

## CURRICULUM VITÆ

### BILLIE LEE TURNER II

Gilbert F. White Professor of Environment and Society  
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**PERSONAL DATA:** DOB- December 22, 1945, Texas City, TX

**EDUCATION:** B.A. University of Texas at Austin, 1968 (Geography)  
M.A. University of Texas at Austin, 1969 (Geography)  
Ph.D. University of Wisconsin, Madison, 1974 (Geography)

#### PROFESSIONAL POSITIONS:

1974-76 Assistant Professor, Department of Geography, University of Maryland, Baltimore County  
1975-76 Research Associate, Department of Geography, University of Oklahoma  
1976-79 Assistant Professor, Department of Geography, University of Oklahoma  
1980-81 Assistant Professor, Graduate School of Geography, Clark University  
1981-85 Associate Professor, Graduate School of Geography, Clark University  
1983-88, 97-98  
2004-2008 Director, Graduate School of Geography, Clark University  
1985-2008 Professor, Graduate School of Geography, Clark University  
1991-97 Director, George Perkins Marsh Institute, Clark University  
1995-2008 Milton P. & Alice C. Higgins Professor of Environment and Society, Clark University  
2008-pr Research Professor, Clark University  
2008-pr Gilbert F. White Professor of Environment and Society, School of the Geographical Sciences, Arizona State University

#### PROFESSIONAL SERVICE:

1978 & 81 Associate Editor, *Proceedings of the Conference of Latin Americanist Geographers*  
1980-88 Book Review Editor (or Co-Editor), *Economic Geography*  
1981-84 A.A.G. Representative to Section H (Anthropology), A.A.A.S.  
1983-85 Editorial Board, *Professional Geographer*  
1985 Contributor to IV-3, A Geographical Bibliography for American Libraries  
1985-86 N.S.F. Review Panel, Geography and Regional Science  
1985-pr Editorial Board, *Annals of the Association of American Geographers*  
1986-88 Regional Councilor, Cultural Ecology Specialty Group, A.A.G.  
1986-87 Chair, Nominations Committee, A.A.G.  
1987-91 Coordinator, The Earth as Transformed by Human Action Program  
1987 Testimony, status of geographic education, U.S. Senate Subcommittee on Education, Arts, and Humanities, Oversight Committee on Geography Education, Oct. 29  
1988 Oversight Committee, Geography and Regional Science Program, NSF  
1988-92 Chair, International Geographical Union, Study Group on the Historical Geography of Global Environmental Change  
1988-92 Planning Committee, International Geographical Congress, 1992  
1989-92 US/Soviet Geography Subcommission of the US/Soviet Commissions in the Social Sciences and the American Council of Learned Societies  
1989 Study Group on Human Interactions, Committee on Global Change, National Research Council  
1989-01 Editorial Board, *Mesoamerican Archaeology*  
1989-90 Lead Reviewer, geography programs of the State University System of Florida  
1989-94 Committee for Research on Global Change, Social Science Research Council

- 1989-93 Committee on the Human Dimensions on Global Change, National Research Council
- 1989-97 U.S. National Committee (AAG) of the International Geographical Union, National Research Council
- 1990 Review Panel, U.S. Global Change Research Program, Committee on Earth Sciences
- 1990 Issues Identification Panel, Consortium for International Earth Science Information Network (CIESIN)
- 1990-91 Chair, 1991 Global Change Institute on Global Land-Use Change, Office of Interdisciplinary Earth Studies-UCAR
- 1991-93 Chair, Ad-hoc Committee on Global Land-Use Change, International Geosphere-Biosphere Programme & Human Dimensions Programme
- 1991-94 National Councilor, Association of American Geographers (1992-93, Chair, Publications Committee)
- 1991-92 Co-Chair, 1992 SCOPE Scientific Symposium
- 1991-92 Ad-hoc Meeting on Integrated Observing Systems for Global Change, National Research Council
- 1991 Carbon Cycling Workshop, Electric Power Research Institute
- 1992 U.S. Delegate, International Geographical Congress
- 1992-93 Science Committee, Workshop on Methods for Assessing the Impacts of Climate Change on Natural Resources, Resources for the Future
- 1992 Program Committee, Assessing the Consequences of Global Change for Forestry, Agriculture, and Water Resources, CEMP, SSRC & ESSC
- 1992-95 Chair, Core Project Planning Committee on Global Land-Use/Cover Change, International Geosphere-Biosphere Programme-Human Dimensions Program
- 1992 Ad-hoc Task Force on Population Change and Land Use In Developing Countries, Committee on Population, National Research Council
- 1993 CIESIN Science Advisory Committee, Chair
- 1993 Dialogue on Global Population/Global Resources, Committee on Science and Human Values, National Conference of Catholic Bishops
- 1993-96 Rediscovering Geography Committee, National Research Council
- 1993 Editorial Board, *Human Dimensions Quarterly*
- 1994-99 Editorial Board, *Consequences*
- 1994-98 Global Change Research Committee, AAG
- 1994 Co-Chair, Aspen Global Change Institute, Surprises in Global Environmental Change
- 1994-97 Steering Committee, Land use/Land Cover Project, International Institute for Applied Systems Analysis
- 1995-2000 Advisory Committee on Special Projects, Center for Advanced Studies in the Behavioral Sciences
- 1995 Working Group on the new Encyclopedia of the Social Sciences, Elsevier (CASBS)
- 1995-96 International Scientific Steering Committee, Open IGBP/BACH-LUCC Joint Inter-Core projects Symposium on Interactions between the Hydrological Cycle and Land Use/Cover, Nov. 4-7, 1996, Kyoto, Japan
- 1996-99 Area Editor, *The Encyclopedia of Global Environmental Change*, Oxford University Press.
- 1996-2001 Scientific Steering Committee, Core Project/ Research Programme on Land-Use/Cover Change, IGBP-IHDP
- 1996-04 Editorial Board, Oxford Geographical and Environmental Studies, Oxford University Press
- 1996-04 Steering Committee, Center for Integrated Assessment of the Human Dimensions of Global Environmental Change, Carnegie Mellon University
- 1997-98 Program Committee, A. A. G.
- 1997-98 Science Committee, Earth's Changing Land, GCTE-LUCC Open Science Conference on Global Change, Barcelona, 14-18 March 1998.

