

VITA

Dr. Michael G. Barndt

Data Center Coordinator, Nonprofit Center of Milwaukee

GENERAL INFORMATION

Birth date: December 28, 1943

Bachelor of Science in Chemistry, June, 1965

Case Institute of Technology, Cleveland, Ohio

Doctor of Philosophy in Organizational Behavior,

June, 1972 Case Western Reserve University, Cleveland, Ohio

POSITIONS HELD

Data Center Analyst, Nonprofit Center of Milwaukee – Jan, 2007 – To Date

Data Center Coordinator, Nonprofit Center of Milwaukee – May, 2000 – Dec. 2006

Program Consultant, Neighborhood Data Center, Nonprofit Center of Milwaukee, Jan., 1992 - May, 2000

Associate Professor, Department of Urban Affairs, University of Wisconsin-Milwaukee, September, 1977 - May, 2000.

Chairman, Department of Urban Affairs, University of Wisconsin-Milwaukee, February, 1982 - August, 1985

Assistant Professor, Department of Urban Affairs, University of Wisconsin-Milwaukee, September, 1972 - August, 1977

Instructor, Department of Urban Affairs, University of Wisconsin-Milwaukee, September, 1971 - August, 1971.

Executive Assistant, Housing Our People Economically (HOPE), 1965 - 1970

(A community development corporation in Western Hough, Cleveland, Ohio.)

RESEARCH AND PUBLICATION IN THE AREAS OF:

Use of information systems by local government and human services agencies.

Evaluation procedures for comprehensive community development initiatives

Neighborhood-based change strategies.

Neighborhood level population projection methods

Analysis of the impact of Milwaukee's school desegregation plan.

Comprehensive systems for early childhood and school readiness

Use of microcomputers by small human service organizations.

Management information systems. (Extensive computer programs written for several human services agencies.)

Community/ neighborhood comprehensive information and indicator systems.

Geographic Information System (GIS) based projects to support neighborhood level program development efforts.

Parcel level analysis of property value, ownership and investment patterns in racially changing neighborhoods. Indicators of neighborhood "health"

Local content systems as a part of electronic community networks.

Public Participation Geographic Information Systems.

Spatial analysis techniques for neighborhood analysis.

Methodological issues when using community indicators as ecological variables.

Urban neighborhood trends – housing, crime, drugs, redlining, education, health.

Michael Barndt

Summary of recent experiences

(Most entries as of Spring, 2005)

Geographic Information Systems and Community Data System Development – Activities

Founded the Neighborhood Data Center program of the Nonprofit Center of Milwaukee (at the time - Milwaukee Associates in Urban Development). Consultant on a 1/4-1/2 time basis through May, 2000. Coordinator of the Data Center program from May, 2000 to Dec., 2006. Analyst at the Center since Jan. 2007. The basic work of the Center has been to provide data and GIS services to more than 100 local nonprofit organizations. 1991-1998.

Participant in a task force sponsored by the City of Milwaukee to develop neighborhood indicators to monitor neighborhood change. 1996.

Executive Committee member, National Neighborhood Indicators Partnership – Jan. 2007 – To date

Geographic Information Systems and Community Information Systems papers and Conferences

“A Community Development Model for Neighborhood Data Services”, Urban and Regional Information Systems Association, Milwaukee, Wisconsin, July, 1994. (The work of the Neighborhood Data Center was a focal point within a daylong series within the national conference.)

“Data Providers Empower Community GIS Efforts”, GIS World, (July, 1994) – with Wil Craig.

“Geographic Information Systems as a Practical Tool for Neighborhood Assessment”, Urban Affairs Association Conference, Portland, Oregon, May, 1995.

“If you Analyze It, Will They Come?” “Providing Information for Change” Conference, Minneapolis, Minnesota, November, 1995.

“Viable Models for Sustained Data Services to Neighborhood Organizations”, “Providing Information for Change” Conference, Minneapolis, Minnesota, November, 1995. (Second presentation)

“The Value of GIS for Neighborhood Organizations”, Initiative 19 Task Force- “GIS and Society: Social Implications of How People, Space and Environment are Represented in GIS”, Minneapolis, Minnesota, March 1996. (This invitation only workshop was organized by the National Center For Geographic Information And Analysis (NCGIA.) This was the conference which launched the discussion of “Public Participation GIS.”)

“The Challenges to Organizing Community Data in Urban Systems”, Initiative 19 Task Force - followup workshop focused upon “Public Participation GIS”, Orono, Maine, July, 1996. (This invitational workshop was built upon the Minnesota workshop above. I presented one of the three opening sessions introducing a perspective on this issue.)

“Building Relationships with Data Sources”, “Providing Information for Change” Conference, Minneapolis, Minnesota, October, 1996.

