

ADAM N. PASCH

Meteorologist II



Educational Background

Ph.D., Meteorology, Saint Louis University
M.S., Meteorology, Saint Louis University
B.S., Meteorology, Saint Louis University

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Professional Experience

Dr. Pasch joined STI in 2008 as a Meteorologist II. His work at STI focuses on developing air quality forecasting tools, forecasting air quality, analyzing meteorological instrument networks, and developing computer code to process data.

Since joining STI, Dr. Pasch has co-managed the installation and operation of upper-air meteorological instruments for the Cleveland Multiple Air Pollutants Study (CMAPS); developed computer code to process data for the U.S. Environmental Protection Agency's (EPA) AIRNow and AIRNow International programs; developed an international file format specification for the transfer of real-time air quality data; and performed detailed analysis, testing, and review of products for EPA's AIRNow International program. He has also collected and analyzed historical meteorological and air quality data to develop conceptual models used in issuing daily air quality forecasts. He developed a web-based site log with a database backend for use by field technicians performing maintenance or audits on upper-air meteorological equipment. Dr. Pasch developed and gave a training presentation for an air quality agency on the development and usage of air quality forecasting tools. He is also a member of an internal committee on Climate Change.

Prior to joining STI, Dr. Pasch worked as a consultant for Trinity Consultants in St. Louis, Missouri. Dr. Pasch's work focused on regulatory application of air quality data; database development for analysis of permit applicability for a large national client; and preparation of state and federal air quality documentation such as construction and operating permits, toxic release inventories (TRI), annual emissions reports (AER), and emission inventories.

Prior to joining Trinity Consultants, Dr. Pasch was a research and teaching assistant in the Earth and Atmospheric Sciences Department at Saint Louis University. Dr. Pasch was a member of the Cooperative Institute of Precipitation Systems (CIPS) and conducted research on numerical simulation of heavy rain and snowfall, as well as precipitation verification. Dr. Pasch also taught an undergraduate course in Weather Analysis and was a guest lecturer in undergraduate courses in Atmospheric Dynamics and a graduate course in Statistical Methods in Meteorology. He was also an adjunct instructor in Earth Sciences at Southwestern Illinois College.

Dr. Pasch has a strong computer background with knowledge of FORTRAN, BATCH, SQL, Perl, PHP, HTML, IDL, UNIX, and SYSTAT programming languages; Microsoft Excel, Word, Access, and PowerPoint; VB/VBA; GEMPAK; and GARP.

Memberships

American Meteorological Society
National Weather Association