

19th INTERNATIONAL CONFERENCE ON EXPERIMENTAL MECHANICS

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Symposium

on

Advanced Characterisation and Modelling of Metal Forming Processes

Organised by:

Dr. Omer El Fakir*, Dr. Xi Luan*, Mr. Mateusz Kopec*** and Dr. Liliang Wang*
o.elfakir@imperial.ac.uk, xi.luan13@imperial.ac.uk, mkopec@ippt.pan.pl,
liliang.wang@imperial.ac.uk

*Department of Mechanical Engineering, Imperial College London, London, UK

**Institute of Fundamental Technological Research, Warsaw, Poland

Symposium description:

With the continuously growing need for more fuel efficient and sustainable vehicles, the characterisation and modelling of metal forming processes has been indispensable in the development of new products. This symposium focuses on the characterisation techniques and numerous advanced predictive models developed for such processes in recent years. Papers from various disciplines with a common interest in metal forming are invited, and may fall under (although are not limited to), the following topics:

1. Advanced FE simulations of metal forming processes
2. Post-form strength characterisation and modelling
3. Heat transfer characterisation and modelling
4. Friction, wear and lubrication characterisation and modelling
5. Formability, necking and failure prediction
6. Novel experimental techniques for metal forming process characterisation
7. Measurement systems for extracting valuable data from metal forming processes
8. Data-driven techniques for process development