1997-2000	Committee on the Relationship between Population Growth and Land Use Change in China, India, and the United States of America, National Research Council
1997-2001	Area Editor, Environmental/Ecological Sciences, <i>International Encyclopedia of Social and Behavioral Sciences</i> (Elsevier)
1997-2003	Chair, Committee on Geography, National Research Council
1998-2001	U.S. National Delegate, International Geographical Union
1999-pr	Guggenheim Foundation (reviewer for Geography and Latin America)
1999-2000	Committee on Grand Challenges in Environmental Sciences, National Research Council
1999-2001	Chair, Section 53, Class 5, National Academy of Sciences
1999-2000	Ad-hoc Committee, US National Committees, NRC
2000-03	Advisory Board, National Center for Spatially Integrated Social Science, UCSB
2000	Ad-Hoc Futures Committee, International Geosphere-Biosphere Programme
2000	Synthesis Committee, International Geosphere-Biosphere Programme
2000-01	International Organizing Committee, Global Change Open Science Conference (IGBP, IHDP, WCRP)
2000-01	Program Advisory Committee, Dahlem Conference on Desertification
2000-03	Long-Range Planning Committee, AAG
2001-06	Board on Earth Sciences and Resources, NRC
2001-04	Chair, Section 64, Class 6, National Academy of Sciences
2001-02	Land project: People-Atmosphere-Land Scoping Activity, International Geosphere-Biosphere Programme and International Human Dimensions Programme
2002-pr	Board on Agriculture and Natural Resources, NRC
2002-pr	Editorial Board, <i>Environmental Science and Policy</i>
2002-pr	Editorial Board, <i>Regional Environmental Science</i>
2002-pr	Scientific and Technical Advisory Panel of the Global Environmental Fund (UN), Roster of Experts
2002-05	Land Transition Planning Team, IGBP-IHDP
2003-pr	Editorial Board, Human-Environment Interactions: A Book Series, University of Michigan Press
2004-pr	Land Use Subcommittee, National Ecological Observatory Network (NEON), American Institute of Biological Sciences
2004-pr	Land Use and Land Cover Change Steering Committee (LSG), Land Use Interagency Working Group (LUWIG), Climate Change Science Program (US)
2005-pr	Scientific Steering Committee, Global Land Project, IGBP-IHDP
2005-pr	Editorial Board, <i>Journal of Land Use Science</i>
2005-06	NRC Committee on Using Demographic Data and Tools More Effectively to Assist Populations at Risk of Facing Disasters
2005-pr	Advisory Board, Earth Portal, Environmental Information Coalition
2006-pr	Advisory Board, Task Force on Hurricane Katrina and Rebuilding the Gulf Coast, Social Science Research Council
2006	Workshop on Grand Challenges in Sustainability Science, Initiative on Science and Technology for Sustainability (ISTS), AAAS, and the Sustainability Science Program- Harvard University
2007-pr	Editorial Board, <i>Proceedings of the National Academy of Sciences USA</i>
2007	NSF Workshop on Integrating Social Science into NSF Observation
2007-10	TNG (Temporary Nominating Group), Class IV, NAS
2007-07	Advisory Board, <i>Landscape Ecology</i>

