



KOÇ UNIVERSITY

Math-Science Seminar

Speaker: Mehmet Somer (Department of Chemistry, Koç University)

Title: FT-Raman-Spectroscopy and its Application on Structural and Analytical Problems in the Chemistry

Date and Time: Thursday, May 17, 5:00 pm.*

Place: Room Z42, Science Building, Koç University, Rumelifeneri Yolu, Sarıyer 80910 Istanbul, Turkey.

Abstract: Starting from the discovery of the Raman effect, the historical development of the Raman spectroscopy and the conventional Raman techniques will be presented. By shifting the Raman effect from visible region into the near infrared and the parallel experimental developments in the FT-Raman technique made it possible to record Raman spectra of almost any sample from industry, of minerals, of food, and even of living tissues for medical diagnosis. Furthermore, the recent introduction of fiber optics and the Raman microscope have opened additional broad application fields. On selected examples it will be demonstrated that these novel techniques do not only allow a precise production control and quality assurance in the industry but also nondestructive analysis of paintings, objects d'art, and even of fossils is now possible.

*Refreshments to be served in Science Building, Room Z40 at 4:45 pm. (Please note the 15 minute delay with respect to the usual time.)