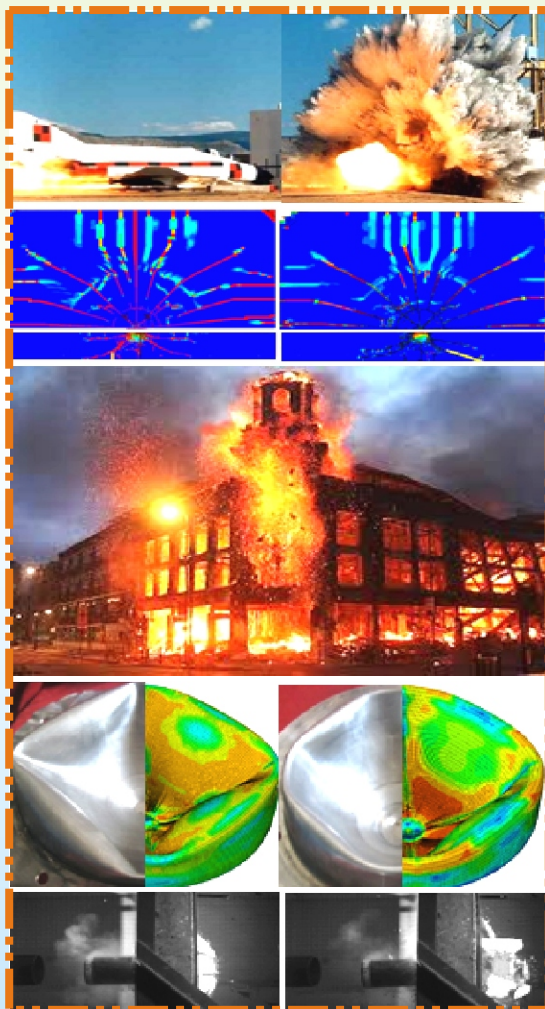


Symposium on  
**EXTREME LOADING ON  
STRUCTURES 2020**



28-29 May, 2020



DEPARTMENT OF CIVIL ENGINEERING  
Indian Institute of Technology Roorkee

### PREFACE

The loadings at high strain rates and high temperatures causing large nonlinear deformations of materials and structures are considered extreme. These conditions originating from natural disaster, human error or strategic action possess strong potential to jeopardize the infrastructural, ecological and economical systems.

The complex deformation and failure mechanisms arising due to extreme loading situations though investigated rigorously have not been understood adequately. The design procedures for these events are based on certain assumptions leaving voids of uncertainty and high probability of failure.

The symposium will elaborate upon various aspects pertinent to deal with different extreme scenarios such as ballistics, blast, fire, explosion, crash, earthquake, tsunami and cyclone. The associated issues with respect to the experimental, analytical, computational and constitutive modelling will also be deliberated.

In addition to providing a platform to scientists from academia, industries and research laboratories for sharing the latest developments in the studies of extreme loading situations and their aftereffects, the symposium will be instrumental in building and strengthening lasting relationships between the participants.

### ORGANIZED BY

- Department of Civil Engineering  
Indian Institute of Technology Roorkee

### TOPICS

The following topics will be covered during the symposium. The list is indicative and not exhaustive.

- Ballistic Impact
- Fire and Blast Loading
- Earthquake, Tsunami and Cyclone
- Analytical and Computational Modelling
- Large Deformation Problems
- Constitutive Behaviour
- Crash and Collisions
- Structural Stability and Reliability
- Offshore, Aerospace, Armour and Nuclear Structures
- Stress Waves in Solids

### KEY DATES

- Abstract Submission : 15th April, 2020
- Full Paper Submission : 15th May, 2020
- Last Date for Payment of Registration Fee: 30th April, 2020
- Symposium : 28 & 29 May, 2020

### REGISTRATION FEE

- Registration Fee : Rs. 3540/-
- Student delegates : Rs. 2360/-
- Following are the details for the payment of the registration fee :  
Name of The Bank : STATE BANK OF INDIA  
Account Name : Dean SRIC IIT ROORKEE  
Account No : 33136732957  
Branch Code : 1069  
IFC CODE : SBIN0001069  
MICR Code : 247002094

### SPONSORSHIP

- Rs. 1,00,000/- (Sponsored free delegates: 4)
- Rs. 75,000/- (Sponsored free delegates: 3)
- Rs. 50,000/- (Sponsored free delegates: 2)
- Rs. 25,000/- (Sponsored free delegates: 1)

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- R. Velmurugan, IIT Madras
- P. Venkitanarayanan, IIT Kanpur
- C. Wu, Australia
- S. C. Kim Yuen, South Africa

## PUBLICATIONS

The papers presented in the symposium will be published after the blind review.

## ACCOMMODATION

On-campus accommodation is available on sharing basis.

## CONTACT

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## ABOUT ROORKEE

The city of Roorkee is situated in the foothills of Himalayas. It is considered to be the gateway to the pilgrimage of many important places like Haridwar, Rishikesh, and Mussoorie. Roorkee is well connected by road and rail networks. Weather in Roorkee during the month of May is moderately warm with sunny days and pleasant nights.

## PLACES OF INTEREST



Haridwar : 30 km

Rishikesh : 50 km



Dehradun : 70 km

Mussoorie : 100 km

## CORRESPONDENCE ADDERS

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## REGISTRATION FORM

# EXTREME LOADING ON STRUCTURES 2020

May 28-29, 2020

DEPARTMENT OF CIVIL ENGINEERING  
Indian Institute of Technology Roorkee

### Personal Details

Name of the Participant : \_\_\_\_\_

Designation : \_\_\_\_\_

Affiliation : \_\_\_\_\_

Contact Details/Phone/

Mobile No. : \_\_\_\_\_

Paper Presentation :

Only Participation :

### In Case of Paper Presentation

Title of the Paper : \_\_\_\_\_

Co-author's Name : \_\_\_\_\_

Designation : \_\_\_\_\_

Affiliation : \_\_\_\_\_

### Registration Fee

Amount : \_\_\_\_\_

DD/Cheque/RTGS/NEFT : \_\_\_\_\_

I/we hereby declare that the paper that has been submitted by me/us is based on the original work and any reference from the literature has been duly cited.

Place:

Date:

Signature of the Participant