Curriculum Vitae
Michael W. Toepke

Education

Ph.D. Chemical & Biomolecular Engineering June 2006
University of Illinois, Urbana-Champaign Advisor: Paul J.A. Kenis
Thesis: Microfluidics for biomolecular studies

M.S. Chemical Engineering October 2004
University of Illinois, Urbana-Champaign Advisor: Paul J.A. Kenis
Thesis: Synthesis of pharmaceuticals in microreactors

B.S. Chemical Engineering, with Honors & Distinction May 2001
Iowa State University Advisor: Brent H. Shanks

Research and Employment Experience

Research Assistant November 2001 – June 2006

Undergraduate Research Assistant Fall 1999 - Summer 2001
Department of Chemical Engineering, Iowa State University, Advisor: Brent H. Shanks

Teaching Assistant, ChE 469 (microchemical systems) Spring 2004
Department of Chemical & Biomolecular Engineering, UIUC

Teaching Assistant, ChE 381 (chemical reaction engineering) Spring 2003

Cooperative Education Student Spring 1999, Summer & Fall 2000
Dow Corning Corporation, Midland, Michigan

Honors & Awards

NSF Graduate Research Fellow
2nd place ChBE Graduate Research Symposium oral presentation, Fall 2005
Senior Design Award, Iowa State University Spring 2001
Graduate College, American Electrophoresis Society, & Hanratty Travel Grants

Publications

Brewer, S.H.; **Toepke, M.W.**; Vu, D.M.; Dyer, R.B.; Kenis, P.J.A. Investigating protein dynamics using infrared imaging of microfluidic devices, ***In Preparation***.

Toepke, M.W.; Choi, C.J.; Cunningham, B.T.; Kenis, P.J.A. Combinatorial screening in microfluidics with integrated label-free sensors, ***In Preparation***.

Toepke, M.W.; Brewer, S.H.; Vu, D.M.; Morgan, J.E.; Gennis, R.B.; Kenis, P.J.A.; Dyer, R.B. Microfluidic flow-flash: a new method for Investigating protein dynamics, ***Accepted***.

Toepke, M.W.; Kenis, P. J.A. Multilevel microfluidics via single-exposure photolithography, *J. Am. Chem. Soc.* **2005**, 127, 7674-7675.

Deng, W.; **Toepke, M.W.**; Shanks, B.H. Surfactant-assisted synthesis of alumina with hierarchical nanopores, *Adv. Funct. Mater.* **2003**, 13, 61-65.

Proceedings

Toepke, M.W.; Brewer, S.H.; Vu, D.M.; Morgan, J.E.; Ganesan, K.; Rector, K.D.; Woodruff, W.H.; Gennis, R.B.; Dyer, R.B.; Kenis, P.J.A. Protein kinetics via UV/Vis and FTIR imaging on chip, *Proc. μTAS 2005*, *Vol. 2, 1464-1466.*

Presentations

Toepke, M.W. (speaker); Brewer, S.H.; Vu, D.M.; Morgan, J.E.; Ganesan, K.; Rector, K.D.; Woodruff, W.H.; Gennis, R.B.; Dyer, R.B.; Kenis, P.J.A. Protein kinetics via UV/Vis and FTIR imaging on chip, *AIChE National Meeting*, **Fall 2005**.

Toepke, M.W.; Block, I.D.; Choi, C.J.; Nesterenko, V.; Cunningham, B.T.; Hergenrother, P.J.; Kenis, P.J.A. Microfluidics for combinatorial studies, *AIChE National Meeting*, **Fall 2005**.

Toepke, M.W. (speaker); Kenis, P.J.A. Microfluidics for organic chemistry, *AIChE National Meeting*, **Fall 2004**.

Toepke, M.W., Deng, W.; Shanks, B.H. Macroscale morphology control of mesoporous alumina molecular sieves, *AIChE National Meeting*, **Fall 2001**.