

Curriculum Vitae

REGINALD G. GOLLEDGE

Date: June 3, 2009

RANK: Professor Abovescale

Visiting Associate Professor
University of Sydney
June–December 1970

DATE OF BIRTH: 12/6/37

MARITAL STATUS: Married

Visiting Associate Professor
University of California, Los Angeles
June–September 1969

NUMBER OF CHILDREN: four

DEGREES:

Ph.D., University of Iowa, 1966

Associate Professor
Ohio State University
1967–1971

**M.A., University of New England
(Australia), 1961**

Visiting Assistant Professor
University of California, Berkeley
June–September 1967

**B.A., (Honors) University of New
England (Australia), 1959**

POSITIONS AND DATES:

Professor of Geography
University of California, Santa Barbara
1977–present

Assistant Professor
Ohio State University
1966–1967

Chairman, Department of Geography
University of California, Santa Barbara
1980–July 1984

Assistant Professor
University of British Columbia, Vancouver
1965–1966

Visiting Professor
University of Auckland
June–December 1976

Research Assistant
Bureau of Business and Economic Research
University of Iowa
1964

Visiting Professor
University of Texas
July–August 1972, 1973, 1975

Lecturer in Geography
University of Canterbury
Christchurch, New Zealand
1961–1963

Professor of Geography
Ohio State University
1971–1977

Senior Demonstrator in Geography
University of New England (Australia)
1959–1960

PROFESSIONAL HONORS:

- 1) Selected to give the 2009 UCSB Faculty Research Lecture
- 2) Elected Fellow of the Regional Science Association International, 2009
- 3) Selected to receive the 2008 Enhancing Diversity Award of the Association of American Geographers.
- 4) Awarded the Lifetime Achievement Honors of the Association of American Geographers for 2007.
- 5) Elected member of the Board of Trustees of the Centre for GIS, Social and Environmental Research (GISSER), Benin City, Nigeria.
- 6) UCSB Outstanding Graduate Mentor Award, 2005-2006.
- 7) Elected as a Fellow of the American Academy of Arts and Sciences, 2005.
- 8) Selected as member of the National Advisory Committee for the Decade of Behavior, 2004-2006.
- 9) Elected President of the Board of Directors of The New Media Studio, 2002
- 10) Grosvenor Medal for Geographic Education, 2002.
- 11) University Consortium of Geographic Information Sciences (UCGIS) Researcher of the Year Award, 2002.
- 12) Distinguished Leadership Award, Southwest Texas State University, 2002.
- 13) NRC "Committee on Thinking Spatially," 2001-2004
- 14) Distinguished Visitor, Canadian Institute for Society and Humanity, 2001.
- 15) The Annual Owen Holmes Lecture, University of Lethbridge, Alberta, Canada, 2001.
- 16) Honorary Ph.D., Göteborg University, Sweden, 2001.
- 17) Honorary LL.D., Simon Fraser University, Canada, 2001.
- 18) Distinguished Academic Alumni Award, College of Liberal Arts, The University of Iowa, 2001.
- 19) 1998-2001: Vice President, President, and Past President of the Association of American Geographers.
- 20) Elected Fellow of the Southwest Texas University Gilbert Grosvenor Center for Geographic Education, 2000
- 21) Institute of Australian Geographers International Geographers Gold Medal, 2000.
- 22) "The Tech 20: Academia's Twenty Most Wired." *Lingua Franca*, July/August 1999.

- 23) Inaugural Arthur Robinson Lecture Series, Ohio State University, 1997.
- 24) Marschak Distinguished Lecture, University of California Los Angeles, Los Angeles, CA, 1997.
- 25) Inaugural Lecture for the Clyde Kohn Symposium Series, University of Iowa, 1995.
- 26) Elected Fellow, American Association for the Advancement of Science, 1990.
- 27) Honorary Lifetime Member Institute of Australian Geographers, 1989.
- 28) Guggenheim Fellow, 1987-88.
- 29) Inaugural Speaker at dedication of Urban Studies Institute, Universidad Complutense, Madrid, Spain, May, 1987.
- 30) Association of American Geographers Academic Honors Award, 1981.

PUBLISHED WORK:

BOOKS

- Amedeo, D., Golledge, R. G., & Stimson, R. J. (2009). *Person-Environment-Behavior Research: Investigating Activities and Experiences in Spaces and Environments*. New York: Guilford Press.
- Golledge, R. G. (Ed.). (1999). *Wayfinding Behavior: Cognitive Mapping and Other Spatial Processes*. Baltimore, MD: Johns Hopkins University Press.
- Egenhofer, M. J., & Golledge, R. G. (Eds.). (1998). *Spatial and Temporal Reasoning in Geographic Information Systems*. New York: Oxford University Press.
- Golledge, R. G., & Stimson, R. J. (1997). *Spatial Behavior: A Geographic Perspective*. New York: Guilford Press.
- Gärling, T., & Golledge, R. G. (Eds.). (1993). *Behavior and Environment: Psychological and Geographical Approaches*. Amsterdam: North Holland, Elsevier Science Publishers.
- Golledge, R. G., Couclelis, H., & Gould, P. (Eds.). (1988). *A Ground for Common Search*. Goleta, CA: The Santa Barbara Geographical Press.
- Golledge, R. G., & Timmermans, H. (Eds.). (1988). *Behavioural Modelling in Geography and Planning*. London: Croom Helm.
- Golledge, R. G., & Stimson, R. (1987). *Analytical Behavioural Geography*. London: Croom Helm.
- Golledge, R. G., & Rayner, J. N. (Eds.). (1982). *Proximity and Preference: Problems in the Multidimensional Analysis of Large Data Sets*. Minneapolis, MN: University of Minnesota Press.
- Cox, K. R., & Golledge, R. G. (Eds.). (1981). *Behavioral Problems in Geography Revisited*. New York: Methuen. Translated into Japanese, 1986.
- King, L. J., & Golledge, R. G. (1978). *Cities, Space and Behavior*. Englewood Cliffs, NJ: Prentice-Hall.
- Moore, G. T., & Golledge, R. G. (Eds.). (1976). *Environmental Knowing: Theories, Research and Methods*. Stroudsburg, PA: Dowden, Hutchinson & Ross. Paperback edition, 1978.
- Golledge, R. G., & Rushton, G. (Eds.). (1976). *Spatial Choice and Spatial Behavior*. Columbus, OH: Ohio State University Press.
- Amedeo, D., & Golledge, R. G. (1975). *An Introduction to Scientific Reasoning in Geography*. New York: John Wiley and Sons. 2nd printing by Krieger, Melbourne, FL, 1986.
- Cox, K. R., & Golledge, R. G. (Eds.). (1969). *Behavioral Problems in Geography: A Symposium*. Evanston, IL: Northwestern University Press.
- Johnston, W. B., Golledge, R. G., King, L. J., & Williman, A. (Eds.). (1965). *Traffic in a New Zealand City*. Christchurch, New Zealand: Christchurch Regional Planning Authority.

CHAPTERS IN BOOKS

PENDING

(Submitted)

Golledge, R., & Rice, M. (Submitted). Tactile maps as mobility aids. In M. Monmonier (Ed.), *Cartography in the Twentieth Century* (Vol. 6).

2009

Golledge, R. (2009). The future of spatial analysis. In S. Fotheringham & P. A. Rogerson (Eds.), *Handbook of Spatial Analysis*: Sage Publications.

2008

Battersby, S. E., & Golledge, R. (2008). Spatial cognition & GIS. In K. Kemp (Ed.), *Encyclopedia of Geographic Information Science* (pp.398-400). Thousand Oaks, CA: S.

Battersby, S. E., Golledge, R., & Marsh, M. (2008). Development of abstract and real-world understanding of geospatial concepts. In A. Bailly, L. Gibson & K. Haynes (Eds.), *Applied Geography for the Entrepreneurial University* (pp. 151-159). Paris, France: Economica.

Marsh, M. J., Golledge, R., & Battersby, S. E. (2008). Grade-Related Differences in Geospatial Concept Recognition: Spatial Relationship Terms. In A. Bailly L. Gibson & K. Haynes (Eds.), *Applied Geography for the Entrepreneurial University* (pp. 160-168). Paris, France: Economica.

2007

Golledge, R. (2007). Building on the Down Under experience. In L. J. King (Ed.), *North American Explorations: Ten Memoirs of Geographers from Down Under*. (pp. 18-35). Victoria, BC: Trafford Publishing.

Loomis, J. M., Klatzky, R. L., Avraamides, M. N., Lippa, Y., & Golledge, R. G. (2007). Functional equivalence of spatial images produced by perception and spatial language. In F. W. Mast & L. Jäncke (Eds.), *Spatial Processing in Navigation, Imagery and Perception* (pp. 29-48): Springer.

Allen, G. L., & Golledge, R. (2007). Wayfinding in urban environments. In T. Gärling & L. Steg (Eds.), *Threats from Car Traffic to the Quality of Urban Life: Problems, Causes, and Solutions* (pp. 79-101). Amsterdam, The Netherlands: Elsevier

Loomis, J. M., Golledge, R. G., Klatzky, R. L., & Marston, J. R. (2007). Assisting wayfinding in visually impaired travelers. In G. L. Allen (Ed.), *Applied Spatial Cognition: From research to cognitive technology* (pp. 179-202). Mahwah NJ: Lawrence Erlbaum Associates.

2006

Cutter, S. L., Golledge, R. G., & Graf, W. L. (2006 [reprint]). The big questions in geography. In G. R. Pitzl (Ed.), *Annual Editions, Geography* (21st ed., pp. 2-10). Dubuque, IA: McGraw Hill/Dushkin.

Golledge, R. G., Rice, M., & Jacobson, R. D. (2006). Multimodal interfaces for representing and accessing geospatial information. In S. Rana & J. Sharma (Eds.), *Frontiers of Geographic Information Technology* (pp. 181-208). Berlin and New York: Springer-Verlag.

2005

Chapters in Books, cont'd.

- Golledge, R. G. (2005). Philosophical bases of behavioral research in geography. In S. Aitken & G. Valentine (Eds.), *Approaches to Human Geography* (pp. 75-85). London: Sage Press.
- Rice, M., Jacobson, R. D., Golledge, R. G., & Jones, D. (2005). Cartographic data and design considerations for haptic and auditory map interfaces. In *Proceedings of Auto-Carto 2005: A Research Symposium. Las Vegas, Nevada, March 18-23, 2005*.
- Golledge, R. G. (2005). Cognitive Maps. In K. Kempf-Leonard (Ed.), *Encyclopedia of Social Measurement, Volume 1* (pp. 329-339). San Diego, CA: Elsevier Inc.
- Cutter, S. L., Golledge, R. G., & Graf, W. L. (2005 [reprint]). The big questions in geography. In G. R. Pitzl (Ed.), *Annual Editions, Geography* (20th ed., pp. 2-10). Dubuque, IA: McGraw Hill/Dushkin.

2004

- Golledge, R. (2004, Reprint). Community outreach, October 1999. In M. D. Nellis, J. Monk & S. L. Cutter (Eds.), *Presidential Musings from the Meridian: Reflections on the Nature of Geography by Past Presidents of the Association of American Geographers* (pp. 50-54). Morgantown, WV: West Virginia University Press.
- Golledge, R. (2004, Reprint). Moving on up to "the big time?" In M. D. Nellis, J. Monk & S. L. Cutter (Eds.), *Presidential Musings from the Meridian: Reflections on the Nature of Geography by Past Presidents of the Association of American Geographers* (pp. 176-177). Morgantown, WV: West Virginia University Press.
- Golledge, R. (2004, Reprint). NEVER be ashamed of being a Geographer. In M. D. Nellis, J. Monk & S. L. Cutter (Eds.), *Presidential Musings from the Meridian: Reflections on the Nature of Geography by Past Presidents of the Association of American Geographers* (pp. 221-224). Morgantown, WV: West Virginia University Press.
- Golledge, R. (2004, Reprint). Some basic survival skills in the academic jungle. In M. D. Nellis, J. Monk & S. L. Cutter (Eds.), *Presidential Musings from the Meridian: Reflections on the Nature of Geography by Past Presidents of the Association of American Geographers* (pp. 89-92). Morgantown, WV: West Virginia University Press.
- Golledge, R. (2004, Reprint). Using our human resources. In M. D. Nellis, J. Monk & S. L. Cutter (Eds.), *Presidential Musings from the Meridian: Reflections on the Nature of Geography by Past Presidents of the Association of American Geographers* (pp. 105-109). Morgantown, WV: West Virginia University Press.
- Golledge, R. G., & Gärling, T. (2004). Cognitive maps and urban travel. In D. Hensher, K. Button, K. Haynes & P. Stopher (Eds.), *Handbook of Transport Geography and Spatial Systems* (Vol. 5, pp. 501-512). Amsterdam: Elsevier.
- Golledge, R. G. (2004). Spatial cognition. In C. Spielberger (Ed.), *Encyclopedia of Applied Psychology* (pp. 443-452). Amsterdam: Elsevier Ltd.
- Golledge, R. G. (2004). Disability, Disadvantage, and Discrimination: An Overview with Special Emphasis on Blindness in the USA. In A. Bailly & L. Gibson (Eds.), *Applied Geography: A World Perspective* (pp. 213-232). Dordrecht: Kluwer Academic Publishers.

Chapters in Books, cont'd.

- Golledge, R. G. (2004). Human wayfinding. In A. Bailly & L. Gibson (Eds.), *Applied Geography: A World Perspective* (pp. 233-252). Dordrecht: Kluwer Academic Publishers.
- Golledge, R. G. (2004). Learning geography in the absence of sight. In B. Warf, D. Janelle & K. Hansen (Eds.), *WorldMinds: Geographical Perspectives on 100 Problems* (pp. 93-98). Dordrecht: Kluwer Academic Publishers.
- Golledge, R. G. (2004). Multidisciplinary opportunities and challenges in NBIC. In M. C. Roco & C. D. Montemagno (Eds.), *The Coevolution of Human Potential and Converging Technologies. Volume 1013 of the Annals of the New York Academy of Sciences* (pp. 199-211). New York: New York Academy of Sciences and Annals Online www.annalsnyas.org.

2003

- Rice, M. T., Jones, D., Golledge, R. G., & Jacobson, R. D. (2003). Progress in multimodal cartographic interfaces: Symbolization and examples. In D. Danta (Ed.), *Yearbook of the Association of Pacific Coast Geographers* (Vol. 65, pp. 133). Honolulu: The University of Hawaii Press.
- Golledge, R. G. (2003). Spatial cognition and converging technologies. In M. C. Roco & W. S. Bainbridge (Eds.), *Converging Technologies for Improving Human Performance* (pp. 122-140). London & Boston: Kluwer Academic Publishers.
- Amedeo, D., & Golledge, R. G. (2003). Environmental perception and behavioral geography. In G. Gaile & C. Willmott (Eds.), *Geography in America at the Dawn of the 21st Century* (pp. 133-148). Oxford & New York: Oxford University Press.
- Golledge, R. G. (2003). Human wayfinding and cognitive maps. In M. Rockman & J. Steele (Eds.), *Colonization of Unfamiliar Landscapes: The Archaeology of Adaptation* (pp. 25-43). London & New York: Routledge.
- Golledge, R. G., & Gärling, T. (2003). Spatial behavior in transportation modeling and planning. In K. Goulias (Ed.), *Transportation Systems Planning: Methods and Applications* (Chapter 3, pp. 1-27). Boca Raton, FL: CRC Press.
- Golledge, R. G. (2003). Cognitive maps. In R. Fernandez-Ballesteros (Ed.), *Encyclopedia of Psychological Assessment* (Vol. 1, pp. 223-227). London: SAGE Publications.

