

**Dr. Barry Wellar, Member,
Canadian Institute of Planners, and
Ontario Professional Planners Institute
Professor of Geography (ret.)
University of Ottawa**

Journal, Proceedings, and Contract Publications in Geomatics

1. Wellar, B. 1967. Generation of housing quality data from multiband aerial photographs. National Aeronautics and Space Administration Technical Letter-119. U.S. Geological Survey Geographic Applications Program Contract No. 14-08-0001-10654. Evanston, IL: Department of Geography, Northwestern University.
2. Wellar, B., D. Marble, D. Anderson. 1967. Urban and cultural features observable from a Gemini photograph. In *Earth Resource Surveys from Spacecraft*. Washington: Space Applications Office, National Aeronautics and Space Administration. 1: D-25/D-27.
3. Wellar, B. 1968. *Hyperaltitude photography as a data base in urban and transportation research*. USGS Geographic Applications Program Technical Report, Contract No. 14-08-0001-10654. Evanston, IL: Department of Geography, Northwestern University.
4. Wellar, B. 1968. On applications of thermal infrared imagery in urban research. *Annals of the Association of American Geographers* 58(2):411-413.
5. Wellar, B. 1968. *Thermal imagery in urban research*. National Aeronautics and Space Administration Technical Letter-135. U.S. Geological Survey Geographic Applications Program Contract No. 14-08-0001-10654. Evanston, IL: Department of Geography, Northwestern University
6. Wellar, B. 1968. Utilization of multiband aerial photographs in urban housing quality studies. In *Proceedings from the Fifth International Symposium on Remote Sensing of Environment*, 913-926. Ann Arbor, MI: Institute of Science and Technology, University of Michigan.
7. Wellar, B. and E. Moore. 1968. Experimental applications of multiband photography in urban research. In *Transactions of the Illinois Academy of Science*. 80-88.
8. Wellar, B. 1969. Recent developments in urban data generation via remote sensing techniques. In *Urban and Regional Information Systems: Federal Activities and Specialized Systems*. URISA Conference Proceedings. J. Rickert ed. 258-277.
9. Wellar, B. 1969. The role of space photography in urban and transportation data series. In *Proceedings from the Sixth International Symposium on Remote Sensing of Environment*, 831-853. Ann Arbor, MI: Institute of Science and Technology, University of Michigan.
10. Wellar, B and E. Moore. 1969. Urban data collection by airborne sensor. In *Journal of the American Institute of Planners*. XXXV (1): 35-43.

11. Wellar, B. 1970. Appraisal of the housing-environment component of urban areas: Quality versus quantity elements and methods of data acquisition. In *Methodologies for the Appraisal of the Quality of Housing and Its Environment*. Washington: U.S. Department of Health, Education and Welfare, and American Public Health Association.
12. Wellar, B. 1970. *A Working Treatise on Standardization*. Washington: Urban Information Systems Inter-Agency Committee, U.S. Department of Housing and Urban Development.
13. Wellar, B. 1970. Some observations on items contained and questions asked in the 1970 decennial census of housing. In *1970 Census and Legislation Related Thereto, Part I*. Washington: Subcommittee on Census and Statistics of the Committee on the Post Office and the Civil Service, House of Representatives, U.S. Printing Office. 133-136.
14. Wellar, B. 1971. Data Acquisition: Bane of information systems development? In *Urban and Regional Information Systems: Past, Present and Future*. URISA Conference Proceedings. J.Rickert and S.Hale eds. 456-469.
15. Wellar, B. 1971. Data Needs, the Role of Census Data, and Problems of Standardization in a North American Context. Invited paper, International Geographical Union Commission on Geographical Data Sensing and Processing. Lawrence, KS: Institute for Social and Environmental Studies, University of Kansas.
16. Wellar, B. 1971. Evaluation of selected major information system research and development projects: Implications for the Wichita Falls, Texas municipal information system (MIS). In *The Wichita Falls Consortium Phase I Report, Integrated Municipal Information Systems Project, Section II*, 18-138. Contract No. H-1217-Municipal Information Systems, Federal Urban Information Systems Inter-Agency Committee, U.S. Department of Housing and Urban Development. Springfield, VA: National Technical Information Service,, Operations Division, U.S. Department of Commerce, NTIS No. PB-206 789-18.
17. Wellar, B. 1971. Monitoring change in urban housing and its environment. In *Papers, American Society of Photogrammetry*. Washington DC: American Society of Photogrammetry. 174-203.
18. Wellar, B. 1971. *Paradigms for the Development of Standardized Data Bases*. Washington, DC: Information Systems Department, American Institute of Planners.
19. Wellar, B. 1971. *Remote Sensing in an Information System Context: The Case of the Wichita Falls, Texas MIS Project*. Invited paper, International Geographical Union Commission on Geographical Data Sensing and Processing. Lawrence, KS: Institute for Social and Environmental Studies, University of Kansas
20. Wellar, B. and F. Cross. 1971. *Environmental Inventory of the Grand (Neosho) River Basin*. U.S. Army Corps of Engineers Contract DACW56-71-0116. Lawrence, KS: Institute for Social and Environmental Studies and the State Biological Survey of Kansas, University of Kansas.
21. Wellar, B. and T. Graff. 1971. *Geographic Aspects of Information Systems; Introduction and Selected Bibliography*. Exchange Bibliography 239. Monticello, IL: Council of Planning Librarians.

