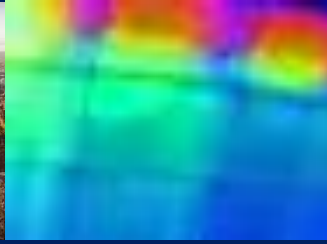


Call for Abstracts The BSSM's 17th International Conference on Advances in Experimental Mechanics



30 August - 1 September 2023

Glasgow University Union, University of Glasgow

The 17th in a series of conferences organised by the British Society for Strain Measurement showcasing novel and innovative research in Experimental Mechanics. Bringing together internationally leading researchers across academia and industry. Conference Chair: Dr Daniel Mulvihill, University of Glasgow. 2-page **extended abstracts should be submitted on-line by 31 March 2023.**

Conference Highlights

Special Sessions

Ultrasonic Fatigue Testing **Dr Yevgen Gorash (University of Strathclyde, UK)**

Residual Stress Measurement **Dr Tan Sui (University of Surrey, UK)**

Flexible and Wearable Strain Sensors **Dr Morteza Amjadi (University of Glasgow, UK)**

Soft Mater and Textiles **Prof Ben Xu (Northumbria University, UK)**

Experimental Nano and Micro Mechanics **Dr Charchit Kumar (University of Glasgow, UK)**

Recent advances in Digital Image Correlation **Dr David Hollis (LaVision UK)**

Materials Testing 2.0 **Professor Fabrice Pierron (University of Southampton, UK)**

Fatigue Damage Development in Steels and Construction Materials **Dr Mateusz Kopec (Polish Academy of Sciences, Poland)**

Advanced Strain Sensors by 3D/4D Printing **Dr Mahdi Bodaghi (Nottingham Trent University, UK)**

Materials challenges for ultrasonic devices **Dr Andrew Feeney (University of Glasgow, UK)**

Mechanochromic Polymers and Composites **Dr Mohammad Fotouhi (Delft University of Technology, Netherlands)**

High-Rate Deformation and Blast Loading **Professor Genevieve Langdon (University of Sheffield, UK)**

Biomaterials and Biomechanics: Development of Experimental Methods **Dr John Mulvihill (University of Limerick, Ireland) and Dr Claire Conway (Royal College of Surgeons in Ireland)**

Young Stress Analyst Competition

Early career opportunity to present research and meet Industry and academic experts

Measurements Lecture

Prof. Philip John Withers University of Manchester, UK. *Grain Scale Strain Mapping of Deformation in Mg Alloys at Room and Elevated Temperatures by High Resolution Digital Image Correlation.*

Plenary Lectures

Dr Eszter Szigeti (Airbus, UK) *Benefits of Using Experimental Mechanics during Aircraft Product Development and Certification.*

Dr Salah Rahimi (National Manufacturing Institute Scotland) *Stress relaxation and distortion during manufacturing of high value components*

EMex23

The premier UK exhibition for manufacturers and suppliers of strain measurement and stress analysis equipment

Strain Best Prize Competition

Sponsored by Corporate Member Fylde

Conference Reception Glasgow City Chambers

Conference Dinner Bute Hall, Glasgow University Union, University of Glasgow

Conference Themes

The conference covers all areas of experimental solid mechanics including Aerospace, Automotive, Rail, Biomedical, Construction, Power & Energy. Themes include:

- Innovation in measurement technology
- Measurement in extreme environments
- Evaluation of composite materials & structures
- Assessment of biological & medical systems
- High strain rate & dynamic response of materials
- Fatigue & fracture
- Non-destructive evaluation
- Structural health monitoring
- Tribology & Contact

www.bssm.org/events