2002

- Jacobson, R.D. Kitchin, R.M., and Golledge R.G. (2002) Multimodal virtual reality for presenting geographic information. In Fisher, P. and Unwin, D. (eds) *Virtual Reality in Geography*. Taylor and Francis, London, pp. 382-400
- Golledge, R. G. (2002). Dynamics and ITS: Behavioral responses to information available from ATIS. In H. S. Mahmassani (Ed.), *In Perpetual Motion: Travel Behavior Research Opportunities and Application Challenges* (pp. 81-126). New York: Pergamon.
- Klatzky, R. L., Loomis, J., & Golledge, R. (2002). Nonvisual navigation based on information about self-motion. In L. Backman & C. v. Hoftsten (Eds.), *Psychology at the Turn of the Millennium, Volume 1: Cognitive, Biological, and Health Perspectives* (pp. 245-260). New York: Taylor & Francis.
- Golledge, R. G. (2002). You don't have to have sight to have vision. In P. Gould & F. R. Pitts (Eds.), *Geographical Voices* (pp. 124-148). Syracuse, NY: Syracuse University Press.
- Cox, K. R., & Golledge, R. G. (2002). Behavioral models in geography. In M. J. Dear & S. Flusty (Eds.), *The Spaces of Postmodernity: Readings in Human Geography* (pp. 46-51). Oxford, UK: Blackwell Publishers Ltd.

Chapters in Books, cont'd.

Golledge, R. G. (2002). The open door of GIS. In R. B. Bechtel & A. Churchman (Eds.), *Handbook of Environmental Psychology* (pp. 244-255). New York: John Wiley & Sons.

2001

Golledge, R. G. (2001). Behavioral Geography. In N. J. Smelser & P. B. Baltes (Eds.), *International Encyclopedia of the Social and Behavioral Sciences* (pp. 1105-1111). Oxford: Pergamon.

Loomis, J. M., Golledge, R. G., & Klatzky, R. L. (2001). GPS-based navigation systems for the visually impaired. In W. Barfield & T. Caudell (Eds.), *Fundamentals of Wearable Computers and Augmented Reality* (pp. 429-446). Mahway, NJ: Erlbaum.

Gärling, T., & Golledge, R. G. (2000). Cognitive mapping and spatial decision-making. In R. Kitchin & S. Freundschuh (Eds.), *Cognitive Mapping: Past, Present, and Future* (pp. 44-65). London: Routledge.

Self, C. M., & Golledge, R. G. (2000). Sex, gender, and cognitive mapping. In R. Kitchin & S. Freundschuh (Eds.), *Cognitive Mapping: Past, Present, and Future* (pp. 197-220). London and New York: Routledge.

Loomis, J. M., Klatzky, R. L., & Golledge, R. G. (1999). Auditory distance perception in real, virtual, and mixed environments. In Y. Ohta & H. Tamura (Eds.), *Mixed Reality: Merging Real and Virtual Worlds* (pp. 201-214). Tokyo: Ohmsha, Ltd.

Golledge, R. G. (1999). Human wayfinding and cognitive maps. In R. G. Golledge (Ed.), *Wayfinding Behavior: Cognitive Mapping and Other Spatial Processes* (pp. 5-45). Baltimore, MD: The Johns Hopkins University Press.

Loomis, J. M., Klatzky, R. L., Golledge, R. G., & Philbeck, J. W. (1999). Human navigation by path integration. In R. G. Golledge (Ed.), *Wayfinding Behavior: Cognitive Mapping and Other Spatial Processes* (pp. 125-151). Baltimore, MD: The John Hopkins University Press.

Jacobson, D., Kitchin, R., Gärling, T., Golledge, R., & Blades, M. (1998). Learning a complex urban route without sight: Comparing naturalistic versus laboratory measures. In *Proceedings, Mind III: Annual Conference of the Cognitive Science Society of Ireland, University College, Dublin, August 18, 1998*. Dublin: University College.

Kwan, M.-P., Golledge, R. G., & Speigle, J. (1998). Information Representation for Driver Decision Support Systems. In T. Gärling, T. Laitila, & K. Westin (Eds.), *Theoretical Foundations of Travel Choice Modeling* (pp. 281-303). Oxford: Pergamon.

Klatzky, R. L., Loomis, J. M., & Golledge, R. G. (1997). Encoding spatial representations through nonvisually guided locomotion: Tests of human path integration. In D. L. Medin (Ed.), *The Psychology of Learning and Motivation: Advances in Research and Theory* (Vol. 37, pp. 41-84). San Diego, CA: Academic Press.

Golledge, R. G. (1997). What's so spatial about special? Geographic learning and special populations: The case of blind or vision impaired people. In R. G. Boehm & J. F. Peterson (Eds.), *The First Assessment: Research in Geographic Education* (pp. 200-224). San Marcos, TX: Gilbert M. Grosvenor Center for Geographic Education, Southwest Texas State University.

Chapters in Books, cont'd.

- Kwan, M.-P., & Golledge, R. G. (1997). Computational process modeling of disaggregate travel behaviour. In M. M. Fischer & A. Getis (Eds.), *Recent Developments in Spatial Analysis: Spatial Statistics, Behavioural Modelling and Computational Intelligence* (pp. 171-185). Berlin: Springer-Verlag.
- Golledge, R. G. (1997). Defining the criteria used in path selection. In D. F. Ettema & H. J. P. Timmermans (Eds.), *Activity-Based Approaches to Travel Analysis* (pp. 151-169). New York: Elsevier.
- Bisonó, A. M., Bell, S. M., & Golledge, R. G. (1997). Sex differences in spatial ability during overlay tasks, *SARI '97, Proceedings of the SARI Research Colloquium, August 14-15 1997*. Santa Barbara, CA: University of California at Santa Barbara.
- Golledge, R. G., Klatzky, R. L., & Loomis, J. M. (1996). Cognitive mapping and wayfinding by adults without vision. In J. Portugali (Ed.), *The Construction of Cognitive Maps* (pp. 215-246). Dordrecht, The Netherlands: Kluwer Academic Publishers.
- Golledge, R. G. (1995). Path selection and route preference in human navigation: A progress report. In A. U. Frank & W. Kuhn (Eds.), *Spatial Information Theory: A Theoretical Basis for GIS. Proceedings, International "Conference on Spatial Information and Theory" (COSIT '95), Semmering, Austria, September*. New York: Springer. Also printed as a University of California Transportation Center Work Paper, UCTC No. 277.
- Golledge, R. G. (1995). Primitives of spatial knowledge. In T. Nyerges, D. Mark, R. Laurini, & M. Egenhofer (Eds.), *Cognitive Aspects of Human-Computer Interaction for Geographic Information Systems* (pp. 29-44). Dordrecht, Netherlands: Kluwer Academic Publishers.
- Gärling, T., & Golledge, R. G. (1993). Understanding behavior and environment: A joint challenge to psychology and geography. In T. Gärling & R. G. Golledge (Eds.), *Behavior and Environment: Psychological and Geographical Approaches* (pp. 1-15). Amsterdam: North Holland, Elsevier Science Publishers.
- Golledge, R. G. (1993). Geographical perspectives on spatial cognition. In T. Gärling & R. G. Golledge (Eds.), *Behavior and Environment: Psychological and Geographical Approaches* (pp. 16-45). Amsterdam: Elsevier Science Publishers.
- Golledge, R. G. (1992). Do people understand spatial concepts? The case of first-order primitives. In A. U. Frank, I. Campari, & U. Formentini (Eds.), *Theories and Methods of Spatio-Temporal Reasoning in Geographic Space. International Conference GIS-From space to territory: Theories and methods of spatio-temporal reasoning. Pisa, Italy, September 21-23, Proceedings* (pp. 1-21). New York: Springer-Verlag.
- Golledge, R. G. (1992). Environmental cognition. In B. Wilpert, H. Motoaki, & J. Misumi (Eds.), *General Psychology and Environmental Psychology: Proceedings of the 22nd International Congress of Applied Psychology* (Vol. 2, pp. 351-355). Hove, UK: Lawrence Erlbaum.
- Golledge, R. G. (1991). Cognition of physical and built environments. In T. Gärling & G. Evans (Eds.), *Environment, Cognition, and Action: An Integrated Approach* (pp. 35-62). New York: Oxford University Press.

Chapters in Books, cont'd.

- Golledge, R. G. (1991). Special populations in contemporary urban areas. In J. F. Hart (Ed.), *Our Changing Cities* (pp. 146-169). Baltimore: The Johns Hopkins University Press.
- Golledge, R. G. (1990). The conceptual and empirical basis of a general theory of spatial knowledge. In M. M. Fischer, P. Nijkamp, & Y. Y. Papageorgiou (Eds.), *Spatial Choices and Processes* (pp. 147-168). North-Holland: Elsevier Science Publishers B.V.
- Odland, J., Golledge, R. G., & Rogerson, P. A. (1989). Mathematical and statistical analysis in human geography. In G. L. Gaile & C. J. Wilmott (Eds.), *Geography in America* (pp. 719-745). Columbus, OH: Merrill Publishing Company.
- Gärling, T., & Golledge, R. G. (1989). Environmental perception and cognition. In E. H. Zube & G. T. Moore (Eds.), *Advances in Environment, Behavior, and Design, Volume 2* (pp. 203-236). New York: Plenum Press.
- Gärling, T., Brännäs, K., Garvill, J., Golledge, R. G., Gopal, S., Holm, E., et al. (1989). Household activity scheduling. In *Transport Policy Management and Technology Towards 2001: Selected Proceedings of the Fifth World Conference on Transport Research, Volume IV* (pp. 235-248). Ventura, CA: Western Periodicals.
- Golledge, R. G. (1988). Editor's preface. In R. G. Golledge, H. Couclelis, & P. Gould (Eds.), *A Ground For Common Search* (pp. i-ii). Santa Barbara, CA: Santa Barbara Geographical Press.
- Golledge, R. G. (1988). Science and humanism in geography: Multiple realities. In R. G. Golledge, H. Couclelis, & P. Gould (Eds.), *A Ground for Common Search*. Santa Barbara, CA: Santa Barbara Geographical Press.
- Golledge, R. G., & Timmermans, H. (1988). Editors' introduction. In R. G. Golledge & H. Timmermans (Eds.), *Behavioural Modelling in Geography and Planning* (pp. xix-xxviii). London: Croom Helm.
- Golledge, R. G., Halperin, W. C., & Hubert, L. (1988). Evaluating models of consumer spatial behavior. In R. G. Golledge & H. Timmermans (Eds.), *Behavioural Modelling in Geography and Planning* (pp. 38-55). London: Croom Helm.
- Golledge, R. G., Richardson, G. D., & Gale, N. D. (1987). Cognitive images of the city. In C. S. Yadav (Ed.), *Perceptual and Cognitive Images of the City* (pp. 213-252). New Delhi, India: Concept Publishing Co.
- Golledge, R. G. (1987). Environmental cognition. In D. Stokols & I. Altman (Eds.), *Handbook of Environmental Psychology, Volume 1* (pp. 131-174). New York: John Wiley and Sons.
- Golledge, R. G. (1985). The role of government in the development of economic impact issues: Government responsibilities and legislative actions. In R. Stimson & R. Sanderson (Eds.), *Assessing the Economic Impact of Retail Centres: Issues, Methods, and Implications for Government Policy* (pp. 28-36): A.I.U.S. Publication No. 122.
- Golledge, R. G. (1985). Issues in economic impact and retail development: General concepts of externality, equity, efficiency, and social justice. In R. Stimson & R. Sanderson (Eds.), *Assessing the Economic Impact of Retail Centres: Issues, Methods, and Implications for Government Policy* (pp. 37-44): A.I.U.S. Publication No. 122.

Chapters in Books, cont'd.

- Golledge, R. G. (1985). General principles and approaches to economic impact assessment. In R. Stimson & R. Sanderson (Eds.), *Assessing the Economic Impact of Retail Centres: Issues, Methods, and Implications for Government Policy* (pp. 98-105): A.I.U.S. Publication No. 122.
- Golledge, R. G. (1985). Overview of shopping centre and other retail developments: History and problems of the 1980s. In R. Stimson & R. Sanderson (Eds.), *Assessing the Economic Impact of Retail Centres: Issues, Methods, and Implications for Government Policy* (pp. 12-27): A.I.U.S. Publication No. 122.
- Downs, R. M., & Golledge, R. G. (1985). Behavioral geography. In C. Harris (Ed.), *Geographical Bibliography for American Libraries* (pp. 140-143). Washington, DC: The Association of American Geographers.
- Golledge, R. G., & Rushton, G. (1984). A review of analytic behavioural research in geography. In D. T. Herbert & R. J. Johnston (Eds.), *Geography in the Urban Environment: Progress in Research and Applications, Vol. VI* (pp. 1-43). New York: John Wiley & Sons.
- Golledge, R. G., & Couclelis, H. (1984). Positivist philosophy and research on human spatial behavior. In T. F. Saarinen, D. Seamon, & J. L. Sell (Eds.), *Environmental Perception and Behavior: An Inventory and Prospect. University of Chicago, Department of Geography Research paper No. 209* (pp. 179-190). Chicago: University of Chicago Press.
- Hubert, L. J., Golledge, R. G., Costanzo, C. M., & Gale, N. (1985). Order-dependent measures of correspondence for comparing proximity matrices and related structures. In P. Nijkamp, H. Leitner, & N. Wrigley (Eds.), *Measuring the Unmeasurable* (pp. 399-424). Dordrecht: Martinus Nijhoff Publishers.
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- American Investment in Australia Industry (by D. Brash) *Pacific Affairs*, October 1967
- Market Potential and Economic Shadow (by M. Ray) *The Canadian Geographer*, 1966
- Australia (by M. Berney) *Pacific Affairs*, 1965
- Queensland Industrial Enigma (by M. Gough, et al.) *Pacific Affairs*, 1965–66
- Economic Geography (by J. Alexander) *The New Zealand Geographer*, 1964
- A Regional Geography of South Australia (by D. Harris & D. Lea) *The New Zealand Geographer*, 1963

RESEARCH GRANTS RECEIVED

\$20,000 from UCTC for *Assessing Route Accessibility for Wheelchair Users*, 8/1/2004-7/31/05. #SA4655

\$10,301 from UCSB Academic Senate, Council on Research and Instructional Resources for *Assessing Route Accessibility for Wheelchair Users*, fiscal year 2004-2005.

\$7,200 from UCSB Academic Senate, Council on Research and Instructional Resources. Faculty Research Grant for *A Spatial Concept-Based Minimal Geographic Information System*, fiscal year 2003-4.

\$337,561 from NSF for *Spatial Thinking*, 3/1/2003-2/28/2006.

\$7,800 from UCSB Academic Senate, Committee on Research, for *Spatial Thinking and Reasoning*, fiscal year 2002-3.

\$2,241,610 (UCSB subcontract=\$520,269) from Department of Education for *Wayfinding Technologies for People with Visual Impairments: Research and Development of an Integrated Platform*, December 2001-November 2006 (with Loomis).

\$25,763 from NSF for *Collaborative Research: Individual's Spatial Abilities and Behavior in Transportation Networks* 5/15/00-4/30/02 (Collaborative Research with MIT). #BCS-0083110

\$7,500 from UCTC for *Empirical Measurement of Barriers to Public Transit for the Vision-Impaired and the Use of Remote Infrared Auditory Signage for Mitigation* 7/1/00-7/31/02 (Co-PI: Marston/Golledge). Rec#20011171; - 18814

\$54,527 from UCTC for *Real-time Travel Data Collection System Augmented with Speech Interface* 8/1/01-7/31/02 (with Zhou). #SB020032

\$152,346 from NSF for *Transcending the Digital Divide* 1/15/01-12/31/01 (with Jacobson at Florida State University). #HRD-0099261/0137944

\$32,771 from the University of California Transportation Center for *GIS-Based Data Handling for Activity Based Modeling* 1/1/00-9/30/00 (with Zhou).

\$10,964 from NSF for *Geography in the 21st Century* workshop. 7/1/99-6/30/00. #21876

\$45,546 from the University of California Transportation Center *Towards an Accessible City: Removing Functional Barriers for the Blind and Vision Impaired* 8/1/98-7/31/00.

