

## Dennis A. Wolf

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### RESUME

**EDUCATION** University of Wisconsin, Madison, Wisconsin  
Ph.D., May, 1986 Major: Statistics

University of Iowa, Iowa City, Iowa  
M.S., December, 1976 Major: Statistics  
M.S., May, 1975 Major: Mathematics

Central College, Pella, Iowa  
B.A., June, 1970 Major: Mathematics  
Minor: German

### PRIMARY WORK EXPERIENCE

10/77 - 7/81 Oak Ridge National Laboratory, Oak Ridge, Tennessee -- **Statistician.**  
12/86 – present Consulted in the areas of chemistry, biology, environmental science, geology, engineering and materials science. Most recent projects have utilized mainly multivariate statistical analysis in pattern recognition, discrimination and clustering.

One project, the Chemical and Biological Mass Spectrometer (CBMS) Project was an R&D 100 Award winner in 2000. Was responsible for analyzing mass spectra to discriminate among biological warfare agents. Part of that work involved analysis of a commercial data base of microorganism fatty acids with the goal being to assess the feasibility of microorganism discrimination and identify characteristics the CBMS should key on. Was involved in this effort as statistical consultant, data base designer and maintainer and mass spectrometer operator.

In another project, was tasked to identify aspects of magnetics data from helicopter boom-mounted magnetometers that could improve discrimination between ordnance and non-ordnance items. Other work proposed will expand consideration to electromagnetic data and to combining magnetometer and electromagnetic sensor system data. The research goal is to develop a signal processing approach that can accurately and rapidly discriminate ordnance.

### AREAS OF INTEREST

Applications of statistical methods to real world problems, data analysis, graphical methods, statistical computing, multivariate analysis, regression analysis.

### PROFESSIONAL ACTIVITIES

Membership in: American Statistical Association, Royal Statistical Society

Associate editor for: *Journal of Statistical Computation and Simulation*

Reviewer for: *Journal of Statistical Computation and Simulation, Computational Statistics & Data Analysis, Communications in Statistics, Biometrics, Technometrics*

Papers presented at: American Statistical Association Meetings, DOE Statistical Symposia, EnvironMetrics Conferences, SPRUCE Meeting, and other application area-specific meetings.