

BIOGRAPHICAL SKETCH

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NAME: Ormsbee, Lindell

eRA COMMONS USER NAME (credential, e.g., agency login): LINDELL.ORMSBEE

POSITION TITLE: Raymond-Blythe Professor of Civil Engineering

EDUCATION/TRAINING (*Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable. Add/delete rows as necessary.*)

INSTITUTION AND LOCATION	DEGREE (if applicable)	Completion Date MM/YYYY	FIELD OF STUDY
University of Kentucky	BSCE	08/1978	Civil Engineering
Virginia Tech	MSCE	08/1979	Civil Engineering
Purdue University	PhD	08/1983	Civil Engineering

Positions and Employment

1979-1981 Project Engineer, Howard K. Bell Consulting Engineers
1983-1989 Assistant Professor of Civil Engineering, University of Kentucky, Lexington, KY
1989-1996 Associate Professor of Civil Engineering, University of Kentucky, Lexington, KY
1995-1996 Associate Director, Kentucky Water Resources Research Institute
1996-2003 Full Professor of Civil Engineering, University of Kentucky, Lexington, KY
1997-1998 Visiting Researcher - Kentucky Environmental Protection Agency
1998-1999 Acting Director, Kentucky Water Resources Research Institute
1999-2001 Associate Director, Kentucky Water Resources Research Institute
2001-2002 Director, Tracy Farmer Center for the Environment
1999-2004 Kentucky River Basin Coordinator
2003-2009 Director, Kentucky Research Consortium for Energy and the Environment
2005-2020 Director, Research Translation Core, UK SRC, University of Kentucky, Lexington, KY
2010-2020 Associate Director, UK Superfund Research Center, University of Kentucky, KY
2010-2020 Director, Kentucky Center of Excellence for Watershed Management
2018-2021 Executive Director, Tracy Farmer Institute for Sustainability and the Environment
2004-2022 Director, Kentucky Water Resources Research Institute
2003-Present Raymond Blythe Endowed Professor of Civil Engineering

Synergistic Activities

1983-2000 Co-Developer of KYPIPE software for water distribution modeling
1997-1998 President, Kentucky Section of ASCE
2002-2003 Chair, Nuclear Subcommittee of the Governor's Energy Policy Advisory Board
2004-2005 Member, Governor's Task Force on Blackwater Issues
2004-2007 Chair, Kentucky Environmental Quality Commission
2005-2006 Chair ASCE, EWRI Emerging and Innovative Technologies Council
2005-2006 Vice President, American Institute of Hydrology

Professional Certification

Professional Engineer, State of Kentucky, #21484
Professional Hydrologist, American Institute of Hydrology, #1552
Diplomate, American Academy of Water Resource Engineers, #172

Honors and Awards

2005	Diplomate Member: American Academy of Water Resource Engineers
2008	KY ASCE Robert Gilliam Award for Outstanding Service to the Civil Engineering Profession
2008	Fellow of the American Society of Civil Engineers
2010	ASCE EWRI Service to the Profession Award
2012	KY ASCE Outstanding Educator
2014	Virginia Tech Civil Engineering Academy of Distinguished Alumni
2014	Fellow of the Environmental and Water Resources Institute
2014	Outstanding Senior Research Faculty, UK College of Engineering
2016	ASCE Julian Hinds Award (top ASCE award in the field of water resources)
2022	Outstanding Senior Service Faculty, UK College of Engineering
2022	Bill Barfield Award for Outstanding Contributions in Water Resources Research

Recent Publications: Google Scholar Citations (4346, h-index 33; i10-index 73)

