The International Conference on Modern Practice in Stress and Vibration Analysis (MPSVA 2018) is part of an international series, organised by the Applied Mechanics Group of the Institute of Physics.

The aim of the conference is to bring together physicists, mathematicians, materials scientists and engineers from academia and industry, and to provide a platform for the presentation of creative and novel research findings facilitating an interchange of ideas and providing guidance for future research direction. The scope of the Conference is broad and covers the full range of fundamental, experimental and applied research in stress and vibration analysis, as such:

- Computational techniques;
- Composite materials;
- Contact mechanics;
- Measuring and modelling residual stresses;
- Damage assessment;
- Fatigue and fracture mechanics;
- Identification and control;
- Multi-functional and smart structures;
- Multi-scale analysis;
- Damping materials;
- Mechanics of advanced materials under vibro-impact loading;
- Full/Multi field techniques;
- Vibration based structural testing;
- Finite and boundary elements;
- Rotating systems;
- Inverse problems;
- Tribology.

Authors of accepted abstracts will have the option to publish their papers in IOP Publishing’s Journal of Physics: Conference Series and/or in the special edition Advances in Computational Stress and Vibration Analysis, of the European Journal of Computational Mechanics (EJCM).

Keynote speakers
Professor Janice Barton, University of Southampton
Professor Steve Beeby, University of Southampton
Professor Nik Petrinic, University of Oxford
Professor Keith Worden, University of Sheffield

Important dates
Abstract submission deadline (extended): 15 March 2018
Early registration deadline: 5 June 2018
Registration deadline: 26 June 2018

Chair
Cristinel Mares, Brunel University, UK

Organising committee
Dr Cristinel Mares, (Conference Chair) Brunel University, UK
Dr Giles Aldrich-Smith, AWE, UK
Dr Ifigeneia Antoniadou, University of Sheffield, UK
Professor Carol Featherstone, University of Cardiff, UK
Dr Jack Hale, University of Newcastle, UK
Professor Alison McMillan, Wrexham Glyndwr University, UK
Dr Sophoclis Patsias, Rolls-Royce, UK
Dr Anish Roy, Loughborough University, UK
Professor Christopher Smith, University of Exeter, UK
Dr John Banister, Entropia Consulting, UK

For further details contact
Ana Santos
Institute of Physics
80 Portland Place
London W1B 1NT
Email: ana.santos@iop.org