22. Wellar, B. 1972. Data base development, and Remote sensing inputs to information systems. In, *Geographical Data Handling*, I, R. Tomlinson ed. Washington: National Technical Information Service.
22. Wellar, B. (editor). 1972. *Perspectives on Geographic Aspects of Information Systems*. Lawrence, KS: Institute for Social and Environmental Studies, University of Kansas.
23. Wellar, B. 1972. *Statistical Appendix to the Third Year Comprehensive Demonstration Plan of the Kansas City, Kansas, Model Cities Program*. Kansas City, KS: Planning Department, City of Kansas City.
24. Wellar, B. and T.Graff. 1972. *Bibliography on Urban and Regional Information Systems: Focus on Geographic Perspectives*. Monticello, IL: Council of Planning Librarians.
25. Wellar, B. and T. Parker. 1972. Standardization issues and ...? In *Information Systems and Political Systems*, URISA Conference Proceedings. J. Rickert, C. Davis, R. Wetherill and R. Smalley eds. 429-444.
26. Wellar, B. 1973. Indicators of social change: Concepts and measurements. (Book review.) *Journal of Regional Science*, **13**, 3: 477-481.
27. Wellar, B. Information interchange: Focus on standards and compatibility. In *Urban and Regional Information Systems: Information Research for an Urban Society*. URISA Conference Proceedings. J. Rickert, C. Davis, V. Di Matteo and A Bose eds. 234-238.
28. Wellar, B. 1973. Remote sensing and urban information systems. In *Photogrammetric Engineering*. 1041-1050.
29. Wellar, B. 1973. *The Urban Information System Inter-Agency Committee (USAC) Experience: Some Lessons Learned*. Discussion Paper B.73.21. Ottawa: Ministry of State for Urban Affairs.
30. Wellar, B. and A. Saumier. 1974. Results accruing from information systems in urban and regional governments: Contexts, identification and measurement, appreciation. In *Resources and Results*. URISA Conference Proceedings. C Davis, J. Rickert, V. Di Matteo eds. 7-22.
30. Wellar, B. 1975. Computer-assisted information systems and computer-assisted cartography: Tools or tinker toys of urban governance? In *Proceedings of the Second International Symposium on Computer-Assisted Cartography*. Washington, D.C.: U.S. Department of Commerce, U.S. Bureau of the Census. 482-490.
31. Wellar, B. 1975. *On the Present State of Information Technology Application at the Local Administrative Level in Canada*. Ottawa: Ministry of State for Urban Affairs.
32. Wellar, B. 1975. *Summary Identification of Key National Policy Areas Related to Information Technology at the Local Authority Level*. Ottawa: Ministry of State for Urban Affairs.
32. Wellar, B. 1975. Urban data management systems in Canada- A federal perspective. In *Resources and Results*. URISA Conference Proceedings. C Davis, J. Rickert, V. Di Matteo eds. 377-391.

