



NanoSPD7

The 7th International Conference on Nanomaterials by Severe Plastic Deformation

2-7 July 2017 | University of Sydney
Sydney | Australia
www.nanoSPD7.com

Invitation

The International NanoSPD Steering Committee and the Local Organising Committee invite you to attend the Seventh International Conference on Nanomaterials by Severe Plastic Deformation (NanoSPD7) to be held in Sydney, on 2-7 July 2017.

The NanoSPD conferences have been an important series of international events highlighting the potential of severe plastic deformation as a tool for producing bulk nanostructured and ultrafine grained materials. The conferences of this series take place every three years. The previous conferences held in Moscow (1999), Vienna (2002), Fukuoka (2005), Goslar (2008), Nanjing (2011), and Metz (2014) have been excellent forums for discussion of a wealth of challenging scientific problems associated with this field of research.

NanoSPD7 will provide a platform for the NanoSPD community to present new results and exchange research ideas. Your participation in NanoSPD7 and your scientific contributions are essential for its success.

We look forward to welcoming you to the beautiful city of Sydney that will be hosting NanoSPD7.

KEY DATES

Call for Abstracts Opens **8 August 2016**

Registration Opens **14 November 2016**

Call for Abstracts Closes **13 January 2017**

Notification of Acceptance **30 January 2017**

Early-Bird Registration Closes **15 March 2017**

Manuscripts Submission Close **15 March 2017**

Pre-Conference **1 July 2017**

NanoSPD7 Conference 2-7 July 2017



NanoSPD7

2-7 July 2017 | Sydney • Australia

www.nanoSPD7.com

Local Organising Committee

Prof. Yuri Estrin - NanoSPD7 Honorary Chair

Department of Materials Science and Engineering
Monash University

Prof. Xiaozhou Liao - NanoSPD7 Chair

School of Aerospace, Mechanical and Mechatronic
Engineering
University of Sydney

Prof. Michael Ferry

School of Materials Science and Engineering
The University of New South Wales

Dr. Chengfan Gu

Aerospace, Mechanical and Manufacturing
Engineering
RMIT University

A/Prof. Rimma Lapovok

Institute for Frontier Materials
Deakin University

Prof. Elena Pereloma

School of Mechanical, Materials and Mechatronic
Engineering
The University of Wollongong

Prof. Kenong Xia

Department of Mechanical Engineering
The University of Melbourne

International Advisory Committee

Prof. Ruslan Z. Valiev - Chair

Ufa State Aviation Technical University, Russia

Prof. Yuri Estrin

Monash University, Australia

Prof. Roberto Figueiredo

Federal University of Minas Gerais, Brazil

Prof. Zenji Horita

Kyushu University, Japan

Prof. Hyoung Seop Kim

Pohang University of Science and Technology, Korea

Prof. Terence G. Langdon

University of Southampton, UK

Prof. Laszlo S. Toth

Lorraine University, Metz, France

Prof. Terry C. Lowe

Colorado School of Mines, USA

Prof. Gerhard Wilde

University of Muenster, Germany

Prof. Michael Zehetbauer

University of Vienna, Austria

Prof. Yuntian Zhu

North Carolina State University, USA

Conference Themes

The themes of NanoSPD7 will include but not be limited to the following:

1 Processing

- Processing techniques
- Surface nanostructuring and gradient structures
- Powder consolidation by SPD
- Emerging SPD techniques

2 Microstructures and deformation mechanisms

- Microstructure and texture evolution
- Grain refinement and deformation mechanisms
- SPD-induced solute distribution
- Diffusion and grain boundary related phenomena
- Microstructural stability
- SPD-induced phase transformations
- Characterisation techniques for SPD-processed materials, including neutron and synchrotron characterisation

3 Mechanical properties of SPD-processed materials

- Elastic and plastic deformation
- Superplasticity
- Effects of corrosion to mechanical properties

4 Biocompatibility and Biomedical applications of SPD processed materials

5 Functional and multifunctional properties

6 Modelling

- Modelling of SPD processes
- Modelling of microstructure evolution and phase transformations
- Modelling of mechanical properties

7 Innovations in SPD processes

- Fabrication of hybrid materials by means of SPD
- Scaling of SPD processing
- Commercialisation of SPD-based technologies

Contact Us

General Enquiries

info@nanospd7.com

Abstracts

abstracts@nanospd7.com

Registration & Accommodation

registration@nanospd7.com

Sponsorship & Exhibition Enquiries

sponsorships@nanospd7.com