

BRIAN L. CANTWELL

Environmental Science Division
Argonne National Laboratory
Argonne, Illinois

Education

B.S. Southern Illinois University, Forestry, 1979

Professional Experience

2004-present GIS Programmer / Analyst
2001-2004 GIS Programmer

As one of the Environmental Science Division (EVS) GIS Programmer / Analysts, responsible for supporting division projects using geographic information systems (GIS) technologies. This includes data development, database maintenance, cartography, spatial analysis and development of GIS tools for clients both inside and outside Argonne. Provide guidance to junior GIS staff and scientists who are using GIS applications. Provide consultation regarding GIS issues to sponsors and their contractors.

Specific projects underway or recently completed include: (1) U.S. Department of Energy (DOE) and Bureau of Land Management (BLM) Solar Energy Development Programmatic EIS; (2) Bureau of Ocean Energy Management (BOEM) Outer Continental Shelf Oil & Gas Leasing Program: 2012-2017 Programmatic EIS, (3) DOE Uranium Leasing Program Programmatic EIS.

1996-01 Data Researcher, Rand McNally & Company, Skokie, IL

Responsible for geographic research on international and domestic products. Provided data analysis to Geographic Systems Development to support proposals and reports to the Vice President of Geographic Information Services.

1994-96 Production Supervisor, Encyclopedia Britannica, Inc., Chicago, IL

Responsible for supervision of five cartographers and two map editors in the production of maps for company products and outside clients. Created workflows and QA procedures for new projects and products. Created and developed the department's map inventory and scheduling system. Created and developed the department's place names data base.

1991-94 Map Editor, American Map Corporation, Wood Dale, IL

Responsible for editing and approval of map proofs prior to printing. Developed and maintained map index data base.

B. L. CANTWELL

1980-89 Cartographer/Specifications Writer, Defense Mapping Agency, Washington, D.C.

Researched, edited and compiled nautical charts. Worked closely with Naval officers and DMA Headquarters personnel to assess user requirements for new and existing products. Edited and maintained product specifications of all existing and new hydrographic products.

Synergistic Activities

- GIS Technical Leader, DOE and BLM Solar Energy Development Programmatic EIS, underway (<http://solareis.anl.gov/>).
- GIS Technical Leader, BOEM Outer Continental Shelf Oil & Gas Leasing Program: 2012-2017 Programmatic EIS, underway

Publications

Author or co-author of 17 NEPA documents, environmental reports, conference publications and presentations on a variety of issues related to energy development, environmental impact, and related policy and regulation. Relevant publications include:

Cantwell, B., R. Sullivan, and J. Kuiper, *Harness the Sun, Harm the View? Solar-Power Development Affects on Visual Resources*, GeoWorld Magazine Online, February 2011.

Final Programmatic Environmental Impact Statement, Designation of Energy Corridors on Federal Land in the 11 Western States (DOE/EIS-0386), prepared for U.S. Department of Energy and U.S. Department of the Interior, Bureau of Land Management, January 2009.

Froemer, N., B. Cantwell, I. Hlohowskyj, and J. Kuiper, *Geospatial Analysis of the Marine Environment Affected by Off-Shore Energy Development*, presented at the Esri Federal User Conference, Washington, DC, February 2011.

Development of GIS Tools

Assisted in the development of interactive maps for the analysis of potential impacts relating to the energy / environment interface, including:

Solar Energy Environmental Mapper, (<http://solarmapper.anl.gov/solarmapper/>), developed for the Bureau of Land Management Solar Energy Development Programmatic EIS.

Wyoming Wind and Transmission Study (WWATS) Geospatial Data Viewer, (<https://webdev.evs.anl.gov/wwatsteam/geospatial/index.cfm>), developed for BLM Wyoming.