

TAMARA GRICUS KOFKE

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Education

Ph.D., August 1989, Department of Chemical Engineering, University of Pennsylvania, Philadelphia, PA. Thesis: *Adsorption Studies of the Acid Sites in High-Silica Zeolites*.
Advisor: Professor Raymond J. Gorte.

B.S., May 1984 (with University Honors), Department of Chemical Engineering, Carnegie-Mellon University, Pittsburgh, PA.
Majors: Chemical and Biomedical Engineering.

Professional Experience

Teaching Assistant Professor, August 2003 to present;
Department of Chemical and Biological Engineering; University at Buffalo, The State University of New York

Teaches Chemical Engineering laboratory courses at junior and senior level

Senior Research Engineer, June 1991 – August 1994; Research Engineer, June 1989 – June 1991; Occidental Chemical Corporation, Technology Center, Grand Island, New York
Conducted pilot plant studies in the development of new ethane-based processes. Designed lab-scale experiments investigating by-product minimization, catalyst selection, and product separation.

Served on numerous safety and quality control committees.

Research Assistant, Summer 1983;
E.I. DuPont de Nemours & Co., Agrichemicals Division, Experimental Station, Wilmington, DE

Assisted in the development of formulations for fungicides and herbicides.

Research Assistant, Summer 1982;
Shadyside Hospital, Respiratory Therapy Laboratory, Pittsburgh, PA

Developed computer program for the management of the withdrawal of critical care patients from mechanical ventilation.

Honors and Awards

Teacher of the Year Award, Student Chapter, AIChE, University at Buffalo, 2007, 2015, 2017
Research Fellowship, University of Pennsylvania, 1984-1989
AIChE Pittsburgh Chapter Promising Engineer Award, 1984
Mary Louise Brown Graham Scholarship, 1983
R.K. Mellon National Merit Scholarship, 1980-1984
Tau Beta Pi

Refereed Publications

1. T.J.G. Kofke, R.J. Gorte and G.T. Kokotailo, "Determination of Framework Concentrations of Gallium in [GA]-ZSM-5", *Applied Catalysis*, **54** (2), 177-188 (1989).
2. T.J.G. Kofke, R.J. Gorte and G.T. Kokotailo, "Stoichiometric Adsorption Complexes in [B]-ZSM-5 and [Fe]-ZSM-5", *Journal of Catalysis*, **116** (1) 252-262 (1989).
3. T.J.G. Kofke and R.J. Gorte, "A Temperature-Programmed Desorption Study of Olefin Oligomerization in H-ZSM-5", *Journal of Catalysis*, **115** (1) 233-243 (1989).
4. T.J.G. Kofke, R.J. Gorte, G.T. Kokotailo, and W.E. Farneth, "Stoichiometric Adsorption Complexes in H-ZSM-5, H-ZSM-12, and H-Mordenite Zeolites", *Journal of Catalysis*, **115** (1), 265-272 (1989).
5. T.J.G. Kofke, R.J. Gorte, and W.E. Farneth, "Stoichiometric Adsorption Complexes in H-ZSM-5", *Journal of Catalysis*, **114** (1) 34-45 (1988).
6. W.E. Farneth, D.C. Roe, T.J.G. Kofke, C.J. Tabak, R.J. Gorte, "Proton-Transfer to Toluene in H-ZSM-5: TPD, IR, and NMR Studies", *Langmuir*, **4** (1) 152-158 (1988).
7. T.J. Gricus and M.M. Domach, "Feasible and Optimal Retrofitting of Batch-Soluble to Continuous Immobilized Enzyme Processes Applied to Adsorbed Enzymes", *Biotechnology and Bioengineering*, **27**, 1458-1465 (1985).

Presentations

1. "Adsorption Studies of the Acid-Sites in High Silica Zeolites", Mobil Oil Corporation, Paulsboro, NJ; June 1989.
2. "The Characterization of Hydrocarbon Intermediates in H-ZSM-5", MRS Annual Meeting, Boston, MA; December 1987 (with R.J. Gorte and W.E. Farneth).
3. "Studies of Intermediates in H-ZSM-5", AIChE Annual Meeting, New York, NY; November 1987 (with R.J. Gorte, M.T. Aronson, W.E. Farneth, and D. White).

Service

Member of Chemical and Biological Engineering Undergraduate Committee, September 2008-present
New Laboratory Course Development, April-September 2008
Department of Biomedical Engineering; University at Buffalo, The State University of New York.
