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DEPARTMENT OF CHEMICAL ENGINEERING
1993-94 LECTURE SERIES

SEMINAR NOTICE

SPEAKER: *Dr. S.K. Sharma*
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TITLE: ***"RECENT DEVELOPMENTS IN SOLAR ENERGY STORAGE"***

DATE: Monday, March 14, 1994

TIME: 10:30 a.m.

PLACE: The Senate Chambers
Lakehead University

ABSTRACT: Seasonal as well as diuranal changes in the amount of insolation received at a particular location necessitates the use of storage techniques for the optimum use of solar energy. Depending upon the end-use applications and the period of storage, a number of strategies such as buffering, shifting, and extension can be used. Energy can be stored in the form of chemical, mechanical, and thermal energy. Storage in the form of thermal energy is the most widely recommended strategy. Thermal energy can be stored in the form of sensible and latent heats and heat of chemical reaction. Selection of any one of these techniques depends on a number of factors such as thermophysical, thermochemical, thermodynamic and technoeconomic. There are a number of constraints in the design of thermal storage systems. Most significant ones are those associated with the materials and heat exchanger configuration. Design of thermal storage systems for large scale applications such as solar power plants, district heating and cooling and industrial energy conservation is an other area of major concern. Considerable research and development efforts are needed in this direction. All these issues will be discussed during the seminar. An overview of the recent developments in the area of thermal energy storage will be presented.

EVERYONE WELCOME!!

For more information contact I. Nirdosh at ext. 8343