

Anuj Chauhan

Professional Preparation

B. Tech.	Indian Institute of Technology Delhi, India	Chemical Engineering	1993
Ph.D.	Levich Institute The City University of New York New York, NY	Chemical Engineering	1998
Post Doc	University of California Berkeley, CA	Chemical Engineering (Contact Lens Dynamics)	2000

Appointments

Assistant Professor, Department of Chemical Engineering, University of Florida	1/01-8/06
Assistant Professor (Adjunct), Department of Ophthalmology, University of Florida	9/04-present
Associate Professor, Department of Chemical Engineering, University of Florida	8/06-present

Selected Publications

- Kapoor, Y, Chauhan, A, "Ophthalmic delivery of Cyclosporine A from Brij-97 microemulsion and surfactant-laden p-HEMA hydrogels", International Journal of Pharmaceutics, 2008, 361(1-2):222-229.
- Kapoor, Y, Chauhan, A, "Drug and Surfactant transport in Cyclosporine A and Brij 98 laden p-HEMA hydrogels", Journal of Colloid and Interface Science, 2008, 322, 624-633.
- Kim, J, Chauhan, A, "Extended delivery of ophthalmic drugs by silicone hydrogel contact lenses", Biomaterials, 29, 2008, 2259-2269
- Kim, J, Chauhan, A, "Dexamethasone transport and ocular delivery from poly(hydroxyethyl methacrylate) gels", International Journal of Pharmaceutics, 353, 2008, 205-222
- Li, Chi-Chung, Abrahamson, Michael, Kapoor, Y, Chauhan, A, "Timolol transport from microemulsions trapped in HEMA gels", Journal of Colloid and Interface Science, 315, 2007, 297-306.
- Kim, J, Chauhan, A, "Dexamethasone transport and ocular delivery from poly(hydroxyethyl methacrylate) gels", International Journal of Pharmaceutics, 353, 2008, 205-222
- Howell, B, Chauhan, A, "Amitriptyline overdose treatment by pegylated anionic liposomes", Journal of Colloid and Interface Science, 2008, 324, 61-70
- Howell, B, Chauhan, A, "Uptake of amitriptyline and nortriptyline with liposomes, proteins, and serum: Implications for drug detoxification", Journal of Colloid and Interface Science, 319, 2008, 81-93.
- Fallon, M, Chauhan A, Sequestration of amitriptyline by liposomes, Journal of Colloid and Interface Science, 300 (1), 2006, 7-19.
- Fallon, M, Chauhan, A, "Dispersion in core-annular flow with a solid annulus", AIChE, 51 (9), 2005, 2415-2427
- Fallon, M, Varshney, M, Dennis, MD, Chauhan, A, "A Physiologically-Based Pharmacokinetic Model of Drug Detoxification by Nanoparticles", Journal of Pharmacokinetics and Pharmacodynamics, 31 (5), October 2004, 381-400

Synergistic Activities

- Developed a freshman design course, "Design and Fabrication of a Potable Water Purification Plant" in collaboration with Professor David Mazzyck (Environmental Engineering) for increasing retention and minority participation.
- Organized symposiums at ACS annual ACS conferences in 2003 and 2006.
- Chaired session on Transport at Interfaces from 2003-2006, sessions on Nanoparticle Synthesis and Stabilization from 2005-2006, sessions on Interfacial Instabilities in 2004, sessions on Bio and Complex fluid dynamics in 2006 in the annual AIChE conferences.

Collaborators

- Professor Jianhua Wang at the Bascom Palmer Eye Institute
- Professors Dinesh Shah and Dmitry Kopelevich, Chemical Engineering, University of Florida
- Professors. Donn Dennis and Dr. Tim Morey, Anesthesiology, University of Florida
- Professor. Subir Bhatia, Ophthalmology, University of Florida
- Professor Anubhav Tripathi, Division of Engineering,
- Dr. Srinivas Prasad, Optometry, University of Indiana at Bloomington

Graduate Advisors

- Professor Charles Maldarelli, Levich Institute and The City College of New York
- Professor David Rumschitzki, Levich Institute and The City College of New York

Post Doctoral Sponsor

- Professor Clayton J. Radke, Chemical Engineering, University of California at Berkeley

Current Graduate Students

- Yash Kapoor, Chavvi Gupta, Brett Howell, Chen Chun Peng, Hyun Jung Jung, Milorad Djomlija (with Professor Kerry Johansson), Ashish Gupta (with Professor Dmitry Kopelevich)

Recent Graduates

- Zhi Chen (working in ALCOA, China), Marissa Fallon (working in Merck, PA), Derya Gulsen (working in Dupont, Richmond), Ch-Chung Li (working in Merck, PA), Heng Zhu (working in Praxair, NY)

Current undergraduate students

- Dane Cohen, Michelle Abou-Joude, Jenna Leclerc, Mounq Win

Recent Presentations

- “Ophthalmic Drug delivery”, Invited Talk, Chemical Engineering, Purdue University, May 2008.
- “Tear Dynamics and Ophthalmic Drug Delivery”, Invited Talk, School of Optometry, Indiana University, Bloomington, October 2007
- “Human Tear Dynamics”, Invited Talk, Bascom Palmer Eye Institute, University of Miami, Miami, September 2007
- “Ophthalmic Drug Delivery”, Biomedical Engineering, City College of New York, New York, September 2007
- Kim, J, Chauhan, A, “Extended delivery of bioactive compounds by silicone hydrogels’, Spring meeting of the ACS, New Orleans, May 2008
- Kim, J, Chauhan, A, “Dexamethasone transport in PHEMA hydrogels’, Spring meeting of the ACS, New Orleans, May 2008
- Howell, B, Chauhan, A, “Drug overdose treatment by liposomes’, Spring meeting of the ACS, New Orleans, May 2008
- Kapoor, Y, Chauhan, A, “Ophthalmic drug delivery by surfactant laden contact lenses’, Spring meeting of the ACS, New Orleans, May 2008

SELECTED RESEARCH REPORTS IN POPULAR PRESS

- Medical Breakthroughs 2004, annual publication of Readers Digest; Discover, July 2003; Business Week, April 28, 2003; Evening News WRTV (ABC) March 26 5:00PM; The San Diego Union-Tribune March 24, 2003, Monday BYLINE: Reuters; WLOS-ABC, MAR 25, 6:00AM CT, NEWS 13 THIS MORNING; HLN-CNN NATIONAL, March 24, 3:00PM CT, Headline News; WAFB-CBS (Baton Rouge, La.), March 24, 5:00PM CT, 9 NEWS AT FIVE; KFOX-FOX (El Paso, Texas), March 24, 9:00PM MT, KFOX NEWS @ 9; HLN-CNN (National), March 24, 5:00AM CT, Headline News; Chicago Tribune, March 24, Daily Mail (London), March 24 (p. 23), Orlando Sentinel (Florida), March 24, USA Today, Daily Mail (London), March 24, New York Post (Reuters)