



DR. JOHN GLADYSZ

John Gladysz Receives Ph.D Degree In California

John Gladysz, son of Mr. and Mrs. Edward Gladysz, 275 W. Michigan, Galesburg, received his Departmental Ph.D. degree from Stanford University Friday, May 17. The degree will be conferred in ceremonies June 16.

John was graduated from Galesburg-Augusta High School in 1969, and was valedictorian of his class. He attended Western Michigan University, Kalamazoo, from June, 1968 to August, 1969. In September, 1969, he entered the University of Michigan, Ann Arbor, where he was affiliated with Phi Beta Kappa, and earned his B. S. degree in Chemistry. Gladysz was graduated from the U of M with high distinction and highest honors in April, 1971.

John entered Stanford in September, 1971 on a National Science Foundation Fellowship, and was a teaching assistant for undergraduate courses.

His grade point average was 4.00 (all A's) in high school, undergraduate and graduate school.

His dissertation title was "I. Titanocene Induced Reductive Deligandations of Organic Compounds; II. Iron-Molybdenum Models for Nitrogenase." His research advisor was Professor E. E. van Tamelen.

In Part I, several unprecedented transformations, of potential use

synthesis, were uncovered by studying the action of the reactive organometallic compound titanocene on oxygenated organic molecules. In Part II, a new understanding of the biological nitrogen fixation process was achieved by use of model compounds. Structural analogs of enzyme active sites were synthesized, and by appropriate addition of iron-sulfur and molybdenum components, the biological reaction was duplicated under mild conditions in a test tube. All protein and nitrogenous foods are produced via the nitrogenase enzyme, and these studies suggest new ways in which nitrogen from the air might be converted to these commercially important products. To date, this work has resulted in three publications in the Journal of the American Chemical Society and has been presented at two international symposia.

On July 1, Gladysz will begin his duties as Assistant Professor of Chemistry at UCLA, ranked among the top 10 chemistry departments in the United States. His duties will consist of teaching at the graduate and undergraduate levels and initiating several research programs in the areas of organometallic and heteroatom chemistry, with emphasis on developing new, more convenient methods for the synthesis of medicinal and bio-