**AWARDS/HONORS**

1975	Sigma Xi
1981-82	<u>John Simon Guggenheim Memorial Fellowship</u>
1987	Carl O. Sauer Distinguished Scholarship Award, Conference of Latin Americanist Geographers

- 1991-94 GTU/AAG Visiting Geographical Scientist  
 1991 Maya work selected for the volume: *The Twenty Greatest Archaeological Discoveries of the Twentieth Century* (J. Malina, ed.)  
 1994 Fellow, Cecil and Ida Green Center for the Study of Science and Society, University of Texas, Dallas  
 1994-95 Fellow, Center for Advanced Study in the Behavioral Sciences, Stanford, CA  
 1995 Distinguished Research Honors, Association of American Geographers  
 1995-pr National Academy of Sciences  
 1995-pr The Milton P. and Alice C. Higgins Chair of Environment and Society  
 1996 Centenary Medal (for outstanding contributions to research), Royal Scottish Geographical Society  
 1998-pr American Academy of Arts and Sciences  
 2001 National Associate of the National Academy of Sciences  
 2001 Robert Mc. Netting Award (for distinguished scholarship linking geography and anthropology), Cultural Ecology Specialty Group, AAG  
 2002-pr Fellow, American Association for the Advancement of Science  
 2008 Fellow, Massachusetts Academy of Science (inaugural class)
- GRANTS** (• major field projects; \*minor field projects):  
 1971-74 Ford Foundation Fellowship, University of Wisconsin, Madison  
 1972 University of Wisconsin, Madison, Summer Fellowship  
 1972 Ibero-American Studies Travel Grant, University of Wisconsin, Madison  
 1973-74 N.S.F. Grant for Doctoral Research •  
 1976 American Council of Learned Societies, Travel Grant  
 1977 University of Oklahoma, Summer Faculty Fellowship •  
 1978-80 N.S.F. Research Grant BNS 78-12537, Anthropology and Geography, PI with P.D. Harrison  
 1979-80 N.S.F. Research Grant, supplement to BNS 78-12537, Geography •  
 1981-82 N.S.F. Research Grant BNS 80-24516, Anthropology, Co-PI with P.D. Harrison •  
 1981 American Council of Learned Societies, Travel Grant  
 1984 A. W. Mellon Foundation Grant, Clark University  
 1984-85 N.G.S. Research Grant #2960-84 (in conjunction with doctoral research of S. Ali) •  
 1985 N.S.F. Research Grant SES 84-13657, Geography, Co-PI with D.L. Johnson *et al.* (Long-term population reconstructions and change)  
 1986 ACLS/SSRC preliminary grant for study of population and agriculture in Sub-Saharan Africa, with R. Kates and G. Hyden  
 1987-90 N.E.H. Research Grant, joint investigator with W. Denevan and W. Doolittle (Amerindian agriculture in 1492)  
 1986-91 Coordinator of The Earth as Transformed by Human Action Program — A.W. Mellon Foundation Award plus 5 other grant/fellowship sponsors  
 1988 Rockefeller Foundation grant for continuation of 1986-87 ACLS/SSRC project above  
 1989 & 90 N.S.F. Research Grant, SES-8912975, Co-PI with R. Kasperson (critical environmental zones)\*  
 1990-91 Research Preparation, Critical Environmental Zones, United Nations University, Co-PI with R. Kasperson  
 1992-94 The Use of Satellite Imagery in Assessing Environmental Criticality in the Himalayas, Co-PI with R. Kasperson, NASA\*  
 1993 SSRC, Transnational Grant, Global Land Use Modelling, PI  
 1993-94 N.S.F. Grant, Global Land Use-Change #93-xx  
 1993-94 N.S.F. Grant Supplement to #93- (USDA/USGS)  
 1993-94 CIESIN Contract, Global Land-Use Change  
 1994 National Institute of Environmental Studies, Japan, Contract, Global Land Use Change  
 1995 N.S.F. Grant, Open Science Meeting, LUCC [add on to #93- ]

