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INSTITUTE COLLOQUIUM

INDIAN INSTITUTE OF SCIENCE
BANGALORE

PROFESSOR K A NATARAJAN
DEPARTMENT OF METALLURGY

Will deliver a lecture

on

**BIOLOGY-MATERIALS INTERFACE -
Biotechnology in Materials Processing, Metal Extraction
and Environmental Control**

on Tuesday, the 12th January, 1999

at 4.00 PM in the Faculty Hall

PROFESSOR GOVERDHAN MEHTA

Director, will preside

All are cordially invited.

Coffee : 5.00 PM
Reception Hall

Prof. S S KRISHNAMURTHY
Convener

ABSTRACT

The role of biology and biotechnology in materials and metal processing is analysed with reference to biomineralization, ceramic processing, metal extraction and environmental control. Results from research in this interdisciplinary area are presented from the view point of bacterial adhesion mechanisms, interfacial chemistry and engineering. The future of biotechnology in materials processing is brought out with reference to industrial applications such as synthesis of biopolymers, ceramics processing, oil recovery, metal extraction and environmental remediation. Development of super bacterial strains possessing high metal tolerance is stressed and potential for genetic manipulation outlined.