My research activities have dwindled over the last 10 years as I have focused more time on administrative activities. I am not actively seeking either research funding or graduate students. I nevertheless remain interested in environmental engineering problems and sustainability issues, especially those related to water and waste.

My current doctoral student, Zeinab Akbarishahabi, is examining microbial fuel cells. This is a new area for me but follows from my interest in sustainable systems and our recognition that even municipal wastewater contains a great deal of potential energy (see Shizas and Bagley, 2004). Microbial fuel cell technology has been extensively studied but not widely applied. This tells me that we may be missing something technically. In any case, I am enjoying learning more about this technology.

My most recent doctoral graduate, Dr. Judd Larson, examined the anaerobic hydrolysis of cellulose as a model for anaerobic degradation of municipal solid waste. We are currently preparing additional papers from his work (the first is currently in press, see Larson and Bagley, 2022).

If you have difficulty tracking down a paper in the list below that is of interest to you, please send me an e-mail.

**Journal Papers Published and In Press (61 total, students in bold)**


