



KOÇ UNIVERSITY

Science – Math Seminar

Speaker: Funda Yağcı Acar
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Koç University

Date: Wednesday, May 18, 2005

Time: 16:45 (Tea and cookies will be served at 16:30)

Place: Science Building, Room Z42

Title: Structure-Size-Property Relationships in Materials

Abstract:

Two different topics will be discussed in this talk. Topic I: Poly(dehydroalanine)s: Dehydroalanine monomers are unique capto-dative monomers with geminal substitution of amine and carboxylic acid unites providing rapid polymerizations and an opportunity to design a wide variety of substituted polymers. Briefly, synthesis of dehydroalanine derivatives, their polymers and structure-property relationships of poly(dehydroalanine)s will be summarized. Copolymerization characteristics of substituted dehydroalanines and copolymer properties will be discussed. Topic II: Magnetic nanoparticles: Synthesis of superparamagnetic iron oxide nanoparticles will be discussed with a focus on the stability, surface chemistry, biocompatibility, size-function relationships and contrast enhancement ability in MRI. Also, use of superparamagnetic nanoparticles in a variety of application areas will be briefly introduced.

Please visit <http://sci-math.ku.edu.tr/> for a schedule of upcoming Science - Math seminars.