

Kristina M. (Falat) Murphy

[REDACTED], Aurora, Illinois 60503
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EXPERIENCE

CITY OF NAPERVILLE - Department of Water Utilities 3612 Plainfield-Naperville Road; Naperville, IL 60564

Civil / Environmental Engineer December 2018 to present

Sanitary sewer modeling; development permit review.

DuPAGE COUNTY - Stormwater Department 421 North County Farm Road; Wheaton, Illinois 60187

Civil Engineer November 2015 to November 2018

Watershed planning; flood control operations; flood inundation mapping.

Environmental Technician October 2000 to June 2003

Co-authored "Appendix J: Water Quality Enhancements to the DuPage County Stormwater Management Plan"; floodplain mapping; NPDES Phase 2 Permit application and implementation.

MICHAEL BAKER INTERNATIONAL 165 South Union Boulevard, Suite 200; Lakewood, Colorado 80228

Project Manager - Water Resources and Climate Change Services March 2014 to May 2015

Flood recovery assistance for Boulder County, Colorado after 2013 historic floods; Flood studies and Physical Map Revisions (PMRs) and technical review of Letters of Map Changes (LOMCs) as FEMA Production and Technical Services Risk MAP contractor; business development for climate changeservices.

RIVERSIDE TECHNOLOGY, INC. 2950 East Harmony Road, Suite 390; Fort Collins, Colorado 80528

Water Resources Engineer May 2013 to March 2014

Unsteady flow dam break analysis for Tennessee Valley Authority; storm surge modeling; flood inundation mapping and marketing for the insurance industry.

AON BENFIELD INC., IMPACT FORECASTING, LLC 200 East Randolph Street; Chicago, Illinois 60601

Senior Scientist – Hydrological Engineer January 2011 to May 2012

River and coastal flood risk; weather risk management for the reinsurance industry.

CONTROL SYSTEMS RESEARCH, INC. and MIDWEST WEATHER, INC.

Chicago O'Hare International Airport; Chicago, Illinois 60666

Meteorologist / National Weather Service Certified Weather Observer April 1998 to December 2011

BAXTER AND WOODMAN, INC. Plainfield and Mokena, Illinois offices

Water Resources Engineer September 2007 to August 2010

Stormwater and floodplain permit review; water resources design; NPDES Phase 2 Permit implementation.

SMITH ENGINEERING CONSULTANTS *A Division of SEC Group Inc.* 759 John Street; Yorkville, IL 60560

Civil Engineer - Water Resources June 2003 to August 2007

Stormwater and floodplain permit review; water resources design; NPDES Phase 2 Permit implementation.

EDUCATION

UNIVERSITY OF LOUISIANA AT MONROE *formerly Northeast Louisiana University*, Monroe, Louisiana.

Bachelors of Science in Atmospheric Science in December 1997. G.P.A. (4.0 scale): major: 3.647 / cumulative:

3.325. Graduated cum laude. Worked in the Climatic Research Center, participated in national weather forecasting

contest and student member of American Meteorological Society (Secretary/Treasurer of student chapter).

Internships at National Weather Service Forecast Office and WEWS television station in Cleveland, Ohio.

PRESENTATIONS

- "Flood Forecasting and Inundation Mapping" at DuPage County Municipal Engineers discussion group, 2018 Illinois Association for Stormwater and Floodplain Managers (IAFSM) conference, and the February 2018 meeting of the Chicago chapter of the American Meteorological Society (AMS);
- "Climate Science in Floodplain Management" at the 2016 IAFSM and 2017 Association of State Floodplain Managers (ASFPM) conferences;
- "The National Flood Insurance Program: An Overview and its Relation to Weather and Climate Change" at the 2015 Chicago chapter of the AMS annual banquet;
- "Applying Climate Change for Planning Purposes: Using Climate Change Data to Plan and Design Infrastructure" at the March 2015 meeting of the Denver-Boulder chapter of the AMS.