33. Wellar, B. 1975. Urban environments: Inventory and analysis. Chapter 12 in *Manual of Remote Sensing*. L. Bowden ed. Washington, DC: American Society of Photogrammetry.
34. Wellar, B. 1976. Functional roles in the evolution of information systems. In *Information Systems as Services to Citizens*. URISA Conference Proceedings. 591-603.
35. Wellar, B. 1976. *Impressions on the Status of Computer-Assisted Information Systems in Urban Governance*. Discussion Paper B.76.2. Ottawa: Ministry of State for Urban Affairs.
36. Wellar, B. 1976. Information technology and urban governance: Problems and prospects. In *Information Technology and Urban Governance*. B. Wellar ed. Ottawa: Ministry of State for Urban Affairs, and Supply and Services Canada.
37. Wellar, B. ed. 1976. *Information Technology and Urban Governance*. Ottawa: Ministry of State for Urban Affairs, and Supply and Services Canada.
38. Wellar, B. and L. Lavallee. 1976. *A Methodology for Selecting R&D studies in a Policy-Oriented Organization*. Ottawa: Ministry of State for Urban Affairs.
39. Wellar, B. and L. LaVallee. 1976. A methodology for selecting R&D studies in a policy-oriented organization. In *Computers, Local Government and Productivity*. URISA Conference Proceedings. 391-405.
40. Wellar, B. 1977. Evolution of information systems as essential infrastructure in urban and regional governments. In *Information System Inputs to Policies, Plans and Programs*. URISA Conference Proceedings. Vol. I B. Wellar ed. 20-28.
41. Wellar, B. 1977. The role of national governments in the evolution of information technology at the local authority level. In *Local Government and Information Technology*. Paris: Organization for Economic Cooperation and Development. 149-167.
42. Wellar, B. ed. 1977. *Information System Inputs to Policies, Plans and Programs*. Vols. I, II, III. URISA Conference Proceedings Chicago: Municipal Finance Officers Association.
43. Wellar, B. 1980. Application of remote sensing technology to monitoring the shoreline dynamics of seashore parks. In *Proceedings of the Fourth International Symposium on Computer-Assisted Cartography*. Falls Church, VA: American Congress on Surveying and Mapping, and American Society of Photogrammetry. 572-583.
44. Wellar, B. 1981. Evaluation of information systems: Beyond concerns of measurement and analysis to impact assessment. In *Proceedings of the Ninth Annual Conference of the Australian Urban and Regional Information Systems Association*. Geelong, Victoria: Australian Urban and Regional Information Systems Association. 164-170.
45. Wellar, B. 1982. Computer-assisted information systems: Purchasing and development pitfalls. In *Computerized Cartography and Geographic Information Systems*. D. Douglas and R. Boyle eds. Ottawa: Canadian Cartographic Association. 21-24.
46. Wellar, B. 1982. Information technology as a factor in the planning process: Overview and assessment in societal context. In *Prospects for Planning; Coming*

