

H. David Stensel

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Professional Preparation

Union college	Civil Engineering	B.S.	1967
Cornell University	Environmental Engineering	M.E.	1968
Cornell University	Environmental Engineering	Ph.D.	1971

H. David Stensel is Professor of Civil and Environmental Engineering at the University of Washington, Seattle, WA. Prior to his academic positions, he spent 10 years in practice developing and applying industrial and municipal wastewater treatment processes. His principal research interests are in the areas of wastewater treatment, biological nutrient removal, sludge processing methods, resource recovery in wastewater, and water reuse. He has authored or coauthored over 120 technical publications and textbooks on biological nutrient removal and the recent M&E Wastewater Engineering textbook. Dr. H. David Stensel was responsible for the design, start up and operation of the first biological nitrogen and phosphorus removal plant in North America at Palmetto, Florida. Since then he has worked on over 50 full-scale plant designs or process evaluations and given numerous workshops and seminar for the EPA, Water Environment Federation, International Water Association, and other organizations on biological phosphorus and nitrogen removal. He is presently a co-investigator in the Water Environment Research Foundation Nutrient Challenge program.

Awards

Water Environment Federation, Harrison Prescott Eddy Research Medal twice, 1987, 1999
American Society of Civil Engineers Environmental Engineering Division Rudolf Hering Medal, 1997,
Water Environment Federation, Bradley Gascoigne Medal, 2006

Selected Publications:

Gaulke, L. S., S. E. Strand, T. F. Kalhorn, and H. D. Stensel (2008) 17 α -ethinylestradiol Transformation via Abiotic Nitration in the Presence of Ammonia Oxidizing Bacteria, *Environmental Science and Technology*, Vol. 42, No. 20, pp 7622-7627.

Gaulke, L. S., J. L. Borgford-Parnell and H. D. Stensel (2008) A decentralized and onsite wastewater management course: bringing together global concerns and practical pedagogy, *Water Science & Technology*, Vol. 58, No. 7, p1397-1404.

Gall D. L., H. L. Gough, R. H. Bucher, J. F. Ferguson, and H. D. Stensel (2008) Anaerobic Co-Digestion of Municipal Sludge and Biodiesel Fuel Production By-Products. *Proceedings of the 81st Annual Water Environment Federation Technical Exhibition and Conference*, October, 22, 2008. Chicago, Ill

Gu, A, A. Saunders, J.B. Neethling, H. D. Stensel, and L. Blackall (2008) Functionally relevant microorganisms to enhanced biological phosphorus removal performance at full-scale wastewater treatment plants in the US. *Water Environment Research*, Vol. 80, No. 5, pp 688-699.

Gang X., H. L. Gough, and H. D. Stensel (2008). Effect of anoxic selector configuration on SVI control and bacterial population fingerprinting, *Water Environment Research*. December 2008

Straub, A.J., A.S.Q. Conklin, J.F. Ferguson, and H.D. Stensel (2006) Use of the ADM1 to investigate the effects of acetoclastic methanogen population dynamics on mesophilic digester stability, *Water Science & Technology*, Vol. 54, No. 4, p59

Choo, K-H. and Stensel, H.D. (2000). Sequencing batch membrane reactor treatment: nitrogen removal and membrane fouling control. *Water Environment Research Journal*.

Gu, A.Z, I. Takács, M. Benisch, H.D. Stensel, and J.B. Neethling, The importance of modeling metal uptake and release in EBPR processes, *Proceedings of the 78th Annual Water Environment Federation Annual Conference & Exposition; Wastewater Treatment Research*,. Washington DC November, 2005

Johannessen, E, R.W. Samstag, and H.D. Stensel (2006) Effect of Process Configurations and Alum Addition on Enhance Biological Phosphorus Removal in Membrane BioreactorS, *Proceedings of the 79th Annual Water Environment Federation Annual Conference & Exposition; Wastewater Treatment Research*,. Dallas, TX October, 2006

Selected Books.

Tchobanoglous, G., Burton, F.T, and Stensel, H.D., (2003) Wastewater Engineering, Treatment, Disposal, and Reuse, Metcalf & Eddy, McGraw Hill, New York

Research Reports

Protocols for Activated Sludge Modeling. Water Environment Research Foundation, February, 2003, Project report (with Henryk Melcer and Peter Dold)

Professional Society Membership

American Society of Civil Engineers, since 1973

Water Environment Federation, since 1967

American Water Works Association, since 1984

American Association of Environmental Engineering Professors, since 1980

International Association of Water Quality, since 1984

American Academy of Environmental Engineers - Diplomate, since 1989