



100 Years of Faculty of
Mechanical Engineering
and Naval Architecture
University of Zagreb



ICSID 2020

4th International Conference on Structural Integrity and Durability

Fatigue and Fracture – Theory and Applications
Dubrovnik, Croatia, September 15 – 18, 2020

&

Summer School

Fatigue and Fracture Modeling and Analysis
Dubrovnik, Croatia, September 14 – 15, 2020



ISCID 2020

The objective of the ICSID 2020 conference is to bring together scientists and engineers from around the world to discuss how to characterize, analyze, predict and assess the fatigue and fracture of structural materials and components. The ICSID 2020 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.

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
- Structural integrity of 3D-printed structures
- Surface treatment and failure resistance improvement

GENERAL INFORMATION

CONFERENCE VENUE

Centre for Advanced Academic Studies
Don Frana Bulića 4, 20000 Dubrovnik, Croatia
Url: www.caas.unizg.hr

IMPORTANT DATES

Abstract submission	May 1, 2020
Notification on abstract	three weeks after receipt of abstract
Early registration	August 1, 2020
Submission of full paper (optional)	August 1, 2020

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	Faculty of Mechanical Engineering and Naval Architecture, University of Zagreb
Address	I. Lučića 5, 10000 Zagreb, Croatia
VAT number	HR22910368449
Bank	Zagrebačka banka
Bank address	Trg bana J. Jelačića 10, 10000 Zagreb, Croatia
Account number	1101346933
IBAN	HR4723600001101346933
SWIFT	ZABHR2X
Purpose of bank transfer	ICSID 2019 LastName FirstName

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

ICSID 2020 – CONFERENCE

Participants	Before Aug 1, 2020	After Aug 1, 2020
Regular delegate	€ 500	€ 600
Student delegate	€ 400	€ 500
Acc. persons	€ 150	€ 200

ESIS members discount: € 50

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 2020 – SUMMER SCHOOL

Participation fee	Before Aug 1, 2020	After Aug 1, 2020
Student (Summer School)	€ 200	€ 250
Student (ICSID 2020 + Summer School)	€ 550	€ 650
Regular (ICSID 2020 + Summer School)	€ 650	€ 750

ESIS members discount: € 50

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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