“Public Participation GIS”, AC13 Conference, Seattle, Washington, April, 1997. (Collaborative paper with Tim Nygeres and Kerry Brooks. Tim Nygeres made the presentation.)

“Public Participation GIS Within an Urban Neighborhood Environment”, Urban and Regional Information Systems Association Conference, Toronto, Ontario, July, 1997.

“Uncertain Futures: Geographic Information Systems as Tools in Urban Neighborhoods”, LIS/GIS Conference, Cincinnati, Ohio, September, 1997. (Part of a special panel – “The Future of GIS”)

“Using Geographic Data – Case Studies”, in Mapping Your Community, Department of Housing and Urban Development, October, 1997, (HUD-1092-CPD) (These case studies were developed as a contract with the National Neighborhood Indicators project administered by the Urban Institute.)

“Building a Data Center”, “Information for Change” Conference, Minneapolis, Minnesota, October, 1997.

“Using GIS for Data Integration”, “Information for Change” Conference, Minneapolis, Minnesota, October, 1997.

“GIS – A New Tool for Community Based Organizations”, Donors Forum of Milwaukee, November, 1997.

“Achieving the Vision of a Working Community Information System”, National Leadership Conference of United Way, Birmingham, Alabama, January, 1998.

“Information Technology/ Geographic Information Systems as a Casual Component of the Work of Neighborhood Based Organizations: To What Extent Have We Realized the Vision?”, Urban and Regional Information Systems Association Conference, Charlotte, North Carolina, July, 1998.

“Public Participation GIS – Barriers to Implementation”, Cartography and GIS, June, 1998.

“Information Technology and the City”, a special symposium held at MIT April 30-May 1, 1998. (Invitation to speak.)

“Exploring Options for Community Use of GIS Systems”, workshop sponsored by the Department of Planning, Lake County, Illinois, August, 1998.

Two presentations - “Bringing Together Current Paradigms For Data Center Programs” and “A Vision For A ‘Local Community Knowledge Base’”, workshop sponsored by the United Way of Greater San Antonio, San Antonio, Texas, September 10-11, 1998.

“A Model For Evaluating Public Participation Gis Programs”, NCGIA/ Project Varenus Special Meeting – “Empowerment, Marginalization and Public Participation GIS, Santa Barbara, California, October 15-17, 1998. (Published on the web at www.ncgia.ucsb.edu/varenus/ppgis/ncgia.html) (An invitational task force of 35.)

“Organizing Data to Address Neighborhood Health Issues”, “Information for Change” Conference, Minneapolis, Minnesota, October 19-20, 1998.

Organized and presented at a day-long workshop featuring the Nonprofit Center Data Center program and three community “clients” (one of three tracks for the invitation-only conference), National Community Building Network and The Urban Institute, Washington, D.C., October 22, 1998.

Participant and presenter, “Neighborhood Indicators and Planning”, American Planning Association, Chicago, Illinois, October 29-30, 1998. (An invitational task force of 15.)

"Using Spatial Information – Barriers and Solutions at the Grass Roots Level", GIS and Society Conference, Minneapolis, MN, June 1999

"Community GIS Applications – the Challenge to Communicating Effectively", Casey Local Learning Partners Conference, Baltimore, MD, March 2001

"Neighborhood Data Systems", Neighborhood Statistical Indicators Conference, Tampa, FL, February 2002

"Building Upon Neighborhood Data System Models: Taking Next Steps. A Case Study of a Housing Coalition Housing Survey Process.", Public Participation GIS Conference, Rutgers, NJ, July 2002

"Investing in Milwaukee: A Vision of a Community Information System", Milwaukee Data Consortium presentation, August 2002

"Along the Data to Decision Continuum: A Neighborhood Perspective", American Planning Association, Denver, CO, March, 2003

"A Survey of Movements for Local Information: Are Models Converging?", Urban Affairs Association Conference, Cleveland, OH, March, 2003

"Community Information Systems in Milwaukee", Milwaukee Data Consortium presentation, November, 2003

"Refining Indicators: Finding Best Measures for Improvements in Urban Housing", Community Indicators Conference, Reno, NV, March, 2004

"Parsing the Local Context: Evaluation Perspectives on a Comprehensive Community Initiative", Urban Affairs Association, Washington, DC, April, 2004

"Building Community Systems that Support PPGIS", Public Participation GIS Conference, Madison, WI, July, 2004

"Refining Indicators: Finding Appropriate Measures for Different Audiences", National Infrastructure for Community Statistics Workshop, Washington, DC, September, 2004

Panel on Neighborhood Indicators, at "Neighborhood Development in the Digital Age: Using Technology to Improve Policy and Planning," conference sponsored by New York City Housing Department of Housing Preservation and Development, The Federal Reserve Bank of New York, and the Furman Center at New York University, New York, NY, November, 2004

Telecommunications activities

Presented four workshops introducing nonprofit organizations to the Internet. 1995.

