

Dear Colleagues,

On behalf of the **21st European Conference on Fracture (ECF21)** and the Program Committee, I am pleased to invite you and your colleagues to submit Abstract(s) to a Mini-Symposium on:

Material Challenges for Extreme Oil and Gas Environments

WWW: [www: ECF21, European Conference on Fracture](http://www.ecf21.org)

Reservoirs with pressures and temperatures deemed higher than what was considered typical in the past are now frequent targets for exploration and development. However, temperature and pressure affect the physical strength, sealing technology and chemical reaction of a technology or process. This imposes very serious limitations on much of the technology currently available to help develop these reservoirs.

With the accelerating development of high-pressure (HP >20 kpsi) and high-temperature (HT > 350°F (177 °C)), the Oil & Gas industry faces new materials-related challenges.

Both academia and industry are invited to discuss and review the topic of extreme environment as an input to the design of novel materials for oil and gas applications. This symposium will cover the following topics:

- **Materials Selection for challenging Oil and Gas environment (i.e.; H₂S, CO₂, HPHT.....)**
- **Advanced materials in oil and gas production & functional applications**
- **Advanced corrosion-resistant alloys (e.g., Super Stainless Steels, Ni-based alloys)**
- **New and Advanced Corrosion-Resistant Alloys for Oil and Gas Production**
- **Cladding/coatings and surface treatments for Wear and Corrosion**
- **Advanced non-metallic materials, including polymers and cements**
- **Emerging technologies and research in Progress**
- **Corrosion, environmentally-assisted cracking and materials degradation (CO₂, H₂S, Cl⁻, HE, MIC, ...)**
- **Reliability and materials failures**
- **Computational and analytical modeling**
- **Reservoir characteristics, phase behavior and challenges for hostile environments..!**
- **Recent Experiences with Corrosion-Resistant Materials**
- **High-Pressure-Temperature Issues and Materials for the Process Industry**
- **Recent Experiences with Corrosion-Resistant Materials**
- **Case Histories**
- **Integrated Computational Materials Engineering Development of Advanced Materials**

Selected papers will be published in a special issue of a leading journal based on a rigorous peer review procedure. The 21st European Conference on Fracture (ECF21) will take place from **June 20 to June 24, 2016 in Catania, Italy.**

Key Dates

Abstract submission

Notification of acceptance

Full Paper submission

December 31, 2015

January 31, 2015

April 20, 2016

I hope to see you in Catania-- bring your family as June is Beach Season & school year ends.

Sincerely,

Mini-Symposium Organizer

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Welcome to ECF21 & Enjoy your visit to Catania

Benvenuti a ECF21 & Buona visita a Catania

