JAMES A. KUIPER

Ecological and Geographical Sciences Section
Environmental Science Division
Argonne National Laboratory

Educational Background:

M.S.	University of Michigan, Biometrics, 1986
Certificate	University of Michigan, Remote Sensing, 1986
B.S.	University of Michigan, Natural Resources, 1983

Professional Experience:

2005-Present	GIS Project Developer/Analyst
1992-2005	GIS Analyst/Biogeographer
	Environmental Science Division
	Argonne National Laboratory

Responsible for coordination of Geographic Information System (GIS) staff, activities, hardware, and software within the Division. Conducts compilation, analysis, and modeling of digital geographic data using a variety of Geographic Information System (GIS) software packages. GIS technical lead for the West-wide Energy Corridor Programmatic Environmental Impact Statement (EIS), Oil Shale/Tar Sands Resources Leasing Programmatic EIS, Las Vegas Regional Air Quality Modeling Study, Trans Alaska Pipeline System Right of Way Renewal EIS, Alabama Chemical Stockpile Emergency Preparedness Program GIS, Argonne National Laboratory GIS, Aberdeen Proving Ground EIS, and many other GIS projects. Also provides significant technical input to programming, image processing, and Internet projects.

Summary of Previous Experience:

1991-1992   AT&T/Salem Technical Services, Schaumburg, Illinois

Coded C and Unix script programs to translate GIS cadastral data, and provided technical support to other GIS software users.

1987-1991   TRW/ESL Inc., San Bernardino, California

Used C, FORTRAN, and several macro languages to program a variety of image processing and GIS applications. Geographic analysis projects included work with image processing, GIS, and statistical software.

1984-1986 University of Michigan, Ann Arbor, Michigan

Efforts included a variety of part time and full time assignments including: statistical analysis of tree measurement data to create red pine and aspen timber volume models; field work for timber cruising and insect infestation studies; also, taught "Introductory Natural Resources Statistics," "Digital Processing of Landsat Data," and "Introductory Cartography."

Research Interests:

3D Visualization of geographic data and modeling results
Programming of GIS applications
Spatial modeling of natural and man–made systems
Integration of spatial models with GIS systems
Use of GIS systems to study environmental impacts

Professional Activities:

Illinois GIS Association

Publications:

Author or co–author of over twenty report and conference publications, one journal article, and two book chapters.