



FATIGUE 2021

CALL FOR PAPERS FATIGUE 2021

Online & On-demand
29 - 31 March 2021

KEYNOTES

Professor Youshi Hong - Chinese Academy of Sciences
Mukesh Patel - Safran
Professor Robert Ritchie - University of California
Professor Roderick Smith - Imperial College, London

Downing
College
Cambridge, UK

Submit an
abstract to
info@e-i-s.org.uk

29 - 31
March 2021



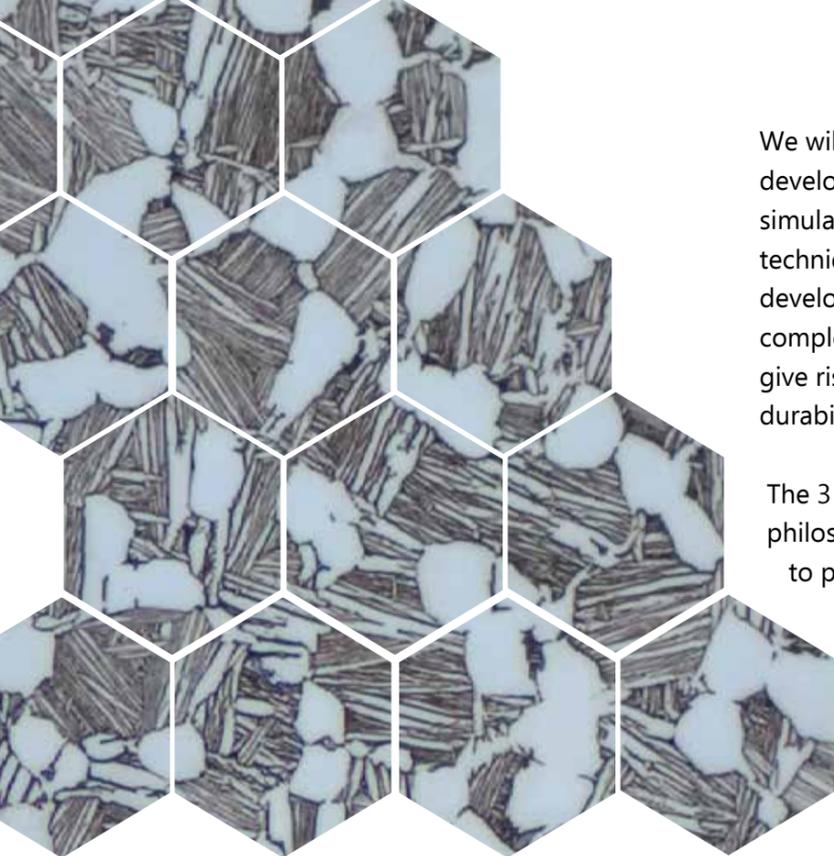
www.fatigue2021.com
www.e-i-s.org.uk



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We will seek to explore not only the latest developments in engineering modelling and simulation, advances in test and measurement techniques, innovations in manufacturing, and developments in materials science, but also the complex interrelations between all these topics that give rise to improvements in fatigue performance, durability and structural integrity.

The 3 day conference builds on the long established philosophy of the Engineering Integrity Society to provide a forum for practising engineers and researchers to exchange ideas and experiences in all aspects of structural integrity. Contributions will be welcome from all disciplines, industries and research organisations. As well as giving practitioners an opportunity to keep up-to-date in the latest developments in durability of materials and structural analysis techniques, the conference will provide an excellent forum for researchers to promote their work and enhance its transfer to, and impact on, industrial applications.

CALL FOR PAPERS

In addition to the papers already accepted for the original Fatigue 2020 conference, new authors are invited to submit abstracts.

There will be an opportunity to submit extended papers to form Special Issues in Fatigue & Fracture of Engineering Materials & Structures & Frattura ed Integrità Strutturale.

A selection of conference papers, including those of the Peter Watson Prize winners, will be published in Engineering Integrity, the Journal of the EIS.

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FOREWORD

The Fatigue 2021 conference will bring the international fatigue and durability community together to share knowledge and understand the challenges in using sophisticated engineering simulation and modelling tools to complement sound test programmes and develop reliable and cost effective products for modern usage.