\$132,753 from NSF for *Off-Route Strategies in Non-Visual Navigation*. 3/15/99-2/29/00 (with Blades, Kitchin, and Jacobson). #BCS-9818545

\$45,500 from UCSB Office of Research for *Haptic Soundscapes: Making Maps, Tables and Graphs Accessible to Visually Impaired People*. 9/1/98-8/31/00 (with Jacobson, Hegarty, Kuchera-Morin, Pope, and Costanzo)

\$48,524 from NSF for *Transitions from Childhood to the Workplace* workshop 7/1/99-7/1/00 (Co-PI: Goodchild/Golledge). #SBR9600465

\$627,957 from National Eye Institute for *Navigating without Vision: Basic and Applied Research*. 4/1/99-3/31/03 (Co-PI: Loomis/Golledge/Klatzky)

Research Grants Received, contd.

\$10,000 from the College of Letters and Science for *Development of a National Geography Learning Network*. 1999

\$10,000 from the Office of Research for *Development of a National Geography Learning Network*. 1999

\$4,000 from the Academic Senate for *The Use of Global Positioning Systems (GPS) in Travel Behavior Studies*. 1998-1999

\$66,256 from the University of California Transportation Center *Towards an Accessible City: Removing Functional Barriers for the Blind and Vision Impaired: A Case for Auditory Signs*, 8/1/98-7/31/99 (with Marston). #18811

\$2,926.88 from the Academic Senate *Departmental TA Training for Geography 500*, 7/13/98 - 4/30/99

\$7,903.75 from the Academic Senate for *Cognitive Maps and Data Models*, 6/10/97-6/30/98

\$165.78 from Instructional Development, 4/14/97 - 4/30/98

\$113,404 from California Partners for Advanced Transit and Highways (PATH) for *Assistive Devices and Services for the Disabled: Auditory Signage and the Accessible City for Blind or Vision Impaired Travelers (MOU 276)*, and *Towards an Accessible City: Removing Functional Barriers to Independent Travel for Blind and Vision Impaired Residents and Visitors (MOU 343)* 1/01/97 - 6/30/98. #444032-18871

\$2,299,774 from NSF for *Social, Behavioral and Economic Research/Geography and Regional Sciences*, (with Goodchild, Estes, Couclelis, and Church) 1997-2000. #SBR-9600465

\$3045.41 from Instructional Development for *Departmental TA Training for Geography 500*, 9/30/96 - 4/30/97.

\$188,308 from the National Science Foundation for *Understanding Geographic Space without the Use of Vision*, 7/01/96 - 6/30/98 (with Blades and Kitchin). #SBR-9514907

\$4,510.42 from the Academic Senate for *Talking Signs for Blind Travelers*, 7/01/96 – 6/30/97.

\$18,000 from the Borchard Foundation grant for Cognitive Mapping and spatial Reasoning conference held at Château de la Bretesche, Brittany, France, July, 1996. #444032-57188

\$78,873 from the University of California Transportation Center *Object Oriented Dynamic GIS for Transportation Planning* 8/94 – 7/95. #DTRS92-G-0009

\$149,574 from National Science Foundation for *Spatial Competence: The Role of Socio-Cultural and Gender Based Differences* (with D. Montello & C. Self) 4/94 – 3/96. #SBR93-18643

Research Grants Received, contd.

\$50,000 from California Partners for Advanced Transit and Highways (PATH) for *Investigating the Mass Transit Needs of a Non-Driving Disabled Population*, 7/01/94 - 6/30/95.

\$4,948 (supplement) from National Science Foundation for *Spatial Competence: The Role of Socio-Cultural and Gender Based Differences* 4/94 – 3/95.

\$3,000 from UCSB Academic Senate for *A Pilot Project on Advanced Traveler Information Systems (ATIS)* 7/94 – 6/95.

\$2,637 from UCSB Instructional Development for Departmental TA Training Program. 8/94–4/95

\$4,468 from UCSB Instructional Development for completion of Laser Disk Production 8/94-4/95.

\$999 from UCSB Instructional Development for assistance in developing computer based lab exercises for G105 8/94-4/95.

\$2,880 from UCSB Academic Senate for GIS Based Computational Process Modeling of Path Selection 11/93 – 6/94

\$115,525 from National Science Foundation for *Spatial Properties of Configurational Knowledge* 8/92 – 7/94

\$1,200,000 from NSF for NCGIA Year 8 (Co-PI: with Goodchild (PI), Estes, Couclelis, and Church) 11/15/88-12/31/97. #SBR88-10917

\$1,200,000 from NSF for NCGIA Year 7 (Co-PI: with Goodchild (PI), Estes, Couclelis, and Church) 11/15/88-12/31/95. #SBR88-10917

\$1,100,000 from NSF for NCGIA Year 6 (Co-PI: with Goodchild (PI), Estes, Couclelis, and Church) 11/15/88-12/31/94. #SBR88-10917

\$437,096 from National Eye Institute for *Navigational Aid for the Visually Impaired* 8/92 – 6/96 (Co-PI: with Loomis [PI] and Klatzky).

\$20,136 (supplement) from National Science Foundation for *Reasoning and Inference in Spatial Knowledge Acquisition: The Cognitive Map as an Internalized GIS*. 5/92 – 7/94. #SES-9207836.

\$20,272 from UC Berkeley (UCTC) for *A GIS Data Model for Transportation Modeling and Planning*, 8/01/93-7/31/94 (Co-PI: Kwan/Golledge)—Dissertation Grant for Mei-po Kwan. #DTRS92-G-0009

\$8,178 from UCSB Instructional Development for *Enhancement of Geography 154*. 4/93 – 6/94

\$2,406 from UCSB Instructional Development for *Departmental TA Training for Geography 500* 8/93– 4/94

\$3,000 from UCSB Instructional Development for *Departmental TA Training for Geography 500* 8/92- 4/93

Research Grants Received, contd.

\$7,796 from UCSB Instructional Development for *Enhancement of Geography 153C*. 5/91–6/92

\$4,000 from the UCSB Academic Senate for *Where Am I? The Locational Component of an Automated Pedestrian Guidance System*. 8/1/91 – 7/30/92

\$2,880 from UCSB Academic Senate for *GIS Based Computational Process Model of Travel Destinations in Activity Scheduling* 11/93 – 6/94

\$28,798 from the University of California, Irvine Transportation Centers Program for *Activity-Based Models of Accessibility: Planning Implications for Urban Subcenters* (with T. Golob & W. Recker) 8/91–7/92

\$75,735 from the National Science Foundation for *Spatial Properties of Configurational Knowledge* 3/91–8/92. #SES-9023047

\$6,000 from UCSB Instructional Development for *Enhancement of TA Training in Geography* 9/90–4/91

\$28,476 from the University of California, Irvine Transportation Centers Program for *Activity-Based Models of Accessibility: Planning Implications for Urban Subcenters* (with T. Golob & W. Recker) 8/90–7/91. #444032-20884

\$4,500 from the UCSB Academic Senate for *A Survey of Urban Landmarks I: Millionaire Cities of Anglo America* 6/90–7/91

\$2,500 from the UCSB Academic Senate for *Electronic Tactile Surfaces for the Vision Impaired* 6/89 – 7/90.

\$6,322.57 from the UCSB Instructional Improvement Grant Program for *Geography 106* 4/89–4/90

\$8,402.30 from the UCSB Instructional Improvement Grant Program for *A Multi-Course, Multi-Media Database of Illustrative Materials for Courses in Urban and Behavioral Geography* (with L. Anselin) 4/89–4/90

\$1,000 mini-grant from Instructional Development UCSB for *Research Assistance for Geography 105* 11/88

\$8,939 from the U.S.–Australia Cooperative Science Program for *Talking Maps – Tactile–Audio Maps and Graphics for the Blind and Visually Impaired* 9/88–8/90

\$6,000 UCSB Academic Senate grant for *Gender-Based Variations in Spatial Competence: An Interdisciplinary Perspective* 7/88–6/89

\$3,000 UCSB Academic Senate grant for *Spatial Dimensions in Global Images* 3/87–3/88

\$210,071 National Institute of Health grant for *Analysis of Navigation without Sight* (with J. Loomis, R. Klatzky, J. Pellegrino & S. Doherty) RO1 EY07022–1, 07/01/87

Research Grants Received, contd.

\$40,106 NSF grant for *Combinatorial Data Analysis: Strategies for Measuring Association and Partial Association Between Spatially Defined Variables* (with L. Hubert & N. Gale) SES85–20389, 3/86–8/87

\$13,349.46 Instructional Improvement grant for *Geography 153: Introduction to Human Spatial Behavior*, 1986

\$4,042 NSF supplemental grant for *The Acquisition and Integration of Components of Spatial Knowledge by Children and Adults* (with J. Pellegrino) SES84–07160, 8/85–4/87

\$117,994 NSF grant for *The Acquisition and Integration of Components of Spatial Knowledge by Children and Adults* (with J. Pellegrino) SES84–07160, 8/85–4/87

\$6,492 UCSB Academic Senate grant for *Components of Spatial Knowledge*, June 1985

\$72,644 Instructional Development grant for *A Program of Growth and Change* (with D. Simonett & J. Dozier) 1984–1985

\$2,544 State Department of Rehabilitation grant for *Technical Assistance* (with K. Harp) 5/85

\$10,270 La Vista Foundation for the Blind and Physically Handicapped grant for *Technical Assistance* (with K. Harp) 4/85

\$5,000 Braille Institute grant for *Technical Assistance* (with K. Harp) 3/85

\$60,000 NSF grant for *Cognitive Maps and Consumer Behavior* (with H. Couclelis and W. Tobler) SES–8407160, 7/84–12/85

\$51,709 NSF grant for *Cross–Cultural Comparisons of Consumer Spatial Behavior: An Approach Using Panel Data* (with N. Wrigley) SES83–20602, 2/84–7/85

\$5,962 NSF grant for *The Development of Survey Research Designs and Experimental Data Collection Methods for Research on Human Spatial Behavior* (with R. Stimson) INT 82–19830 (under the U.S.–Australia Cooperative Science Program) 3/83–1/85

\$106,454 National Institute of Justice grant for *Development of Methods for Improved Geographical Analysis of Crime Patterns and Trends* (with L. Hubert) NIJ 82–IJ–CX–0019, 1982–83

\$59,540 NSF grant for *A Computational Process Approach to Children's Acquisition of Spatial Knowledge of a Large–scale Environment* (with J. Pellegrino & T. Smith) NSF SES82–09621, 1982–84

\$30,401 NSF grant for *Combinatorial Data Analysis Procedures for the Evaluation of Alternate Models in Geography* (with L. Hubert) NSF SE82–06067, 1982–84

\$72,249 NSF grant for *The Spatial Variation in the Distortion and Fuzziness of Cognitive Maps* (with W. Tobler) SES81–10253, 1981–82

Research Grants Received, contd.

\$98,144 Law Enforcement & Assistance Administration and National Institute of Law Enforcement & Criminal Justice grant (with L. Hubert) for *A Heuristic Method for the Comparison of Related Data Sets: Implications for the Analysis of Criminal Justice Data* (with L. Hubert) LEAA80-IJ-CX-0061, 1980-81.

\$2,500 UCSB Research Committee grant for *Spatial Competence of Selected Retarded Populations in Santa Barbara*, August 1980.

\$63,000 NSF grant for *Spatial Competence of Selected Populations* (with J. Rayner & J. Parnicky) 1979

\$102,000 Law Enforcement & Assistance Administration and National Institute of Law Enforcement & Criminal Justice grant for *Spatio-Temporal Patterns in Crime Data* (with L. Hubert) 79-NI-AX-0057, 1979-80

\$920 UCSB Academic Senate grant for *Research on Riemann Spaces*, 1978

\$1,633 UCSB Committee on Research grant for *Non-Euclidean Mental Maps*, 1978

\$51,175 NSF grant for *Spatial Competence of the Mentally Retarded* (with J. Parnicky & J. Rayner) 1978.

\$25,000 NSF grant for *Cognitive Configurations of a City* (with J. Rayner) 1975-76.

\$52,000 NSF grant for *Cognitive Configurations of a City* (with J. Rayner) 1974-75.

\$730 American Council of Learned Societies grant, 1974

\$32,000 NSF grant for *Cognitive Configurations of a City*, 1973-74.

\$6,500 NSF grant for *Ph.D. dissertation for G. Zannaras*, 1970-71.

\$43,000 NSF grant for *Spectral Analysis of Settlement Patterns in Diverse Physical and Economic Environments* (with J. Rayner) 1969-70.

\$1,200 Canadian Council grant for *Retail Location and Consumer Behavior in Vancouver, B.C.*, 1966.

INVITED TALKS, PAPERS, AND PRESENTATIONS

2008

- Marston, J.R., Golledge, R. G., Loomis, J. M., Klatzky, R. L., Giudice, N. A., (2008, April 10) Substituting for Vision: Field Experiments with Several Orientation and Navigation Devices, Vision Research Seminar Series, Department of Ophthalmology, Emory University School of Medicine, Atlanta, GA
- Marston, J.R., Golledge, R. G., Loomis, J. M., Klatzky, R. L., Giudice, N. A., (2008, April 9) Accessible and Portable Navigation Devices for the Blind: Interface Options, Atlanta Center for the Visually Impaired and Georgia Institute of Technology, Atlanta, GA
- Marston, J.R., Golledge, R. G., Loomis, J. M., Klatzky, R. L., Giudice, N. A., (2008, April 9) . Substituting for Vision: Field Experiments with Several Orientation and Navigation Devices, Atlanta VA Rehabilitation Research and Development Center of Excellence in Vision Loss, Atlanta, GA
- Loomis, J. M., Golledge, R. G., Klatzky, R. L., Marston, J.R., Giudice, N. A., (2008, April 1) Twenty Years of Research on the Personal Guidance System: What did we learn?, Thinkspatial Forum On Spatial Thinking, Spatial@UCSB, University of California Santa Barbara, CA
- Giudice, N. A., Marston, J. R., Klatzky, R. L., Loomis, J. M., & Golledge, R. G. (2008). *Environmental Learning Without Vision: Effects of Cognitive Load on Interface Design*. Paper presented at the 9th International Conference on Low Vision, Vision 2008, Montreal, Quebec, Canada.
- Golledge, R.G. (2008, 31 January). Modeling travel behavior before and after GPS. Paper presented at the UCTC Graduate Student Conference, Santa Barbara CA

2007

- Marston, J. R., Loomis, J. M., Klatzky, R. L., and Golledge, R. G. (2007, 15 November). A haptic pointer interface for a personal guidance system. Tactile Research Group, Specialty group of the Psychonomic Society. Long Beach, CA.
- Golledge, R. G.. (2007, 17-20 October). Complementarity of wayfinding research for both blind and sighted travel. Paper presented at the Association of Pacific Coast Geographers Annual Meeting, Long Beach, CA.
- Marston, J. R., Loomis, J. M., Golledge, R. G., & Klatzky, R. L. (2007, August 7) Using Virtual Spatialized Output to Augment and Improve the User Interface of GPS Navigation Systems for People who are Blind, Invited paper at the XXIII International Cartographic Conference, Moscow, Russia.
- Marston, J. R., & Golledge, R. G. (2007, June 20). Identification of Environmental Barriers and Insecurities that Affect Independent Travel and Transit. Presented at TRANSED2007, 11th International Conference on Mobility and Transport for Elderly and Disabled People, "Benchmarking, Evaluation and Vision for the Future". Montreal, Canada
- Marston, J. R., Klatzky, R. L., Giudice, N. A., Loomis, J. M., and Golledge, R. G. (2007, 17-21 April). Measuring cognitive load of non-visual navigation interfaces. Paper presented at the Association of American Geographers (AAG) 104th Annual Meeting, San Francisco, CA.
- Golledge, R. G., Marston, J. R., Loomis, J. M., and Klatzky, R. L. (2007, 17-21 April). Wayfinding without sight: The Haptic Pointer Interface." Paper presented at the Association of American Geographers (AAG) 104th Annual Meeting, San Francisco, CA.

