

COSIRES 2008 is the 9th in a series of international conferences on Computer Simulation of Radiation Effects in Solids, the first of which was held in Berlin (Germany) in 1992. This conference, which is held every two years, is the foremost international forum to address the theory, development and application of advanced computer simulation methodologies to the understanding and modeling of the interaction of energetic particles and clusters (from several eV to many MeV) with solids. Related experimental studies are also included.

Computational Modeling and Simulation of (but not limited to)

- Ion- and plasma-induced physical and chemical effects at surfaces and interfaces
- Formation and evolution of radiation defects in metals, ceramics, and carbon-based materials
- Doping of semiconductors using ion implantation and subsequent annealing
- Ion beam synthesis of nanostructures
- Formation of thin films by ion- and plasma-assisted deposition
- Irradiation-induced charge redistribution, electron excitation and electron-phonon interactions
- Developments of new methodologies for irradiation effects and related experimental studies of irradiation effects.

Invited speakers

- Dorothy Duffy, University College London, UK
- Chu-Chun Fu, DEN/DMN/SRMP CEA-Saclay, France
- Paul Erhart, Lawrence Livermore National Lab
- Ram Devanathan, Pacific Northwest National Laboratory, USA
- Masanori Kohyama, National Institute of Advanced Industrial Science and Technology, Japan
- Jiangang Li, Institute of Plasma Physics, Chinese Academy of Sciences, China

Additional invited speakers will be selected from the authors of the submitted abstracts.

Important dates

- First announcement: December 30, 2007
- Second announcement: February 1, 2008
- Starting date for abstract submission: June 1, 2008
- Deadline for abstract: August 1, 2008
- Conference date October 12-17, 2008

Conference Organizer

- Beihang University

Conference Co-organizers

- Hunan University
- Tsinghua University
- University of Electronic Science and Technology of China

Supported by

- National Natural Science Foundation of China (NSFC)
- Chinese Physical Society (CPS)
- Chinese Materials Research Society (C-MRS)
- Chinese Nuclear Physics Society
- Materials Science Division of The Chinese Society for Metals

International Advisory Committee

- Charlotte Becquart (France)
Alfredo Caro (USA)
Maria Caturla (Spain)
Jean-Paul Crocombette (France)
Masao Doyama (Japan)
Barbara Garrison (USA)
Kai Nordlund (Finland)
Matthias Posselt (Germany)
Roger Smith (UK)
Barend Thijsse (The Netherlands)
Herbert Urbassek (Germany)
Tianmin Wang (China)
Roger Webb (UK)
William J. Weber (USA)
Toshimasa Yoshiie (Japan)

Conference Chair

Tianmin Wang, Beihang University

Co-chairs

- Fei Gao**, Pacific Northwest National Laboratory
Wangyu Hu, Hunan University
Wensheng Lai, Tsinghua University
Guang-Hong Lu, Beihang University
Xiaotao Zu, University of Electronic Science and Technology of China

Please see the conference website for detailed information.