- to grips with New Realities*. B. Wellar ed. Ottawa: Canadian Institute of Planners. 25-29.
47. Wellar, B. 1982. Towards a Strategic/Master Plan for Coordinating Geographic, Cartographic and Graphic Census Activities of the Geography Staff, Statistics Canada. Ottawa: Geography Branch, Statistics Canada.
 48. Wellar, B. 1983. Achievements and challenges in the field of automated cartography: Their societal significance. In *Automated Cartography: International Perspectives on Achievements and Challenges*. Proceedings of the Sixth International Symposium on Automated Cartography. B. Wellar ed. Ottawa: Auto-Carto Six Conference Committee, Carleton University and University of Ottawa I: 2-13.
 49. Wellar, B. ed. 1983. *Automated Cartography: International Perspectives on Achievements and Challenges*. Proceedings of the Sixth International Symposium on Automated Cartography. Ottawa: Auto-Carto Six Conference Committee, Carleton University and University of Ottawa.
 50. Wellar, B. 1983. Systems and services in an information society: Implications for local governments and their communities. In *Proceedings of the Eleventh Australian Conference on Urban and Regional Planning Information Systems*. Brisbane: Australian Urban and Regional Information Systems Association. 4-1/4-12.
 51. Wellar, B. 1984. Information for decision-making by rural authorities. In *Local Leadership and Rural Development: Implications for Research and Extension*. Washington: Economic Research Service and Extension Service, U.S. Department of Agriculture. 31-39.
 52. Wellar, B. 1985. Introduction to the international sessions at URISA '85. In *Comparative International Assessment of Information Systems and Services in Local Governments*. URISA Conference Proceedings. Vol. III. B. Wellar ed. McLean, VA: Urban and Regional Information Systems Association. 1-6.
 53. Wellar, B. ed. 1985. *Comparative International Assessment of Information Systems and Services in Local Governments*. URISA Conference Proceedings. Vol. III. McLean, VA: Urban and Regional Information Systems Association.
 54. Wellar, B. 1985. The significance of automated cartography to an information society. In *Cartographica*. Vol. 22, No. 4. 38-50.
 55. Wellar, B. and D. Steen. 1985. Information systems and local government performance: Overview and prospective of the Canadian situation. In *Comparative International Assessment of Information Systems and Services in Local Governments*. URISA Conference Proceedings. Vol. III. B. Wellar ed. McLean, VA: Urban and Regional Information Systems Association. 18-38.
 56. Wellar, B. 1988. Incorporating the policy dimension in local government information systems: Getting our priorities right. In *URISA Proceedings*, Vol. IV. 142-12.
 57. Wellar, B. 1988. Institutional maxims and conditions for needs-sensitive information systems and services in local governments. In *URISA Proceedings*, Vol. IV. 371-378.
 58. Wellar, B. 1988. A framework for research in the information technology field. In *URISA Proceedings*, Vol. IV. 379-386.

59. Wellar, B. 1988. Selected current activities in information technology (IT) research: The local government dimension. In *Plan Canada*.28:4. 115-119.
60. Wellar, B. 1989. Emerging trends in structuring and directing GIS research. *Challenge for the 1990s: Geographic Information Systems*. Ottawa: Canadian Institute for Surveying and Mapping, 601-609.
61. Wellar, B. 1989. In truth, what do we know about GIS? *Proceedings of the 1989 URISA Conference, II*: 1-8.
62. Wellar, B. 1989. The changing nature and role of the “geo-factor” and “GIS” in public policy formation. In *Proceedings of SaskGIS '89*. Regina, SK: Central Survey and Mapping Agency, Province of Saskatchewan. 83-94.
63. Wellar, B. 1990. *Land Information Technology (LIT): A Key Ingredient for Sustainable Development*. Ottawa: Commonwealth Association of Planners.
64. Wellar, B. 1990. Politicians and information technology. *Computers, Environment and Urban Systems*. 14: 1-4.
65. Wellar, B. 1990. Science, applications, coherence and GIS; Seizing the moment. In *GIS/LIS Proceedings*. Vol.2. 854-871.
66. Wellar, B. 1990. Use and transfer of information technology for planning in the Commonwealth. In *GIS Seminar: The coming of a New Decade – What Have We Learned from the '80s?* Toronto: Ontario Ministry of Natural Resources and Canadian Institute of Surveying and Mapping. 169-178.
67. Wellar, B., D. Parr and R. Somers. eds. 1990. *Introduction to Geographic Information Systems*. Washington, DC: Urban and Regional Information Systems Association.
68. Wellar, B. 1992. On standards. In *Journal of the Urban and Regional Information Systems Association*. Vol. 4, No.1, Spring. 2-5.
69. Wellar, B. and B. Harris. 1992. Information and knowledge bases for decision-making: A progress report. In *IS/GIS/LIS in Public Policies, Plans and Programs: Thirty Years in Perspective*. B. Wellar and D. Parr eds. Washington, D.C.: Urban and Regional Information Systems Association. 85-105.
70. Wellar, B. and R. Smith. 1992. A progress report on public policy objectives achieved through IS/GIS/LIS. In *IS/GIS/LIS in Public Policies, Plans and Programs: Thirty Years in Perspective*. B. Wellar and D. Parr eds. Washington. D.C.: Urban and Regional Information Systems Association. 117-144.
71. Wellar, B, W. Craig and S. McCrary. 1992. URISA '92 and the research agenda: What we know and what we need to know. *URISA Journal*, 5(1):105-115.
72. Wellar, B. and D. Parr. 1992. IS/GIS progress in perspective: The rationale and terms of reference for a major bench-marking. In *IS/GIS/LIS and Public Policies, Plans and Programs: Thirty Years in Perspective*. B. Wellar and D. Parr eds., Washington, D.C: Urban and Regional Information Systems Association. 1-14.
73. Wellar, B. and D.Parr eds. 1992. *IS/GIS/LIS in Public Policies, Plans and Programs: Thirty Years in Perspective*. Washington, D.C.: Urban and Regional Information Systems Association.
74. Wellar, B. 1993. Benchmarking IS/GIS/LIS progress: The contributions of “Perspectives '92”. In *Journal of the Urban and Regional Information Systems Association*. Vol. 5, No. 1, Spring. 84-91.