- Sharma, A., Dongre, S., Gupta, R., and Ormsbee, L. (2022), "Multiphase Procedure for District Metered Areas Identification in Water Distribution Networks Using Community Detection, NSGA-III Optimization and Multiple Attribute Decision Making, *ASCE Journal of Water Resources Planning and Management*, [doi.org/10.1061/\(ASCE\)WR.1943-5452.0001586](https://doi.org/10.1061/(ASCE)WR.1943-5452.0001586)
- Lingireddy, S., Ormsbee, L., and Kamojjala, S., (2022) "How Slow is Slow? Managing fire hydrant operation for protecting water infrastructure," *AWWA Water Science*. doi.org/10.1002/aws2.1290
- Francisco, L., Vogler, R., Sandman, P., Harris, N., Ormsbee, L., Liu, C., Bhattacharyya, D. (2022) "Dual-Functional Nanofiltration and Adsorptive Membranes for PFAS and Organics Separation from Water", *American Chemical Society Journal*, 2(5), 863-872, doi.org/10.1021/acsestwater.2c00043.
- Ormsbee, L., Hoagland, S., Hernandez, E., Hall, A., Ostfeld, A. (2022). "Hydraulic Model Database for Applied Water Distribution Systems Research, *ASCE Journal of Water Resources Planning and Management*, [doi.org/10.1061/\(ASCE\)WR.1943-5452.0001559](https://doi.org/10.1061/(ASCE)WR.1943-5452.0001559)
- Hernandez, E., and Ormsbee, L., (2022) "A Heuristic for Strategic Valve Placement", *ASCE Journal of Water Resources Planning and Management*, 148(2) [doi.org/10.1061/\(ASCE\)WR.1943-5452.0001497](https://doi.org/10.1061/(ASCE)WR.1943-5452.0001497).
- Hernandez, E., and Ormsbee, L., (2021) "Segment Based Assessment of the Consequences of Failure on Water Distribution Systems, *ASCE Journal of Water Resources Planning and Management*, 147(4), [doi.org/10.1061/\(ASCE\)WR.1943-5452.0001340](https://doi.org/10.1061/(ASCE)WR.1943-5452.0001340).
- Hernandez, E., and Ormsbee, L., (2021) "Segment Identification Procedure for Water Distribution Systems, *ASCE Journal of Water Resources Planning and Management*, 147(5) [doi.org/10.1061/\(ASCE\)WR.1943-5452.0001363](https://doi.org/10.1061/(ASCE)WR.1943-5452.0001363).
- Walski, T., Grayman, W., Ormsbee, L., (2020) "Water Distribution System Modeling: Past and Present," *Journal. AWWA*, doi.org/10.1002/awwa.1572
- Ormsbee, L., Hoagland, S., Peterson, K., (2020) "Limitations of TR-55 Curve Numbers for Urban Development Applications: Critical Review and Potential Strategies for Moving Forward, ' *ASCE Journal of Hydrologic Engineering*," [https://doi.org/10.1061/\(ASCE\)HE.1943-5584.0001885](https://doi.org/10.1061/(ASCE)HE.1943-5584.0001885).
- Saad A, Mills R, Wan H, Ormsbee LE, Bhattacharyya D. (2020). Thermo-responsive PNIPAm-PMMA functionalized PVDF membranes with reactive Fe-Pd nanoparticles for PCB degradation. *Ind Eng Chem Res* 59(38):16614-16625. [doi:10.1021/acs.iecr.0c03260](https://doi.org/10.1021/acs.iecr.0c03260).
- Wan H, Islam MS, Qian D, Ormsbee LE, Bhattacharyya D. (2020). Reductive degradation of CCl4 by sulfidized Fe and Pd-Fe nanoparticles: Kinetics, longevity, and morphology aspects. *Chemical Engineering Journal*. 394:125013, doi.org/10.1016/j.cej.2020.125013 NIHMSID: 158320711.
- Aher A, Nickerson T, Jordan C, Thorpe F, Hatakeyama E, Ormsbee LE, Majumder M, Bhattacharyya D. (2020) Ion and organic transport in graphene oxide membranes: Model development to difficult water remediation applications. *J. Mem. Sci.* 2020 604:118024. [doi:10.1016/j.memsci.2020.118024](https://doi.org/10.1016/j.memsci.2020.118024)

Patents Pending

- Title: DEVICES AND METHODS FOR REMOVING PERFLUORINATED COMPOUNDS FROM CONTAMINATED WATER U.S. Utility Patent Application No. 16/885,369 Year: 202, 0 Patent status: Utility patent application filed, May 28, 2020; Author (or assignee): Bhattacharyya, Saad, Mills, Mottaleb, Ormsbee