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Metal 'tickled' by physicist

Some islanders in the Pacific navigate on the open sea by using the characteristic pattern of waves scattered from islands beyond the horizon.

University physicist Richard Higgins is doing the same kind of thing with electrons in metals. He has been given \$80,000 from the National Science Foundation to continue this research project in solid state physics for two years.

Higgins first cools metals to nearly absolute zero and then "tickles" them with a large magnetic field.

The electrical and magnetic responses enable him to study the scattering of electrons from defects in the metal crystal.

The electrons scatter in patterns analogous to those of the waves from the Pacific islands. The pattern of waves allows the location and distribution of defects to be mapped.

Higgins' research is aimed at understanding the physical properties of real metals, as influenced by imperfections and impurities.

Although his project is fundamental research, there are some possible applications. An understanding of the behavior of electrons in metals could aid in the development of electrical transmission lines that would waste very little electrical power, an ecological saving.

Similarly, understanding magnetism in metals could lead to better computer memory elements.

Higgins is looking at the origins of magnetism, by observing how non-magnetic metals such as copper and gold change as small amounts of magnetic impurities, such as iron, are added.

He recently received another grant to support the development of computer-assisted techniques for laboratory measurement in solid state physics.

The physicist will have an opportunity to learn new research techniques during 1972-73 at Bell Laboratories in New Jersey, where he will extend his work into the ultra-low temperature region while on sabbatical leave from the University.

Bell laboratories has a world-renowned collection of experts in Higgins' fields of solid state physics, materials and electronics.

On Campus

Foreign students meet today

A special foreign students meeting will be held at 2:30 p.m. Wednesday in 315 EMU.

Subjects to be discussed include foreign student scholarships, proposals for an international center on campus, funding of independent student unions and the Cosmopolitan Student Association.

Harpsicord recital Sunday

Edith Kilbuck, Portland harpsichordist, will be presented in a harpsichord recital of baroque music at the University Sunday, July 30.

The program is the second in the six-concert series of the 1972 Summer Festival of Baroque Music, sponsored by the University's School of Music and the Community of Eugene. It will be at 8 p.m. in the Recital Hall of the Music School.

Kilbuck, faculty member of Lewis and Clark College of Portland, is in the University's Music School doctoral program. She has appeared in many recitals in the area.

For her program, Kilbuck will play music by Bach, Rameau and Couperin.

Tickets for this concert are on sale in the office of the School of Music on the campus at \$2.50 for adults and \$1.50 for students (age 12 through college). Admission is also by series ticket. The six-concert series tickets are \$8.50 for adults and \$5 for students.

The Festival of Baroque Music starts Saturday, July 29, with a chamber concert of vocal and instrumental music. The other concerts of the series are on July 31, August 2, 3 and 4. Featured in the last three concerts will be noted conductor Helmuth Rilling of Germany.

The University Summer Session Choir concert, scheduled for Thursday, July 27, has been cancelled, according to Gary Martin, director.

Friday last day to drop

Friday, July 28, is the last day to drop an 8 or 11 week course. It is also the last day to change grade option or credits in 8 or 11 week courses. Changes may be made in the Office of the Registrar, 10-12 a.m., 1-5 p.m.

Students are encouraged to pick up their registration printouts to verify their course enrollment information for Summer Session. The printouts are free; their purpose is to make available to each student a copy of his actual registration so that errors may be corrected during the term of his course work.

Community

HEW library grants awarded

Basic, supplemental and special-purpose grants to be announced today by HEW Office of Education will assist 522 of the nation's higher education institutions in the acquisition of library materials.

Totaling approximately \$11 million, the grants were awarded under Title II-A of the Higher Education Act of 1965 for the improvement of college and university libraries located in every state, the District of Columbia, Puerto Rico, the Trust Territory of the Pacific Islands, and the Virgin Islands.

Six institutions in Oregon will receive \$173,205 of the HEW-U.S. Department of Health, Education and Welfare—grants.

One-man theatre show scheduled

Paul Meier, a theater student at the University, will present a one-man show entitled "An Actor in Search of 'Hamlet'" Thursday and Friday in Eugene's Very Little Theater.

The show, which is made up of "speeches and soliloquies from 'Hamlet,' laced with commentary," is Meier's terminal project toward his Master of Fine Arts degree in theater.

Meier has performed at University Theatre as Duperret in "Marat-sade," as Edmund in "King Lear," and as Richmond in "Richard III." In his one-man show he will go through "Hamlet" talking about different acting styles and demonstrating a couple of them.

The show is open to the public without charge, 8:30 p.m. at 2350 Hilyard St.

Indian official to talk about Yoga

Dadaji Dharmendra Rao, an Acharya (spiritual teacher) of Ananda Marga Yoga and an official in the Department of Agriculture in India, will be giving a talk entitled "Yoga Meditation and Self-Realization" this Saturday at 8 p.m. in 137 Commonwealth. Dadaji has been practicing yoga for 20 years and has been teaching yoga meditation, exercises, and philosophy for 10 years. He is a disciple of Shri Shri Anandamurti, also known as Babaji.

Information about free individual meditation instruction and yoga exercise classes will be available. There is no admission charge for the lecture. A question and answer period will follow. For more information, call 342-4383.

Correction

Henny Willis, (not Henry Willis as reported in Monday's Emerald) plays John Adams in Lane County Auditorium Association's "1776."

Wednesday, July 26, 1972

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