

Clare Mahoney

Graduate Research Assistant, Department of Materials Science & Engineering, Carnegie Mellon University, Pittsburgh PA 15213. E-mail: clarem@andrew.cmu.edu

Professional Preparation

University of Illinois Urbana Champaign	Bachelor of Science	2009-2011
Carnegie Mellon University	Masters/PhD	2011-present

Appointments

08/2012 – present Graduate Research Assistant, Department of Materials Science and Engineering, Carnegie Mellon University, Pittsburgh, PA 15213

Awards and Honors

2012 Integrative Graduate Education and Research Traineeship (IGERT) fellowship award by National Science Foundation

Membership and Activities in Honorary Fraternities, Professional Societies

1. Sigma Xi, National Honor Society
2. Phi Eta Sigma, National Honor Society
3. Alpha Lambda Delta, National Honor Society
4. Keramos, National Honors Society for Materials Science

Research Interests

Molecular architecture dependence of varying polymer brush systems on thermomechanical properties, the effects of particle surface modification on optical transparency, thermal conductivity, and dispersion quality of particle polymer blends.

Publications

Archival Papers

1. S. Ojha, A. Dang, C. M. Hui, C. Mahoney, K. Matyjaszewski, M. R. Bockstaller "Strategies for the Synthesis of Thermoplastic Polymer Nanocomposite Materials with High Inorganic Filling Fraction" *Langmuir* **29**, (2013)

Conference and Seminar Presentations

1. Clare Mahoney, Chin Ming Hui, Satyajee Ojha, Joanna Pietrasik, Hongchen Dong, Krzysztof Matyjaszewski and Michael R. Bockstaller; "Transparent Polymer Nanocomposites for Thermal Interface Material," Sustainable Nanotechnology Organization, Arlington, VA, November 2012