

## **SERVICE AND PROFESSIONAL LEADERSHIP (Shaochen Chen)**

- *Editorial Board Member, Biofabrication* (2008-present)
- *Editorial Board Member, The Open Materials Science Journal* (2008-present)
- *Associate Editor, ASME Journal of Manufacturing Science and Engineering* (2007-present)
- *Associate Editor, Journal of Biomedical Nanotechnology* (2007-present)
- *Editorial Board Member: Nanomedicine (UK)* (2005-present)
- *Guest Editor: IEEE Transactions on Advanced Packaging*, special issue on MEMS/NEMS packaging, 2003.
- *Proposal review panels:*
  - NIH SBIR for Biomaterials, Drug and Gene Delivery, and Nanotechnology, 2009.
  - DOE Energy Nanomanufacturing, 2008
  - NIH Biomaterials and Biointerfaces Study Section, 2007-present.
  - NSF DMII Division proposal review panel, 2006.
  - NSF CTS Division proposal review panel, 2005.
  - NSF DMII Division proposal review panel, 2005.
  - NSF DMII Division proposal review panels (two panels), 2004.
  - NSF CTS Division proposal review panel, 2003.
  - NSF DMII Division proposal review panel, 2003.
  - The State of Louisiana Nanobiotechnology proposal review panel, 2002.
  - NSF DMII Division proposal review panels (two panels), 2002.
  - NSF DMII Division proposal review panels (two panels), 2001.
  - NSF DMII Division proposal review panel, 2000.
- *Proposal reviewer (mail-in proposals) for the following agencies:*
  - Swiss National Science Foundation (2008, 2009)
  - Department of Energy (DOE) Basic Energy Science (2008)
  - Army Research Office (2006).
  - Air Force Office of Scientific Research (2004).
  - Agency for Science, Technology and Research (Singapore) (2007, 2003).
  - The Petroleum Research Fund of the American Chemical Society (2003).
  - NSF CTS Division (2002-2004).
  - NSF DMII Division (2004, 2005).
  - NSF Chemistry (2006).
  - Civilian Research & Foundation of the U. S. Department of State (2000-2002).
  - Lawrence Livermore National Laboratory (2000).
- *Referee for the following journals:*

Nature Nanotechnology	Journal of Microelectromechanical Systems
Nano Letters	Journal of Applied Physics
Nanotechnology	Journal of Manufacturing Processes
ACS Nano	Microscale Thermophysical Engineering
Biomaterials	IEEE Transactions on Advanced Packaging
Optics Letters	Journal of Laser Micro and Nanoengineering
Sensors and Actuators A	International Journal of Heat and Mass Transfer
Applied Physics Letters	Journal of Manufacturing Science and Engineering
Journal of Heat Transfer	Journal of the American Chemical Society

Optics Express  
Thin Solid Films  
Applied Physics A  
Nanomedicine

Journal of Micromechanics and Microengineering  
Journal of Nondestructive Evaluation  
Journal of Optics & Laser Technology  
Journal of Biomedical Materials Research B

- Referee for the following international/national conferences:
  - North American Manufacturing Research Conference, SME (2002-2006)
  - ASME International Mechanical Engineering Congress & Exposition (1998-2007).
  - National Heat Transfer Conference (1998-2007).
  - SPIE International Symposium of Laser-based Micro- and Nano-Packaging and Assembly (2005-2008).
  - International Conference on Optical MEMS and Nanophotonics (2008).
  - International Conference on Agile Manufacturing (2007).
  - American Institute of Aeronautics and Astronautics (AIAA) conference (2004).
  - International Conference on Metallurgical Coatings and Thin Films (2003).
  - European Conference on Thermophysical Properties (2000).
  - International Conference on Advanced Materials (1999).
- Textbook reviewer: reviewed five textbooks about Biomedical Nanotechnology, MEMS, Heat Transfer, Nano and Micro-fabrication, and Manufacturing respectively (2000, 2004, 2005, 2006, 2008). The publishers are McGraw-Hill, Springer, Addison-Wesley Longman, and Elsevier.
- Faculty promotion reviewer:
  - University of Nebraska, Lincoln for promotion to Associate Professor with tenure.
  - University of Pittsburg for promotion to Associate Professor with tenure.
  - University of Colorado at Boulder for promotion to Associate Professor with tenure.
  - University of Missouri at Columbia for promotion to Associate Professor with tenure.

**Technical Committee:**

- Technical committee, MEMS/NEMS Packaging (Chair 2001 and 2002) of the Electronics and Photonics Packaging Division, ASME, 2001-present.
- Technical committee, Nanorobotics and Nanomanufacturing of the IEEE Nanotechnology Council, 2003-present.
- Technical committee, Nanomanufacturing of the ASME Nanotechnology Institute, 2003-present.
- Technical committee, Biomanufacturing of ASME (MED), 2006-present
- Technical committee, Micro / Nano systems of the Design Engineering Division, ASME, 2005-
- Technical committee on State Strategy of Advanced Technology, State of Texas, 2004-2005.