Invited Talks, Papers, and Presentations, cont'd.

2006

- Marston, J.R. & Golledge, R. G., (2006, Sept 1) Using Remote Infrared Audible Cues to Increase Spatial Knowledge Acquisition for Persons who are Blind or Visually Impaired in a Multimodal Transportation Environment. Invited "guest speaker" at the IEEE 2006 International Conference of the Engineering in Medicine and Biology Society, Session: Information-Based Support Technologies for Persons with Visual Disabilities, New York, NY
- Henson, K. M., Goulias, K. G., & Golledge, R. J. (2006, 16-20 August). An assessment of activity-based modeling and simulation for applications in operational studies, disaster preparedness, and homeland security. Paper presented at the 11th International Conference on Travel Behaviour Research, Kyoto.
- Golledge, R. (2006, 3-7 July). Spatial Behavior and The Theoretical/Quantitative Revolution. Paper presented at the Special "Legends of the Quantitative Revolution" Sessions of the International Geographical Union, Brisbane, Australia.
- Golledge, R., Battersby, S. E., & Marsh, M. (2006, 3-7 July). Matching Geospatial Concepts with Geo-Ed Demands. Paper presented at the Regional Responses to Global Changes: A view from the Antipodes: International Geographical Union 2006 Brisbane Conference; Applied Geography Sessions, Brisbane, Australia.
- Battersby, S., Golledge, R., & Marsh, M. (2006, 3-7 July). Development of abstract and real-world understanding of geospatial concepts. Paper presented at the Regional Responses to Global Changes: A view from the Antipodes: International Geographical Union 2006 Brisbane Conference; Applied Geography Sessions, Brisbane, Australia.
- Marsh, M., Golledge, R., & Battersby, S. E. (2006). Grade-related differences in geospatial concept recognition: Spatial relationship terms. Paper presented at the Regional Responses to Global Changes: A view from the Antipodes: International Geographical Union 2006 Brisbane Conference; Applied Geography Sessions, Brisbane, Australia.
- Rice, M. T., Golledge, R. G., & Jacobson, R. D. (2006, March 10). Symbolization issues for haptic and auditory maps. Paper presented at the Association of American Geographers 2006 Annual Meeting, paper session Visualization II: Representation and Symbolization, Chicago, IL.
- Golledge, R., Battersby, S. E., & Marsh, M. (2006, March 7-11). Minimal GIS to support geospatial concept education through the K-12 curriculum. Paper presented at the Annual Meeting of the Association of American Geographers, Chicago, IL.
- Marsh, M., Golledge, R., & Battersby, S. E. (2006, March 7-11). Geospatial concept understanding among K-undergraduate students: Spatial relationship terms. Paper presented at the Annual Meeting of the American Association of Geographers, Chicago, IL.
- Golledge, R., Marsh, M., & Battersby, S. E. (2006, February 9-11). Some Thoughts About a Geospatial Lexicon and Task Ontology for Acquiring Geospatial Knowledge. Paper presented at the 1st International Symposium for Environment, Behaviour and Society, Faculty of Architecture, University of Sydney, Sydney, Australia.

Invited Talks, Papers, and Presentations, cont'd.

2005

- Golledge, R., Marsh, M., & Battersby, S. E. (2005, November 10-12). Matching Geospatial Concepts with Geo-Ed Demands. Paper presented at the North American Meeting of the Regional Science Association International, Las Vegas, NV.
- Marston, J., Long, R., Barlow, J., Golledge, R., May, M., Guth, D. (October 6, 2005) Increasing the Availability of Geographic Information Systems (GIS) Information in Wayfinding Devices for Individuals who are Blind. Invited Presentation (by R. Long & J. Barlow) at the first World Congress on Blind Wayfinding Technology, Jernigan Institute National Federation of the Blind, Baltimore, MD
- Loomis, J. M., Golledge, R. G., Klatzky, R. L. & Marston, J. R., (October 6, 2005) Incorporating virtual sound and other spatial displays into the user interface of future blind navigation systems. Invited presentation (by J. Marston) at the first World Congress on Blind Wayfinding Technology, Jernigan Institute National Federation of the Blind, Baltimore, MD
- Loomis, J. M., Golledge, R. G., Klatzky, R. L. & Marston, J. R., (October 6, 2005) User-centered design of assistive technology. Invited presentation (by J. Marston) at the first World Congress On Blind Wayfinding Technology, Jernigan Institute National Federation of the Blind, Baltimore, MD
- Battersby, S. E., Golledge, R. G., & M.J. Marsh, M. J. (2005, April 5-9). Creating a hierarchical structure for geospatial concept knowledge. Paper presented at the Annual Meeting of the Association of American Geographers, Denver, CO.
- Marston, J. R., Loomis, J. M., Golledge, R. G., & Klatzky, R. L. (2005, April 4). Improving the user interface of GPS navigation systems for blind people: spatialized displays that augment speech information. Paper presented at the Vision 2005 Conference, London, UK.
- Jacobson, R. D., Rice, M., & Golledge, R. (2005, April 5-9). Auditory display in non-visual and tactile map interfaces. Paper presented at the 101st Association of American Geographers Annual Conference, Denver, CO.
- Golledge, R. G., Battersby, S., & Marsh, M. (2005, April 5-9). Speculations on the content of a "minimal" GIS for early age teaching of geospatial concepts. Paper presented at the 2005 Annual Meeting of the Association of American Geographers, Denver, CO.
- Marston, J. R., Loomis, J. M., Golledge, R. G., & Klatzky, R. L. (2005, April 1) Intuitive, egocentric, and personal navigation devices for the visually impaired: Field tests from outdoor and indoor environments, Invited presentation, The School of Electronic and Electrical Engineering, The University of Leeds, Leeds, UK.
- Rice, M., Jacobson, R. D., Golledge, R., & Jones, D. (2005, March 21-23). Cartographic data and design considerations and haptic and auditory map interfaces. Paper presented at AutoCarto2005, Las Vegas, NV.
- Marston, J. R., Loomis, J. M., Golledge, R. G., & Klatzky, R. L. (2005, March 11) Intuitive and egocentric wayfinding for persons who are visually impaired: Experimental data from indoor and outdoor environments. Invited presentation at the Department of Geography, University of Utah, Salt Lake City, UT.

Invited Talks, Papers, and Presentations, cont'd.

Jacobson, R. D., Rice, M., & Golledge, R. (2005, April 5-9). Auditory display in non-visual and tactile map interfaces. Paper presented at the 101st Association of American Geographers Annual Conference, Denver, CO.

Marston, J. R., & Golledge, R. G. (2005, January 10). Quantitative and qualitative analysis of barriers to travel by persons with visual impairments and its mitigation through accessible signage. Invited presentation for the session “. Paper presented at the 10th Annual Conference on Mobility and Transport for Elderly and Disabled People: "Best Practices" at the 84th Meeting of the Transportation Research Board, Washington, DC.

2004

Golledge, R. G., Marsh, M., & Battersby, S. E. (2004, September 8-11). Defining a primitives-based geospatial concept lexicon for guiding geospatial thinking k-12. Paper presented at the Association of Pacific Coast Geographers Annual Meeting, San Luis Obispo, CA.

Marsh, M., Battersby, S. E., Hayward, P., & Golledge, R. (2004, September 8-11). Geospatial concept recognition by K-6 students. Paper presented at the Association of Pacific Coast Geographers Annual Meeting, San Luis Obispo, CA.

Battersby, S. E., Marsh, M., Hayward, P., & Golledge, R. (2004, September 8-11). Geospatial concept recognition by college students. Paper presented at the Association of Pacific Coast Geographers Annual Meeting, San Luis Obispo, CA.

Zhou, J., & Golledge, R. G. (2004, August 1-6). Real-time tracking of activity scheduling/schedule execution within unified data collection framework. Paper prepared for the ISCTSC Triennial International Conference on Transport survey Methods, Costa Rica.

Marston, J. R., Loomis, J. M., Golledge, R. G., & Klatzky, R. L. (2004, November 1) Access Solutions: Applying Geographic Techniques to Understand, Research, and Solve Problems of Access for Persons with Physical Disabilities. Invited presentation at the School of Social Sciences Workshop Lecture Series, University of Texas at Dallas, Richardson, TX.

Marston, J. R., & Golledge, R. G. (2004, July 22) Enabling Blind Pedestrian in the Public Right of Way and Public Transportation. Invited Presentation at the American Public Transportation Association and Federal Transit Administration Conference Linking Technology with Mobility for Seniors and People with Disabilities, San Francisco, CA

Marston, J. R., & Golledge, R. G. (2004, July 5). Barriers to Public Transportation: Empirical Data from Blind Users of a Multi-Modal Transit Terminal. Invited presentation at ONCE (Spanish National Organization of the Blind), sponsored by the Department of Physiology, School of Medicine, La Laguna University, Tenerife, Canary Islands, Spain

Marston, J. R., Loomis, J. M., Golledge, R. G., & Klatzky, R. L. (2004, June, 30) Public Transportation and the Visually Impaired: Identification of Problems and Barriers, Measurements of Accessibility, and Technological Methods to Increase Usage and Travel Participation. Invited workshop presented at the Conference and Workshop on Assistive Technologies for Vision and Hearing Impairment, Support Technologies for Independent Living and Work" Granada, Spain.

Invited Talks, Papers, and Presentations, cont'd.

- Marston, J. R., & Golledge, R. G. (2004, May, 31), Functional Barrier Identification and Spatial Knowledge Acquisition: Empirical Data from Blind Users of a Multi-Modal Transit Terminal, Invited Presentation at Tohoku Gakuin University, Sendai, Japan
- Marston, J. R., & Golledge, R. G. (2004, May 23-26). Quantitative and qualitative analysis of barriers to travel by persons with visual impairments and its mitigation through accessible signage. Paper presented at the 10th International Conference on Mobility and Transport for Elderly and Disabled People: TRANSED 2004, Hamamatsu, Japan.
- Marston, J. R., Loomis, J. M., Golledge, R. G., & Klatzky, R. L. (2004, May 20). Evolution of UCSB's Personal Guidance System and GPS Technologies for the Blind. Paper presented at the FY(2004) Ministry of Economy, Trade and Industry (METI) "IT Barrier Free Project for Disable Person" consortium project Standardizing Investigation Committee, Tokyo, Japan.
- Rice, M, Golledge, R, Jacobson, D, Jones, D, Pallavaram, S. (2004). "Axis Scaling and Symbolization Issues for Haptic Maps". The 100th AAG Annual Meeting, 14-19 March 2004 Philadelphia, PA.
- Rice, M., Golledge, R. G., Jacobson, R. D., Jones, D., & Pallavaram, S. (2004, March 18). Evaluating shapes via a non-visual computer interface. Paper presented at the 100th AAG Annual Meeting, Session: "Frontiers of Behavioral Geography," Philadelphia, PA

2003

- Rice, M., Golledge, R. G., Pallavaram, S., Jacobson, R. D., & Jones, D. (2003, November 20). Haptic soundscapes: Maps for the visually-impaired using sound and touch. Paper presented at the UCSB Geography Colloquium, University of California Santa Barbara, Department of Geography.
- Avraamides, M. N., Loomis, J. M., Klatzky, R. L., & Golledge, R. G. (2003, November 6-9). *Spatial representations from language and visual perception*. Paper presented at the 44th Annual Meeting of the Psychonomic Society, Vancouver, BC.
- Golledge, R. (2003, October 2-5). Learning environments without the use of sight. Paper presented at the International Festival of Geography, St. Die, France.
- Golledge, R. (2003, September 24). Tutorial on Cognitive Behavioral Geography. Paper presented at the Conference on Spatial Information Theory (CoSIT).
- Rice, M., Jacobson, R. D., Golledge, R. G., Jones, D., & Pallavaram, S. (March 29-April 2, 2003). Object size discrimination and non-visual cartographic symbolization. Paper presented at the American Congress on Surveying and Mapping (ACSM) Annual Meeting, Phoenix, AZ.
- Jacobson, R. D., Rice, M., Golledge, R. G., Jones, D., Hayward, P., & Pallavaram, S. (2003, March 5-8). *Cartographic symbolization issues for haptic and auditory map interfaces*. Paper presented at the Association of American Geographers 99th Annual Conference, New Orleans, LA.
- Marston, J. R., & Golledge, R. G. (2003, February, 20) Increasing Access to Urban Opportunities with Remote Infrared Audible Signage: A Multi-Modal Field Study. Invited presentation, Vision Loss in the 21st Century: Everybody's Business, Beverley Hills, CA

Invited Talks, Papers, and Presentations, cont'd.

2002

Rice, M. T., Jones, D., Golledge, R. G., & Jacobson, R. D. (2002, October 2-6).

Multimodal cartographic interfaces: Symbolization and examples. Paper presented at the Association of Pacific Coast Geographers 65th Annual Meeting, San Bernardino, CA.

Golledge, R. G. (2002, August 4-7). *Travel in a world without signs.* Paper presented at the Regional Conference of the International Geographical Union, Durban, South Africa.

Golledge, R. G. (2002, 17-20 February). Human wayfinding and cognitive maps. Paper presented at the Western Regional Science Association Conference, Monterey, CA.

2001

Golledge, R. G. (2001, December 3-4). *Spatial cognition and converging technologies.* Paper presented at the Workshop on Converging Technology (NBIC) for Improving Human Performance, Washington, DC.

Klatzky, R. L., Loomis, J. M., & Golledge, R. G. (2001, November). *Navigation without vision in blind and sighted. Invited symposium presentation.* Paper presented at the Annual Meeting of the Psychonomic society, Orlando, FL.

Klatzky, R. L., Loomis, J. M., & Golledge, R. G. (2001, November 2). *Wayfinding without vision: Technology for helping the visually impaired navigate and learn about space. Invited keynote presentation.* Paper presented at the Digital Frontier, the Buffalo Summit, University of Buffalo, Buffalo, NY.

Golledge, R.B. (2001, November 6-8). *The nature of geographic knowledge and Geography and the disabled.* Papers presented at the University of Lethbridge (Annual Owen Holmes Lecture) as part of the Western Canada Lecture Series sponsored by the Canadian Institute for Society & Humanity.

Golledge, R.B. (2001, November 5-6). *Geography and the disabled.* Paper presented at the University of Regina as part of the Western Canada Lecture Series sponsored by the Canadian Institute for Society & Humanity.

Golledge, R.B. (2001, November 1-5). *The nature of geographic knowledge.* Paper presented at the University of Saskatchewan as part of the Western Canada Lecture Series sponsored by the Canadian Institute for Society & Humanity.

Golledge, R. G. (2001, October 19). *Travel in a world without signs.* Paper presented at an Honorary Ph.D. Award Ceremony, University of Göteborg, Göteborg, Sweden.

Golledge, R. G. (2001, October 16). *From periphery to center: A journey through many geographies.* Paper presented at an Invited Lecture, University of Upsalla, Upsalla, Sweden.

Golledge, R. G., Loomis, J. M., & Klatzky, R. (2001, September 14). *Components of a Personal Guidance System (PGS) for vision impaired travelers.* Paper presented at the Annual Meeting of the Association of Pacific Coast Geographers, Santa Barbara, CA.

Golledge, R. G. (2001, May 24-26). *National information system for geography research and education.* Paper presented at the International Symposium on Geographic Education: Theory, Research, and Practice, Southwest Texas State University, San Marcos, TX.

Invited Talks, Papers, and Presentations, cont'd.

