2026 InterPore Elections CV - Abriola

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Education and Professional Career

1976	B.S. Civil Engineering, Drexel University, Philadelphia, PA, USA
1979	M.S. Civil Engineering, Princeton University, Princeton, NJ, USA
1983	PhD Civil Engineering, Princeton University, Princeton, NJ, USA
1976-78	Project Engineer, Procter and Gamble, Staten Island, NY, USA
1984-2004	Asst/Assoc/Full Professor, University of Michigan, Ann Arbor, MI, USA
1991	Visiting Assoc Professor, Depart of Petroleum Eng, UT Austin, USA
1992	Visiting Scientist, Universitat Politecnica de Cataluña, Barcelona, Spain
1996-2001	Director, Envir. and Water Res. Program, Univ of MI, Ann Arbor, MI, USA
2003-20	Professor, Civil and Environ Eng, Tufts Unversity, Medford, MA, USA
2003-15	Dean of Engineering, Tufts University, Medford, MA, USA
2016-20	Director, Tufts Institute of the Environment, Tufts University, Medford, MA, USA
2021-	Professor, School of Engineering, Brown University, Providence, RI, USA

Commitment, Appointments and Scientific Volunteer Jobs (Selected)

1990-92	Board of Directors, Association of Environmental Engineering Professors
1990-96	US Env Protection Agency Science Advisory Board, Env Eng Committee
1991-94	US National Research Council, Committee on Groundwater Clean-up Alternatives
1992-94	Secretary, American Geophysical Union, Hydrology Division
1994-97	US National Research Council, Water Science and Technology Board
2000-02	Deputy Editor, Water Resources Research
2000-02	US Dept of Energy NABIR Advisory Comm
2002-05	US National Research Council, Comm on Source Removal of Contaminants
2002-06	American Geophysical Union, Member, Union Fellows Committee (Chair 2005-2006)
2007-09	National Academy of Engineering NAE Awards Committee (Chair, 2008)
2007-13	National Academy of Engineering, NAE Council (NAE governing board)
2009-11	American Society for Eng. Education, Eng. Deans Council Executive Board
2010-15	National Academies, Committee on Science, Engineering, and Public Policy
2010-13	US National Science Foundation, Engineering Directorate Advisory Comm
2016-20	Board of Trustees, Bigelow Laboratory for Ocean Sciences, East Boothbay, ME
2017-20	Elected Member, InterPore Council
2018-25	Board of Directors, Stockholm Environment Institute
2023-26	US National Academy of Engineering, Committee on Membership

Professional Awards, Offers and Recognitions (Selected) (in addition to >25 keynote lectures)

1985	National Science Foundation Presidential Young Investigator Award
1991	Republic Bank Corp Centennial Professorship in Petroleum Engineering, UT Austin
1996	Distinguished Darcy Lecturer, National Groundwater Association
2000	Fellow, American Geophysical Union
2001	Horace Williams King Collegiate Professorship, Univ of Michigan, Ann Arbor, MI
2002	ISI Highly Cited Author in Ecology/Environment
2003	Elected to the US National Academy of Engineering
2006	Elected to the US American Academy of Arts and Sciences
2008	CESEP Distinguished Lecture, Colorado School of Mines
2010	Listed in Encyclopedia of “American Women of Science Since 1900”
2010	Charles & Mary O' Melia Lecture in Environ Sciences, Johns Hopkins University

2011	Annual Distinguished Ryckman Lecture, Washington University
2006, 2012	SERDP Environmental Restoration Project of the Year Award
2013	Engineer of the Year Award, Drexel University
2014	CEE Annual Distinguished Lecture Series at Northwestern University
2015	Chemical Engineering Distinguished Lecture Series, University of Utah
2015	Named University Professor, Tufts University
2016	Cullen College Elizabeth Rockwell Distinguished Lecture, University of Houston
2016-17	U.S. Science Envoy
2022	Prince Sultan Bin Abdulaziz International Water Prize for Ground Water
2022	Fellow, American Association for the Advancement of Science
2025	Leaders in Discovery, Distinguished Lecture, University of Iowa
2026	InterPore Time Capsule Award

Most important Publications (Google Scholar: h-index=62; i10 = 148)

[1] Abriola, L.M. and G.F. Pinder. A Multiphase Approach to the Modeling of Porous Media Contamination by Organic Compounds - Part I: Equation Development. *Water Resour. Res.,* 21(1):1-18, 1985.

[2] Powers, SE, L.M. Abriola, and W.J. Weber, Jr. An Experimental Investigation of NAPL Dissolution in Saturated Subsurface Systems: Steady-State Mass Transfer Rates. *Water Resour. Res.*, 28(10): 2691-2705, 1992.

[3] Chen, Y-M., L. M. Abriola, P. J. Alvarez, P. J. Anid, and T.M. Vogel. Modeling transport and biodegradation of benzene and toluene in sandy aquifer material: Comparisons with experimental measurements. Water Resources Research, 28 (7), 1833-1847, 1992.

[4] Abriola, L. M., T. J. Dekker, and K. D. Pennell. Surfactant Enhanced Solubilization of Residual Dodecane in Soil Columns: 2. Mathematical Modeling, *Environ Sci & Technol*, 27(12):2341-2351, 1993.

[5] Pennell, K. D., G. A. Pope, and L. M. Abriola. Influence of viscous and buoyancy forces on the mobilization of residual tetrachloroethylene during surfactant flushing. Environmental Science and Technology, 30(4), 1328-1335, 1996.

[6] Christ, J. A., C. A. Ramsburg, K. D. Pennell, and L. M. Abriola. Estimating mass discharge from dense nonaqueous phase liquid source zones using upscaled mass transfer coefficients: An evaluation using multiphase numerical simulations. Water Resources Research, 42, W11420, doi:10.1029/2006WR004886, 2006.

[7] Li, Y., Y. Wang, K. D. Pennell, and L. M. Abriola. Investigation of the transport and deposition of fullerene (C60) nanoparticles in quartz sands under varying flow conditions. *Environ. Sci. Technol*, 10.1021/es801305y, 2008.

[8] Becker, M. D., Y. Wang, K. D. Pennell, and L. M. Abriola. A multi-constituent site blocking model for nanoparticle and stabilizing agent transport in porous media. *Environ. Sci.: Nano*, DOI:10.1039/C4EN00176A, 2015.

[9] Arshadi, M., U. Garza-Rubalcava, A. Guedes, N. Capiro, K. D. Pennell, J. Christ, and L. M. Abriola. Modeling 1-D Aqueous Film Forming Foam Transport Through the Vadose Zone Under Realistic Site and Release Conditions, Sci of the Total Environ, 919, 170566, https://doi.org/10.1016/j.scitotenv.2024.170566 , 2024.

[10] Garza-Rubalcava, U., C. Klevan, K. D. Pennell, and L. M. Abriola. Transport and competitive interfacial adsorption of PFOA and PFOS in unsaturated porous media: experiments and modeling, Water Research: 268, 122728. https://doi.org/10.1016/j.watres.2024.122728, 2025.