Developed a web site supporting nonprofit organizations on Internet. The site has been referenced by most major on-line resource directories serving the nonprofit community. The site includes: A review of community sites that model planning support. A survey of neighborhood level GIS activities. A catalog of over 3000 links to community resource sites. And a major essay on the use of the web by nonprofit groups - "Non Profit Organizations At Work on the Internet". Work begun summer 1995.
(<http://www.uwm.edu/People/mbarndt/mindex.htm>)

Delegate from Milwaukee to a state sponsored telecommunications workshop - "Common Ground" in Wausau, Wisconsin. June, 1995.

Participant on a local task force coordinated by the Milwaukee Foundation to support community building applications of telecommunications through support of community planning. Implemented a needs assessment to determine the experience of community leadership with computers and telecommunication. Organized training sessions for the committee participants. 1995-1997.

Evaluator for a federally funded (NTIA -TIIAP) community networking program in Chicago. This program was a \$900,000 effort bringing together several universities, community research organizations and neighborhood groups to demonstrate the value of organized local information on the Internet for community advocacy. (Lead agency - Center for Neighborhood Technology.) 1995-1996.

Participant in a major collaborative effort involving all Information and Referral "hot lines" in the Milwaukee region to develop a new coordinated system with a centralized core data base. Chaired the working group exploring data base development issues. 1997.

"Nonprofits at Work on the Internet", workshop on the development of web sites for nonprofit organizations, Nonprofit Center of Milwaukee, June, 1998

"Resources for Nonprofits on the Internet", workshop on search strategies for nonprofit organizations using the Internet, Nonprofit Center of Milwaukee, August, 1998

Telecommunications Papers and Conferences

"Developing Local Content on the Internet", "Building the Information Superhighway in the Chicago Metropolitan Region" community technology conference, Chicago, Illinois, November, 1995.

"The Development of 'Communities of Place' in the Telecommunications Revolution", Urban Affairs Association conference, New York City, New York, March, 1996.

"Building A Structured Local Information Resource On Line", "Community Networking 1996: Bringing People Together", Taos, New Mexico, April, 1996. (The proceedings are also published online at <http://www.laplaza.org/cn/local/cmcallp.html>)

"A Model for Structuring A Local Community Knowledge Base", Urban Affairs Association Conference, Toronto, Ontario, April, 1997.

Urban Community Research Activities

Note: The Neighborhood Data Center program has been the opportunity to conduct a wide range of development and research projects. Most of the work has been short-term development and analysis as a part of direct service to organizations. Other work has required extensive data development and collaboration with other researchers. A sampling of research work I have conducted includes:

Community assessment:

- a. Community Survey of the Avenues West neighborhood - with Marquette University. 1993 and 1995.
- b. Assessment of indicators of neighborhood change to identify early warning signs in neighborhoods - to identify additional target neighborhoods for "Walk to Work" housing programs - with Wisconsin Electric. 1993.

- c. Local investigator for a collaborative evaluation project directed by the Rockefeller Institute of SUNY, Albany. The evaluation is reviewing the impact of six Neighborhood Preservation Initiative projects funded by the Pew Trust. 1996-8.

Service system analysis:

- a. Analysis of the penetration of programs to youth by block - Sherman Park Mary K. Ryan Boy's and Girl's Club. (Repeated for a number of agencies since then.) 1992.
- b. Variety of efforts to evaluate the distribution of community resources – programs and institutions – within neighborhoods. This is leading to a broader collaboration to develop an assets data inventory. 1997-8.

Housing:

- a. Neighborhood level patterns of changing property values from 1980 - 1996 using Milwaukee Master Property File data. 1994-8.
- b. Analysis of the pattern of probabilities that boarded up housing becomes vacant lots. 1995.
- c. Evaluation of the effects of housing programs upon housing markets within neighborhoods. 1997.

Patterns of Neighborhood Change:

- a. Use of changing enrollment patterns within Milwaukee Public Schools as a vehicle for estimating population changes since the 1990 census. 1997.
- b. Trend material developed from property file, crime, board up and other statistics organized to track changes in detail in two neighborhoods - the eastern edge of Sherman Park and the area between Capital Drive and Silver Spring. 1997-8.
- c. Series of maps assessing the relationship between residence and work using recently released U.S. Census tabulations created for the Department of Transportation. 1997.
- d. Series of maps assessing neighborhood patterns of investment of home mortgages using H.M.D.A. – Home Mortgage Disclosure Act data. 1997-8.