As engineering modelling and simulation tools become ever more powerful and sophisticated there still remains the challenge of correlating the virtual world with both idealised laboratory testing and the wide, and potentially unexpected, range of service conditions experienced by machines and structures. These challenges are compounded by the advent of new materials, new ways of manufacturing components, new applications and new test and measurement techniques.

We are particularly interested in papers that address the questions:

- Durability of advanced materials;
Novel manufacturing techniques for improved component durability;
Integrity of recycled and reprocessed materials;
- Joining technologies: bolts, welds, adhesives, joining dissimilar materials, correlation of testing and in-service durability;
- Surface engineering and durability;
- Innovations in 3D imaging for structural integrity;

PETER WATSON PRIZE

The Peter Watson Prize will be awarded to the best presentation given by a young engineer. Entrants should meet at least one of the following criteria:

- A person working in industry below the age of 28 on submission (potential entrants please provide date of birth with abstract)
- A post-doctoral worker with a maximum of 3 years' experience since completing a PhD/EngD
- Any currently registered undergraduate or postgraduate student

SUBMISSION OF PAPERS

You are kindly requested to submit an abstract (one A4 page maximum, only in pdf format, size smaller than 1MB) to the Conference Secretariat.

The abstract should contain:

- Title of the paper
- Authors (full address of the company, email, personal titles of the corresponding author and co-authors)
- Statement of contents and main points

The abstract should clearly emphasise the main scientific, technical, economic or practical aspects of the paper.

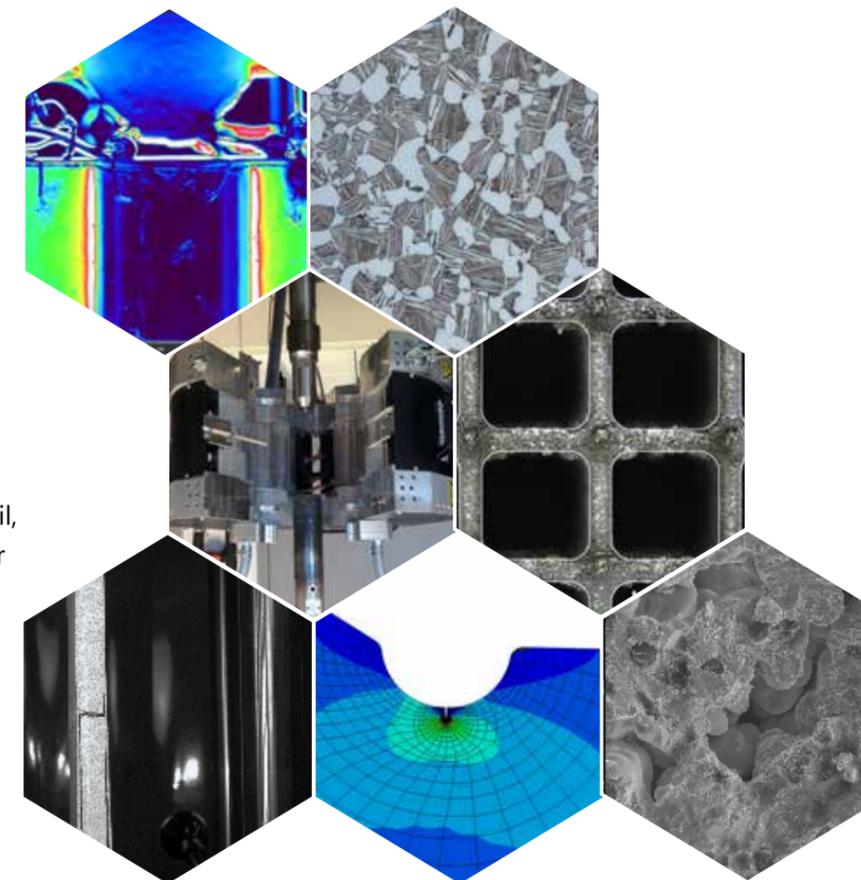
KEY DEADLINES

As the conference has moved to an online event there may be additional opportunities for presenters. If you are interested in submitting an abstract please contact the Secretariat to ascertain the current situation.

PROCEEDINGS AND EXHIBITION

All accepted papers will be included in the conference proceedings. The proceedings containing the full texts will be distributed to delegates at the conference.

An online exhibition of material testing equipment and other fatigue related services is planned. Interested companies should contact the Conference Secretariat.





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