75. Wellar, B. 1993. GIS fundamentals. In *Profiting from a Geographic Information System*. G. Castle (ed.) Fort Collins, Co.: GIS World Books. Chapter 1, 3-21.
76. Wellar, B. 1993. GIS/LIS '93 : Hungary: Documenting progress towards European integration of GIS/LIS technology and information bases to support decision-making. In *Computers, Environment and Urban Systems*, Vol. 17, No. 6. 453-467.
77. Wellar, B. 1993. *Survey of Selected Canadian Municipalities on Road Freight (Trucking) Issues, Concerns, Approaches and Electronic Technology Applications*. Ottawa: Canadian Trucking Research Institute.
78. Wellar, B. ed. 1993. Mapping the future: Leading the way in Central and Eastern Europe. *Special Issue of Computers, Environment and Urban Systems*, Vol. 17, No. 3, 187-283.
79. Wellar, B. 1993. Designing a program to assist the 'East-West' sharing of GIS/LIS ideas, technologies, and applications. In *Computers, Environment and Urban Systems*, Vol. 17, No.3. 187-188.
80. Wellar, B. 1993. Key institutional and organizational factors affecting GIS/LIS strategies and applications. *Computers, Environment and Urban Systems*. Vol. 17, No. 3. 201-212.
81. Wellar, B. and P. Wilson. 1993. Contributions of GIS concepts and capabilities to scientific inquiry: Initial findings. In *GIS/LIS Proceedings*. Vol.2. 753-767.
82. Wellar, B., 1994. Program objectives for GIS/LIS '94 Central Europe. In *Building Linkages*. Fort Collins, CO: GIS World Books, 227-231.
83. Wellar, B., N. Cameron and M. Sawada. 1994. Progress in building linkages between GIS and methods and techniques of scientific inquiry. In *Computers, Environment and Urban Systems*, Vol. 18, No. 2, 67-80.
84. Wellar, B., and A. Daroszewski. 1994. *GIS Implementation: Lessons Learned*. Budapest: Hungarian Society for Surveying, Mapping and Remote Sensing.
85. Wellar, B. and P. Wilson. 1994. GIS in social science research and action initiatives: An hypothesis-based progress report. In *GIS/LIS Proceedings*, 803-817.
86. Wellar, B. and D. Parr. eds. 1994. *Introduction to Geographic Information Systems*. Revised. Washington, DC: Urban and Regional Information Systems Association
87. Wellar, B. 1995. Evaluating information systems performance using informational activity criteria. In *URISA Proceedings*, 97-111.
88. Wellar, B. 1995. Geomatics education and training, 1995-2000: Trends, issues, opportunities and challenges. In *Geomatica*, 49(3): 336-340.
89. Wellar, B. 1995. Program objectives for GIS/LIS '94 - Central Europe. In *Building Linkages: Proceedings of the GIS/LIS-Central Europe Conference*. Fort Collins, CO: GIS World Books. 227-231.
90. Wellar, B. and P. Wilson. 1995. Impact of GIS on spatial theorizing: A status and progress report. In *GIS/LIS Proceedings*, vol. 2, 1026-1036.
91. Wellar, B. and N. Cameron. 1996. Use of accessibility indicators and GIS to support location decisions: Results from a case study of selected agencies and firms in Canada. In *Canadian Geomatics Conference Proceedings*. Ottawa: Natural Resources Canada. CD-ROM #41(1-15).