Crime:

- a. Neighborhood level patterns of change in violent crimes from 1981- 1995. Updated annually since 1991.
- b. Analysis of the rapid spread of Crack Cocaine as evidenced in arrests in the early 1990's - with the Metropolitan Milwaukee Drug Task Force. 1994.

Racial Segregation:

- a. Extensive series of maps tracking racial change in Milwaukee since 1960. 1992.
- b. Prepared data and maps demonstrating likely racial patterns in the sale of home insurance policies in Milwaukee for a lawsuit against the American Family Insurance Company. Since the \$15 million dollar settlement, the Data Center has been analyzing detailed statistics of the sale of new policies every six months as a part of the monitoring process. 1995-8.

Health Care:

- a. Evaluation of a three-year federal funded community outreach program sponsored by St. Mary's Hospital to support prenatal health services in a central city neighborhood. 1995-8.
- b. Research work with a "Trauma Database" maintained by Children's Hospital of Wisconsin - investigating the correlation between incidents of violence involving children and the neighborhood indicators that identify at-risk neighborhoods. 1996-8.
- c. Participant in the Silver Spring Health Initiative research advisory team involving the UW-Madison Medical School, the UWM School of Nursing and staff of the Silver Spring Neighborhood Center. 1996-7.

- d. Co-convenor of a group of community health researchers from the Medical College of Wisconsin, the Milwaukee Department of Public Health, the University of Wisconsin and others - meeting about 8 times a year to support programs applying community data and GIS tools to community health research. 1997-2000.
- e. Preparation and analysis of address-level primary health data bases maintained by the Milwaukee Department of Public Health. Extensive investigation into the opportunities for use of spatial analysis tools are underway. 1997-2000.

Urban Community Research papers and Conferences

“Implosion in Central City Neighborhoods: A Micro Analysis of Change Using Geographic Information System Tools”, Urban and Regional Information Systems Association Conference at San Antonio, Texas, July, 1995.

“Selecting Community Indicators to Support Neighborhood Planning”, Neighborhood Strategic Planning Conference, Minneapolis, Minnesota, September, 1996.

“Using GIS for Data Integration”, Wisconsin Health Services Research Conference, Madison, Wisconsin, October, 1997.

“Using GIS for Data Integration – Health Care Applications”, Information for Change Conference, Minneapolis, MN, October, 1997

“Guidelines for the Introduction of Environmental Variables in Neighborhood Research”, Urban Affairs Association, Fort Worth, Texas, April, 1998.

“Neighborhood Policy Research: Controlling Scale and Detail Using GIS”, ESRI Conference, San Diego, California, July, 1998.

“Enterprise GIS – The Potential and Limitations in Community Health GIS Applications”, Urban and Regional Information Systems Association Conference, August, 1999

“WIC Program Surveillance”, Wisconsin Health Research Conference, Madison, WI, November, 2001

“Community Housing Data Systems -- the View from the Neighborhood”, HUD GIS Conference, Washington, DC, April, 2002

“The Milwaukee Re-entry Mapping Network”, National Re-entry Mapping Network conference, New Orleans, LA, December, 2004

“Preserving and Rebuilding Urban Neighborhoods: Supporting Action Through Data”, National Neighborhood Indicators Partnership conference, New Orleans, LA, December, 2004

Synthesis of Research and Publication Experiences

Each of the themes identified above intersect. The challenges of urban community development are addressed through a stronger platform for analysis of neighborhood change. Research is dependant upon a substantial improvement in data systems. Data systems require new structures to organize and distribute data. Data is organized and assessed through use of new tools such as GIS and spatial analysis. Data and other community information is distributed through new technologies such as the Internet. The entire resource allows organizations serving neighborhoods to adopt more comprehensive

approaches to their planning, management and evaluation. Stronger, more capable, community based organizations are a critical part of community revitalization.

Course Instruction

In the last 5 years as a faculty member, I taught several courses frequently -

942-250 - "Exploring the Urban Environment"

952-921 - "Seminar in Research Methods"

952-719 - "Social Objectives of Urban Community Development"

952-728 - "Urban Community Workshop" - Original research projects focused upon Milwaukee neighborhoods.

952-945 - "Internal Structures of the City"

1997-8, Developing map and data sets for the 40 largest urban regions to support empirical work by students. A web site under development - <http://www.umw.edu/People/mbarndt/tframe.htm> - allows split frame comparison of thematic maps across cities and demographic themes. Currently 120 maps are on line.

1997-8, Working with others on campus to develop a protocol for an "Urban Archive" of local and national urban data to support instruction and research.

Community Service

April 1996, received a "Lifetime Volunteer" recognition from Milwaukee Associates in Urban Development for work with the organization since 1980.

1978-1996, member of a variety of United Way Planning and Allocation and other committees.