KOÇ UNIVERSITY

Science – Math Seminar

Speaker: Prof. Vasif Hasirci, METU, Dept. Biological Sciences, Biotechnology Research Unit and BIOMAT

Date: Thursday, March 16, 2006

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

Place: Science building, Room Z42

Title: Scaffolds and Carriers for Tissue Engineering

Abstract:

Tissue engineering is an interdisciplinary field that aims at the development of biological substitutes that can be used to replace, restore or improve tissue function. Principles of life sciences and engineering are applied to combine supportive carrier materials and living components in appropriate configurations and environmental conditions. The source could be synthetic or biological. The synthetic source is either synthesis from the starting compounds to achieve a material suitable to be formed into a scaffold or it could be

obtained by chemical modification of a natural or synthetic compound. Biological source could be microbial (bacterial polyesters), plant origin (starch, cellulose) or animal (collagen) origin.

This presentation will include examples how these carriers are prepared, modified, and employed in the construction of tissues in the lab.

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