1996-04	Subcontract, N.S.F., C.M.U. Center for Integrated Assessment of the Human Dimensions of Global Environmental Change, Carnegie Mellon University
1997-2000	NASA #NAG 56046 - Land-Cover and Land-Use Change in the Southern Yucatán Peninsular Region, PI, Co-PIs, B. Savitsky & J. Geoghegan.
2000-03	CoPI, Subcontract, N.S.F. Harvard University: Research and Assessment for Sustainability Systems {Sustainability Systems Project; Vulnerability subsection}.
2000-06	CoPI, Subcontract, N.S.F., Penn. State. Human-Environment Research Observatory
2001-04	CoPI, Subcontract, NASA, Montana State and U. Maryland
2001-04	NASA NAG5-11134. Land-Cover and Land-Use Change in the Southern Yucatán Peninsular Region, PI, Co-PIs J. Geoghegan, R. Eastman, D. Lawrence, H. Vester
2004-06	NSF BCS-0410016, Vulnerability and Adaptive Capacity of Coupled Human-Environment Systems in the Southern Yucatán Peninsular Region: A Transition Effort, PI, Co-PIs D. Lawrence, R. Eastman, H. Vester
2006-08	NASA-LCLUC NNG06GD98G. Vulnerability and Resilience in the Coupled Human-Environment System of The Southern Yucatan: Linking Remote Sensing, Field Studies, and Synthesis, PI, Co-PIs H. Vester, D. Lawrence, J. Rogan, and L. Schneider

**GRANTS FOR DOCTORAL RESEARCH** PI (\*or lead advisor of student awarded)

1985	N.S.F. Grant (Geog.) (A. Gray)
1988	N.S.F. Grant (Geog.) (T. Whitmore)
1988	Rockefeller Foundation Dissertation Fellowship (D. Mazambani)
1993	N.S.F. Grant (Geog.) (P. Benjamin)
1993-96	Social Science Research Council, doctoral fellowship (P. Benjamin)
1995-98	NASA fellowship, doctoral research (A. Tuladhar)
1995	N.S.F. Grant (Geog.), (B. Jokisch)
1995	N.S.F. Grant (Geog.) (R. Laney)
1995	Fulbright Fellowship (R. Laney)
1995	N.S.F. Grant doctoral research (R. Laney)
1996-99	NASA fellowship (D. Varlyguin)
1996	NSF-CMU subcontract (P. Klepeis)
1997-00	NASA fellowship (E. Archer)
1998-01	NASA fellowship (P. Laris)
1998-01	NASA fellowship (N. Haan)
1999-01	Fulbright, Garcia Robles, Fellowship (E. Keys)
1999-02	Inter-American Foundation Fellowship (E. Keys)
1999-01	Rockefeller Foundation Dissertation Fellowship (D. Gumbo)
1999-01	NASA fellowship (D. Gumbo)
1999	N.S.F. Grant (Geog.), (R. Roy Chowdhury)
1999-01	NASA fellowship (R. Roy Chowdhury)
1999	N.S.F. Grant (Dec. Sci. + Geog.), (S. Manson)
1999-01	NASA fellowship (S. Manson)
2000-01	N.S.F. grant (INT-Americas + Geog.), (E. Keys)
2001-03	ICREF award (P. Pacheco)
2001-03	Fulbright-Hays Fellowship (C. Radel)
2002-03	N.S.F. (Geog.) doctoral research (C. Radel)
2002-03	Horton-Hallowell Fellowship (R. Roy Chowdhury)
2002-03	Fulbright-Hays Fellowship (J. Vadjunec)
2002-04	Fulbright-Hays Fellowship (A. Pollock)
2004-06	N.S.F. grant (Geog.) (S. McCandless)
2004-06	Switzer Environmental Leadership Fellowship (S. McCandless)
2005-08	EPA Star Fellowship (K. Barrett)
2005-06	NSF grant (Geog.), (S. Danielson)
2005-08	NASA fellowship (R. Dickson)
2005-08	NSF Fellowship (J. Brenner)
2006	Sigma Xi (A. Versluis)
2008-10	NSF Fellowship (D. Werboff)
2009	SSHRC Fellowship (Karina Benessaiah)

**PUBLICATIONS:**Books and Monographs

- 1983 ***Once Beneath the Forest: Prehistoric Terracing in the Rio Bec Region of the Maya Lowlands.*** B. L. Turner II. Dellplain Latin American Studies, No. 13 (Boulder: Westview Press).
- 2001 ***Cultivated Landscapes of Native Middle America on the Eve of Conquest.*** T. M. Whitmore and B. L. Turner II. Oxford Geographical and Environmental Studies. Oxford: Oxford University Press.
- 2004 ***Global Change and the Earth System: A Planet under Pressure.*** William Steffen, A. Sanderson, Peter Tyson, Jill Jäger, Pamela Matson, Berian Moore III, Frank Oldfield, K. Richardson, H-J. Schellnhuber, B. L. Turner II, and Robert Wasson. IGBP Global Change Series. Springer-Verlag, Berlin Heidelberg New York.

