

FOR NOTICE BOARD

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INSTITUTE COLLOQUIUM

INDIAN INSTITUTE OF SCIENCE
BANGALORE

PROFESSOR K R PADIYAR
ELECTRICAL ENGINEERING

Will deliver a lecture

on

**POWER BLACKOUTS - IS THERE LIGHT AT
THE END OF THE TUNNEL?**

on Friday, the 4th April, 1997

at 4.00 PM in the Faculty Hall

PROFESSOR G PADMANABAN

Director, will preside

All are cordially invited.

Coffee : 1700 hrs.
Reception Hall

Prof. M A L Thathachar
Convener

ABSTRACT

Power blackouts can occur even in systems that have adequate reserves of generation and transmission facilities. The cascading outages caused by insecure system operation can result in widespread power blackouts. The well publicized power blackout in New York in 1965 resulted in emphasizing the importance of reliability and system security. This also led to the development of modern energy control centres with (computer based) several on-line functions including state estimation and security assessment.

This lecture will discuss the factors responsible for cascading outages and measures that have been adopted to minimise their occurrence. The anatomy of a blackout will be described with examples. Some of the recent developments (both analytical and technological) that could improve the situation will be highlighted.