

William Lynn Shirley
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Current Employment:

GIS Manger, Department of Geography, Center for GIS & Remote Sensing
Callcott Building
University of South Carolina
Columbia, S.C. 29208

Educational Background:

M.S. - Geography - University of South Carolina - May 1981
B.S. - Geography - University of South Carolina - May 1975

Employment History:

Dept. of Geography - Center for GIS & Remote Sensing - University of South Carolina
5/2000 - present GIS manager
Associate for Research Planning, Inc – 2002 - present
Liberal Arts Computing Lab
8/1998 - 5/1999 Interim Director
8/1991 - 8/1998 and
5/1999 - 5/2000 Research Associate
8/1988 - 8/1991 GIS Projects Manager
4/1983 - 8/1987 Project Manager, Census Data Processing/ Graphics
12/1981 - 4/1983 Systems Analyst

Dept. of Geography - University of South Carolina
2002-2003: (concurrent) Lecturer in Geographic Information Systems - GEOG 363
1996 (concurrent) Lecturer in Geographic Information Systems - GEOG 563
1982- 1988: (concurrent) Lecturer in Computer Mapping - GEOG 543
1978- 1981: Geographic Programmer
1977- 1978: Geographic Research Consultant

Activity Highlights

- Currently supervise a campus GIS support program of over 200 users, 16 software applications, a campus wide, web-based GIS data server and a dozen short course offerings.
- Implemented and managed the technical aspects of a five-year project to provide the S.C. State Development Board (now Dept. of Commerce) with a 17 layer statewide GIS database. Supervised a concurrent staff of 5-6 graduate students (1988-1993)
- Managed, coordinated or participated technically in external research projects with:
- Savannah River Site/Westinghouse Co. (1993-96), Columbia's River Alliance (1995-96), Bell South Services (1993-1994), Richland County/City of Columbia (1994-96), Central Midlands Planning Council (various, 1990-1993), Appalachian Regional Planning Council (various, 1989-1995), NASA's Affiliated Research Center program (1997-2002).
- Maintain USC GIS data server and associated web site
- Manage campus GIS program with over 250 participants

- Presented numerous topical papers, workshops, guest lectures on a wide range of GIS-related topics to: USC classes in marketing, social work, history, and geography as well as to statewide Librarians, talented and gifted SC middle schools students, SC secondary teachers, the SC Hurricane Conference, and numerous State Mapping Advisory Committee meetings (1979-present).

Committees:

S.C. Intergovernmental Resource Council (IRC)-GIS Sub-committee (1998-2002), IRC Standards sub-committee (appointment 2001-2002), Richland County GIS Technical Consortium (appointment by Richland County staff), Richland County Transportation Commission (appointed by Rep. James Smith 2000-2003), State Mapping Advisory Committee (SMAC) education co-chair (2001-present).

Presentations, Papers and Publications

1998 - paper (with Cowen and Jensen), "Collaborative GIS via Video-conferencing: A Chauffeur-driven GIS for decision makers", Proceedings, GIS Planet, Lisbon, Portugal, Sept. 9, 1998.

1998 - paper (with Cowen, Jensen and Yang), "Web-Based GIS to Support Public Awareness at the Department of Energy Savannah River Site", Proceedings, GIS/LIS 1998, Nov 1, 1998.

1995 - presentation on "Implementing a Campuswide GIS License for ESRI Products", Fifteenth ESRI User Conference, Palm Springs, Ca.

1994 - invited panelist for session entitled "Cultural and Demographic Data: The Forgotten Component on the Nation's Information Superhighway". URISA conference, Milwaukee, WI.

1994 - "Using Geographical Data Browsers in a Networked Environment", Proceedings. Fourth International Symposium on Spatial Data Handling, Vol. 2.

1992 - chapter (co-author with David J. Cowen) entitled "Integrated Planning Information Systems" in Geographical Information Systems: Principles and Applications, Vol. 2, ed. Maguire, Goodchild and Rhind., Wiley & Sons, New York, N.Y.

1991 - URISA award for "Project Showcase" - best overall project - "South Carolina Infrastructure/Economic Development Planning", with Bill Shinar, S.C. State Development Board.

1990 - "An Evaluation of the Use of Digital Line Graphs and TIGER Files for Use in Multipurpose Geographic Information Systems". Proceedings. Fourth International Symposium on Spatial Data Handling, Vol. 2.

1990 - paper entitled "Implementing a Statewide Economically-Focused GIS Database Using DLG and TIGER". Proceedings. Tenth International Arc/INFO Users Conference, Palm Springs, Ca.

1989 - paper (co-authors W. Michener and D. Cowen) entitled "Geographic Information Systems for Coastal Research". Proceedings. Sixth Symposium on Coastal and Ocean Management.

1988 - paper (co-authors D. Cowen, J. Jensen, W. Smith, T. White) entitled "The Integration of Thematic Mapper and DLG Data for Timber Stand Assessment". Proceedings. Third International Symposium on Spatial Data Handling.

1988 - poster on "Comparison and Verification of Two Digital Classifications for Wetlands Areas: 1:100,000 DLGs versus Thematic Mapper Data", Proceedings. Ninth International Arc/INFO Users Conference, Palm Springs, Ca.

1985 - paper (co-authors D. Cowen et al.) entitled "Alternative Approaches to Display of U.S.G.S. Land Use/ Land Cover Digital Data". AUTO-CARTO VII.

1984 - paper (co-authors E.G. Barron and A. Waldrep) entitled "A Realistic Approach to Locating Dental Practices". J.A.D.A. - v. 109, December 1984.

1984 - paper (co-authors D. Cowen, R. Bullard and P. Oppenheimer) entitled "Choropleth Mapping with U.S.G.S. Land Use/Land Cover Digital Files: A GIRAS to SAS/GRAPH Conversion Routine". Presenter at SAS Users Group International meeting, Ft. Lauderdale, Fl., Proceedings.

1984 - invited roundtable discussant for "Perspectives on Urban and Regional Information Systems in Academia". URISA conference, Seattle, Wa.

1983 - paper (co-author D. Cowen) entitled "Development and Application of the South Carolina Information Display System" at URISA, Atlanta, Ga.

1982 - paper (co-author G. Alexander) on "Examining Bivariate Relationships With Three-Dimensional Computer Graphics". Preventive Medicine Quarterly: summer 1982.

1982 - poster session at Harvard Computer Graphics Week entitled "An Integrated Approach to Teaching Introductory Computer Mapping" - concurrent paper. Proceedings.

1982 - paper (co-author D. Cowen) on "Automated Mapping of 1980 Census Data". 1982 Harvard Computer Graphics Week. Proceedings.

1981 -unpublished Master's thesis Geographic Characteristics of a College's Athletic Booster Club Membership: the University of South Carolina's Gamecock Club. Thomas Cooper Library, University of South Carolina, Columbia, SC.

1979 - paper (co-author D. Cowen) entitled "Making DIME User Friendly". Proceedings, URISA, San Diego, Ca.