

PAUL J. STURMAN, Ph.D., P.E.

Industrial Coordinator/ Research Professor, Center for Biofilm Engineering
Montana State University, Bozeman, MT, 59717
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HIGHEST DEGREE:

Ph.D. Environmental Engineering, Montana State University, 2004

PROFESSIONAL REGISTRATION:

Registered Professional Engineer, Montana, #10536PE

PROFESSIONAL EXPERIENCE:

Industrial Coordinator/Research Professor, Center for Biofilm Engineering, Bozeman, MT, 2000-
Research Engineer, Center for Biofilm Engineering, Bozeman, MT, 1995-1999
Environmental Engineer, Matney-Frantz Engineering, Bozeman, MT, 1990-1995

AREAS OF EXPERTISE:

Technical:

- Biofilm assessment and control in industrial and potable water systems
- Development of testing protocols for assessing the efficacy antimicrobial products and surfaces
- Engineered systems for microbial process control
- Control of microbial souring of oil in pipelines and subsurface formations
- Biodegradation of organic chemicals in soil and groundwater

Technology Transfer:

- Communication of biotechnology research advances with industry and government
- Organization of bi-annual technical meetings for Engineering Research Center Industrial Associates
- Organization and presentation of biofilm analytical methods workshops for industry and academic researchers and strategic planning workshops for industrial partners

MEMBERSHIP IN PROFESSIONAL SOCIETIES

Parenteral Drug Association
Society of Petroleum Engineers
Society of Industrial Microbiology

SELECTED PUBLICATIONS:

Kaatz-Wahlen, L, A. Parker, D. Walker, M. Pasmore and P. Sturman. 2016. Predictive modeling for hot water inactivation of planktonic and biofilm-associated *Sphingomonas parapaucimobilis* to support hot water sanitization programs. *Biofouling* 32:7, 751-761.

Sturman, P.J. 2012. Biofilm Control in Industrial Water Systems. In: *Biofilm Control in Drug Manufacturing*. Ed: Clontz L and Wagner C. PDA DHI Technical Books. October 2012.

Sturman, P.J., O.R. Stein, J. Vymazal and L. Kröpfelová. 2008. Sulfur Cycling in Sub-Surface Constructed Wetlands. Chapter 29 Wastewater Treatment, Plant Dynamics and Management in Constructed and Natural Wetlands. Vymazal, J. (ed.) pp. 329-344. Springer, Dordrecht.

Kjellerup, B.V., R.H. Veeh, P. Sumithraratne, T.R. Thomsen, K. Buckingham-Meyer, B. Frolund, and P.J. Sturman. "Monitoring of Microbial Souring in Chemically Treated Produced Water Biofilm Systems Using Molecular Techniques. *Journal of Industrial Microbiology and Biotechnology*. 32:4, pp 163-170. 2005

Sanders, P.F. and P.J. Sturman. "Biofouling in the Oil Industry", invited chapter, Petroleum Microbiology, American Society for Microbiology (ASM) Press, Washington D.C. 2005.