ICSID 2019

3rd International Conference on Structural Integrity and Durability

Fatigue, Fracture and Failure
Dubrovnik, Croatia, June 4 – 7, 2019

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Summer School

Fatigue and Fracture Modeling and Analysis
Dubrovnik, Croatia, June 3 – 4, 2019
**ICSID 2019**

The objective of the ICSID 2019 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 2019 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 Bušića 4, 20000 Dubrovnik, Croatia  
Url: www.caas.unizg.hr

**IMPORTANT DATES**
- Abstract submission: March 31, 2019
- Notification on abstract: three weeks after receipt of abstract
- Early registration: May 1, 2019
- Submission of full paper (optional): April 15, 2019

**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: ZABAHKR
- Purpose of bank transfer: ICSID 2019 LastName FirstName
- It will be also possible to pay on-site, at the conference registration desk (cash).

**ICSID 2019 – CONFERENCE**

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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 2019 – SUMMER SCHOOL**

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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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