

Avery H. Demond
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Biographical Sketch

Prof. Avery Demond is an Associate Professor in the Department of Civil and Environmental Engineering, where she is currently director of Environmental and Water Resources Engineering (EWRE). She holds a B.A. in Biology from Williams College, B.S. and M.S. degrees in Civil Engineering from MIT, and a Ph.D. in Environmental Engineering from Stanford. Prior to her appointment at University of Michigan, she was on the faculty at the University of Massachusetts (Amherst). Prof. Demond's research focuses on multiphase flow in porous media, with specific applications to the rehabilitation of contaminated industrial properties. Research projects include the University of Michigan Dioxin Exposure Study (UMDES), a widely publicized study (featured on National Public Radio) examining avenues of exposure of the human population to historic contamination in the Midland, Michigan area. She has served on a number of National Research Council boards and committees, including the Board on Engineering Education and the Committee for the Review of the DOE Environmental Restoration Priority System. In addition, she served as a coordinator of DOE's Subsurface Science Program's Multiphase Fluid Flow Subprogram for five years and as an Associate Editor of *Environmental Engineering Science* for three years. She is a professional engineer, licensed in the State of Michigan, and also maintains Hazardous Waste Operations and Emergency Response certification.

Within the Department of Civil and Environmental Engineering, Prof. Demond has held many positions, including: Undergraduate Program Chair, Graduate Program Chair (Interim), Chair of the Curriculum Committee, Chair of the Assessment Committee and member of the Executive Committee. As the Undergraduate Program Chair during the implementation of Curriculum 2000, she oversaw a complete restructuring of the undergraduate curriculum, an accomplishment recognized by the department with its Award for Outstanding Service in 2000. As the current chair of the Assessment Committee, she is working on ABET accreditation for the new BSE degree in environmental engineering. In the College, Prof. Demond is the director of Michigan Engineering Transfer Support (METS), creating programs to ease the transition for transfer students entering the College, and is also a member of the Internal Review Committee for the Department of Atmospheric, Oceanic and Space Sciences (AOSS). At the University level, she held an appointment in Undergraduate Admissions during the period when the undergraduate admissions procedure was revamped, following the Supreme Court decision against affirmative action. Currently, Prof. Demond serves on the Academic Affairs Advisory Committee of the Senate Assembly. Her service to the University community has been recognized with a variety of awards including the Sarah Goddard Power Award, the Raymond J. and Monica E. Schultz Outreach and Diversity Award, the Harold R. Johnson Diversity Service Award and a Rackham Mentoring Award. During her tenure at Michigan, she has developed three courses, one at the advanced graduate level and two at the undergraduate level. She currently teaches Fluid Mechanics (undergraduate) and Groundwater Hydrology (senior/graduate).