- Golledge, R. G. (2001, April 23). *Adapting to adversity*. Paper presented at the University of Iowa Alumni Fellows Program, Iowa City, IA.
- Golledge, R. G. (2001, April 19). *The nature of spatial reasoning*. Paper presented at the University of Nebraska-Lincoln Colloquium, Lincoln, NE.
- Golledge, R. G. (2001, April 19). *You don't have to have sight to have vision*. Paper presented at the University of Nebraska-Lincoln Colloquium, Lincoln, NE.
- Golledge, R. G. (2001, April 18). *Travel in a world without signs: Navigation without sight*. Paper presented at the University of California Davis Colloquia, Davis, CA.
- Golledge, R. G. (2001, March 30). *The nature of geographic knowledge*. Paper presented at the University of Southern California Colloquium, Los Angeles, CA.
- Marston, J. R., & Golledge, R. G. (2001, March 20). *Empirical measurement of barriers to public transit for the vision-impaired and the use of remote infrared auditory signage for mitigation*. Paper presented at the CSUN's 16 Annual International Conference, "Technology and Persons with Disabilities", Los Angeles, CA.
- Marston, J. R., & Golledge, R. G. (2001, March 3). *Equal access or transit subsidies, what does the ADA mandate? Limits to transit choice and activities (unequal access) and monetary trade-offs for equal access reported by the vision impaired*. Paper presented at the 97th Annual Meeting of the Association of American Geographers, New York, NY.
- Golledge, R. G. (2001, March 2). *The nature of geographic knowledge*. Paper presented at the Annual Meeting of the Association of American Geographers, New York, NY.
- Golledge, R. G. (2001, February 28). *Real or Apparent? Paper presented in honor of Gunnar Olsson*. Paper presented at the 97th Annual Meeting of the Association of American Geographers, New York.
- Golledge, R. G. (2001, February 2). *Thinking beyond the box--New dimensions of geography for the 21st century*. Paper presented at the Fifth Annual Western Geography Student Conference, Portland State University, Portland, OR.
- Golledge, R. G., & Rice, M. T. (2000). *Haptic Soundscapes: Sound and Touch Interfaces for Presenting Maps to the Blind and Sight-Impaired* [Technical Video Presentation]. Santa Barbara, CA: Research Unit on Spatial Cognition and Choice, Department of Geography, University of California Santa Barbara, Santa Barbara Geographic Press Reprint Series #R00i.
- Klatzky, R. L., Loomis, J. M., & Golledge, R. G. (2000, July). *Human navigation in the absence of visual input. State-of-the-art lecture*. Paper presented at the International Congress of Psychology, Sweden.
- Golledge, R. G., & Gärling, T. (2000, July 27). *Cognitive maps and urban travel*. Paper presented at the XXVII International Congress of Psychology, Stockholm, Sweden.
- Zhou, J., & Golledge, R. G. (2000, July 2-7). *An analysis of household travel behavior based on GPS*. Paper presented at the IABTR, Gold Coast, Australia.
- Golledge, R. G. (2000, June 6). *You don't have to have sight to have vision*. Paper presented at the Grand Rounds Presentation, Boston Medical Center, Boston, MA.
- Golledge, R. G. (2000, April 28). *Cartographic inventions for Web-based access by disabled people*. Paper presented at the UCLA Geography Colloquium, Los Angeles, CA.

Invited Talks, Papers, and Presentations, cont'd.

- Zhou, J., & Golledge, R. G. (2000, April). *An analysis of variability of travel behavior within one-week period based on GPS*. Paper presented at the 1st IGERT Graduate Student Research Conference, UC Davis, Davis, CA.
- Golledge, R. G., & Thrall, G. I. (2000, March 30). *The fundamental importance of cognitive mapping to real estate*. Paper presented at the Annual Meetings, American Real Estate Society, Santa Barbara, CA.
- Zhou, J., & Golledge, R. G. (2000, February 26-March 1). A GPS-based Analysis of Household Travel Behavior. Paper presented at the Western Regional Science Association Annual Meeting, Kauai, HI.
- Golledge, R. G., Kitchin, R., Blades, M., & Jacobson, R. D. (2000, January 27). *Cognitive maps, spatial abilities, and human wayfinding*. Paper presented at the Osaka University of Education Colloquium, Osaka, Japan.
- Golledge, R. G., Kitchin, R., Blades, M., & Jacobson, R. D. (2000, January 25). *Cognitive maps, spatial abilities, and human wayfinding*. Paper presented at the Tokyo Metropolitan University Colloquium, Tokyo, Japan.
- Gärling, T., Boe, O., & Golledge, R. G. (2000, January 9-13). *Distance thresholds for driving in Sweden and the USA*. Paper presented at the Transportation Research Board 2000 Annual Meeting, Washington, DC.
- 1999**
- Golledge, R. G. (1999, Nov. 21-23). *Thoughts on geography in the 21st century*. Paper presented at the 54th Meeting of the Association of American Geographers, Southeastern Division, Tampa, FL.
- Golledge, R. G. (1999, November 18). *Cartographic inventions for disabled geographers*. Paper presented at the University of South Carolina Colloquium, Columbia, SC.
- Golledge, R. G. (1999, Oct. 22). *Cartographic inventions to help the disabled*. Paper presented at the SWAAG 2000 Annual Meeting, Austin, TX.
- Jenkins, O., Golledge, R. G., & Stimson, R. J. (1999, July 19). *Images and stereotypes: Selling tourist destinations to backpacker tourists*. Paper presented at the 6th International Conference on Retailing and Services Science, Las Croabas, Puerto Rico.
- Marson, J., & Golledge, R. G. (1999, May 29). *Equal access to transit? Blind transit users' evaluation of remote infrared signage systems*. Paper presented at the 12th Annual Society of Disability Studies, Washington, DC.
- Bell, S., & Golledge, R. G. (1999, March 26). *Children's spatial knowledge acquisition at different scales*. Paper presented at the 95th Annual Meeting of the Association of American Geographers, Honolulu, HI.
- Marston, J., & Golledge, R. G. (1999, March 26). *Learning spatial configurations using auditory cues*. Paper presented at the 95th Annual Meeting of the Association of American Geographers, Honolulu, HI.
- Amedeo, D., & Golledge, R. G. (1999, March 24). *Environmental perception and behavior research*. Paper presented at the 95th Annual Meeting of the Association of American Geographers, Honolulu, HI.

Invited Talks, Papers, and Presentations, cont'd.

- Loomis, J. M., Klatzky, R. L., & Golledge, R. G. (1999, March 9-11). *Auditory distance perception in real, virtual, and mixed environments*. Paper presented at the First International Symposium on Mixed Reality, Yokohama, Japan.
- Kitchin, R., Blades, M., Jacobson, R. D., & Golledge, R. G. (1999, February 12). *How do people with visual impairments learn a route?* Paper presented at the Departmental Seminar, Queen's University of Belfast, Belfast, Ireland.
- Golledge, R. G. (1999, January 23). *GPS, GIS, and PGS: Navigation without sight: An aid for the blind*. Paper presented at the Arizona State University Colloquium, Tempe, AZ.

1998

- Kitchin, R., Blades, M., Jacobson, R. D., & Golledge, R. G. (1998, November 3). *How do people with visual impairments learn a route?* Paper presented at the Perception, Cognition and Navigation in Space Seminar, University College London, London, UK.
- Golledge, R. G. (1998, October 23). *Traveler decision-making under adverse travel conditions*. Paper presented at the Applied Geography Conference, Louisville, KY.
- Gärling, T., Doherty, S. T., & Golledge, R. G. (1998, October 23). *Spatial cognition and the scheduling of shopping locations*. Paper presented at the Applied Geography Conference, Louisville, KY.
- Jacobson, R. D., Kitchin, R. M., Gärling, T., Golledge, R. G., & Blades, M. (1998, August 18). *Learning a complex urban route without sight: Comparing naturalistic versus laboratory measures*. Paper presented at Mind III: The Annual Conference of the Cognitive Science Society of Ireland, Dublin, Ireland.
- Marston, J. R., & Golledge, R. G. (1998, June 4). *Toward an accessible city: The use of auditory signage for the vision and print handicapped*. Paper presented at the Society for Disability Studies 11th Annual Meeting, Oakland, CA.
- Gärling, T., Boe, O., & Golledge, R. G. (1998, May 26). *Determinants of drivers' destination choices*. Paper presented at the Swedish Conference on Transport Research, Borlänge, Sweden.
- Kitchin, R. M., Jacobson, R. D., Golledge, R. G., & Blades, M. (1998, April 23-25). *Testing spatial knowledge for geographic technology: The case of blind and visually impaired individuals*. Paper presented at the Conference of Irish Geographers, Mary Immaculate College, Limerick.
- Kitchin, R. M., Blades, M., & Golledge, R. G. (1998, April 1-5). *Understanding geographic space without the use of vision: Preliminary results*. Paper presented at the Gender, Recreation and Sport Specialty Group Meeting of the AAG, Fort Worth, TX.
- Golledge, R. G., Loomis, J. M., & Klatzky, R. L. (1998, March 22-24). *Auditory maps: What are they and how can they be used to teach geography?* Paper presented at the Morphological Eyes and Ears: Learning and Assessment of Geographic Space, Southwest Texas State University.
- Golledge, R. G., Loomis, J. M., & Klatzky, R. L. (1998, March 23). *Disability, barriers and discrimination*. Paper presented at the Morphological Eyes and Ears: Learning and Assessment of Geographic Space, Southwest Texas State University.

Invited Talks, Papers, and Presentations, cont'd.

- Golledge, R. G. (1998, March 25-29). *A review of current research in environmental perception and behavior*. Paper presented at the National Conference of the Association of American Geographers, Boston, MA.
- Kitchin, R., Blades, M., Jacobson, R. D., & Golledge, R. G. (1998, March 26). *How do people with visual impairments learn a route?* Paper presented at the 94th Annual Meeting of the Association of American Geographers, Boston, MA.
- Marston, J. R., & Golledge, R. G. (1998, March 26). *Exploring terra incognita: Removing functional barriers for the blind traveler using auditory signs*. Paper presented at the 94th Annual Meeting of the Association of American Geographers, Boston, MA.
- Golledge, R. G., Marston, J. R., & Costanzo, C. M. (1998, February). *Assistive devices and services for the disabled: Auditory signage and the accessible city for blind or vision impaired travelers*. Paper presented at the University of California Richmond Field Station PATH Division in fulfillment of Grant MOU276.
- Jenkins, O., Golledge, R. G., & Stimson, R. J. (1998, February 18-22). *Images and stereotypes: A study of backpacker tourists*. Paper presented at the 37th Annual Meeting of the Western Regional Science Association, Monterey, California.

1997

- Golledge, R. G. (1997, November). *GIS functions, spatial relations, and spatial cognition*. Inaugural Lecture presented at the 1997-98 Arthur Robinson Colloquium, The Ohio State University, Columbus, OH.
- Golledge, R. G. (1997, October 28). *Emerging technologies for making cities accessible to disabled persons: The case of the blind or vision impaired*. Paper presented at the Bureau of Transportation Statistics Seminar, Emerging Technologies for Making Cities Accessible to Disabled Persons, Washington, DC.
- Golledge, R. G., & Marston, J. R. (1997, October 9-10). *Talking signs and the accessible city*. Paper presented at the PATH Program-Wide Research Meeting, Richmond Field Station, University of California, Berkeley, CA.
- Golledge, R. G. (1997, October). *Cognitive responses to environments: Cognitive maps and cognitive mapping*. Paper presented at the Symposium on Retail and Service Environment Atmospheric Research, Montreal, Canada.
- Golledge, R. G. (1997, September 21-25). *Dynamics and ITS: Behavioral responses to information available from ATIS*. Paper presented at the 8th Meeting of the International Association for Travel Behavior Research (IATBR), Austin, TX.
- Golledge, R. G. (1997, July/August). *Developing an object-oriented testbed for modeling transportation networks*. Paper presented at the University of Adelaide GIS Consortium (GISCO), Adelaide, Australia.
- Golledge, R. G. (1997, July/August). *Disability demographics*. Paper presented at the University of Adelaide GIS Consortium (GISCO), Adelaide, Australia.
- Golledge, R. G. (1997, July/August). *Talking signs and the accessible city*. Paper presented at the University of Adelaide GIS Consortium (GISCO), Adelaide, Australia.
- Golledge, R. G. (1997, July/August). *Talking signs and the accessible city*. Paper presented at the Australian Housing and Urban Research Institute (AHURI), Melbourne, Australia.

Invited Talks, Papers, and Presentations, cont'd.

- Golledge, R. G. (1997, July/August). *Talking signs and the accessible city*. Paper presented at the Queensland University of Technology, Brisbane, Australia.
- Golledge, R. G. (1997, July/August). *Developing an object-oriented testbed for modeling transportation networks*. Paper presented at the Australian Housing and Urban Research Institute (AHURI), Melbourne, Australia.
- Golledge, R. G. (1997, July/August). *Developing an object-oriented testbed for modeling transportation networks*. Paper presented at the Queensland University of Technology, Brisbane, Australia.
- Golledge, R. G. (1997, August 19). *Stereotypes and images in tourist destination choice*. Paper presented at the Queensland University of Technology, Brisbane, Australia.
- Golledge, R. G. (1997, August 8). *Stereotypes and images in tourist destination choice*. Paper presented at the Seminar Session, University of Sydney, Sydney, Australia.
- Golledge, R. G., Marston, J. R., & Costanzo, C. M. (1997, August). *The accessible city*. Paper presented at the Paper presented at Australian Housing and Urban Research Institute, Melbourne, Australia.
- Golledge, R. G. (1997, June). *GPS, GIS and PGS! Assistive technology for disabled people*. Paper presented at the Queen's University, Belfast, Ireland.
- Golledge, R. G. (1997, June 8-10, 1997). *Image and stereotypes in tourist destination choice*. Paper presented at the International Conference "The Battle for the Tourist" sponsored by FUTRO, a special research program at the Dutch Foundation of Economic and Social Research ESR/NWO on recreation and tourism; organized by EIRASS, Eindhoven University of Technology, Eindhoven, Netherlands.
- Golledge, R. G. (1997, May 22-25). *What's so spatial about special? Geographic learning and special populations: The case of blind or vision impaired people*. Paper presented at the Center for Geographic Education sponsored conference "The First Assessment: Research in Geographic Education", Southwest Texas State University, San Marcos, TX.
- Marston, J. R., & Golledge, R. G. (1997, May 23). *Removing functional barriers: Public transit and the blind and vision impaired*. Paper presented at the 10th Annual Meeting of the Society for Disability Studies, Minneapolis, MN.
- Kwan, M.-P., Speigle, J. M., & Golledge, R. G. (1997, May 4-7). *Developing an object-oriented testbed for modeling transportation networks*. Paper presented at the Institute for Operations Research and the Management Services (INFORMS), San Diego, CA.
- Golledge, R. G. (1997, April 1-5). *Sport and recreational preferences of males and females: Commonalities and differences*. Paper presented at the Gender Recreation and Sport Specialty Group, 93rd Annual Meeting of the Association of American Geographers, Fort Worth, TX.
- Golledge, R. G. (1997, April 1-5). *The state of cognitive mapping*. Paper presented at the Panel Presentation made at the 93rd Annual Meeting of the Association of American Geographers, Fort Worth, TX.

Invited Talks, Papers, and Presentations, cont'd.

Marston, J. R., Golledge, R. G., & Costanzo, C. M. (1997, April 2). *Travel behavior and transit use by the blind and vision impaired*. Paper presented at the 93rd Annual Meeting of the Association of American Geographers, Fort Worth, TX.

Golledge, R. G., Marston, J. R., & Costanzo, C. M. (1997, February). *Use of mass transit by non-driving disabled people*. Paper presented at the University of California Davis. Invited Talk, Davis, CA.

Golledge, R. G. (1997, January). *Experiments in human wayfinding: Cognitive mapping and human navigation*. Paper presented at the Marschak Colloquium, University of California Los Angeles, Los Angeles, CA.

1996

Golledge, R. G. (1996, November). *Research in geographic education*. Paper presented at the National Council For Geographic Education Annual Meeting, Santa Barbara, CA.

Golledge, R. G., & Bell, S. (1996, November). *The development and design of a TA training class for geography graduate students*. Paper presented at the National Council for Geographic Education Annual Meeting, Santa Barbara, CA.

