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## INSTITUTE COLLOQUIUM

INDIAN INSTITUTE OF SCIENCE  
BANGALORE

**PROFESSOR C E VENI MADHAVAN**  
*DEPARTMENT OF COMPUTER SCIENCE & AUTOMATION*

will deliver a lecture

on

### THE ART OF MULTIPLICATION

on Tuesday, the 20<sup>th</sup> April 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 mathematical, software and hardware issues pertaining to multi-digit or arbitrary precision multiplication constitute an exciting story. These issues are critical to a whole lot of academic and industrial applications, encompassing computational number theory, symbolic computation, cryptography, internet security, e-cash, electronic payment systems and e-commerce. It is planned to conduct a panoramic tour of the fascinating terrain of the various multiplication algorithms and their asymptotic and average computational complexity. Some novel ways to handle a variety of issues with regard to the various applications will be projected.*

P.T.O.