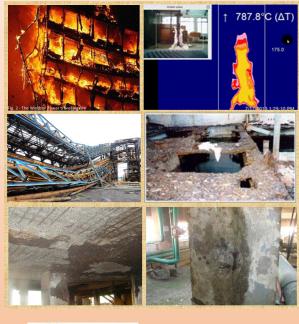
Online Advanced Course on

Longevity of Steel and RC Structures against Fire and Corrosion (LSRSFC-2020)

Duration: 18-20 November 2020

Timings: 10.00am to 4.00pm IST







Organized by

CSIR-Structural Engineering Research Centre (An ISO Certified Organization) CSIR Campus, Taramani Chennai-600113, India

Overview:

CSIR-Structural Engineering Research Centre, Chennai, is one of the national laboratories under the Council of Scientific & Industrial Research (CSIR), India. CSIR-SERC has built-up excellent facilities and expertise for the analysis, design and testing of structures and structural components. CSIR-SERC is conducting skill development programmes with the motive of creating skilled work force for the industrial/societal requirements, as a part of skill initiative programme of CSIR. Recent Advances in Longevity of Steel and Reinforced Concrete (RC) Structures against Fire and Corrosion (LSRSFC-2020) is one such programme.

Background:

Corrosion and fire effect is the most important causes of deterioration of existing steel and RC structures which affect the long term performance and durability. During a fire event, the intensity and duration of heat or direct flame impingement can cause damage to RC and steel structures that reduce the remnant life of the structure by reducing the strength of the structural components below the threshold of safety. Corrosion damage can also result in life-threatening situations; hence it has to be addressed for safety, environment and economic reasons. In both cases present condition of the structure must be evaluated carefully by means of NDT techniques in order to understand the feasibility of those structures to take a decision on necessary retrofitting or replacement of selected fireaffected or corroded members to prevent premature failure of the structure thereby promote public safety.

Objectives:

The primary objective of the course is to provide an opportunity for researchers, practicing engineers, academicians, and consultants, belonging to the public and private sector organizations/institutions, and other engineering professionals to familiarise themselves with designing structures against extreme conditions such as fire and corrosion, durability issues of concrete and steel structures, common control and prevention methods for both old and new structures, diagnosing techniques for condition assessment, the conventional and promising emerging technologies for repair and rehabilitation of structures. Participants shall gain essential knowledge and skills in minimising the deteriorating effects fire and corrosion in both steel and RC structures.

Course contents:

The course is envisaged to provide the necessary background and exposure on various aspects like Fire resistance of structural steel, Fire resistance of RC, Mechanism of heat transfer in steel and concrete, Assessment of corrosion in steel structures and preventive measures, Assessment of corrosion in RC structures and preventive measures, Passive fire protective measures, Passive corrosion protective measures, NDT, Repair and rehabilitation of concrete and steel structures.

Fee:

Rs.1500/- per participant inclusive of GST for Indian delegates and US\$40/- for foreign delegates. Presentation material (pdf format) and e-participation certificate shall be provided to all the registered participants. The brochure and details of the registration can be downloaded from the CSIR-SERC web site https://serc.res.in/course

Registration:

The course registration can be completed via online (http://forms.serc.res.in/view.php?id=33087).

Please choose/select the intended course title in the online registration form and fill all the particulars and pay the registration fee by clicking the **SBI collect** in the registration form.

Requirements for the online mode:

Desktop/Laptop/Smartphone with good internet speed and sufficient data pack. A web link will be sent to the registered participants for joining the course.

For further details, please contact

Dr (Ms). A. Cinitha and Dr. S. Bhaskar Course coordinators, (LSRSFC-2020)

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