

ICF14 14th International Conference on Fracture

Rhodes, Greece
June 18-23, 2017



<http://www.icf14.org>

Under the auspices of the
International Congress on Fracture

General Information

Founded by Professor T. Yokobori in 1965, the International Congress on Fracture - The World Academy on Structural Integrity (ICF-WASI) is today the premier international body for promoting worldwide cooperation among scientists and engineers dealing with mechanics and mechanisms of fracture, fatigue and strength of solids. Over the years, ICF-WASI has made considerable progresses in providing an international forum for highlighting individual and national accomplishments in the general fields of Fracture Mechanics, Material Strength and Structural Integrity. The international conference of ICF takes place every four years.

The 14th International Conference on Fracture, will be a Pan-Europe Quadrennial and will focus on key issues in structural integrity, strength and fracture of materials and structures for the 21st century, including applications in geophysics, medicine, integrated modeling and engineering. It will comprise of invited lectures together with contributed oral and poster presentations covering all aspects of strength and fracture. The language of the conference will be English.

Conference Chairman

Emmanuel E. Gdoutos
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Technical Programme Chairs: A. Rosakis, M. Konsta-Gdoutos
Int. Steering Committee Chair: D. Taplin

Location

The conference will take place in the Rodos Palace hotel in the idyllic island of Rhodes, located in the south east part of Greece between the Aegean and Mediterranean seas. Rhodes has a unique scenic beau-

ty with areas of historical interest and archeological importance. Take a stroll and admire the gates, the towers, the squares, the medieval churches, the bridges, the Castle of Knights, the old Clock, the Acropolis, the ancient monuments, the Temple of Zeus, Athena and Apollo, the Palace of the Grand Master, the stadium. Visit the valley of the butterflies, the Minoan city of Ialysos, the ancient picturesque city of Lindos with its Acropolis, temple and towers, the monastery of Panagia Tsambika with its miracle-working icon.

Welcome to the island of sea nymph Rhode, daughter of Poseidon (Neptune), bride of Helios (Sun). Enjoy the sunrays scattered from Helios that made Rhodes the brightest and sunniest island of the Aegean Sea.

Conference Tracks

Track 1

Nanomaterials and Nanostructures

- Fracture and fatigue of nanostructured materials
- Failure mechanisms
- Fatigue and fracture of MEMS and NEMS
- Failure analysis of nanodevices
- Fatigue and fracture at atomistic and molecular scales
- Thin films
- Electronic materials
- Failure of nanocomposites

Track 2

Engineering Materials and Structures

- Physical aspects of fracture
- Micromechanisms in fracture and fatigue
- Brittle fracture
- Ductile fracture
- Nonlinear fracture mechanics
- Fatigue and fracture

- High temperature fracture
- Fretting fatigue
- Polymers and composites
- Ceramics
- Fracture mechanics analysis
- Surface treatment technologies
- Probabilistic approaches to fracture mechanics
- Computational fracture mechanics
- Experimental; fracture mechanics
- Creep fracture
- Environment assisted fracture
- Dynamic, high strain rate, or impact fracture
- Damage mechanics
- Residual stress effects
- Concrete and rock
- Sandwich structures
- Novel testing and evaluation techniques
- NDE
- Mixed-mode fracture
- Structural integrity
- Scaling and size effects
- Mesofracture mechanics
- Smart materials and structures
- Fracture of biological materials
- Geophysical and tectonic problems
- Restoration engineering

Special Symposia

A series of special symposia in cutting-edge technologies honoring renowned scientists will be organized.

Transportation

There are regular international flights to and from Rhodes International airport from most European cities, mainly, during the summer.



Conference venue: Rodos Palace hotel



Meeting room



Map of Greece

Map of Rhodes



Castle - Old town



Avenue of the knights

Important Dates

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| Abstract due: | October 31, 2016 |
| Notification on abstract: | December 15, 2016 |
| Registration (Early): | March, 31, 2017 |
| Hotel reservation: | April 30, 2017 |