

STEVEN L. TRIPP

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EDUCATION

- Ph.D. Organic Chemistry 2003
Purdue University, West Lafayette, IN
Research Thesis: "TEM and STS studies of Resorcinarene-Passivated Nanostructured Interfaces."
Dr. Alexander Wei
- Applied Management Principles Program, Krannert School of Management 2002
Purdue University, West Lafayette, IN
- B.S. Biology and Chemistry 1996
Indiana Wesleyan University, Marion, IN

PROFESSIONAL EXPERIENCE

- Assistant Professor of Chemistry 2007 – Present
Department of Chemistry, Indiana Wesleyan University
- Purdue University – Department of Industrial and Physical Pharmacy 2005 – 2007
Postdoctoral Research Associate
Dr. Lynne Taylor
- Purdue University – Department of Physics 2003 – 2005
Postdoctoral Research Associate
Dr. Ronald Reifenberger
- Purdue University – Department of Chemistry 1997 – 2003
Doctoral Research Assistant
Dr. Alexander Wei
- Purdue University – Department of Chemistry 1997 – 2003
Course Supervisor and Teaching Assistant for Organic Chemistry Laboratory
- Strauss Veal Feeds, Inc., North Manchester, IN 1996 – 1997
Laboratory Technician

AWARDS AND HONORS

- Brown-Wetherill Teaching Fellowship, Purdue University 1997
Summa Cum Laude Graduate, Indiana Wesleyan University 1996

PROFESSIONAL ASSOCIATIONS

American Chemical Society
American Association of Pharmaceutical Scientists

GRANT AND FUNDING ACTIVITIES

- | | |
|---|-------------|
| Lilly Scholarship of Teaching and Learning Award
Teaching development and applied scientific training of undergraduate students while studying 'Drug Stability as a Function of Excipient Hygroscopicity.' | 2009 – 2010 |
| Lilly Scholarship of Teaching and Learning Award
Teaching development and applied scientific training of undergraduate students while studying 'Drug Stability as a Function of Excipient Hygroscopicity.' | 2008 – 2009 |

PUBLICATIONS

1. Wei, A.; Tripp, S. L.; Liu, J.; Kasama, T.; Dunin-Borkowski, R. E. "Calixarene-Stabilized Cobalt Nanoparticle Rings: Self-Assembly and Collective Magnetic Properties." *Supramolecular Chemistry*, 21 (3/4), 189 (2009).
2. Kasama, T.; Dunin-Borkowski, R. E.; Scheinfein, M. R.; Tripp, S. L.; Liu, J.; Wei, A. "Reversal of Flux Closure States in Cobalt Nanoparticle Rings With Coaxial Magnetic Pulses." *Advanced Materials*, 20, 4248 (2008).
3. Jana, A.; Tripp, S. L.; Raman, A.; Reifenberger, R. G. "Microcantilever mechanics in flowing viscous fluids." *Appl. Phys. Lett.* 90, 114110 (2007).
4. Dunin-Borkowski R. E.; Kasama, T.; Wei, A.; Tripp, S. L.; Hýtch, M. J.; Snoeck, E.; Harrison, R. J.; Putnis, A. "Off-axis electron holography of magnetic nanowires and chains, rings, and planar arrays of magnetic nanoparticles." *Microscopy Research And Technique* 64, 390 (2004).
5. Kim, B.; Carignano, M. A.; Tripp, S. L.; Wei, A. "Cluster Size Analysis of Two-Dimensional Order in Colloidal Gold Nanoparticle Arrays." *Langmuir* 20, 9360 (2004).
6. Tripp, S. L.; Dunin-Borkowski, R. E.; Wei, A. "Flux Closure in Self-Assembled Cobalt Nanoparticle Rings." *Angew. Chem. Int. Ed. Engl.* 42, 5591 (2003).
7. Tripp, S. L.; Pusztay, S. V.; Ribbe, A.; Wei, A. "Self-Assembly of Cobalt Nanoparticle Rings", *J. Am. Chem. Soc.* 124, 7914 (2002).
8. Balasubramanian, R.; Kim, B.; Tripp, S. L.; Wang, X.; Lieberman, M.; Wei, A. "Dispersion and Stability Studies of Resorcinarene-encapsulated Gold Nanoparticles." *Langmuir* 18, 3676 (2002).
9. Labonté, A. P.; Tripp, S. L.; Reifenberger, R.; Wei, A. "Resistance Measurements of Highly Insulating Self-assembled Monolayers on Au(111) by Scanning Tunneling Spectroscopy", *J. Phys. Chem B*, 106, 8721 (2002).
10. Kim, B.; Tripp, S. L.; Wei, A. "Self-Organization of Large Gold Nanoparticle Arrays." *J. Am. Chem. Soc.* 123, 7955 (2001).
11. Wei, A.; Kim, B.; Sadtler, B.; Tripp, S. L. "Tunable Surface-enhanced Raman Scattering from Large Gold Nanoparticle Arrays." *ChemPhysChem* 2, 743 (2001).
12. Kim, B.; Tripp, S. L.; Wei, A. "Tuning the Optical Properties of Gold Nanoparticle Arrays." *Mater. Res. Soc. Symp. Proc. Ser.* 676, Y.6.1 (2001).
13. Wei, A., Kim, B.; Pusztay, S. V.; Tripp, S. L.; Balasubramanian, R. "Resorcinarene-encapsulated Nanoparticles: Building Blocks for Self-Assembled Nanostructures." *J. Inclusion Phenomena Macrocylic Chem.* 41, 83 (2001).
14. Kim, B.; Tripp, S. L.; Sadtler, B.; Wei, A. "Nanostructured Materials as Biomolecular Sensors for Cell Transport." *IEEE/LEOS 2001 Annu. Mtg.*, 263 (invited paper).