Bell, S. M., & Golledge, R. G. (1996). *Spatial knowledge and problem solving: A geographic approach* (originally presented with the title *The role of spatial relations in children's math ability*). Paper presented at the 81st Annual Meeting of the National Council for Geographic Education (NCGE), Santa Barbara, CA.

Golledge, R. G., Marston, J. R., & Costanzo, C. M. (1996, November). *Activity patterns and transit use by a blind or vision impaired population*. Paper presented at the Regional Science Association International 43rd Annual North American Meeting, Washington D.C.

Loomis, J. M., & Golledge, R. G. (1996, October). *A GPS-based navigation system for the blind: A personal navigation system using GPS and audio virtual reality*. Paper presented at the Science and Engineering Council of Santa Barbara, Goleta, CA.

Loomis, J. M., Golledge, R. G., & Klatzky, R. L. (1996, October 2-4). *GPS for the blind*. Paper presented at the Trimble Surveying & Mapping Users Conference, San Jose, CA.

Golledge, R. G., Marston, J. R., & Costanzo, C. M. (1996, September). *The impact of information access on transit behavior of blind or vision impaired people*. Paper presented at the NCGIA Sponsored Research Conference: Spatial Technologies, Geographic Information, and the City, Baltimore, MD.

Golledge, R. G., Marston, J. R., & Costanzo, C. M. (1996, September). *The use of public transit by a disabled population: The case of the blind and vision impaired*. Paper presented at the Colloquium, Geography Department, George Mason University, Washington, DC.

Kwan, M. P., Golledge, R. G., & Speigle, J. (1996, August 7-11). *Information representation for driver decision support systems*. Paper presented at the Theoretical Foundations for Travel Choice Modelling Conference, Stockholm, Sweden.

Invited Talks, Papers, and Presentations, cont'd.

- Kwan, M.-P., & Golledge, R. G. (1996, August 4-10). *Computational process modeling of disaggregate travel behavior*. Paper presented at the 28th International Geographical Congress, IGU Commission on Mathematical Models, The Hague.
- Golledge, R. G. (1996, July). *Human wayfinding and representation*. Paper presented at the Borchard Conference, Château de la Bretesche, Brittany, France.
- Golledge, R. G. (1996, June). *Human wayfinding and mental representation*. Paper presented at the Mental Representations in Navigation Third Annual CBR Workshop, Cambridge, MA.
- Golledge, R. G. (1996, June). *Activity analysis and GIS: Some introductory remarks*. Paper presented at the Relationship between GIS and Disaggregate Individual and Behavioral Transportation Modeling Conference, Santa Barbara, CA.
- Golledge, R. G. (1996, May). *The disabled--who are they?* Paper presented at the "Voices of Strangers" UCSB Religious Studies class taught by Professor Walter Capps, Santa Barbara, CA.
- Golledge, R. G. (1996, April). *GPS, GIS and PGS for blind and vision impaired wayfinders*. Paper presented at the University of Melbourne Colloquium, Melbourne, Australia.
- Golledge, R. G. (1996, April). *GPS, GIS and PGS for blind and vision impaired wayfinders*. Paper presented at the University of New South Wales Colloquium, Sydney, Australia.
- Golledge, R. G. (1996, April). *Computational process modeling of disaggregate travel behavior*. Paper presented at the University of New South Wales Colloquium, Sydney, Australia.
- Golledge, R. G. (1996, April). *Is spatial ability sex biased?* Paper presented at the University of Melbourne, Melbourne, Australia.
- Golledge, R. G. (1996, April). *Is spatial ability sex biased?* Paper presented at the University of New South Wales Colloquium, Sydney, Australia.
- Golledge, R. G. (1996, April). *Assistive technologies to assist the mass travel needs of blind or vision impaired people: Talking signs and verbal landmarks*. Paper presented at the University of Melbourne Colloquium, Melbourne, Australia.
- Golledge, R. G. (1996, March 25-27). *"What" and "Where" are geographic primitives: So why should they be so fuzzy? Comments on "Perspective choice in spatial descriptions" by Scott Mainwaring and Barbara Tversky*. Paper presented at the AAAI Conference, Stanford University, Palo Alto, CA.
- Golledge, R. G., & Loomis, J. (1996, March). *Navigation system for the blind*. Paper presented at the University of California Santa Barbara Biomedical Engineering course taught by Professor Edward Profio, Santa Barbara, CA.
- Golledge, R. G., C.M., C., & Marston, J. R. (1996, January). *Public transit use by non-driving disabled persons: The case of the blind and vision impaired (California PATH Working Paper UCB-ITS-PWP-96-1): Partners for Advanced Transit and Highways (PATH)*.

1995

- Golledge, R. G. (1995, November 16). *Geography and disability*. Paper presented at the Geography Awareness Week, Kent State University, Kent, OH.

Invited Talks, Papers, and Presentations, cont'd.

- Kwan, M.-P., & Golledge, R. G. (1995, November). *An object-oriented GIS for conflict resolution in Advanced Traveler Information Systems (ATIS)*. Paper presented at the Regional Science Association, Cincinnati, OH.
- Loomis, J. M., Beall, A. C., Klatzky, R. L., Golledge, R. G., & Philbeck, J. W. (1995, November). *Evaluating the sensory inputs to path integration*. Paper presented at the Psychonomic Society Meeting, Los Angeles, CA.
- Golledge, R. G., Costanzo, M., & Marston, J. (1995, October 29-November 1). *Why don't disabled people use public transit?* Paper presented at the INFORMS (Institute for Operations Research and the Management Sciences), New Orleans, LA.
- Golledge, R. G. (1995, September). *Path selection and route preference in human navigation: A progress report*. Paper presented at the COSIT 95, Vienna.
- Golledge, R. G. (1995, June). *Cognitive maps*. Paper presented at the Summer Institute, Santa Barbara, CA.
- Golledge, R. G. (1995, May). *Computational process models of daily activity patterns*. Paper presented at the University of Eindhoven Colloquium, Eindhoven, The Netherlands.
- Golledge, R. G. (1995, May 25-28). *Defining the criteria used in path selection*. Paper presented at the International Conference on Activity based Approaches: Activity Scheduling and the Analysis of Activity Patterns. Also printed as a University of California Transportation Center Work Paper, UCTC No. 278, Eindhoven University of Technology, The Netherlands.
- Golledge, R. G. (1995, April 28). *Geography and the disabled: Assistive technology to improve access for blind and vision impaired persons*. Paper presented at the Inaugural Lecture of the Clyde Kohn Symposium Series, University of Iowa, Iowa City, IA.
- Golledge, R. G., Loomis, J. M., & Klatzky, R. L. (1995, March 17). *GPS, GIS, and PGS! Assistive Technology for Disabled People*. Paper presented at the Transportation and Society Seminar, The University of Michigan, Ann Arbor, MI.
- Golledge, R. G. (1995, March 14-18). *Geography and disability*. Paper presented at the Association of American Geographers Meeting, Chicago, IL.
- Golledge, R. G., & Couclelis, H. (1995, March 14-18). *Spatial analysis in the 2020's: A midway view*. Paper presented at the Association of American Geographers Meeting, Chicago, IL.
- Self, C., Golledge, R. G., & Montello, D. (1995, March 14-18). *The gendering of spatial abilities*. Paper presented at the Association of American Geographers Annual Meeting, Chicago, IL.
- Loomis, J. M., Golledge, R. G., & Klatzky, R. L. (1995, February 1-2). *Personal guidance system for blind persons*. Paper presented at the Conference on Orientation and Navigation Systems for Blind Persons, Hatfield, England.
- Golledge, R. G. (1995, February). *Public policy and the impacts of aging populations*. Paper presented at the Western Regional Science Association Meeting, San Diego, CA.

Invited Talks, Papers, and Presentations, cont'd.

Kwan, M.-P., & Golledge, R. G. (1995, January). *Integration of GIS with activity-based model in ATIS*. Paper presented at the Annual Meeting of the Transportation Research Board, Washington, DC.

1994

Golledge, R. G. (1994, November). *Disability, barriers and discrimination*. Paper presented at the Boston University and the Swedish Institute of Future Studies Colloquium, Boston, MA.

Loomis, J. M., Golledge, R. G., Klatzky, R. L., Speigle, J. M., & Tietz, J. (1994, October 13-November 1). *Personal guidance system for the visually impaired*. Paper presented at "Assets '94," The First Annual International ACM/SIGCAPH Conference on Assistive Technologies, Marina del Rey, CA.

Golledge, R. G. (1994, July). *Cognitive maps*. Paper presented at the Geography Alliance Program, University of California Santa Barbara, Santa Barbara, CA.

Golledge, R. G. (1994, June). *Disability, barriers and discrimination*. Paper presented at the International Conference on "The New Distributional Ethics: Differentiation and Discrimination", Gothenburg, Sweden.

Golledge, R. G. (1994, June). *Issues in Geography*. Paper presented at the Departments of Psychology and Geography Colloquium, University of Gothenburg, Gothenburg, Sweden.

Loomis, J., & Golledge, R. G. (1994, May). *Blind versus sighted wayfinding*. Paper presented at the Senior Engineering and Mechanical Engineering Association (SERT) Meeting, University of California, Santa Barbara, CA.

Loomis, J., & Golledge, R. G. (1994, June). *Personal Guidance System for the blind*. Paper presented at the 75th Anniversary Open House and 21st Century Technology Exhibit, Los Angeles Braille Institute, Los Angeles, CA.

Golledge, R. G., Bell, S., & Doherty, S. (1994, March 30-April 12). *The cognitive map as an internal GIS*. Paper presented at the 90th Annual Association of American Geographers Meeting, San Francisco, CA.

Kwan, M.-P., & Golledge, R. G. (1994, March 30-April 12). *Contributions of GIS to Advanced Traveler Information Systems (ATIS)*. Paper presented at the 90th Annual Association of American Geographers Meeting, San Francisco, CA.

Golledge, R. G. (1994, March 21-25). *Primitives of spatial knowledge*. Paper presented at the NATO Advanced Research Workshop, Palma de Mallorca, Iles de Balears, Spain.

Golledge, R. G. (1994, February). *Geography for the disabled: A series of experiments*. Paper presented at the University of Arizona Colloquium, Departments of Psychology and Geography, Tucson, AZ.

Kwan, M.-P., & Golledge, R. G. (1994, February 23-27). *Contributions of GIS to Advanced Traveler Information Systems (ATIS)*. Paper presented at the 33rd Annual Meeting of the Western Regional Science Association, Tucson, Arizona.

Golledge, R. G., Loomis, J. M., & Klatzky, R. L. (1994, February 20-26). *Auditory maps as alternatives to tactual maps*. Paper presented at the 4th International Symposium on Maps and Graphics for the Visually Impaired, São Paulo, Brazil.

Invited Talks, Papers, and Presentations, cont'd.

Loomis, J., & Golledge, R. G. (1994). *Use of an auditory VR system in Personal Guidance Systems for blind travelers*. Paper presented at the International Conference on Virtual Systems, Monaco.

1993

Golledge, R. G. (1993, July 11-14). *Time and space in route preference*. Paper presented at the Thirteenth Meeting of the Pacific Regional Science Conference Organization, and Seventeenth Annual Meeting of the Canadian Regional Science Association, Vancouver, British Columbia, Canada.

Loomis, J. M., Golledge, R. G., & Klatzky, R. L. (1993, June 17-18). *Personal guidance system for the visually impaired using GPS, GIS, and VR technologies*. Paper presented at the First Annual International Conference of Virtual Reality and Persons with Disabilities, San Francisco, CA.

Golledge, R. G., Dougherty, V., & Bell, S. (1993, April 6-11). *Survey versus route-based wayfinding in unfamiliar environments*. Paper presented at the 89th Annual Meeting of the American Association of Geographers, Atlanta, Georgia.

Golledge, R. G., Kwan, M. P., & Gärling, T. (1993, April 6-11). *Computational process modeling of household travel decisions using a Geographical Information System*. Paper presented at the Annual Meeting of the Association of American Geographers, Atlanta, GA.

1992

Golledge, R. G., & Johnson, R. A. (1992, April). *The interface of research and teachings methods for improving curricula: A case study of geography at UCSB*. Paper presented at the Annual Meetings, Association of American Geographers, Miami, FL.

Golledge, R. G. (1992, January 4-11). *A review of current behavioral approaches in geography*. Paper presented at the Second International Congress of Geography of the Americas, Lima-Cusco, Peru.

Golledge, R. G. (1992, January 27-31). *Do people understand spatial concepts? The case of first order primitives (Long Abstract)*. Paper presented at the Inaugural Joint Conference, New Zealand Geographical Society and Institute of Australian Geographers, Auckland, New Zealand.

1991

Golledge, R. G., Kwan, M. P., & Gärling, T. (1991, November 9). *Computational process modelling of travel decisions: Empirical tests*. Paper presented at the Meeting of the North-American Regional Science Association, New Orleans, LA.

Loomis, J. M., Golledge, R. G., & Klatzky, R. L. (1991, October). *Personal guidance system employing a virtual auditory display*. Paper presented at the IEEE ASSP Workshop on Applications of Signal Processing to Audio and Acoustics, New Paltz, NY.

Gärling, T., Kwan, M. P., & Golledge, R. G. (1991, September 2-4). *Computational-process modelling of travel decisions: Review and conceptual analysis*. Paper presented at the Symposium on microsimulation, Commission on Mathematical Models, International Geographical Union (IGU), Stockholm, Sweden.

Invited Talks, Papers, and Presentations, cont'd.

Golledge, R. G. (1991, July 18-19). *Teleshopping and telecommuting*. Paper presented at the Planning and Garbage Workshop, Department of Geographical Sciences and Planning, University of Queensland, Brisbane, Australia.

Golledge, R. G., Self, C., & Gopal, S. (1991, April). *Gender differences in spatial ability*. Paper presented at the Annual Association of American Geographers Meeting, Miami, FL.

Golledge, R. G., Flury, A., & Yang, X. L. (1991, February). *Navigation without sight: Components of an automated personal guidance system*. Paper presented at the 30th Annual Western Regional Science Association Meeting, Monterey, CA.

1990

Golledge, R. G. (1990, August). *Some relations between geographical and psychological space: The case of configurational (survey) knowledge*. Paper presented at the American Psychological Association, Boston, MA.

Pellegrino, J. W., Golledge, R. G., & Gale, N. (1990, July). *Integrating spatial knowledge: The transition from procedural to configurational knowledge*. Paper presented at the 22nd International Congress of Applied Psychology, Kyoto, Japan.

Golledge, R. G. (1990, July). *Navigation aids for the blind*. Paper presented at the 22nd International Congress of Applied Psychology, Kyoto, Japan.

Golledge, R. G., Flury, A., & Yang, X. L. (1990, April). *Navigation without sight: Components of an automated personal guidance system*. Paper presented at the Association of American Geographers Conference, Toronto, Canada.

1989

Golledge, R. G., Self, C., Fenstermaker, S., & Gopal, S. (1989, November). *An experimental design for investigating gender-related differences in the acquisition of spatial knowledge and spatial behavior*. Paper presented at the Regional Science Association Meeting.

Golledge, R. G. (1989, August 11-14). *Wayfinding behavior in complex environments: Insights from ants, children, and blind persons*. Paper presented at the President's Session of the Environmental Psychology Division, American Psychological Association, New Orleans.

Gärling, T., Brännäs, K., Garvill, J., Golledge, R. G., Gopal, S., Holm, E., & Lindberg, E. (1989, July 10-14). *Household activity scheduling*. Paper presented at the Fifth World Conference on Transport Research, Yokohama, Japan.

Golledge, R. G. (1989, April). *Geography in a complex world: Case studies of the behavior of special populations in today's urban areas*. Paper presented at the Colloquia Series honoring John Borchert, University of Minnesota, Minneapolis, MN.

Golledge, R. G. (1989, January). *Some elementary thoughts on the nature of spatial knowledge*. Paper presented at the NCGIA Meeting, Santa Barbara, CA.

1988

Golledge, R. G. (1988, August 31). *Comparison of field and laboratory experiments for children's navigation tasks*. Paper presented at the International Psychology Congress, Sydney, Australia.

