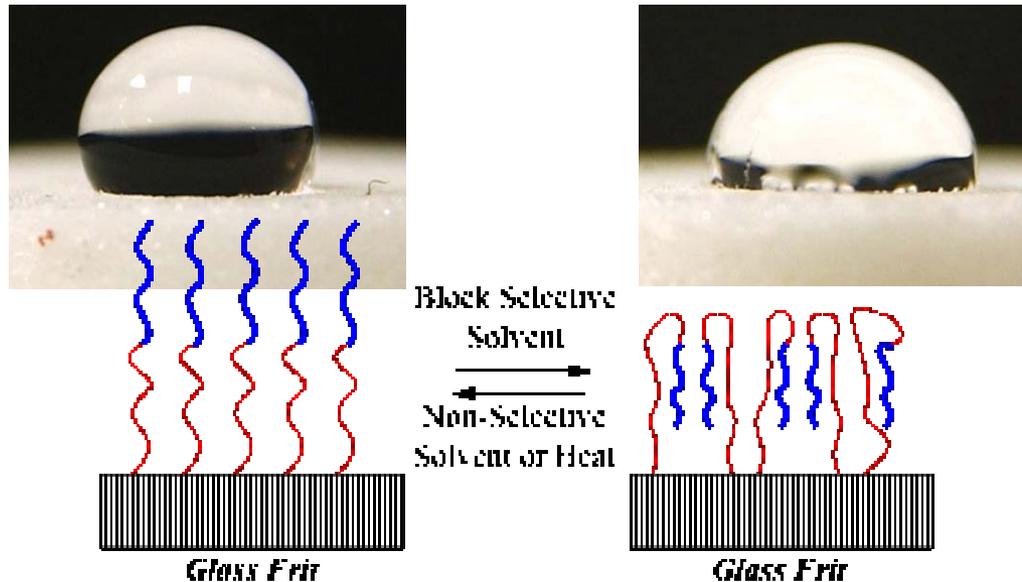
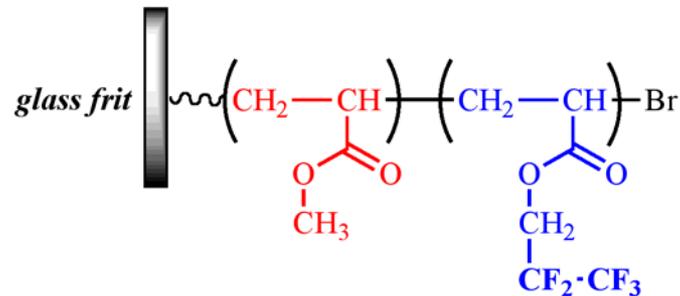


# Synthesis and Nanomorphology of Diblock Copolymer Brushes

*W. J. Brittain*  
*DMR-0072977*

*Program Officer:*  
*Andy Lovinger*



- Porosity can be controlled by rearrangement of diblock brush.
- Rearrangement is induced by block-selective solvent or heat.

*Macromolecular Rapid Commun. 2004, 25.*



# Synthesis and Nanomorphology of Diblock Copolymer Brushes

**Education:** 3 PhDs, 2 undergraduate REU students and 1 postdoctoral research associate

**Publications & Presentations:** 9 publications, 11 conference proceedings, 22 presentations (16 invited)

**Public Outreach:** two external conferences

**Polymer Brushes – From Synthesis to Functional Microstructures:** held at the 2003 National American Chemical Society Meeting, March 23-28, 2003; culminated in a book (supported by DMR-0314307)

**Polymer Design for Biology – Structure and Activity:** to be held at the 2004 Polymer Chemistry Division Biennial, October 3-6, 2004 (supported by DMR-0438128)

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