



**INDUSTRY APPLICATIONS CHAPTER  
THE INSTITUTE OF ELECTRICAL AND  
ELECTRONICS ENGINEERS INC  
KOLKATA SECTION**



**IEEE Technical Lecture**

(With the Department of Electrical Engineering, IEST Shibpur)

<b>Topic</b>	<b>Motors for application in hazardous area</b>
<b>Speaker</b>	<b>Mr. Sabyasachi Roy, Ex-Chief Manager (Technical), WEG Electric India (P) Ltd.</b>
<b>Date &amp; Time</b>	<b>25<sup>th</sup> July 2018 (Wednesday); 2 PM – 3:30 PM, 3:45 PM – 5:15 PM</b>
<b>Venue</b>	<b>Seminar Hall, Second Floor, Electrical Engineering Department, Indian Institute of Engineering Science and Technology, Shibpur, Howrah – 711103</b>
<b>Contact</b>	<b>Kaushik Mukherjee (kaushikk_mukh@rediffmail.com &amp; Phone (Office): 26684561/62, ext. 594)</b>

**About the speaker:**

Mr. Sabyasachi Roy completed his graduation in Electrical Engineering from IIT Kharagpur in 1973 and then had a long course of journey working with quite a few reputed companies in various positions. Starting his professional career as an Officer in Burns & Co. Howrah in 1973, he moved on and got associated with reputed industrial houses namely, General Electric Company of India Ltd., AKG Industries, Kirloskar Electric Co., Crompton Greaves Ltd. and finally WEG Electric India Pvt. Ltd. A large part of his illustrious industrial career is related to industrial rotating electrical machines. Before his retirement, he was the Chief Technical Manager (Technical) in WEG India and even after retirement, he has acted as a senior consultant. After almost 42 years of working at many locations and companies in India, he is now settled in Kolkata.

**Abstract of the talk:**

The lecture will comprise of two sessions. The first session will start with explaining what are meant by hazardous areas in industries, followed by a detailed discussion on how explosive hazardous areas are classified with the different basis of classification. It will then talk about different standards followed globally, different gas groups and ignition temperature classifications. The second session will start with discussions on different electrical and mechanical constructional features for operational safety, the national and international standards for such motors, national and international certification authorities, statutory regulations and authority for industrial safety, types of motor enclosures with different mechanical and electrical stipulations etc.