

James J. Flammig, P.E.
City of Cedar Rapids Utilities Department
1111 Shaver Rd NE, Cedar Rapids, IA 52402
Phone: 319-289-5968 Email: j.flammig@cedar-rapids.org

(A) Education

Name of institution	Location	Major	Degree year
Iowa State University	Ames, IA	Civil Engineering (Environmental Engineering)	M.S. 1997
South Dakota State University	Brookings, SD	Civil Engineering	B.S. 1995

(B) Work Experience

2015 - Present Utilities Process & Facilities Engineering Manager, City of Cedar Rapids, IA

- Engineering and Construction Manager for Water Pollution Control Facility (WPCF)
- Department Project Manager for WPCF Process Improvements Project – Contract 2, which includes biogas generation and cleaning system
- Oversaw engineering consultant contracts for initial studies, preliminary and final design services for Contract 2 project

1999 – 2015 Senior Process Engineer, Fishbeck, Thompson, Carr & Huber, Inc., Grand Rapids, MI

- Worked as Lead Wastewater Process Engineer and as a Construction Administration Project Manager
- Primary areas of emphasis include the planning, design, evaluation, modeling, cost estimating, construction and project management, permitting, funding development, and startup operation of:
 - Municipal and industrial wastewater treatment facilities
 - Sanitary, combined sewer, and industrial wastewater pump stations
 - Combined sewer and sanitary sewer overflow retention basins
 - Funding application development and administration through various funding agencies, including SRF, USDA-RDA, USEDPA, and CDBG funds
 - Applied hydraulics, water and wastewater modeling and planning

1997 – 1999 Environmental Engineer, Earth Tech, Inc., Grand Rapids, MI

- Worked within the Total Water Management Division's Design/Build Group on municipal and industrial wastewater, municipal water, and groundwater remediation projects

1995 - 1997 Graduate research assistant, Iowa State University

- Worked in the Department of Civil and Construction Engineering's Biotechnology Applications Group. Conducted research on treatability of two Cedar Rapids industrial wastewater streams, which eventually led to the installation of the existing anaerobic pretreatment system at the Cedar Rapids WPCF.

(C) Relevant experience accomplishments

Awards

- 2011 Engineering Honorable Conceptor Award Winning Project (1st Runner-Up) from the American Council of Engineering Companies of Michigan for Coldwater, MI WWTP Improvements Project.
- 2006 Young Professional of the Year Award from the Michigan Water Environment Association

Publications

- Tan, Y., Park, J., Ikuma, K., Evans, E., Flammig, J., Ellis, T., “Feasibility Test of Autotrophic Denitrification of Industrial Wastewater in Sequencing Batch and Static Granular Bed Reactors,” *Water Environment Research*
- Tan, Y., Park, J., Ikuma, K., Evans, E., Flammig, J., Ellis, T., “Feasibility Test of Autotrophic Denitrification of Industrial Wastewater in Sequencing Batch and Static Granular Bed Reactors,” Proceedings of the 91st Water Environment Federation Technical Exhibition and Conference, New Orleans, Louisiana, September 29 – October 3, 2018
- Flammig, J., Woodman, D., and Kulick, F., “Application of Structured Sheet Media IFAS for Ammonia Polishing From a Trickling Filter Solids Contact Process,” Proceedings of the 84th Water Environment Federation Technical Exhibition and Conference, Los Angeles, California, October 15-19, 2011.
- Flammig, J., Angenent, L., Dague, R., and Sung, S., “Treatability of Two Different Industrial Wastewater Streams Using the Anaerobic Migrating Blanket Reactor,” Proceedings of the 52nd Purdue Industrial Waste Conference, *Ann Arbor Press*, Chelsea, Michigan, pp. 289-303, 1997.

Presentations

- Flammig, J., Dechant, D., “Nutrient Removal and Solids Handling Upgrades to Cedar Rapids WPCF” Presented at the 2019 Iowa Water Environment Association Annual Conference, Altoona, Iowa, June 5, 2019.
- Flammig, J., Evans, E., “Solids Handling at Cedar Rapids WPCF,” Presented at the 2019 Iowa Water Environment Association Annual Biosolids Conference, Ankeny, Iowa, March 20, 2019.
- Flammig, J., Evans, E., “Cedar Rapids Nutrient Test – Granular Activated Sludge,” Presented at the 2018 Iowa Water Environment Association Annual Conference, Waterloo, Iowa, June 7, 2018.
- Flammig, J., Woodman, D., “Application of Structured Sheet Media IFAS for Ammonia Polishing From a Trickling Filter Solids Contact Process,” Presented at the 86th Annual Michigan Water Environment Association Annual Conference, Bellaire, Michigan, June 26-29, 2011.

- Flamming, J., “Application of High-Speed Turbochargers for Aeration Supply at Municipal WWTPs in Michigan,” Presented at the 86th Annual Michigan Water Environment Association Annual Conference, Bellaire, Michigan, June 26-29, 2011.
- Flamming, J., “Ammonia Polishing with IFAS and High Speed Turbochargers at Coldwater WWTP,” Presented at the 2011 Michigan Water Environment Association Process Seminar, Bath Township, Michigan, November 1, 2011.
- Flamming, J., “Unexpected Benefits of Installing Mechanical Bar Screens at Municipal WWTPs,” Presented at the 87th Annual Michigan Water Environment Association Annual Conference, Boyne City, Michigan, June 24-27, 2012.

(D) Relevant experience accomplishments

Engineering design and construction administration of municipal and industrial wastewater treatment systems. Oversee Utilities Department Process Engineering and Construction Administration staff.