



University of Zagreb  
Faculty of Mechanical Engineering  
and Naval Architecture



# ICSID 2022

6th International Conference on Structural Integrity and Durability

Dubrovnik, Croatia, September 20 – 23, 2022

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Summer School

Fatigue and Fracture Modelling and Analysis  
Dubrovnik, Croatia, September 19 – 20, 2022

**HYBRID MODE**

## ICSID 2022

The objective of the ICSID 2022 conference is to bring together scientists and engineers from around the world to discuss how to characterize, analyse, predict and assess the fatigue and fracture of structural materials and components. The ICSID 2022 intends to be a forum for discussion of the present and future trends in experimental, theoretical and applied fracture mechanics, fatigue, structural integrity assessment, failure analysis, and other important topics in the field.

Being globally hit by the COVID19, the ICSID 2022 Conference will be organized in a **"Hybrid Mode"**, i.e. a combination of on-site and online presentation in order to guarantee the maximum safety and conveniences for participants.

## MAIN TOPICS

- Advanced testing and evaluation techniques
- Analytical Models
- Applications to components and structures
- Corrosion, environmentally enhanced degradation and cracking, corrosion fatigue
- Cyclic deformation and crack initiation
- Damage mechanics and models
- Databases, expert systems and software
- Durability and life extension of structures and components
- Failure investigation and analysis
- Failure of nanomaterials and nanostructures
- Fatigue and fracture of polymers, elastomers, composites and biomaterials
- Fatigue and fracture of weldments, welded components, joints and adhesives
- Fatigue and fracture simulation and testing at all length scales
- Fatigue crack path prediction
- Finite elements methods and their application
- Fracture and damage of cementitious materials
- Fracture and failure criteria
- Fretting fatigue and wear
- Low, medium and high cycle fatigue
- Macro scale fatigue prognosis techniques
- Microstructure scale computational modeling
- Mixed-mode and multiaxial fatigue and fracture
- Models, criteria and methods in fracture mechanics
- Multiscale materials modeling
- Non-destructive evaluation (NDE)
- Probabilistic Fracture Mechanics
- Reliability and integrity of engineering structures
- Residual stress effects
- Structural integrity assessment
- Surface treatment and failure resistance improvement
- 3D-printed materials and structures

## GENERAL INFORMATION

### CONFERENCE VENUE

Centre for Advanced Academic Studies  
Don Frana Bulića 4, 20000 Dubrovnik, Croatia  
Url: [www.caas.unizg.hr](http://www.caas.unizg.hr)

### IMPORTANT DATES

Abstract submission	August 15, 2022
Notification on abstract	within two weeks after receipt of abstract
Early registration	August 1, 2022
Submission of full paper (optional)	October 30, 2022

### CONFERENCE CHAIR

**Željko Božić**  
University of Zagreb  
Faculty of Mechanical Engineering and Naval Architecture  
Department of Aeronautical Engineering

### CONFERENCE CO-CHAIR

**Siegfried Schmauder**  
University of Stuttgart  
Institute for Materials Testing, Materials  
Science and Strength of Materials (IMWF)

### REGISTRATION

Payment details:

Account holder	Centre of technology transfer Llc.
Address	I. Lučića 5, 10000 Zagreb, Croatia
VAT number	HR81725143201
Bank	Zagrebačka banka d.d.
Bank address	Trg bana J. Jelačića 10, 10000 Zagreb, Croatia
Account number	1101430801
IBAN	HR7623600001101430801
SWIFT	ZABHR2X
Purpose of bank transfer	ICSID 2022 LastName FirstName

It will be also possible to pay on-site, at the conference registration desk (cash).

## ICSID 2022 – CONFERENCE

Participants	Before Aug 1, 2022	After Aug 1, 2022
Regular delegate	€ 600	€ 700
Student delegate	€ 500	€ 600
Online participants	€ 400	€ 450
Acc. persons	€ 150	€ 200

*The above listed prices include VAT (25 %).*

The conference registration fees include: book of abstracts, electronic media with conference proceedings, coffee breaks, lunches, conference dinner and social program, admission to all scientific sessions.

## ICSID 2022 – SUMMER SCHOOL

Participation fee	Before Aug 1, 2022	After Aug 1, 2022
Student, Regular (Summer School)	€ 200	€ 250
Online participants (Summer School)	€ 70	€ 100
Regular (ICSID 2022 + Summer School)	€ 750	€ 850
Student (ICSID 2022 + Summer School)	€ 650	€ 750
Online participants (ICSID 2022 + Summer School)	€ 450	€ 500

*The above listed prices include VAT (25 %).*

The Summer School provides an opportunity for scientists, researchers and engineers from academia and industry to get acquainted with fundamental aspects of fracture mechanics, recent trends in practical applications of fatigue and fracture models, and advanced approaches such as multiscale materials modelling. Leading scientists and experts will give lectures on experimental and numerical techniques for modelling, analysis and assessment of damaged components and structures.

## CONTACT

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