92. Wellar, B. and D. Parr. eds. 1996. *Introduction to Geographic Information Systems*. Revised. Washington, DC: Urban and Regional Information Systems Association.
93. Wellar, B., J. Soroko and M. Sawada. 1996. Criteria for defining and designing information systems that actually and effectively incorporate qualitative, quantitative and visualization procedures of spatial logic and relations. In *Canadian Geomatics Conference Proceedings*. Ottawa: Natural resources Canada. CD-ROM Paper /47 (1-14).
94. Wellar B., J. Soroko, M. Sawada, and N. Cameron. 1996. Evaluating procedures of spatial logic and relations in GIS packages: Criteria and initial tests. *GIS/LIS Proceedings*. II. 581-590.
95. Wellar, B. 1997. Assessing GIS benefits: The methodology dimension. *GIS/LIS Proceedings*. I. 222-229.
96. Wellar, B. 1997. *Capability of IS/GIS-Based Intersection Applications to Implement the Walking Security Index (WSI): A Preliminary Status and Prospects Assessment*. Interim Report 4. Ottawa: Mobility Services Division, Regional Municipality of Ottawa-Carleton, and Department of Geography, University of Ottawa.
97. Wellar, B. 1997. Integrating intersection feature and performance data using the Walking Security Index (WSI) model. In *URISA '97 Proceedings*. Chicago: Urban and Regional Information Systems Association, CD-ROM publication, 1997.
98. Wellar, B., M. Sawada, N. Cameron, J. Soroko. 1997. *Applying Geographic Information Systems (GIS) To Business*. Park Ridge, Illinois: Urban and Regional Information Systems Association.
99. Wellar, B. ed. 1997. *Municipal Problem-Solving with GIS: Introduction and Demonstration - A Guide for High School Teachers*. Ottawa: University of Ottawa, Department of Geography, High School Teachers Professional Development Program.
100. Wellar, B. 1998. Use of "change detection" as a functionality criterion for evaluating the contribution of geomatics to decision processes. *Geomatica*, 52(4): 462-467.
101. Wellar, B. 1999. *Research Fundamentals*. Nashville, TN: American Chamber of Commerce Researchers Association.
102. Wellar, B., and J. Zhao. 1999. Development of GIS/LIS for cadastral survey and land registration in China: A Status Report. In *Geomatica*, 53 (1). 56-63.
103. Wellar, B. and D. Parr. 1999. *Introduction to Geographic Information Systems*. (Revised) Park Ridge, IL: Urban and Regional Information Systems Association.
104. Wellar, B., D. Parr, *et al.* 2000. *GIS Glossary*. Park Ridge, Illinois: Urban and Regional Information Systems Association.
105. Wellar, B. 2001. Strategies for designing IS/GIS strategies to implement Walking Security Indexes. In *URISA 2001 Proceedings*. Chicago: Urban and Regional Information Systems Association. CD-ROM publication.

106. Wellar, B. 2002. Forty years of vision: Measuring URISA's contribution to IS/GIS/LIS progress. In *URISA 2002 Conference Proceedings*. CD-Rom publication.
107. Wellar, B. 2005. *Geography and the Media: Strengthening the Relationship*. Ottawa: Canadian Royal Geographical Society and the Canadian Council on Geographic Education. www.ccge.ca
108. Wellar, B., S. Herold, and M. Sawada. 2005. Integrating geographic information systems, spatial databases and the Internet: A framework for disaster management. In *Geomatics: Powering the Future*. Proceedings, 98th Conference, Canadian Institute of Geomatics. www.cig-acsg.ca