

SCHEDULE

Industrial visits

(Alestis, Element...)

Cultural visit

Free

Presentation of NewFrac, Invited Lecture
and Scientific talks

Scientific talks and Posters

Scientific talks, Posters and Round Table

Industrial visits

(Airbus...)

Industrial visits

(FIDAMC...)

09:00 h 10:00 h 11:00 h 12:00 h 13:00 h 14:00 h 15:00 h 16:00 h 17:00 h

REGISTRATION & PARTICIPATION

NewFrac Workshop-1 is focused on new strategies in Computational Fracture Mechanics, especially Phase Field and Finite Fracture Mechanics. It is open to senior researchers and PhD students in fracture mechanics.

Due to COVID-19 restrictions, the number of in-person participants is currently limited to 38 attendants and no restrictions will be applied to online attendance. **Call for application is open** by filling the form [here](#).

Payments will be launched by email to the participants. Estimated registration fees:

Registration Fee	In-person	Online
Short Version	150 €	80 €
Full Version	300 €	-

Registration Fee includes: Conference Proceeding, Lunch & Coffee Breaks, Welcome Reception and Conference Dinner.

*Prices are estimated but not definitive

Application deadline 03/09/2021.

Local Organizing Committee: Prof. Vladislav Mantič, Prof. Federico Paris, Prof. Enrique Graciani, Dr. Israel Garcia, Dr. José Reinoso and Ing. Ninfa Vital

Application form:

<https://forms.gle/eqSLdxc9oWyYZe2G8>

A message of confirmation along with detailed instructions will be sent to admitted participants.

October 1st to 8th, 2021

Seville-Madrid, Spain



WORKSHOP-1

*New Strategies in
Computational Fracture Mechanics*

Chairman:

Prof. Vladislav Mantič

Universidad de Sevilla, Spain

Secretary:

Ing. Ninfa Vital

Universidad de Sevilla, Spain

info@newfrac.eu

For further information visit:

<https://www.newfrac.eu/>

Funded by the European Commission
Marie Skłodowska-Curie Actions (MSCA)
Innovative Training Networks (ITN)
European Training Networks (ETN)
H2020-MSCA-ITN-2019



WORKSHOP-1

New Strategies in Computational Fracture Mechanics

INTRODUCTION

The objective of the first NewFrac **Workshop-1** is to boost the development of new strategies in Computational Fracture Mechanics, especially those based on Phase Field and Finite Fracture Mechanics, and to assess the progress of Individual Research Projects (IRPs) of PhD students in NewFrac Training Network.

The event will be held in **short version** in Sevilla on October 4th-6th, 2021 (scientific presentations), and in **full version** in Sevilla and Madrid on October 1st – 8th, 2021 (including both presentations and industrial visits of aerospace industry).

INVITED LECTURE

Prof. Blaise Bourdin McMaster University, Canada.

Lecture: *Phase Field models of fracture*

KEYNOTE LECTURES

Dr. Aurélien Doitrand Université de Lyon, France.

Lecture: *Dialogue between Finite Fracture Mechanics and Phase field approach for brittle fracture.*

Dr. Emilio Martínez-Pañeda Imperial College London, UK.

Lecture: *Multi-Physics Phase Field Modelling of Fracture*

CONTENT

SCIENTIFIC PROGRAM

- Presentation and discussion of the NEWFRAC objectives, structure and operation
- Invited Lecture
- Sessions of scientific talks (in-person/online)
- Poster session (in-person/online)
- Round table (in-person/online)

INDUSTRIAL VISITS

Exposure to current industrial problems in aerospace industries in Seville & Madrid

- Airbus - Madrid, Spain
- FIDAMC - Madrid, Spain
- Element - Sevilla, Spain
- Alestis Aerospace – Sevilla, Spain

VENUE & TRAVEL

The workshop will be held at the **School of Engineering of the University of Seville**. It is located on the Cartuja Island, in the northwest, close to the city center of Seville.

<https://goo.gl/maps/oyURo9J4qEL1Zgr88>

Seville is easily accessible:

- International airports: Madrid-Barajas Adolfo Suárez (MAD), Malaga-Costa del Sol (AGP) and Sevilla-San Pablo (SVQ)
- High-speed railway from Málaga and Madrid (AVE, Renfe)



SCIENTIFIC COMMITTEE

Dr. Albertino Arteiro. Universidade do Porto, Portugal

Prof. Pedro P. Camanho. Universidade do Porto, Portugal

Prof. Pietro Cornetti. Politecnico di Torino, Italy

Dr. Mauro Corrado. Politecnico di Torino, Italy

Dr. Israel G. García. Universidad de Sevilla, Spain

Prof. Enrique Graciani. Universidad de Sevilla, Spain

Dr. Dominique Leguillon. Sorbonne Université, France

Ing. Bernardo López. FIDAMC, Spain

Prof. Laura de Lorenzis. ETH Zurich, Switzerland

Prof. Vladislav Mantič. Universidad de Sevilla, Spain

Prof. Corrado Maurini. Sorbonne Université, France

Dr. Fermín Otero. Universidade do Porto, Portugal

Prof. Marco Paggi. IMT School for Advanced Studies Lucca, Italy

Prof. Federico París. Universidad de Sevilla, Spain

Dr. José Reinoso. Universidad de Sevilla, Spain

Prof. Alberto Sapora. Politecnico di Torino, Italy

Dr. Ing. Fabian Welschinger. Robert Bosch, Germany

Prof. Zohar Yosibash. Tel Aviv University, Israel

Funded by the European Commission
Marie Skłodowska-Curie Actions (MSCA)
★ Innovative Training Networks (ITN)
★ European Training Networks (ETN)
★ H2020-MSCA-ITN-2019



*Due to COVID-19 situation, last minutes updates might be faced