

## WORKSHOP VENUE

The 8<sup>th</sup> IJFatigue & FFEMS joint workshop will take place at **Sheffield Hallam University, Harmer Building**, Sheffield, S1 1WB, United Kingdom.

The Hallam University campus is conveniently located close to Sheffield city centre and the local train station. Sheffield is renowned for its rich industrial heritage, vibrant cultural scene, and stunning green spaces, with the Peak District National Park just on its doorstep.

## SUGGESTED ACCOMMODATION

Participants should make their room reservation directly at the hotel of their choice. These two hotels are close to the conference venue (please, note that no special workshop rate has been arranged for the attendees):

### Leonardo Hotel Sheffield (\*\*\*\*)

(<https://www.leonardohotels.co.uk/sheffield>)

Telephone: +44 87 04100800

Email: [Sheffield@leonardohotels.com](mailto:Sheffield@leonardohotels.com)

119 Eyre Street, Sheffield, S1 4QW, Sheffield  
(350 m from the workshop location)

### Leopold Hotel (\*\*\*\*)

(<https://www.leopoldhotel.co.uk/en/>)

Telephone: +44 114 252 4000

Email: [res.sheffield@leopoldhotels.com](mailto:res.sheffield@leopoldhotels.com)

2 Leopold Street, Leopold Square, S1 2GZ, Sheffield  
(500 m from the workshop location)

## HOW TO REACH SHEFFIELD

Sheffield is well connected by several airports within reasonable distances, including Manchester Airport (40 km), East Midlands Airport (65 km), and Leeds Bradford Airport (65 km). For longer international travel, London Heathrow Airport (270 km) and London Gatwick Airport (300 km) are accessible via London, with Eurostar trains arriving at London St Pancras International. The train journey from London to Sheffield takes approximately 2 hours. The recommended airport for travelling to Sheffield is Manchester Airport, which benefits from a convenient train station located directly at the airport, providing easy and efficient connections to Sheffield city centre.

## REGISTRATION & FEES

Workshop Chairmen have been proactive in obtaining sponsorship for this workshop and no registration fees will be charged.

## SPONSORSHIP



ELSEVIER

WILEY

## WORKSHOP PAPERS

Extended abstracts will be compiled in the Conference Proceedings, which will be distributed to all participants at the start of the Workshop.

Special issues of **International Journal of Fatigue** and **Fatigue & Fracture of Engineering Materials & Structures** are planned to feature selected papers that have been expanded to incorporate insights from the workshop discussions.

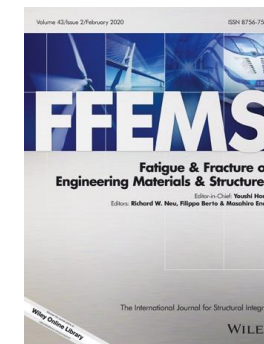
The **joint special issues** published following previous workshops can be accessed directly via the websites of both journals.

## DEADLINES

Abstract Submission: 1 March 2026

Registration: 15 April 2026

## THE JOURNALS



Supported by

**Sheffield  
Hallam  
University**

**8<sup>TH</sup> IJFATIGUE & FFEMS  
JOINT WORKSHOP**

## Characterisation of Crack/Notch Tip Fields

**under Static, Dynamic or  
Cyclic loading**

Sheffield, United Kingdom  
2-4 June 2026

## WORKSHOP CHAIRMEN

**Y. Hong** - *Chinese Academy of Sciences, China*

**M. Vormwald** - *Technical University Darmstadt, Germany*

**G. Meneghetti** - *University of Padova, Italy*

**T. Palin-Luc** - *Arts et Metiers Institute of Technology, France*

**L. Susmel** – *Sheffield Hallam University, UK*

## WORKSHOP SECRETARIAT

c/o **Luca Susmel**

*School of Engineering and Built Environment  
Sheffield Hallam University - Harmer Building  
Sheffield, S1 1WB, United Kingdom*

Telephone: +44 (0)114 2253252

E-mail: [l.susmel@shu.ac.uk](mailto:l.susmel@shu.ac.uk)

## POST-WORKSHOP HIKES IN THE PEAKS

On the 5<sup>th</sup> and 6<sup>th</sup> of June, we will organise two accessible hikes in the Peak District—one each day, starting from and returning to Sheffield. If you're interested in joining, please plan your travel and accommodation accordingly.



*Sheffield Hallam University Campus  
in the city centre*

## BACKGROUND

This conference series originated from discussions in 2009 between the Editors of **Fatigue & Fracture of Engineering Materials & Structures** and **International Journal of Fatigue**. They had observed an increasing number of authors and research groups focusing on the characterisation of notch and crack tip fields, along with the associated damage mechanisms. These topics remain under active investigation across a range of loading conditions, including static, dynamic, and fatigue scenarios. This perspective has since been reinforced by the Editor of **Theoretical & Applied Fracture Mechanics**, further validating the fundamental rationale for this ongoing conference series.

While single-parameter characterisation of crack and notch tip fields using classical fracture mechanics parameters such as K, J or CTOD has been instrumental in advancing predictive models for critical and sub-critical crack growth, it is now well recognised that these approaches have inherent limitations. Over the past three decades, significant research efforts have addressed challenges associated with short cracks, plasticity-induced crack closure, variable amplitude fatigue, multiaxial static, dynamic and fatigue loading, as well as complex notch effects.

Future advances are expected to arise from integrated approaches that combine analytical and numerical modelling with sophisticated full-field experimental techniques. Equally important is bridging the length scales from microstructural features through meso-scale phenomena to structural dimensions, necessitating a multidisciplinary focus on microstructure, damage mechanics, and applied mechanics.

Considerable attention is being devoted to developing methodologies that synergistically integrate these aspects, resulting in improved design frameworks for modelling crack initiation and propagation, and for assessing the residual strength of damaged components.

The organisers of this distinctive workshop believe that the international structural integrity community will greatly benefit from an opportunity for invited scientists and engineers to present, exchange, and discuss new data, innovative ideas, and cutting-edge techniques related to the characterisation of crack and notch tip fields. The workshop aims to provide an informal and interactive environment, held at a conference venue within a historic and inspiring setting, to foster collaboration and advance the field.

## AIM

This Workshop aims to foster discussion, collaboration, and the open exchange of ideas within a field of significant interest to the study of fracture under static, dynamic, and fatigue loading - specifically, the characterisation of crack and notch tip fields through mechanical and microstructural parameters. A particular focus will be placed on multiparameter and cross-disciplinary characterisation approaches.

The Workshop will centre on invited lectures and interactive discussions, with the goal of identifying key insights during a final plenary session. Participants are expected to prepare and deliver presentations (each followed by a 10-minute discussion) on topics relevant to the Workshop's theme.

Following the event, independent Special Issues of **Fatigue & Fracture of Engineering Materials & Structures** and **International Journal of Fatigue** are planned. All presented papers will be extended and peer-reviewed in light of the Workshop discussions, ensuring their relevance and contribution to the field.

These Special Issues are anticipated to serve as valuable archival references that will support ongoing and future research and dialogue in this important area.



*The Sheffield Winter Garden officially opened by  
Queen Elizabeth II on May 22, 2003*

## PREVIOUS WORKSHOPS

Forni di Sopra, Italy, 7-9 March 2011

Malaga, Spain, 15-17 April 2013

Urbino, Italy, 20-22 April 2015

Bonifacio, France, 10-12 April 2017

Heidelberg, Germany, 8-10 April 2019

Dubrovnik, Croatia, 12-14 April 2022

Padua, Italy, 5-7 June 2024