

## **Nobel Laureate Ilya Prigogine will speak on "Time and Structure" (Esmark Corporation)**

**July 19, 1978**

Nobel Laureate Ilya Prigogine, who captured the 1977 award in chemistry, will speak at the University of California, San Diego Tuesday, July 25 at 3 p.m. in room 2722 of the Undergraduate Sciences Building on the Revelle campus.

Prigogine's talk, titled "Time and Structure," is sponsored by the UC San Diego chemistry department and a grant from Esmark Corporation and Estech, Inc., a division of the Esmark Corporation.

Prigogine is a professor at the Free University of Brussels who also works at the Center for Statistical Mechanics and Thermodynamics of the University of Texas in Austin.

According to an article in Science News Magazine, Prigogine hypothesized the existence of systems that constantly change with inputs of energy. He called these systems "dissipative structures."

"Most physical and chemical studies had concentrated on the simpler stable, or equilibrium, situations," the article said. "Prigogine and colleagues mathematically demonstrated the possibility of dissipative structures.

"Since the original hypothesis, chemical reactions have also been discovered experimentally that respond to certain conditions by becoming more organized for example, spontaneously sorting into nonchaotic separate parts."

In short, Prigogine has shown mathematically that it is possible for order to be created out of disorder. The application of his theorems to living systems is being explored.

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