

RAHUL DHOPESHWARKAR

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- Education** Ph.D. in Chemical Engineering (current GPA: 3.55) **(expected 12/2006)**
Texas A & M University, College Station, TX
Preconcentration of DNA in Microfluidic Channels
Advisor: Dr. Richard M. Crooks
- Graduate studies in Chemical Engineering (GPA: 3.67) (8/2001 - 12/2001)
Illinois Institute of Technology, Chicago, IL
- B.E. in Chemical Engineering: First Class with Distinction (May 2000)
Shivaji University, Kolhapur, INDIA
Continuous Ethanol Production by Fermentation of Waste Banana Peels using Flocculating Yeast
Advisor: Dr. S. S. Joshi
- Professional Appointments** Graduate Research Assistant, Dept. of Chemistry, Texas A&M University. (Nov 2003 – present)
- Instructor for CHEN-464: Chemical Engineering Kinetics, Texas A&M University. (Summer 2003)
- Graduate Research/Teaching Assistant, Dept. of Chemical Engineering, Texas A&M University. (Sept 2002 – Oct 2003)
- Awards and Scholarships** Chevron II Professorship, Dept. of Chemical Engineering, Texas A&M University, Fall 2003.
- Paul Siecke Scholarship, Dept. of Chemical Engineering, Texas A&M University, Summer 2003.
- Chemical Engineering Graduate Scholarship, Texas A&M University, Spring & Summer 2002.
- Graduate Dean's Half-Tuition Scholarship, Illinois Institute of Technology, Chicago for the year 2001-2002.
- Best Paper award at ChEMIT-2000, M.I.T., Pune, March 2000.
- Best Paper award at TECHNOMILLENIUUM-2000, M.I.T., Aurangabad, February 2000.
- Manuscripts** R. Dhopeshwarkar, L. Sun, R. M. Crooks "Electrokinetic Concentration Enrichment within a Microfluidic Device using a Hydrogel Microplug" *LabChip*, **2005**, 5, 1148-1154.
- S. S. Joshi, R. Dhopeshwarkar, U. Jadhav, R. Jadhav, L. D'souza, J. Dixit "Continuous Ethanol Production by Fermentation of Waste Banana Peels using Flocculating Yeast" *Indian Journal of Chemical Technology*, **2001**, 8, 153-156.
- Patent Applications** R. M. Crooks; J. Dai; R. Dhopeshwarkar; T. Ito; L. Sun "System and Method for Electrokinetic Trapping and Concentration Enrichment of Analytes in a Microfluidic Channel". Provisional patent: 12 August, 2003; Conversion filed 11 August, **2004**.
- Presentations** Gordon Research Conference on Analytical Chemistry (Roscoff, France, June **2005**)
"Electrokinetic Concentration Using a Hydrogel-based Transport Modulator in a Microfluidic Device" (Poster Presentation)

Gordon Research Seminar on Analytical Chemistry (Roscoff, France, June **2005**)
"Electrokinetic Concentration Using a Hydrogel-based Transport Modulator in a Microfluidic Device"

Texas Microfluidics Minisymposium (College Station, TX, April **2005**) "Electrokinetic Concentration Enrichment using Hydrogel Plug in a Microfluidic Device"

LabAutomation (San Jose, CA, February **2005**) "Preconcentration of DNA Using Hydrogel-based Transport Modulator" (Poster Presentation)

CHEMSPLASH-2000, Indian Institute of Technology (Bombay, India, March **2000**). R. Dhopeshwarkar, U. Jadhav. "Continuous Ethanol Production by Fermentation of Waste Banana Peels using Flocculating Yeast" (Poster Presentation)

ChEMIT-2000, Maharashtra Institute of Technology (Pune, India, March **2000**). R. Dhopeshwarkar, U. Jadhav. "Continuous Ethanol Production by Fermentation of Waste Banana Peels using Flocculating Yeast"

TECHNOMILLENIUM-2000, Marathwada Institute of Technology (Aurangabad, India, February **2000**). R. Dhopeshwarkar, U. Jadhav. "Continuous Ethanol Production by Fermentation of Waste Banana Peels using Flocculating Yeast"

Extracurricular Activities *Graduate Student Representative* for the Advisory Council Meeting for the Department of Chemical Engineering, Texas A&M University, April 2003.

Participation in EUREKA-2000, a National Technical Exhibition T.K.I.E.T., Warananagar, India, April 2000.

Organiser of EUREKA-1999, Chemical Engineering Symposium, T.K.I.E.T., Warananagar, India, April 1999.

Participation in VISIOCHEM-2000, State Level Technical Quiz, T.K.I.E.T., Warananagar, India, March 2000.

References Available upon request.