

# Faculty Involved in Research and Development

by Peggy Pasnik

Many Canisius College faculty and students are presently involved with research and development in the Western New York area.

Dr. Joseph Tomasulo of the Biology Department is presently working on effects of industrial pollutants. His study concentrates on various pollutants found on living organisms in the mud of the Buffalo River, especially polynuclear aromatic hydrocarbons which may have a certain affect on pregnant women. PAH

may affect development of the fetus through water consumption by the pregnant woman.

Dr. William F. Zapisek, chairman of the Biochemistry Department, is doing research concerning recombinant DNA. His study centers on the manufacturing process of DNA. Results from this research would provide useful information in the areas of genetic diseases, birth defects, and cancer.

Dr. Frank J. Dinan of the Chemistry Department is involved with cancer research and

hopes to develop synthetic compounds matching the natural compounds found in RNA of cells. These substances are thought to prevent cell reproduction without killing the original cell. It is hoped that the growth of cancer cells can be slowed with a synthetic substance if one can be developed.

The research of Rev. Paul J. McCarthy of the Chemistry Department, is concerned with studying the x-ray crystals of metal complexes and obtaining information on the low temperature polarized crystal spectra of metal

complexes. McCarthy uses the computer center at the college to analyze this data.

Dr. Richard E. Stanton, chairman of the Chemistry Department, is working in the highly theoretical area of quantum chemistry which involves collecting data concerning the structure, physical properties and reactivity of molecules. This research is done through mathematical means without physical experimentation. Stanton's studies have resulted in working out mathematical conditions under

which computational methods lead to fixed and useful results concerning convergence problems in quantum chemistry.

Dr. James E. VanVerth, also of the Chemistry Department, is doing research on the reactions of singlet oxygen. He is concentrating on a group of compounds called hydrazines in a continuing study. The study has resulted because of the synthesis of new compounds which should be studied and identified.

Dr. Marguerite D. Kermis,  
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## Faculty Research . . . (continued from Page 1)

director of the Canisius Gerontology program, is studying elderly persons with research concerned with personal satisfaction.

She is comparing life in public housing versus life in church-related homes. Kermis predicts that conditions will be more favorable in church-related housing.

Dr. Alan G. Weinsin of the Management/Marketing Department researched electronic funds transfer systems which consist of systems like automatic teller or in-store banking systems. He worked with Arbeit and Glynn, and their results revealed the most important characteristics of these systems which are the ease in which they can be used, and that they are easy to learn how to use. Also, it was revealed that young people and people with large

Economic/Finance Department is doing research on the relationship between intergovernmental aid and local governmental finances. The research resulted in showing that intergovernmental aid seems to have led to a substitute of state and federal aid for local taxes and a steady dependence of local governments on federal funds was revealed. Palumbo showed in another study that Buffalo has a great dependence on state aid and hopes to identify what the circumstances are with other cities.

Dr. Stanley Arbeit and Joseph G. Glynn are working with a computerized marketing stimulation game that represents a marketing theory known as the product life cycle. Students make period by period marketing decisions encompassing the four stages of a product life cycle: introduction, growth, maturity, and decline,

Urban Studies at Canisius, is supervising the first integrated team internship in the area. The students participating are from Canisius, Buffalo State, and State University of Buffalo. The project is concerned with researching the building permit history of the city of Buffalo during 1978-81. The students are working with the Housing Council of the Niagara Frontier and Community Planning Assistance Center. This research reflects an indication of neighborhood stability by showing neighborhood mobility and the amount of housing improvements in the area. Coan is also researching mortgages and home improvement loans in Erie County between 1977-1980.

Dr. Michael Gent of the Management Department has completed an analysis of student evaluation of business school