Books edited

- 1978 ***Pre-Hispanic Maya Agriculture.*** P.D. Harrison and B. L. Turner II. (Albuquerque: University of New Mexico Press).
- 1983 ***Pulltrouser Swamp: Ancient Maya Habitat, Agriculture, and Settlement in Northern Belize.*** B. L. Turner II and P.D. Harrison (Austin: University of Texas Press). [Reprinted 2000, University of Utah Press: Salt Lake City]
- 1987 ***Comparative Farming Systems.*** B. L. Turner II and S. B. Brush (New York: Guilford Press).
- 1990 ***The Earth as Transformed by Human Action: Global and Regional Changes in the Biosphere over the Past 300 Years.*** B. L. Turner II, W.C. Clark, R.W. Kates, J.F. Richards, J.T. Mathews, and W.B. Meyer (Cambridge: Cambridge University Press).  
[Selected by the National Academy of Science as a Science Classic available electronically on the NAS public web site; in press]
- 1993 ***Population Growth and Agricultural Change in Africa.*** B. L. Turner II, G. Hyden and R.W. Kates. Carter Lecture Series, Center for African Studies, University of Florida (Gainesville: University Press of Florida).
- 1994 ***Changes in Land Use and Land Cover: A Global Perspective.*** B. L. Turner II and W. B. Meyer (Cambridge: Cambridge University Press).
- 1995 ***Global Land-Use Change: A Perspective from the Columbian Encounter.*** B. L. Turner II, A. Gómez Sal, Fernando González Bernáldez, and F. di Castri (Madrid: Consejo Superior de Investigaciones Científicas).
- 1995 ***Regions at Risk: Comparisons of Threatened Environments.*** J.X. Kasperson, R. E. Kasperson and B. L. Turner II (Tokyo: United Nations University Press).
- 2004 ***Integrated Land-Change Science and Tropical Deforestation in the Southern Yucatán: Final Frontiers.*** B. L. Turner II, J. Geoghegan and D. R. Foster. Oxford, UK: Clarendon Press of Oxford University Press.
- 2004 ***Land Change Science: Observing, Monitoring, and Understanding Trajectories of Change on the Earth's Surface.*** Garik Gutman, Anthony Janetos, Christopher Justice, Emilio Moran, John Mustard, Ronald Rindfuss, David Skole and B. L. Turner II. New York, NY: Kluwer Academic Publ.

Journal Articles

- 1974 Prehistoric Intensive Agriculture in the Mayan Lowlands. B. L. Turner II. *Science*, Vol. 185, No. 4146, pp. 118-124.
- 1974 Forms, Functions and Associations of Raised-Field Agriculture in the Old World Tropics. W.M. Denevan and B. L. Turner II. *Journal of Tropical Geography*, Vol.39, pp. 24-33.
- 1976 Prehistoric Population Density in the Maya Lowlands: New Evidence for Old Approaches. B. L. Turner II. *Geographical Review*, Vol. 66, No. 1, pp. 73-82.
- 1977 Population Pressure and Agricultural Intensity. B. L. Turner II, R.O. Hanham and A.V. Portararo. *Annals of the Association of American Geographers*, Vol. 67, No. 3, pp. 384-396.
- 1978 The Concept and Measure of Agricultural Intensity. B. L. Turner II and W.E. Doolittle. *Professional Geographer*, Vol. 30, No. 3, pp. 297-301.
- 1979 A Maya Dam in the Copan Valley, Honduras. B. L. Turner II and W.C. Johnson. *American Antiquity*, Vol. 44, No. 2, pp. 299-305.
- 1979 Ancient Agricultural Land Use in the Central Maya Lowlands. B. L. Turner II. *Actes de XLII Congrès International des Americanists* (Paris, 1976) Vol. 8, pp. 419-436.
- 1979 Comment on William T. Sanders' review of *Pre-Hispanic Maya Agriculture*. B. L. Turner II and P.D. Harrison. *Reviews in Anthropology*, Vol. 6, No. 4, pp. 544-555.
- 1980 Geography and Prehistory in Southern Mesoamerica. B. L. Turner II. IN *Historical Geography of Latin America, Papers in Honor of Robert L. West*, A.V. Davidson and J.J. Parsons, eds. *Geo-Science and Man* Vol. 21, pp. 9-15.

