MAIN TOPICS OF IF CRASC ’20 CONGRESS

Legal Engineering aspects:
- Objectives and issues for a integrated knowledge between technical and legal disciplines.
- Roles of judges, technicians and lawyers.
- Managing process of the experts and/or mediation procedures.
- The role of technical consultants.
- Economical consequences of legal cases.
- The role of insurances.
- Risk and responsibility of the parts.
- Civil responsibility of the technician.

Civil Forensic Engineering:
- Unauthorized building.
- Contracts and jobs management.
- Vibrations and acoustic pollution.
- Environmental pollution and sanitary engineering.
- Non-structural defects of buildings and infrastructures.
- Economic damage estimation.

Industrial Forensic Engineering:
- Industrial hazards: aerospace, chemical, electrical, railways, naval and roads.
- Relevant hazards and disasters.
- Definition of the hazard areas.

Structural Forensic Engineering:
- Building collapses (ordinary and external actions: fire, explosions, impacts, inundations, hurricanes, earthquakes,...).
- Building dysfunctions (residential buildings, factories, dams, tunnels, bridges, ports,...)
- Geotechnical issues (instability of excavations and slopes)
- Taxonomy of constructional defects.
- Case studies.

Structural reliability:
- Natural hazards, climate change and relative risks.
- Resiliency and reliability of buildings and infrastructures.
- Aging behavior of constructions (life cycle, material degradation, fatigue,...).
- Design and reliability.
- Risk analysis.

Structural consolidation:
- Model and analysis of existing structures.
- Cultural, architectural and archeological heritage care.
- Sustainability of interventions.
- Innovative technologies.

SCIENTIFIC COMMITTEE
Nicola Augenti (president)
Franco Bontempi
Antonio Borri
Lorenzo Jurina
Mauro Sassu
Marco Savoia
Enzo Siviero
Tomaso Trombetti
Università di Napoli Federico II
Università di Roma La Sapienza
Università di Perugia
Politecnico di Milano
Università di Cagliari
Università di Bologna
eCampus
Università di Bologna

ORGANIZING COMMITTEE

https://eventi.unibo.it/ifcrasc2020

ORGANIZING SECRETARIAT:
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ORIGINS OF IF CRASC CONGRESS SERIES

At the base of IF CRASC Congress is the institution of the II Level Master Course at University of Naples “Federico II”, first one in Italy and Europe specifically related to the Civil and Industrial Forensic Engineering. Besides the traditional Structural Forensic Engineering (typically focused on collapses), in the last years the scientific community has focused the attention also on the legal aspects (procedures and responsibilities) related to the engineer’s job, as well as the series of activities developed in the Information and Industrial Engineering sectors. This latter aspect has lead to extend the main topics of the Collapses, Structural Reliability and Consolidation Congress to the broader Forensic Engineering field. The great success of the past editions of the Congress from 2009 up to date oriented the Italian Association of Forensic Engineering (AIF) to organize the next IF CRASC 20 Congress in Bologna.

OBJECTIVES OF IF CRASC 20 CONGRESS

The main objective of the 2020 edition of the Congress is to help the exchange of knowledge and experiences in Forensic Engineering gained from both the academic and the professional sector in civil, industrial and information sectors. In particular, the most interesting themes are:
- The role of Forensic Engineering as a junction between the technical and legal problematics.
- The role of the professional engineer and the related responsibilities.
- Technical update from the previous knowledge on technical consuls.
- Case studies of defects, imperfections, collapses and reliabilities.
- Natural hazards and relative risks.
- Structural design: solidity, resiliency and reliability.
- Building reliability.
- Consolidations.

Special sessions of the Congress will be developed related to specific themes emerging from the recent events (reliability of infrastructures, seismic events, effects of climate change in constructions, etc...). The works presented during the Congress are going to be general relations, invitation notes, presentation of papers as well as group discussions.

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University of Bologna
18-20 June 2020

Past congress events
- CRASC’01 Venezia 2001
- CRASC’03 Napoli 2003
- CRASC’06 Messina 2006
- IF CRASC’09 Napoli 2009
- IF CRASC’12 Pisa 2012
- IF CRASC’15 Roma 2015
- IF CRASC’17 Milano 2017

OFFICIAL LANGUAGES OF THE CONGRESS
Italian and English

PARTICIPANTS’ WRITTEN CONTRIBUTIONS
The abstracts (in Italian and English) are limited to a one page (A4 format) extension. It is possible to submit the abstract directly through the website: https://eventi.unibo.it/ifcrasc2020. The final manuscript (in Italian and English) must be written according to the “Paper Template AIF”. The presentation of the final manuscript must be submitted along with the registration and payment of the participation fee.

PRESENTATION OF THE CONTRIBUTIONS
The participants will present their contributions either in oral or poster sessions.

IMPORTANT DATES
25 October 2019: abstract submission
20 November 2019: acceptance of abstract submitted
20 February 2020: final manuscript submission

PARTICIPATION FEES
The participation fees will be presented at the second announcement, by the end of September 2019. Differential quotations will be available: - for the participation at the Congress and publication of the manuscript; - for the publication of the manuscript only (without participation at the Congress); - for students, PhD candidates, young researchers and AIF associates.

FURTHER INFORMATION
Information regarding accommodations, transportation and details about the Congress will be available on the website. Technical tours will be organized in Bologna area as well. Further information will be provided by:

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