

Abstracts and Technical Presentations - Dr. Shaochen Chen:

20. G. Mapili, M. H. Kim, L. Nguyen, Y. Lu, **S.C. Chen**, K. Roy, "Spatially Patterned Microfabricated Polymer Scaffolds for Tissue Engineering", *Biomedical Engineering Society Annual Fall Meeting*, 2006.
19. **S. C. Chen**, "Transport and Mechanics Issues in Laser Nanomanufacturing", US-China NSF Workshop of Young Investigator Awardees in Bio and Nano Mechanics and Materials, Dec 2005 (**Invited**)
18. **S. C. Chen**, "Nanomanufacturing using near-field laser optics", ASME International Mechanical Engineering Congress and Exposition Dec 2005 (**Invited**).
17. N. Gomez (poster), C. Schmidt*, and **S.C. Chen**, "Neuron Response to Simultaneous and Competing Extracellular Cues", *Biomedical Engineering Society Annual Fall Meeting*, 2005.
16. G. Mapili (poster), Y. Lu, **S. C. Chen**, and K. Roy, "3D-Laser Scanning Stereolithography for Spatio-Temporal Patterning of Polymer Scaffolds," *Biomedical Engineering Society Annual Fall Meeting*, 2005.
15. Y. Lu (poster), G. Mapili, **S. C. Chen**, and K. Roy, "Laser Scanning Stereolithography for Spatio-Temporal Patterning of Tissue Scaffolds," *16th Symposium of Solid Freeform Fabrication*, Austin, TX, 2005.
14. D.B. Shao, Y. Lu, and **S.C. Chen***, "Surface-Plasmon-Assisted, High-Density, Sub-100 nm Photolithography", Second Conference on Nanoscale Devices & System Integration (NDSI), Houston, 2005.
13. L.H. Han, T.J. Tang, **S.C. Chen***, and S. E. Webber, "Photo-deformable Micro-shells", Second Conference on Nanoscale Devices & System Integration (NDSI), Houston, 2005.
12. G. M. Mapili (speaker), Y. Lu, S. C. Chen, and K. Roy*, "Microfabrication of Spatio-temporally Patterned Polymer Scaffolds for Stem Cell Engineering," Society for Biomaterials Program, *Biomaterials in Regenerative Medicine: The Advent of Combination Products*, Philadelphia PA, October 16-18, 2004.
11. N. Gomez (poster), C. Schmidt*, and **S.C. Chen**, "Studies on Competitive Responses in Neurons to Extracellular Cues Using Microfabricated Systems", *Biomedical Engineering Society Annual Fall Meeting*, 2004.
10. G. M. Mapili (speaker), Y. Lu, **S. C. Chen**, and K. Roy*, "Spatio-Temporally Patterned Polymer Scaffolds for Stem Cell Engineering," *AICHE 2004 Annual Meeting*, Austin, November 2004.
9. **S. C. Chen** (poster), "Laser Micro/Nano-scale Processing of Biodegradable Polymers", *National Science Foundation DMII Division Grantees Conference*, Jan. 2004.
8. G. Mapili (poster), Y. Lu, **S. C. Chen**, and K. Roy, "Spatio-temporal Patterning of Microfabricated Polymer Scaffolds for Stem Cell Engineering", *Biomedical Engineering Society Annual Fall Meeting*, Nashville, TN, October 1-4, 2003.

7. G. Mapili (poster), Y. Lu, **S. C. Chen**, and K. Roy, "Spatio-temporal Patterning of Growth Factors In Micro-fabricated Scaffolds", *30th Annual Meeting & Exposition of the Controlled Release Society*, Glasgow, July 19-23, 2003.

6. **S.C. Chen** (poster), "Laser Nanosphere Lithography of Biodegradable Polymers", *National Science Foundation DMII Division Grantees Conference*, Jan. 2003.

5. S. Li and **S. C. Chen** (poster), "Heat-conduction Based, Nano-liter Scale, Continuous Flow PCR for DNA Amplification", *BECON*, National Institute of Health (NIH), May 2002.

4. S. Theppakuttai (speaker) and **S. C. Chen**, "Laser Micromachining of a Shape Memory Alloy", *Nanospace2002*, May 2002.

3. Y. Lu (speaker), **S. C. Chen**, "Nano-sphere Assisted Nanolithography", *Nanospace*, May 2002.

2. S. Li (speaker) and **S. C. Chen**, "Analytical Analysis of a PZT-actuated Valveless Micropump", *Nanospace 2002*, May 2002.

1. **S.C. Chen** (poster), "Laser Micromachining of Biodegradable Polymers", *National Science Foundation DMII Division Grantees Conference*, January 2002.