- 1980 Agricultura Intensiva en las Tierras Bajas Mayas: Una Leccion del Pasado. B. L. Turner II. *Biotica*, Vol. 5, No. 2, pp. 69-79.
- 1980 Una Represa Maya en el Valle de Copan, Honduras. B. L. Turner II and W.C. Johnson. *Yaxhin*, Vol. 3, No. 3, pp. 199-209 (reprinted from *American Antiquity*, 1979).
- 1980 La Agricultura en Labor Tierras Bajas Mayas: Leccion del Pasado. B. L. Turner II. *America Indigena*, Vol. 40, No. 4, pp. 653-670 (reprinted from *Biotica*, 1980).
- 1980 Comments on Maritime Hunter-Gatherers: Ecology and Pre-history. B. L. Turner II. *Current Anthropology*, Vol. 22, No. 1, pp. 742-743.
- 1981 Prehistoric Raised-Field Agriculture in the Maya Lowlands. B. L. Turner II and P.D. Harrison. *Science*, Vol. 213, No. 4506, pp. 399-405.
- 1981 Agricultura y Desarrollo del Estado en las Tierras Bajas Mayas. B. L. Turner II. *Estudios de Cultura Maya*, Vol. 13, pp. 285-306.
- 1981 Research Roles and Goals: A Comment on the Study of Aboriginal and Peasant Cultures by Latin Americanist Geographers. B. L. Turner II. *Geographic Research on Latin America: Benchmark 1980*, Vol. 8, pp. 225-229.
- 1984 Economic Plant Species Associated with Prehistoric Agriculture in the Maya Lowlands. B. L. Turner II and C. H. Miksicek. *Economic Botany*, Vol. 38, No. 2, pp. 179-193.
- 1984 The Role of Standing Water and Waterlogged Soils in "Raised-Field," "Drained-Field," and "Island-Bed" Agriculture, D.E. Vasey, D.R. Harris, G.W. Olson, T. Spriggs, and B. L. Turner II. *Journal of Tropical Geography*, Vol. 5, No. 1, pp. 63-78.
- 1985 The Use of Citation Indices in Comparing Geography Programs: An Exploratory Study. B. L. Turner II and W.B. Meyer. *Professional Geographer*, Vol. 37, No. 3, pp. 271-278.
- 1985 Calculating Population and Intensity Levels from Field Remains: A Comment on Coe's Review of "Maya Subsistence," W.M. Denevan and B. L. Turner II. *American Antiquity*, Vol. 50, No. 1, pp. 166-169.
- 1987 Reply to Trimble. B. L. Turner II and W.B. Meyer. *Professional Geographer*, Vol. 39, No. 1, pp. 203-204.
- 1987 Comment on Leighly. B. L. Turner II. *Professional Geographer*, Vol. 39, No. 4, pp. 415-416.
- 1988 Whether to Publish in Geography Journals. B. L. Turner II. *Professional Geographer* Vol. 40, No.1, pp. 15-18.
- 1989 The Specialist-Synthesis Approach to the Revival of Geography: The Case of Cultural Ecology. B. L. Turner II. *Annals of the Association of American Geographers*, Vol. 79, No. 1, pp. 88-100.
- 1990 Two Types of Global Environmental Change: Definitional and Spatial-Scale Issues in their Human Dimensions. B. L. Turner II, Roger E. Kasperson, William B. Meyer, Kirstin Dow, Dominic Golding, Jeanne X. Kasperson, Robert C. Mitchell, and Samuel J. Ratick. *Global Environmental Change: Human and Policy Dimensions*, Vol. 1, No. 1, pp. 14-22.
- 1990 The "Earth Transformed" Program. B. L. Turner II and W.B. Meyer. *GeoJournal*, Vol. 20, No. 2, pp. 99.
- 1991 Thoughts on Linking the Physical and Human Sciences in the Study of Global Environmental Change. B. L. Turner II. *Research and Exploration* Vol. 7, No. 2 (Spring 1991), pp. 133-135.
- 1991 Land Use and Land Cover in Global Environmental Change: Considerations for Study. B. L. Turner II and W.B. Meyer, *International Social Science Journal*, No. 130, pp. 669-679.
- 1991 Comments on Ponting's View of Environment and Prehistory. B. L. Turner II. *Environment*, Vol. 23, No. 4, pp. 2-3 & 45.
- 1992 Landscapes of Cultivation in Mesoamerica on the Eve of the Conquest. B. L. Turner II and T.M. Whitmore. *Annals of the Association of American Geographers*, Vol. 82, No. 3, pp. 402-425.
- 1992 Human Population Growth and Global Land-Use/Cover Change. William B. Meyer and B. L. Turner II. *Annual Review of Ecology and Systematics*, Vol. 23, pp. 39-61. Reprinted. 2006. *Agriculture and Rural Connections in the Pacific*. J. Gerber and L. Guang, eds. Hampshire: Ashgate.
- 1992 The Columbian Encounter and Land-Use Change. B. L. Turner II and Karl W. Butzer. *Environment*, Vol. 43, No. 8, pp. 16-20 & 37-44
- 1993 Rethinking the "New Orthodoxy": Interpreting Ancient Maya Agriculture and Environment. B. L. Turner II. IN *Culture, Form, and Place: Essays in Cultural and Historic Geography*, K. Mathewson, ed. *Geoscience and Man*, Vol. 32, pp. 57-88.
- 1994 The Human Causes of Deforestation in Southeast Asia. David Kummer and B. L. Turner II. *Bioscience* Vol. 44, No. 5, pp. 323-328.
- 1994 Global Land-Use/Land-Cover Change: Towards an Integrated Program of Study. B. L. Turner II, W. B. Meyer and D. Skole. *Ambio* Vol. XXIII, No. 1, pp. 91-95.
- 1994 Modeling Land Use/Cover as Part of Global Environmental Change. W. Riebsame, W. B. Meyer, and B. L. Turner II. *Climatic Change*, Vol. 28, No. 1, pp. 45-64
- 1994 Local Faces, Global Flows: The Role of Land-Use/Cover in Global Environmental Change. B. L. Turner II. *Land Degradation and Society*, Vol. 5, No. 2, pp. 71-78.
- 1994 The Global Impact of Land-use Change. D. S. Ojima, N. Galván and B. L. Turner II. *Bioscience*, Vol. 44, No. 5, pp. 300-304.

