

S. D. Gillmor

Department of Chemistry, George Washington University, Washington DC 20052

Professional Preparation

The Pennsylvania State University	Chemistry	PostDoc (2004-2006)
University of Wisconsin-Madison	Material Science	M.S.(1999), PhD, (2002)
Williams College	Chemistry	B.A. (1996)

Appointments

Assistant Professor, George Washington University,	Chemistry	2007
Postdoctoral Scholar, The Pennsylvania State University	Chemistry	2004-2006
Senior Staff Scientist, Trex Enterprises	R&D	2002-2003

Awards and Honors

GW Institute for Proteomics Technology and Applications member
GW Biomedical Institute member
GW Cancer Institute member
Materials Research Society Conference 2001 Graduate Student Silver Award
National Science Foundation Fellow 1998-2001
Honors in chemistry undergraduate

Recent Publications

Temperature-Dependent Vesicle Response to Surface Topography. **S. D. Gillmor**, J. J. Heetderks, P. S. Weiss, *J Phys Chem B* **113**, 11490 (2009).

Dimpled Vesicles: The Interplay between Interfaces and Transient Pores. **S. D. Gillmor**, P. S. Weiss, *J Phys Chem B* **112**, 13629 (2008).

Microcontact Insertion Printing, T. J. Mullen, C. Srinivasan, J. N. Hohman, **S. D. Gillmor**, M. J. Shuster, Mark W. Horn, A. M. Andrews and P. S. Weiss, *Applied Physics Letters* **90**, 063114 (2007).

Displaceable Monolayers and Microdisplacement Printing: 1-Adamantanethiol Assembly and Application, T. J. Mullen, J. N. Hohman, A. A. Dameron, J. R. Hampton, **S. D. Gillmor**, and P. S. Weiss, *Materials Matters* **1** (2), 8 (2006). Unrefereed publication.

Enhanced Molecular Patterning via Microdisplacement Printing, A. A. Dameron, J. R. Hampton, **S. D. Gillmor**, J. N. Hohman, and P. S. Weiss, *Journal of Vacuum Science and Technology B* **23**, 2929 (2005).

Microdisplacement Printing, A. A. Dameron, J. R. Hampton, R. K. Smith, T. J. Mullen, **S. D. Gillmor**, and P. S. Weiss, *Nano Letters* **5**, 1834 (2005).

Controlled Deposition of Picoliter Amounts of Fluid Using an Ultrasonically Driven Micropipette, B. J. Larson, **S. D. Gillmor**, and M. G. Lagally *Review of Scientific Instruments* **75**(4), 832-836 (2004).

Computation with DNA on Surfaces, **S. D. Gillmor**, P. Rugheimer, and M. G. Lagally, *Surface Science* **500**, 699 (2002).

Hydrophilic/hydrophobic patterned surfaces as templates for DNA arrays, **S. D. Gillmor**, A. J. Thiel, T. C. Strother, L. M. Smith, and M. G. Lagally, *Langmuir*, **16**, 7223 (2000).

Characterization of chain molecular assemblies in long-chain, layered silver thiolates: A joint infrared spectroscopy and x-ray diffraction study, A.N. Parikh, **S. D. Gillmor**, J. D. Beers, K. M. Beardmore, R. W. Cutts, B. I. Swanson, *Journal of Physical Chemistry B* **103**(15),2850-2861, (1999).

Synergistic Activities

- (1) Member of Biophysical Society
- (2) Member of American Chemical Society
- (3) Microscope training: Analytical & Quantitative Light Microscopy
Marine Biological Laboratory Woods Hole, MA
- (4) Subgroup workshop Biophysical Society Discussions: Probing Membrane Microdomains (Asilomar, California) 2004.
- (5) Directed a Microscopy workshop at GWU, Summer 2008.

Collaborators & Other Affiliations

Collaborators and Co-Editors.

F. Baginski (GWU, Mathematics)	A Vertes (GWU, Chemistry)
Xiaofeng Ren (GWU, Mathematics)	PS Weiss (PSU, Chemistry and Physics)
Houston Miller (GWU, Chemistry)	Rob Donaldson (GWU, Biology)
Angela Voili (Michigan State, Chemistry)	Anastas Popratiloff (GWUMC)
M. Reeves (GWU, Physics)	

Graduate and Postdoctoral Advisors.

Graduate Advisor: MG Lagally (University of Wisconsin-Madison, Material Science and Physics)

Post Doctoral Advisor: PS Weiss (PSU, Chemistry and Physics)

Thesis Advisor and Postgraduate-Scholar Sponsor. Michael Kessler (May 2013 graduation)

Undergraduate Mentoring:

Barun Aryal—undergraduate, May 2010 graduation
Arthur Lee—undergraduate, May 2010 graduation
Phoebe Aron—HS student, May 2009 graduate
Prastast Gandiga—undergraduate, May 2008 graduate
Liang Hwang—undergraduate, May 2008 graduate
Jillian Thomas—undergraduate, May 2008 graduate
Khalid Mohamood—summer student 2007