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Lawrence University

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Prominent Researcher, LU Grad Discusses Creation and Uses of Specialized Film Materials in Science Hall Lecture

Posted on: October 13th, 2004 by Rick Peterson

Gregory Exarhos, a fellow at the Pacific Northwest National Laboratory in Washington, will discuss the process of creating specialized film materials that are both transparent and able to conduct electricity and the numerous applications for such materials in a Lawrence University Science Hall Colloquium.

A 1970 graduate of Lawrence, Exarhos presents “Conductive Transparent Coatings: Smart Windows for Consumer Electronics” Thursday, Oct. 21 at 4:15 p.m. in Youngchild Hall, Room 115.

Exarhos will discuss two distinct methods that have been used for more than 100 years to produce film materials that possess both transparency and conductivity properties and how those materials are used in products ranging from solar cells for energy generation to switches for fiber optic communications to large area panels for lighting applications.

The author of eight patents, Exarhos is an associate director in the Fundamental Science Directorate at PNNL, where his research interests focus on the development of dielectric films, post-deposition modification of films and the preparation of nanocomposite materials.

Prior to joining the PNNL, Exarhos taught in the chemistry department at Harvard University and served as a consultant to the U.S. Department of Defense on the design and development of microwave-absorbing coatings. In addition to his fellow status at PNNL, Exarhos holds an adjunct professor of physics appointment at Washington State University.

After completing his bachelor's degree in chemistry and physics at Lawrence, Exarhos earned his Ph.D. in physical chemistry at Brown University.