- 1994 The Earth as Transformed by Human Action in Retrospect. B. L. Turner II, R. W. Kates and W. B. Meyer, *Annals of the Association of American Geographers*, Vol. 84, No. 4, pp. 711-715; Response, pp. 729-31.
- 1995 The Use and Limits of Remote Sensing for Analyzing Environmental and Social Change in the Himalayan Middle Mountains of Nepal. T. L. Millette, T.L., A.R. Tuladhar, R.E. Kasperson, and B. L. Turner II. *Global Environmental Change* Vol. 5, No. 5, pp. 367-380.
- 1995 Foreign-Area Expertise in U.S. Geography Programs: An Assessment of Foreign-Area Dissertations, 1977-1991. B. L. Turner II and D. Varlyguin. *Professional Geographer* Vol.47, No. 3, pp. 308-314.
- 1996 Land-Use/Land-Cover Change: Challenges for Geographers. B. L. Turner II and W. B. Meyer. *GeoJournal* Vol. 39, No. 3, pp. 237-240.
- 1996 Regions at Risk: Exploring Environmental Criticality. J. X. Kasperson, R. E. Kasperson, and B. L. Turner II. *Environment*, Vol. 38, No. 10, pp. 4-15, 26-29.
- 1996 Induced Intensification: Agricultural Change in Bangladesh with Implications for Malthus and Boserup. B. L. Turner II and A. M. Shajaat Ali. *Proceedings of the National Academy of Science of the United States of America* Vol. 93 (Dec.): 14984-14991.
- 1997 Spirals, Bridges, and Tunnels: Engaging Human-Environment Perspectives in Geography? B. L. Turner II. *Ecumene* Vol. 4, No. 2, pp. 196-217.
- 1997 The Sustainability Principle in Global Agendas: Implications for Understanding Land-Use/Cover Change. B. L. Turner II. *Geographical Journal*, Vol. 163, No. 2, pp. 133-140.
- 1997 Land Use and Land Cover Change. B. L. Turner II, David Skole, Steven Sanderson, Günter Fischer, L. O. Fresco, and Rik Leemans. *Earth Science Frontiers* (China University of Geosciences, Beijing), Vol. 4, No. 1-2, pp., 26-33.
- 1998 Imaginable Surprise in Global Change Science. Stephen Schneider, B. L. Turner II, and Holly Morehouse Garriga. *Journal of Risk Research* Vol. 1, No. 2, pp. 165-185.
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- 2005 Chapter 4, State of the Art in Simulating Future Changes in Ecosystem Services. P. Kreiva (coordinating Lead). In *Millennium Ecosystem Assessment Vol 2.: Scenarios Assessment. Chapter 4: State of the art describing future changes in ecosystem services.* S. Carpenter, P. Pingali, E. Bennett, and M. Zurek eds. Geneva, Switzerland, Island Press, pp. 71-115. (responsible for section on "Forecasting changes in land-use and land-cover change" by Steven Manson, Jackie Geoghegan and B. L. Turner II.)
- 2006 Human Population Growth and Global Land-Use/Cover Change. William B. Meyer and B. L. Turner II. IN *Agriculture and Rural Connections in the Pacific*. J. Gerber and L. Guang, eds. Hampshire: Ashgate. (Reprinted from *Annual Review of Ecology and Systematics*, 1992).
- 2006 Systemic Change. In *The Earth's Changing Land: An Encyclopedia of Land-use and Land-Cover Change*. Westport, CN: Greenwood Publ. Group, pp. 585-586.
- 2006 Cumulative Change. In *The Earth's Changing Land: An Encyclopedia of Land-use and Land-Cover Change*. Westport, CN: Greenwood Publ. Group, pp. 153-154.
- 2006 Land Change as a Forcing Function in Global Environmental Change. In *The Earth's Changing Land: An Encyclopedia of Land-use and Land-Cover Change*. Westport, CN: Greenwood Publ. Group, pp. xxv-xxxi.
- 2007 Undergraduate GIScience Research at Clark University: The HERO Program, Polsky, C., J. Rogan, R.G. Pontius Jr, and B.L. Turner II. *Council on Undergraduate Research, Vol 27, No. 3*, pp. 124-129.
- Nd Human-Environment Interactions that Shaped the Local Landscape: The Historical Context, J. Harrington, Jr., B. Yarnell, D. Liverman, B. L. Turner II. In *Sustainable Communities on a Sustainable Planet*, B. Yarnell and J. O'Brien, eds. Cambridge: Cambridge University Press.
- Nd Land Change Science. In *Companion to Environmental Geography*, N. Castree, D. Demeritt, and D. Liverman, eds. Oxford, UK: Blackwell (forthcoming)
- Nd Vulnerability of Coupled Human-Ecological Systems to Global to Global Environmental Change, J. X. Kasperson, R. E. Kasperson, B. L. Turner II. IN *The Human Dimensions of Global Environmental Change*, A. Diekmann, T. Dietz, C. Jaeger, E. S. Rosa, eds. Cambridge, MIT Press (forthcoming.)

