

CVEN 5534 Wastewater Treatment  
Fall 2010

**Assignment 1, Due Tuesday, Aug. 31**

Read the three papers handed out in class (also posted on the website:

<http://ceae.colorado.edu/~silverst/cven5534/>). All of them take up, in somewhat different ways, the future of wastewater treatment, policy, and management.

Burian, S.J., S.J. Nix, R.E. Pitt, and S.R. Durrans, "Urban Wastewater Management in the United States: Past, Present, and Future," J. Urban Technol, 7(3):33-62, 2000.

Daigger, G.T., "Evolving Urban Water and Residuals Management Paradigms: Water Reclamation and Reuse, Decentralization, and Resource Recovery," Wat. Environ. Res., 81(8):809-823, 2009.

Harremoes, P. "Integrated Water and Waste Management," Wat. Sci. Tech., 35(9):11-20, 1997.

Write a short paper with your evaluation of these papers addressing the questions below and any of your own comments. You may add any additional references you like.

- What are the common themes developed in the papers? (Be specific – cite examples)
- What are the differences between their approaches to the future of wastewater management? How will they impact technology? Policy and regulation?
- What are important societal issues discussed?
- What issues were not mentioned that you think are important as guidance for wastewater management in the future?
- What are your own knowledge gaps that you hope to narrow by what you learn in CVEN 5534?

Format: 5 – 10 pages double-spaced (12 point font, please).