



# International Railway Safety Conference 2007

1st - 5th October, Goa - INDIA

## Sub Theme: Trends and Practices on safety regulation and accident investigation - Experience sharing



Title : Design A Engine Data Recorder  
(Black Box) For Railway  
Eelectric Engine  
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Title : Design A Engine Data Recorder  
(Black Box) For Railway  
Eelectric Engine  
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## RESUME OF SPEAKER

### **Dr. Ashish Verma**

M.Sc., Ph.D.

Sr. Lecturer

No. of Publication:

International- 5

National – 12

Conferences & Seminars – 19

Books Published – 2

### **Miss Alka Dubey**

M.Sc. Electronics

Research Scholar

Title: - Design & Development of Black  
Box for Railway Engine

No. Of Publication:



national - 1

Conferences & Seminar -6

## **SUMMARY OF PRESENTATION**

In the present study the concept of this flight data recorder is used in an electric railway engine WAP-7. This Black Box will record parameters like speed, temperature, and air pressure. These parameters will be records in RAMs through microcontroller with respect to real time for 30 minutes. The recorder data can be downloaded into computer or laptops. A voice recorder is also fitted in Black Box and three microphones are fitted in Black Box and three microphones are fitted in drivers cabin, which will give the recording of voice between pilot and co-pilot for last 30 minutes.

The present design of Black-Box will help us to see the last 30 minutes recording of parameters like speed, temperature and air pressure. This will also give us the last 30 minutes voice recording, which will help to solve the accidental problem of the train.