Invited Talks, Papers, and Presentations, cont'd.

- Loomis, J. M., Golledge, R. G., Klatzky, R. L., Pellegrino, J. W., Doherty, S., & Cicinelli, J. (1988, August 28). *Analysis of navigation without sight*. Paper presented at the 24th International Congress of Psychology Meetings on Environmental Psychology, Sydney, Australia.
- Golledge, R. G. (1988, August 26). *Integrating spatial knowledge*. Paper presented at the Joint International Geographical Union and International Union of Psychological Science Session on Environment and Behavior: Future Research and Direction, Sydney, Australia.
- Golledge, R. G., Loomis, J. M., Klatzky, R. L., Pellegrino, J. W., Doherty, S., & Cicinelli, J. (1988, August 24). *Analysis of navigation without sight*. Paper presented at the 7th Australian Cartographic Conference on Tactual Mapping, Sydney, Australia.
- Golledge, R. G. (1988, August 18). *The conceptual and empirical basis of a general theory of spatial knowledge*. Paper presented at the International Geographical Union (IGU) Mathematical Models Workshop on Recent Developments in Discrete Choice Analysis, Canberra, Australia.
- Golledge, R. G. (1988, July 28). *Geography in a complex world: Comments on the spatial competence of humans and machines*. Paper presented at the Public Session of the IGU: Geography In A Complex World, Institute of Behavioral Sciences, University of Newcastle, Sydney, Australia.
- Golledge, R. G., Loomis, J. M., Klatzky, R. L., Pellegrino, J. W., Doherty, S. E., & Cicinelli, J. G. (1988, June 28-July 3). *Environmental cognition and assessment: Spatial cognition of the blind and visually impaired*. Paper presented at the U.S./Swedish Cooperative Science Seminar on Environmental Cognition and Assessment, Umeå, Sweden.
- Golledge, R. G. (1988, May 1). *Spatial cognition and wayfinding in complex urban environments*. Paper presented at the Cognitive Science Spatial Cognition Seminars, University of California Santa Barbara.
- Golledge, R. G. (1988, April 28). *Geography and the disabled*. Paper presented at the San Diego State University Colloquia, San Diego, CA.
- Golledge, R. G. (1988, April 9). *Comments on "The Saving of Geography: Some Impacts of the Quantitative Revolution" by R. Morrill*. Paper presented at the Annual Meeting of the Association of American Geographers, Phoenix, AZ.
- Golledge, R. G., Odland, J., & Rogerson, P. (1988, April 8). *Progress in the development of mathematical and statistical models*. Paper presented at the Annual Meeting of the Association of American Geographers, Phoenix, AZ.
- 1987**
- Golledge, R. G. (1987, October 9). *Geography of and for the mentally retarded and the blind*. Paper presented at the UCLA Colloquia Series, Los Angeles, CA.
- Golledge, R. G. (1987, May). *Behavioural approaches to urban problems*. Paper presented at the Institute of Urban Studies, Urban Studies Institute, Universidad Complutense, Madrid, Spain.

Invited Talks, Papers, and Presentations, cont'd.

Golledge, R. G. (1987, April). *Development of individualized computer operating systems (ICOS): Resolving problems of the visually handicapped or blind geographer*. Paper presented at the Annual Meeting of the Association of American Geographers, Portland, OR.

1986

Golledge, R. G. (1986, November 14). *Elements of images: Problems in the reconstruction of images from components*. Paper presented at the Regional Science Association Meetings, Columbus, Ohio.

Golledge, R. G. (1986, June). *Multiple realities*. Paper presented at the University of California Santa Barbara Conference: 'Toward a Synthesis of Science and Humanism in Geography', Santa Barbara, CA.

Golledge, R. G. (1986, April 18). *Assaulting the print and technology barriers: The use of audio systems technology to facilitate computer interaction and training programs for rehabilitation of the vision impaired*. Paper presented at the Community Service Lecture, Institute of Behavioural Sciences, University of Newcastle, NSW, Australia.

Golledge, R. G., Peters, J. M., & Harp, K. L. (1986, April 18). *Cracking the print barrier for the blind and visually impaired: Ontogenesis of the system*. Paper presented at the Community Service Lecture, Institute of Behavioural Sciences, University of Newcastle, NSW.

Gärling, T., & Golledge, R. G. (1986, April 9-13). *Psychological response to environment: Environmental perception, cognition, meaning, and symbolism*. Paper presented at the Seventeenth Annual Conference of the Environmental Design Research Association: The Costs of Not Knowing, Atlanta, GA.

1984

Golledge, R. G. (1984, June). *Matrix comparison methods for the evaluation of alternative regional forecasting models*. Paper presented at the U.S./Australia Cooperative Science Workshop, Palm Springs, CA.

Golledge, R. G. (1984, June). *Retailing and shopping center location in the 1980s*. Paper presented at the Australian Institute of Urban Studies Symposium, Melbourne, Australia.

Golledge, R. G. (1984, June). *Trends and prospects in shopping center location: U.S. and Australian examples*. Paper presented at the Australian Institute of Urban Studies Symposium, Canberra, Australia.

Golledge, R. G. (1984, May). *A general overview of shopping center and other retail developments in the USA, Australia and other counties: Past history and problems of the 1980s*. Paper presented at the Australian Institute of Urban Studies Workshop on Issues and Problems in Developing Retail Policy, Sydney, Australia.

Golledge, R. G. (1984, May). *General principles and approaches to economic impact assessment - how to tackle the task and the methods that can be used*. Paper presented at the Australian Institute of Urban Studies Workshop on Assessing Economic Impact of Retail Centre Development, Sydney, N.S.W.

Invited Talks, Papers, and Presentations, cont'd.

- Golledge, R. G. (1984, May). *Issues in economic impact and retail development - general concepts of externality, equity, efficiency, social justice: Why economic impact studies make sense and the pros and cons of such studies from different points of view*. Paper presented at the Australian Institute of Urban Studies Workshop on Assessing Economic Impact of Retail Centre Development, Sydney, N.S.W.
- Golledge, R. G. (1984, May). *The role of government: The development of economic impact issues, government responsibilities, and legislative actions*. Paper presented at the Australian Institute of Urban Studies Workshop on Issues and Problems in Developing Retail Policy, Sydney, Australia.
- Golledge, R. G. (1984). *Disaggregate behavior and decision making models*. Paper presented at the U.S./UK Joint Workshop on Interfacing Micro and Macro Models of Human Spatial Behavior, Ventura, CA.

1983

- Golledge, R. G., Smith, T. R., Pellegrino, J. W., Doherty, S., Marshall, S. P., & Lunderg, G. (1983, July). *The acquisition of spatial knowledge: Empirical results and computer models of path finding processes*. Paper presented at the XIX Inter-American Congress of Psychology, Quito, Ecuador.
- Hubert, L. J., Golledge, R. G., Costanzo, C. M., & Gale, N. (1983, July). *Measuring association between spatially defined variables: An alternative procedure*. Paper presented at the Joint Meeting of the Psychometric Society and Classification Society, Paris, France.
- Hubert, L. J., Golledge, R. G., Costanzo, C. M., & Gale, N. (1983, July). *Order-dependent measures of correspondence for comparing proximity matrices and related structures*. Paper presented at the Joint Meeting of the Psychometric Society and Classification Society, Paris, France.
- Golledge, R. G. (1983, May). *Development theory and the acquisition of spatial knowledge*. Paper presented at the Cambridge University Colloquium.
- Golledge, R. G. (1983, May). *Modeling the development of spatial knowledge*. Paper presented at the Sheffield University Colloquium, Sheffield, UK.
- Golledge, R. G. (1983, May). *Positivist philosophy and behavioral research in geography*. Paper presented at the University of Bristol Colloquium, Bristol, UK.
- Golledge, R. G. (1983, April). *The spatial competence of the borderline retarded*. Paper presented at the Fourteenth International Conference of the Environmental Design Research Association (EDRA), Lincoln, NE.
- Hubert, L. J., Golledge, R. G., Costanzo, C. M., & Gale, N. (1983, March). *Order-dependent measures of correspondence for comparing proximity matrices and related structures*. Paper presented at the NATO Conference on Qualitative Spatial Data, Amsterdam, Netherlands.

1982

- Gale, N. D., Hubert, L., Tobler, W. R., & Golledge, R. G. (1982, November). *Combinatorial procedures for the analysis of alternative models: An example from interregional migration*. Paper presented at the North American Meetings of the Regional Science Association, Pittsburgh, PA.

Invited Talks, Papers, and Presentations, cont'd.

- Golledge, R. G., & Hubert, L. (1982, August). *Interfacing micro and macro approaches in geographical analysis: Some epistemological and practical problems*. Paper presented at the IGU Working Group on Mathematical Models and Systems Analysis, Rio De Janeiro, Brazil.
- Golledge, R. G., Hubert, L. J., & Costanzo, C. M. (1982, April). *Combinatorial data analysis procedures for the evaluation of alternate models*. Paper presented at the 13th Annual Modeling and Simulation Conference, Pittsburgh, PA.
- Golledge, R. G., & Couclelis, H. (1982, April). *Positivist philosophy and research on human spatial behavior*. Paper presented at the Annual Conference of the Association of American Geographers, San Antonio, TX.
- Hubert, L. J., Golledge, R. G., Kenney, T., & Costanzo, C. M. (1982, February). *A methodology for evaluating classification schemes used in reporting criminal justice data*. Paper presented at the Western Regional Science Association Meetings, Santa Barbara, CA.
- 1981**
- Gale, N. D., & Golledge, R. G. (1981, April). *An analysis of the distortion and fuzziness of cognitive maps by location*. Paper presented at the Annual Meeting of the Association of American Geographers, Los Angeles, CA.
- 1980**
- Hubert, L. J., & Golledge, R. G. (1980, November). *Heuristic methods for the comparison of related structures: The case of MDS analysis of crime data*. Paper presented at the North American Regional Science Congress, Milwaukee, WI.
- Golledge, R. G. (1980, October). *Cognitive mapping and multidimensional scaling*. Paper presented at the Human Factors Society Annual Meeting, Los Angeles, CA.
- Parnicky, J. J., Golledge, R. G., & Rayner, J. N. (1982, September). *An exploratory effort at determining the mental maps of retarded adults of their neighborhoods*. Paper presented at the Annual Meeting of the American Psychological Association, Montreal, Canada.
- Hubert, L. J., Golledge, R. G., Kenney, T., & Richardson, G. (1980, September). *Unidimensional seriation: Implications for evaluating criminal justice data*. Paper presented at the IGU Conference, Tokyo, Japan.
- Hubert, L. J., Golledge, R. G., Costanzo, C. M., & Richardson, G. (1980, August). *Assessing homogeneity in cross-classified proximity data*. Paper presented at the Pre-Congress Meetings of the IGU Subgroup on Mathematical Modeling, Nagoya, Japan.
- Golledge, R. G. (1980, August). *Geography and process philosophy: A position paper*. Paper presented at the Special International Conference on Philosophy in Geography, Bellagio, Italy.
- Parnicky, J. J., Golledge, R. G., & Rayner, J. N. (1980, June 20). *Mental maps of mentally retarded adults of their neighborhood*. Paper presented at the American Association for the Study of Mental Imagery, Minneapolis, MN.

Invited Talks, Papers, and Presentations, cont'd.

Golledge, Richardson, G. D., Rayner, J. N., & Parnicky, J. (1980, June). *Cognitive maps of the mildly and moderately mentally retarded: A preliminary analysis*. Paper presented at the Annual Meeting of the Association of Pacific Coast Geographers, Reno, NV.

Golledge, R. G., Rayner, J., & Parnicky, J. (1980, May). *An exploratory study of how retarded adults perceive environmental cues*. Paper presented at the Annual Meeting of the American Association of Mental Deficiency, San Francisco, CA.

Hubert, L. J., Kenney, T., Golledge, R. G., & Costanzo, C. M. (1980, April). *Aggregation in data tables: Implications for evaluating criminal justice statistics*. Paper presented at the Annual Meeting of the Association of American Geographers, Louisville, KY.

1979

Golledge, R. G., Parnicky, J. J., & Rayner, J. N. (1979, April). *An experimental design for assessing the spatial competence of retarded individuals*. Paper presented at the Annual Meeting of the Association of American Geographers, Philadelphia, PA.

Golledge, R. G. (1979, January). *Behavioral problems in urban environments*. Paper presented at the Geography Section, ANZAAS, Auckland, New Zealand.

1978

Golledge, R. G. (1978, July). *Some comments on non-Euclidean mental maps*. Paper presented at the International Geographical Union, Working Group on Systems Analysis and Mathematical Models, Lagos, Nigeria.

Golledge, R. G. (1978, April). *Behavioral travel models--what are we modelling?* Paper presented at the Annual Meeting of the Association of American Geographers on "Issues and the Quantitative Analysis of Travel Behavior", New Orleans, LA.

1977

Golledge, R. G. (1977, November). *Representing, interpreting and using cognized environments*. Paper presented at the Annual Meeting of the Regional Science Association, Philadelphia, PA.

Golledge, R. G. (1977, October 2-4). *Environmental cues, cognitive mapping, and spatial behavior*. Paper presented at the University of Wisconsin Conference on Research Methods and Behavior, Madison, WI.

Golledge, R. G. (1976). *Current directions in geography and regional science*. Paper presented at the Inaugural Meeting of the Australia and New Zealand Regional Science Association, Brisbane, Australia.

1975

Golledge, R. G. (1975). *On reality and reality*. Paper presented at the Annual Meeting of the Association of American Geographers, Milwaukee, WI.

Golledge, R. G., & Rivizzigno, V. L. (1975). *Methods for recovering cognitive information about a city*. Paper presented at the North American Classification Society and Psychometric Society Meetings, Iowa City, IA.

Spector, A. N., Rivizzigno, V. L., & Golledge, R. G. (1975). *The analysis of individual cognitive configurations of the city using multidimensional scaling*. Paper presented at the Annual Meeting of the Canadian Geographers Association, Vancouver, Canada.

Invited Talks, Papers, and Presentations, cont'd.

1974

Golledge, R. G. (1974). *Relationships between cognitive maps and intra-urban movement behavior*. Paper presented at the Population Symposium, IGU Regional Conference, New Zealand.

Golledge, R. G., Rayner, J. N., & Rivizzigno, V. L. (1974). *The recovery of cognitive information about a city*. Paper presented at the North American Classification Society and Psychometric Society Meetings, Iowa City.

Golledge, R. G., Rivizzigno, V. L., & Spector, A. (1974). *An experimental design for recovering cognitive information about a city*. Paper presented at the Annual Meeting of the Association of American Geographers, Seattle, WA.

Golledge, R. G., Rivizzigno, V. L., & Spector, A. (1974). *Analytical methods for recovering cognitive information about a city*. Paper presented at the IGU Regional Conference, Palmerston North, New Zealand.

1973

Golledge, R. G., & Rivizzigno, V. L. (1973). *Learning about a city - analysis by multidimensional scaling*. Paper presented at the Annual Meeting of the Association of American Geographers, Atlanta, GA.

1971

Golledge, R. G. (1971, January). *Theoretical issues in environmental cognition research: A geographer's viewpoint*. Paper presented at the Environmental Design and Research Association Conference #3, Symposium on Environmental Cognition, Los Angeles, CA.

Golledge, R. G., & Brown, L. (1971). *Some approaches to the analysis of spatial search behavior*. Paper presented at the Annual Meeting of the Association of American Geographers.

Golledge, R. G., & Zannaras, G. (1971). *Methodological approaches to the cognition of urban spatial structure*. Paper presented at the Environmental Design and Research Association Conference, Los Angeles, CA.

Murphy, P. E., & Golledge, R. G. (1971, March). *The position of attitude theory and research as a potential variable in urban geography research*. Paper presented at the Western Meeting of the Canadian Geographer's Association, Vancouver, Canada.