CONFERENCES AND WORKSHOPS ATTENDED

1. POGIL / SWH Workshop. University of Wisconsin – Platteville, Platteville, WI, July 2009.
2. 20th Biennial Conference on Chemical Education, Indiana University, Bloomington, Indiana, July 2008.
3. 15th Annual Symposium, Purdue / Michigan Program. "The Study of Supramolecular Assemblies and Solid-State Properties." Purdue University, West Lafayette, IN, September 2006.
4. 14th Annual Symposium, Purdue / Michigan Program. "The Study of Chemical and Physical Stability of Solid Pharmaceuticals." Purdue University, West Lafayette, IN, September 2005.
5. Electronic Materials Conference, South Bend, IN, June, 2004.
6. International Symposium on Clusters And Nano-Assemblies: Physical and Biological Systems, Richmond, VA, November 2003.
7. Microscopy & Microanalysis 2002, Quebec City, Quebec, Canada, August 2002.
8. 222nd American Chemical Society National Meeting, Chicago, IL, August 2001.

PRESENTATIONS

1. Oral Presentation, "Crystallization Employing Emulsions." Tripp, S.L.; Taylor, L.S.; Byrn, S.R. Particle Technology & Crystallization Consortium Semi-Annual Meeting, Chicago, IL, October 2007.
2. Oral Presentation, "Microcantilever Arrays as Biological and Chemical Sensors." Tripp, S. L.; Dhayal, B.; Reifenberger, R. G. Electronic Materials Conference, South Bend, IN, June, 2004.
3. Poster Presentation, "Self-Assembly and Characterization of Cobalt Nanoparticle Rings." Tripp, S. L.; Dunin-Borkowski, R. E.; Puszty, S. V.; Wei, A. International Symposium on Clusters And Nano-Assemblies: Physical and Biological Systems, Richmond, VA, November 2003.
4. Poster Presentation, "TEM Image Analysis of Self-Organized Large Gold Nanoparticle Arrays." Tripp, S. L.; Kim, B.; Wei, A. Microscopy & Microanalysis 2002, Quebec City, Quebec, Canada, August 2002.
5. Poster Presentation, "Insulating Self-Assembled Monolayers on Au(111): Estimating Molecular Resistance Using Scanning Tunneling Spectroscopy." Labonté, A. P.; Tripp, S. L.; Reifenberger, R.; Wei, A. 222nd American Chemical Society National Meeting, Chicago, IL, August 2001.

UNIVERSITY SERVICE

Indiana Wesleyan University Technology Committee, 2009 – 2010.

UNIVERSITY INVOLVEMENT

Rank Promotion and the Portfolio Development Process Workshop, 2009

Life Calling Workshop for Faculty: Understanding the Life Calling Model, 2008