**Conference Chair / Committee:**

- Program Committee (“Micro-Nanotechnology Sensors, Systems, and Applications”), SPIE International Symposium on Defense, Security and Sensing, Florida, 2010.
- Track co-Chair, NanoEngineering for Medicine and Biology Congress 2010, Houston, TX.
- Program Committee (Nanomanufacturing), 2009 IEEE/LEOS International Congress on Applications of Lasers & Electro-Optics (ICALEO), 2009.
- Program Committee (Nanophotonics), International Conference on Optical MEMS and Nanophotonics, Clearwater Beach, FL, 2009.

- Session Chair, SPIE International Symposium of Nanomanufacturing and Nanometrology (International Society for Optical Engineering), 2009.
- Organizing committee, SPIE International Symposium of Nanomanufacturing and Nanometrology (International Society for Optical Engineering), 2009.
- Organizing committee, SPIE International Symposium of Laser-based Micro- and Nano-Packaging and Assembly (International Society for Optical Engineering), 2009.
- Organizing Committee, Micro & Nano Society-Wide Forum, International Mechanical Eng. Congress & Exposition (**IMECE**), 2008.
- Panelist, “Nanomanufacturing”, The 8<sup>th</sup> International Conference on Frontiers of Design and Manufacturing, 2008.
- Organizing committee, “Cross Industry Issues in Nanomanufacturing Workshop”, National Institute of Standards and Technology, May 2008.
- Program Committee (Nanophotonics), International Conference on Optical MEMS and Nanophotonics, Freiburg, Germany, 2008.
- Program Committee (Nanomanufacturing), 2008 IEEE/LEOS International Congress on Applications of Lasers & Electro-Optics (ICALEO), 2008.
- Co-organizer, Symposium for 3D Nanofabrication Technologies for Tissue Engineering Scaffolds, 8<sup>th</sup> World Biomaterials Congress, Amsterdam, The Netherlands 2008.
- Organizing committee, SPIE International Symposium of Laser-based Micro- and Nano-Packaging and Assembly (International Society for Optical Engineering), 2008.
- Program Committee of Nanomanufacturing, International Congress on Applications of Lasers & Electro-Optics (ICALEO), 2007.
- Organizing Committee, Micro & Nano Society-Wide Forum, IMECE, 2007.
- Organizing committee, Symposium of NEMS / MEMS Packaging, IMECE, 2007.
- Scientific Committee, International Conference on Agile Manufacturing, 2007.
- Organizing committee, SPIE International Symposium of Laser-based Micro- and Nano-Packaging and Assembly (International Society for Optical Engineering), 2007.
- Organizing committee, Symposium of NEMS / MEMS Packaging, IMECE, 2006
- Panelist, “Recent Development and Opportunities in Nanomanufacturing Towards 3D Nanosystems”, IMECE, 2005
- Organizing committee, Symposium of NEMS / MEMS Packaging, IMECE, 2005
- Co-Chair, Nanoscale Radiation Heat Transfer, IMECE, 2005.
- Co-organizer, Materials Research Society (MRS) Symposium of Surface Modifications and Interactions for Manufacturing Applications, 2005.
- Organizing committee, Symposium on Micro- and Nanoscale Laser Materials Processing in 41st Annual Technical Meeting of the Society of Engineering Science, 2004.
- Organizing committee, Symposium of NEMS / MEMS Packaging, IMECE, 2004
- Organizing committee, Symposium of NEMS / MEMS Packaging, IMECE, 2003

- Chair, MEMS Packaging Session II, IMECE, 2004.
- Chair, MEMS Packaging Session III, IMECE, 2003.
- Panelist, “Challenging issues in NEMS/MEMS packaging”, IMECE, 2003.
- Panelist, “Transport Phenomena in Processing of Biomaterials and BioMEMS”, IMECE, 2003.
- Panelist, NSF CAREER workshop, NSF Grantees Conference, 2003.
- Organizing committee, SPIE Lasers in Materials Processing & Manufacturing Conference (International Society for Optical Engineering), 2002.
- Chair, MEMS Packaging Sessions I and II, IMECE 2002.
- Chair, Nano/Micro/Meso-scale Manufacturing Session, IMECE 2002.
- Organizer, MEMS Packaging Symposium of MEMS sub-division, IMECE 2002.
- Organizer, MEMS Packaging Symposium of MEMS sub-division, IMECE 2001.
- Chair, MEMS Packaging Session I, IMECE 2001.
- Co-chair, Sensing session, 7<sup>th</sup> *Mechatronics Forum International Conference*, 2000.

**Professional Societies:**

- Fellow, American Society of Mechanical Engineers (ASME).
- Fellow, International Society for Optical Engineering (SPIE).
- Senior Member, Society of Manufacturing Engineers (SME).
- Member, American Association for Advanced Science (AAAS).