

## STEVEN A. LUDEWIG

Group Manager, Web Services



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### Professional Experience

Mr. Ludewig joined STI in 1999. His duties as Group Manager of the Web Services Group include staff and project management and designing and developing 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 ongoing development and operation of EPA's air quality email notification system, EnviroFlash ([www.EnviroFlash.info](http://www.EnviroFlash.info)). With EnviroFlash, local air quality agencies can configure custom, locally branded email and text messages containing forecasts and Action Day information.

As part of his duties, Mr. Ludewig has been serving as project manager for the Cyberinfrastructure for Air Quality Management (CyAir) for the EPA. The objective of CyAir is to contribute to the planning, development, maintenance, and coordination of systems to help the air quality community better use air quality information through a standardized, service-oriented approach.

Mr. Ludewig also has a lead role in project and task management as well as in designing and developing data sharing features for a number of projects, including AIRNow ([www.AIRNowGateway.org](http://www.AIRNowGateway.org)) and AIRNow-International for EPA. He has a 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. 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 in creating 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. Example websites 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.deqMfair.org](http://www.deqMfair.org) for the Michigan Department of Environmental Quality.

Before joining STI, Mr. Ludewig developed Internet applications, designed and administered databases, and administered computer systems for several medical organizations. His responsibilities included developing applications for Internet presentation of data, network design, and creating 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/ResPub/SALpub.pdf> for a list of publications.