1970

Golledge, R. G. (1970, April). *Process approaches to the analysis of human spatial behavior*. Paper presented at the National Science Foundation Seminar on Form and Process, Ann Arbor, MI.

Golledge, R. G., & Rushton, G. (1970, September 21-24). *Multidimensional scaling: Review and geographical applications*. Paper presented at the International Geographical Union, Commission on Quantitative Geography, A. Mickiewicz University, Poznan, Poland.

1969

Brown, L. A., J., O., & Golledge, R. G. (1969, April). *Migration, functional distance, and the urban hierarchy*. Paper presented at the American Population Association Meetings.

Golledge, R. G. (1969). *Equilibrium models of spatial behavior*. Paper presented at the IGU Conference on Quantitative Methods, Ann Arbor, MI.

Golledge, R. G., Briggs, R., & Demko, D. (1969). *The configuration of distances in intra-urban space*. Paper presented at the Annual Meeting of the Association of American Geographers.

1965

Rushton, G., Golledge, R. G., & Clark, W. A. V. (1965, April). *Towards a geography of consumption*. Paper presented at the Annual Meeting of the Association of American Geographers, Columbus, OH.

1964

Golledge, R. G., Rushton, G., & Clark, W. A. V. (1964). *Some spatial characteristics about Iowa's farm population and their implications for the grouping of central place functions*. Paper presented at the Annual Meeting of the Association of American Geographers, West Lake, CA.

1963

Golledge, R. G. (1963). *The development of manufacturing in New Zealand*. Paper presented at the New Zealand Institute of Public Administration, Christchurch, New Zealand.

Golledge, R. G. (1963). *Internal traffic patterns in metropolitan Christchurch*. Paper presented at the New Zealand Institute of Public Administration, Christchurch, New Zealand.

1962

Golledge, R. G. (1962). *Commodity flow and market areas in the South Island of New Zealand*. Paper presented at the New Zealand Science Congress, Christchurch, New Zealand.

MEDIA PUBLICITY

Yahoo! News (March, 2002) Article by Kimberly Hill: *Sci-Tech: Brain Creates, Updates Internal Maps of Environment*

http://story.news.yahoo.com/news?tmpl=story&u=nf/20020312/tc_nf/16722&printer=1

Interviewed for Japanese television program, April, 2001.

KCBX (New York) radio interview on Navigation and Wayfinding, April 19, 2000.

The New York Times: Angier, N. (1999, Tuesday, June 22). Directionless? Scientists offer some clues. *The New York Times*, pp. Science: D1-D2.

Government Technology (Supplement) (December, 1996) Objects speak so the blind can walk (article on PGS, pp. 12-14).

GIS World (October, 1996) GIS/GPS provide system for the blind (article on PGS, vol.9 (10), p. 14).

Professional Surveyor (October, 1996) GIS/GPS provides high tech help for the blind (article on PGS, Vol 16(7), p. 52).

Reader's Digest (August, 1996) Never get lost again (article on PGS, pp. 55-59).

GPS for Blind Travelers. Talk on Australian National Radio (ABC), Melbourne, Australia, April, 1996.

Scientific American (February, 1996) The Global Positioning System (article including details of PGS, pp. 44-50).

ADVANCE for Occupational Therapists (January 8, 1996) Stahl, C., A guiding star for people without sight, *ADVANCE for Occupational Therapists*, p.17 (article on PGS).

International magazine and newspaper coverage of the Personal Guidance System, including: *ABC* (Spanish newspaper, December 1995) Lazarillos electrónicos: Cuando el oído sustituye a la vista (article on PGS in Science section, p. 56); *Sciences et Avenir* (French magazine, December 1995) La "réalité augmentée" (article on PGS in Techno Informatique section, p. 107); *Super Interessante* (Brazilian magazine, December 1995) Cegos teleguiados por satellite (article on PGS in Supernoticias section, p. 10); and numerous write-ups in other countries such as the U.S.A. (including the *New York Times*, 4/13/94, B6 & 9/16/94, C1), Italy, Portugal, Thailand, Mexico, Japan, etc.

National Geographic (October, 1995) Information revolution (article including details of PGS, pp. 5-37).

GPS for Visually Impaired People. television program: "Bad Influence" - Yorkshire Television, Yorkshire, England, August, 1995.

Media Publicity Cont'd.

Today's Science on File (May, 1995) New technologies aid people with disabilities (article on PGS, vol. 3(9), p. 202).

MIT Technology Review (April 10, 1995) High-tech help for the blind (article on PGS).

Graduating Engineer (December, 1994) How do you find the best Chinese food in town? (article on PGS in Passages section, p. 14).

Focus Magazin (German magazine, November, 1994) Signale aus dem All leiten Blinde (article on PGS in Forschung & Technik section, Vol. 44, p. 218).

Beyond 2000, Discovery Channel television program, (taped April, 1994) The Personal Guidance System (with J. Loomis and J. Teitz), aired summer 1994 (Australia), Winter 1995 (USA)

The New York Times (September 6, 1994) Sonic Device for Blind May Aid Navigation. *The New York Times*, *Science Times*, pp. B5-B6.

Pulse of the Planet, radio program, (taped April, 1994) The Personal Guidance System. Aired on over 200 public and commercial stations (USA) May, 1994.

FLASH News Service (San Diego, CA) (taped November, 1993) 10 minute interview on the Personal Guidance System. Distributed to network services (1000+ USA stations) aired January, 1994.

KFON Radio (Austin, TX) live Talk Radio interview on Personal Guidance System, January 1994.

KNEX (Ventura, CA) live Talk Radio interview on Bob and Dave show, January, 1994.

WARM (Scranton, PA) live radio interview on Personal Guidance System, January, 1994

Smithsonian, May (1984) Article by Parfit, M. about research activities of R. G. Golledge: *Mapmaker who charts our hidden mental demons*, pp.123-131.

PROFESSIONAL ACTIVITIES & HONORS

Professional Committees, Offices, Awards

1. 1998 AAG/NGS Joint Committee 1998-2001.
2. Editorship: *Special Issue of the Journal of Geographical Systems*, April, 1998
3. 1995 Best Content Award for *Journal of Geography* article: "Sex-related Differences in Spatial Ability. What Every Geographer Should Know" (co-authored with Carole Self) by National Council for Geographic Education (NCGE).
4. AAG Honors Committee, 1997-99; Chair, 1998-1999
5. Chair of Program Committee for 88th Annual Meeting of the Association of American Geographers, San Diego, CA, 1991.
6. Faculty Club Board of Directors, 1989-2002
7. Listed as Gamma Theta Upsilon/AAG Visiting Geographical Scientist for 1983–84, 1995-97, 1998-1999
8. Member of the AAG Committee on the Status of Women in Geography, 1981–82
9. AAG Program Committee, 1980–81
10. AAG Honors Committee, 1977–78
11. AAG Program Committee, 1974–75
12. AAG Ad Hoc Committee on Research Development, 1974
13. Co-organizer (with G. Moore) of Symposium on Environmental Cognition at the Environmental Design and Research Association Conference, Blacksburg, VA, 1973
14. Co-organizer (with G. Rushton) of Symposium on MDS of Preferences and Perceptions at the AAG Conference, Atlanta, GA, 1973
15. Discussant, Symposium on Cognitions of Large Scale Environments, EDRA, 1973.

UCSB COMMITTEES

1. **UNIVERSITY:**
 - a) Program Review Panel (PRP), 1998-2000.
 - b) Rules and Jurisdiction Committee, Academic Senate 1993-98
 - c) Americans with Disabilities (ADA) Committee 1992-1993, 1996-1999.
 - d) UC Committee to revise Education Abroad Program, 1992-1993
 - e) ADA Compliance Committee, 1993-1994, 1996-1999.
 - f) Public Safety Committee 1992-94
 - g) Committees on Committees 1991-93

Professional Activities & Honors Cont'd.

- h) Chairman, Faculty Club Board of Directors, 1991-1993
- i) Chancellor's Objectives Task Force 1987–88
- j) Advisory Committee to Academic Senate Chair 1987–88
- k) Screening Committee, Vice Chancellor, Institutional Advancement, 1988
- l) Chairman, Campus Planning Committee, 1986–1987
- m) Chairman, Committee on Committees, 1987–88
- n) Committee on Committees 1986–87
- o) ORDA Review Committee, 1986–87
- p) UCSB faculty representative on the Committee to select the new University President, 1982–83
- q) Chancellor's Ad Hoc Committee on Prop. 9, 1980
- r) Campus Planning Committee, 1979–80
- s) Committee on Educational Policy and Academic Planning, 1978–80
- t) Committee on Special Education, 1978–80

2. COLLEGE:

- a) Provost Search Committee, L&S, 1994
- b) Chairman, Letters & Science Executive Committee, 1988–89
- c) Member of the Hutchin's Center Review Committee, 1984–85
- d) Dean's Advisory Committee, 1982–1984
- e) Various Ad Hoc Committees on Tenure and New Appointments
- f) Chairman, Advisory Committee of the Social Process Research Institute, 1978–80
- g) Environmental Studies Executive Committee, 1977–80
- h) Joint CEPAP–L&S Committee on Statistics, 1978–79
- i) Education Abroad Program, 1977–79
- j) Member, Committee on Ergonomics and Physical Education, 1978

3. DEPARTMENTAL:

- a) Executive Committee, 1991-01, Member
- b) Graduate Committee, 1991-97, Member
- c) Chair, Colloquia Committee, 1991-98, Member 1998
- d) SDSU Joint Ph.D. Committee, 1988–89, 1991-97, Member
- e) Chair, Academic Planning Committee 1991-92
- f) Affirmative Action Committee, 1991-92 Member,

Professional Activities & Honors Cont'd.

- g) Chair, Academic Planning Committee 1988–89
- h) Affirmative Action Committee 1988–89
- i) Cartography Search Committee 1988–89
- j) Human Geography Program Committee 1987–88
- k) Executive Committee 1987–89
- l) Outstanding Geography Graduate Nomination Committee 1987–88
- m) Chairman, Department of Geography, 1980–1984
- n) Publication/Publicity Committee, 1982–present
- o) Equipment Committee, 1983
- p) Outstanding Geography Graduate Nominations Committee, 1981–84
- q) Computer Budget Committee, 1979–84
- r) Graduate Announcement Committee, 1979–84
- s) Ph.D. Programs and Joint Programs Committee, 1978–80
- t) Graduate Advisor, 1977–80
- u) Visiting Lectures Committee, 1977–84
- v) Graduate Committee, 1977–84

OHIO STATE COMMITTEES

1. COLLEGE:

- a) Rules & Jurisdiction, 1994-1998
- b) Committee on Committees, 1986-1994 (Chairman, 1987-1988)
- c) Educational Policy and Academic Planning, 1978-1980
- d) SBS Research Committee, 1972–77 (Chairman, 1973–76)
- e) Admin. Science Quant. & Data Center Committee, 1968–77

2. DEPARTMENTAL:

- a) Ad Hoc Committee, 1973–74
- b) Computer Committee, 1972–77
- c) Discussion Paper Committee, 1971–77
- d) Visiting Lectures, 1969–77
- e) Personnel Committee, 1973
- f) Curriculum Committee, 1967–70

Professional Activities & Honors Cont'd.

g) Graduate Committee, 1968–70

EDITORIAL ACTIVITY

1. Advisory Editor for the *Journal of Spatial Cognition and Computation* published by Kluwer Academic Press. (1997)
2. Advisory Editor, *The Professional Geographer*, 1996 - present
3. Editorial Board, *Tijdschrift voor Econ. En Soc. Geog* (Journal of Economic and Social Geography) published by Royal Dutch Geographical Society, 1986-present
4. Editorial Board, *Applied Geography Studies*, 1996- present
5. Editorial Advisors Board, *Annals* Association of American Geographers, 1977-78, 1988-93
6. Co-Editor, *Urban Geography*, 1978–84
7. Editor, *Geographical Analysis*, 1973–78
8. Associate Editor and Book Review Editor, *Geographical Analysis*, 1971–73
9. Consulting Editor, *Environment & Behavior*, 1971–81
10. Advisory Editor, *The Professional Geographer*, 1972 - 76
11. Editorial Advisory Board, *Australian Geographical Studies* (Journal of the Institute of Australian Geographers), 1997-present
12. Reviewer for: *Annals* of the Association of American Geographers; *Environment & Planning A*; *Environment & Behavior*; *The Professional Geographer*; *Urban Geography*; *Geographical Analysis*; *Journal of Environmental Psychology*; *Antipode*, *IBG*; *Transactions*; *The Computer Journal*; *Natural Sciences and Environmental Division*, *Canada Council*; *Regional Science*; *NSF Decision Science*; *Perceptual and Motor Skills*; *Cognitive Psychology*
13. Reviewer for: Basic Research Foundation, Israel Academy of Sciences and Humanities; The Israel Foundation; Social Sciences and Humanities Research Council of Canada

OTHER PROFESSIONAL ACTIVITY

1. MEMBERSHIPS:

- a) Editorial Board Member for *AAG Annals: Methods, Models and Geographic Information Sciences*
- b) Advisory Council for the International Biographical Centre
- c) American Association for the Advancement of Science
- d) AAG Mathematical Models & Quantitative Methods Specialty Group
- e) Psychometric Society
- f) Association of American Geographers
- g) Regional Science Association International
- h) Western Regional Science Association
- i) Institute of Australian Geographers
- j) American Psychological Society

2. BOARDS AND SPECIALTY GROUPS

- a) Founding Board Member of Wayfinding Foundation, Inc.
- b) Founding Board Member of the New Media Studio
- c) Finding a Way Advisory Committee, National Council for Geographic Education, 1996-97.
- d) Scientific Committee Member of World Conference on Transport Research Society (WCTRS) for 1996-2005.
- e) Association of American Geographers Mathematical Models and Quantitative Methods Specialty Group.
- f) Listed as Gamma Theta Upsilon/American Association of Geographers visiting Geographic Scientist, 1983-4, 1992-1997.
- g) Technical Advisor to Quantum Industries and Humanware, Inc. on NOMAD Project.
- h) Overseas Member of University of Newcastle Institute of Behavioural Studies.

PRE-1993 INSTITUTIONS WHERE INVITED PRESENTATIONS WERE GIVEN:

- a) USA: Universities of: Iowa; Minnesota; Ohio State; Michigan; Chicago; Northwestern; Michigan State; Indiana; Illinois; Penn State; SUNY Buffalo; Clark; CUNY Graduate School of Psychology; Johns Hopkins; Kentucky; Cincinnati; Akron; Kent State; Nebraska; Texas at Austin; UCLA; UC Berkeley; Oregon State, San Diego State.
- b) Canada: Universities of: British Columbia; Alberta; Calgary; Toronto; McMaster; McGill.
- c) Europe: Universities of: Cambridge (UK); Bristol (UK); Sheffield (UK); Universidad Complutense de Madrid (Spain); Umeå (Sweden) University of Technology (Austria).
- d) Australia and New Zealand: Universities of: Sydney; NSW; Melbourne; Monash; Adelaide; Flinders, Perth; New England; Newcastle; Australian National University; Canberra University College; University of Queensland; James Cook; Auckland; Waikato; Wellington; Christchurch; Otago; Queensland University of Technology.

OTHER HONORS

Featured in "International Encyclopedia of Human Geography (HUGY)", by G. Rushton (2009) Elsevier, Inc.

(Listed in "International Who's Who of Professionals" (1995 to present) Jacksonville, NC: Gibraltar Marketing LTD.

Listed in "2,000 Notable American Men" Third Edition. (1994) Raleigh, NC: American Biographical Institute.

Listed in "Who's Who in the West" 24th Edition, (1993) Providence, NJ: Marquis Who's Who.

Listed in "Who's Who in American Authors" (1986 to present) Providence, NJ: Marquis Who's Who.

Listed in "The International Who's Who of Intellectuals (1984 to present) Volume VI. Cambridge: International Biographical Centre.

Listed in "Who's Who in the Commonwealth" (1982 to present) Volume 1, Cambridge: International Biographical Centre.