

## STEVEN A. LUDEWIG

Group Manager, Web Services



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### Professional Experience

Mr. Ludewig joined STI in 1999. His duties managing the Web Services Group involve staff and project management and the design and development of web-based software including websites and web services.

Mr. Ludewig has managed many projects for the U.S. Environmental Protection Agency's (EPA) AIRNow program, including the AIRNow-Tech website ([www.AIRNowTech.org](http://www.AIRNowTech.org)). He is currently managing the continuing development and operation of EPA's air quality email notification system, EnviroFlash ([www.EnviroFlash.info](http://www.EnviroFlash.info)). EnviroFlash allows local air quality agencies to configure custom, locally branded email and text messages containing forecasts and Action Day information.

Mr. Ludewig also has a lead role in project and task management, design, and development of data sharing features for a number of projects, including AIRNow ([www.AIRNowGateway.org](http://www.AIRNowGateway.org)) and AIRNow International for EPA. He has special interest in Web 2.0 technologies including standardized web services, geospatial web services conforming to Open Geospatial Consortium (OGC) standards, data feeds, and outputs for viewing data in standardized mapping tools such as Google Earth and Google Maps. Mr. Ludewig is working with EPA to develop an AIRNow Application Programming Interface (API) that conforms to the goals for data interoperability expressed by the Group on Earth Observations (GEO).

In addition, Mr. Ludewig has served as project manager and lead engineer for many public outreach websites for state and local air quality management agencies, assisting these organizations to create effective tools for educating and informing the public. Typical website features include air quality forecasts, real-time and historical data displays, and email notification systems. Examples include [www.cleanairpartners.net](http://www.cleanairpartners.net) for the Washington Metropolitan Council of Governments' Clean Air Partners program, [www.sparetheair.com](http://www.sparetheair.com) for the Sacramento Metropolitan Air Quality Management District, and [www.deqMlair.org](http://www.deqMlair.org) for the Michigan Department of Environmental Quality.

Before joining STI, Mr. Ludewig provided Internet application development, database design and administration, and computer system administration for several medical organizations. His responsibilities included development of applications for Internet presentation of data, network design, and creation of relational database management systems for the acquisition of medical research data.

Mr. Ludewig's technical skills include software development with ColdFusion, HTML, CSS, JavaScript, XML, Java, and Visual Basic, and he is familiar with .NET/C#, JSP, and PHP. He is also skilled in developing and configuring databases in Oracle and Microsoft SQL Server and writing procedures using Transact-SQL and PL-SQL.

See <http://www.sonomatech.com/staff.cfm> for a list of publications.