



University of Zagreb  
Faculty of Mechanical  
Engineering and Naval  
Architecture



## CONTACT

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# ICSID 2017

## International Conference on Structural Integrity and Durability 2017

Fatigue and Fracture at all Scales

August 15 – 18, 2017

Dubrovnik, Croatia

# 4th ESIS Summer School



Fatigue and Fracture Modeling and Analysis

August 14 – 15, 2017

Dubrovnik, Croatia



## ISCID 2017

The objective of the ICSID 2017 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 present trends in experimental, analytical and numerical fracture mechanics, fatigue, structural integrity assessment, failure analysis, and other important topics in the field will be discussed.

## MAIN TOPICS

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

## ICSID 2017

Participants	Before May 31, 2017	After May 31, 2017
Regular delegate	€ 500	€ 600
Student delegate	€ 400	€ 500
Acc. persons	€ 150	€ 170

ESIS members discount: € 50  
The above listed prices include VAT (25 %).

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

## 4th ESIS Summer School

Participation fee	Before May 31, 2017	After May 31, 2017
Student (Summer School)	€ 200	€ 250
Student (ICSID 2017 + Summer School)	€ 500	€ 600
Regular (ICSID 2017 + Summer School)	€ 600	€ 700

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.

## 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 still possible on a case by case basis

Notification on abstract upon abstract receipt

Early registration May 31, 2017

### CONFERENCE CHAIR

Željko Božić

University of Zagreb

Faculty of Mechanical Engineering and Naval Architecture

### 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	Ivana 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 2017 LastName FirstName

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