

Department of Ocean & Resources Engineering

Seminar

FROM SAMPLING TO FUNCTIONAL GENOMICS AND GENECHIP: AN INTER-DISCIPLINARY, BIOENGINEERING APPROACH TO STUDY MICROBIAL DIVERSITY

by

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Abstract

During 3.5 billion years of evolution microorganisms have colonized all conceivable habitats on Earth. They occupy niches characterized by extremes of temperature, pressure, salinity, and pH and nutrient regimes. Less than 1% of all microorganisms have been described so far. Research in our laboratory during the last few years has focused on microbial diversity in extreme environments using a multi-phasic bioengineering approach. I will describe our road from signal transduction to microbial diversity with reference to functional genomics and microarray technology.