



CELEBRATING NATIONAL CHEMISTRY WEEK



THE HUDSON-BERGEN CHEMICAL SOCIETY and THE BIOCHEMISTRY, CHEMISTRY AND PHYSICS DEPARTMENT of FAIRLEIGH DICKINSON UNIVERSITY

Invite you to the lecture

Functionalization and Immobilization of Photosensitizers

Presented by Dr. **Marius Pelmus**, Seton Hall University



Abstract: Heterogeneous photosensitizers have several advantages vs. homogeneous ones, such as easier catalyst recovery and recycling from reaction mixtures, enhanced photostability against self-degradation or leaching, simpler product separation, and the potential for continuous-flow reactor integration. From a variety of immobilization techniques, we focus on covalent bonding and/or coordinating strategies, that lead to stable chemical linkages that prevent the attached photosensitizers from leaking off the support surface during use, washing, or harsh operational conditions. Appropriate functionalization of the photosensitizers and/or the support surface is an essential step in ensuring the immobilization success.

Short Bio: Dr. Marius Pelmus has a range of expertise in the chemical field, received a bachelor's and a master's in chemical engineering from the National University of Science and Technology POLITEHNICA Bucharest, worked in surfactant industry, and at a National Research Laboratory before completing a Ph.D. program in chemistry at Seton Hall University, next worked in pharmaceutical industry, and is now a Visiting Assistant Professor at Seton Hall University where he teaches, does research and mentors students.

Date: Thursday, October 22, 2026

Times: 5:00 p.m. Pizza and refreshments
5:30 p.m. Lecture

Place: Dickinson Hall Rm. 4468, Fairleigh Dickinson University, Teaneck, NJ 07666

Free. Reservations required by October 10, 2026, Dr. Mihaela Leonida mleonida@fdu.edu, or
Dr. Ish Kumar ikumar@fdu.edu