annual economic forecast for the Youngstown-Warren Metropolitan Area and the nation, and to review this area's economic performance in 1985.

Covered in their forecast will be employment, weekly wages, manhours of work, and the wage bill by sector of activity.

For the Youngstown-Warren area, Drs. Stocks and Liu foresee no major upturn in either the manufacturing or non-manufacturing sectors, and an unemployment rate remaining in 11-12 percent range.

Nationally, their forecast indicates continued growth in real output for the first half of 1985, slowing in the second half.

Their forecasts, begun in 1981, are based on their own regional econometric model.

In addition to presenting a summary of their report, Drs. Stocks and Liu will answer questions. Copies of their report, including local and national economic interaction, will be available to media representatives attending the conference.

Dr. Stocks, Austintown, is chairman of the Department of Economics in YSU's College of Arts and Sciences, and Dr. Liu, Canfield, is professor economics. They have been on the YSU faculty for 17 years.

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