

**Archaeological Research**

# Matson Seeks Method Of Correct Fossil Dating

By JOEL MYERS

Dr. Fred Matson, professor of archaeology, is engaged in a unique research project which deals with carbon 14 dating of fossils.

He is not interested in the actual dating of the fossils, but in the error of the dating that is induced by the contamination by modern carbon products.

## Chapel Choir To Perform Verdi Requiem

The University Chapel Choir, directed by Willa Taylor, will sing Guiseppi Verdi's "Manzoni Requiem" for its annual concert.

They will also perform a special Easter service of music in addition to singing for regular services during the spring semester.

Auditions for new members will be held from 10 to 12 a.m. and 1:30 to 4 p.m. on Feb. 3, 4, and 5 and from 7 to 9 p.m. on Feb. 4 in the Helen Eakin Eisenhower Chapel.

The Chapel Choir with the University Symphony Orchestra and a quartet of professional singers will present the "Manzoni Requiem" at 8 p.m. May 21.

Hugo Weisgall, distinguished visiting professor of music, has accepted the choir's invitation to conduct the performance.

The Easter service of music will be sung at 8 p.m. April 10 in Schwab Auditorium.

Songs of English composers, including works by Thomas Wesley, William Byrd, Thomas Morley and Ralph Vaughn Williams will be performed.

## Nuclear Society Announces Officers

An advisor and student officers have been named for the newly organized chapter of the American Nuclear Society, national professional society for the advancement of nuclear sciences.

Nunzio J. Palladino, professor and head of the Department of Nuclear Engineering, will advise the group which was formed prior to Christmas vacation.

Officers pro tempore are Stanley Wintergrass, senior in physics from Nanticoke, president; William Bickell, sophomore in business administration from Bala Cynwyd, vice president; and Richard Hartle, graduate student in nuclear engineering, treasurer.

### Prof to Address Meeting

Dr. Hans A. Panofsky, professor of meteorology, will address a joint meeting of the Institute of Aeronautical Sciences and the American Meteorological Society in New York, N.Y., on Monday.

## Men Will Debate At 'Latrobe'

A Novice Tourney at St. Vincent's College in Latrobe Saturday will be the scene of the last debate of the semester for the Men's Debate Squad.

Michael Dzvoniik, freshman in chemical engineering from Leechburg, and William Swisshelm, sophomore in arts and letters from Pittsburgh, will argue the affirmative side in the tourney.

Ronald Watzman, junior in arts and letters from Carnegie, and William Lloyd, junior in arts and letters from West Chester, will debate the negative side.

While most students are registering, buying books, and traveling back home for the last weekend before the new semester, the varsity debating squad will be at William and Mary College in Williamsburg, Va.

They will participate in a tournament there on Feb. 4, 5 and 6. According to David Jabusch, instructor of speech and debate coach, this debate is one of the "most significant of the year."

Debating in Williamsburg will be David Goodhart, junior in business administration from Rutherford, N.J.; Vernon Barger, senior in engineering science from Curllsville; Alan Elms, senior in psychology from La Center, Ky.; and Alan Davidson, senior in arts and letters from Clearfield.

## 'Dames' Will Sponsor Charity Carnival Tonight

The Penn State Dames, an organization composed of the wives of University students, will sponsor a charity carnival from 8 to 11 p.m. tonight in the Extension Conference Center.

The carnival, which is open to the public, will feature a bake sale, a book and magazine sale, a white elephant sale, a cake walk, a sand box for children and a fish pond.

Carbon 14 dating is a relatively new method of determining the age of organic remains. It was developed by Dr. Willard F. Libby, formerly of the Atomic Energy Commission, in the late 1940's.

All living material contains some radioactive carbon, which it obtains from the carbon dioxide in the air. When life ceases the intake of air also stops and no additional radioactive carbon is added to the remains.

All radioactive substances, including carbon 14, decay at a certain rate known as the half life. That is, in the half life period one half of the original substance disintegrates.

For example, in a length of time that equals twice the half life period only one quarter of the original substance is left, Matson said.

By determining the amount of radioactive carbon in fossil remains one can find the age of the fossil.

Matson, who studied under Libby, has spent several years searching ancient civilizations for samples upon which to perform his experiments.

In 1953 he received a grant from the Wenner-Gren Foundation to examine old Indian sites along the Mississippi River below St. Louis.

In 1954-55 while on a sabbatical leave from the University he excavated ancient cities in the Near East under a National Science Foundation grant. This trip took him to Iraq, Syria, Lebanon, Jordan, Turkey and Egypt.

Since his return, he has been occupied with the job of examining and classifying the many and varied samples that he brought back from his expedition.

Once he has classified a particular sample, it is sent away for dating. Other universities and the U.S. Geological Survey have done most of this work.

The samples are then returned to Matson and he works in cooperation with the Department of Chemistry to try and find the amount of contamination that was caused by living organisms.

## Yeatman Named Head Of Student Employment

John A. Yeatman, who received his bachelor of arts degree from the University in 1955, has been named head of the Student Employment Service.

He succeeds Mrs. Virginia Gordon.

—Living today is a game of robbing Peter to pay Paul in order to make it possible to stand pat.

## Faculty News

### Harris Publishes 3 Psych Studies

Dr. Dale B. Harris, professor of psychology and former director of the Institute of Child Development and Welfare at the University of Minnesota, has published three articles in recent issues of scholarly journals.

"A Note on Some Ability Correlates of the Raven Progressive Matrices (1947) in the Kindergarten," which appeared in The Journal of Educational Psychology, concerns tests made in the St. Paul, Minn., schools.

"Life Problems and Interests of Adolescents in 1935 and 1957," appeared in The School Review for Autumn, 1959, and "Sex Differences in the Life Problems and Interests of Adolescents, 1935 and 1957," was published in Child Development recently.

### McNall Authors Article

Dr. Neil A. McNall, associate professor of American history, is the author of an article published in the winter issue of the Harvard Business History Review.

### Weintraub Contributes Article to Lit Magazine

Dr. Stanley Weintraub, instructor in English literature, has contributed an article, "The Embryo Playwright in Bernard Shaw's Early Novels," to the autumn 1959 issue of Texas Studies in Literature and Language.

Weintraub is editor of "The Shaw Review," published by the Shaw Society of America and the University Press, and has done much research on Shaw's novels. He contributed the introduction and notes for the "Unfinished Novel," first published in 1958.

### DeNovo Writes Articles For Magazine, Book

Dr. John A. DeNovo, associate professor of history, is the author of two recently published articles.

"A Railroad for Turkey" appeared in the Autumn, 1959, issue of The Business History Review; and "American Relations with the Middle East: Some Unfinished Business" appeared as a chapter in the book, "Issues and Conflicts," published by the University of Kansas Press.


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## HARD BOP RETURNS TO STATE

in the person of DITTY POTTER and his fabulously entertaining jazz quartet. The Jazz Club is happy to present them again, but this time on a night when everyone can hear them.

This Saturday evening we return to the LA GALLERIA for the last session of the semester, and have an evening planned for you which could be the most enjoyable night you have ever spent here.

The group features the leader on tenor sax, playing in the explosive manner of a Sonny Rollins, booted along by a romping rhythm section which becomes piano-less at times to spotlight the fine trumpet work of Ronnie Waters.

In addition of Ditty we have included the regular house band at the La Galleria, the DAVE ATKINSON quartet who will be filling in the gaps between shows. Look for the group to become cooking early Saturday because Dave likes to swing and when pushed by another group—anything can happen.

Stop in early and have some HARTMAN'S wild Italian food and then sit back and be entertained for five solid hours of JAZZ.

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