#### Other Publications

- 1983 Comment on Pre-Columbian Exploitation of the Manatee in Mesoamerica. B. L. Turner II. *Papers in Anthropology* (University of Oklahoma), Vol. 24, No. 1, pp. 75-78.
- 1983 Preface. *Irrigation Horticulture in Highland Guatemala. The Tablon System of Panajachel*, by K. Mathewson (Boulder: Westview Press).

- 1986 Mystery of the Maya Revealed. *Focus* (summer), pp. 1-7.
- 1987 Bring Geography Back to American Universities, Editorial, *Christian Science Monitor*, Nov. 16, p. 16.
- 1989 Response sections in *The Science and Art of Geography in the U.S. and U.S.S.R.: A Spectrum of Views* (in Russian), V.V. Annenkov and G. Demko, eds. Moscow: Progress Publishers.
- 1991 To the editor [comments on the Cultural Ecology Specialty Group, AAG], *Cultural Ecology Newsletter* No. 18 (Spring), pp. 3-5.
- 1992 Science Capsule: Land, Water, and Society, with W.B. Meyer. *EarthQuest* (Summer).
- 1993 Global Land-Use/Land-Cover Change, with W. B. Meyer. *Proceedings of the 1992 Watershed Management Symposium* on Watershed Resources: Balancing Environmental, Social, Political, and Economic Factors in Large Basins, pp. 45-48.
- 1994 Cry Wolf, with W. B. Meyer, *Human Dimensions Quarterly*, Vol. 1, No. 2, pp. 9-12.
- 1995 Summary: Anticipating Global Change Surprise, with S. Schneider. In S. J. Hassol and J. Katzenberger, eds. *Elements of Change 1994, part 2* (Aspen, CO: Aspen Global Change Institute.
- 1995 Note from the Editor, with J. X. Kasperson, R. E. Kasperson. In *In Place of the Forst: Environmental and Socio-Economic Transformation in Borneo and the Eastern Malaya Peninsula*, H. Brookfield, L. Potter, and Y. Byron. Tokyo: United Nations University Press, ii.
- 1995 Note from the Editor, with J. X. Kasperson, R. E. Kasperson. In *Amazonia: Resiliency and Dynamism of the Land and Its People*, N. J. H. Smith, E. A. S. Serrão, P. T. Alvim, and I. C. Falesi. Tokyo: United Nations University Press, ii-xx.
- 1996 Introduction to the Human Dimensions of Global Change, with E. Archer. *AAG/CCG2 Project: Developing Active Learning Modules on the Human Dimensions of Global Change*. Washington, D.C.: Association of American Geographers.
- 1997 Socializing the Pixel in LUCC. *LUCC Newsletter* No. 1 (Feb.), pp. 10-11.
- 1997 LUCC at the 1997 Open Meeting of the Human Dimensions of Global Change Research Community. *LUCC Newsletter*, No. 2, pp. 15-16.
- 1997 Great Riddles and the Intellectual Issues and History of LUCC. In L. Fresco, R. Leemans, B. L. Turner II, D. Skole, A. G. VanZeijl-Rozema and V. Haarman, eds. Land Use and Cover Change (LUCC), Open Science Meeting Proceedings. *LUCC Report Series No. 1*. International Project Office, LUCC. Institut Carogràfic de Catalunya, pp. 27-30.
- 1997 LUCC and Socializing the Pixel. *Himalayan Research Bulletin* Vol. 27, No. 2, p. 85
- 1998 Thoughts on GCTE-LUCC Science. *LUCC Newsletter* No. 3, pp. 4-5.
- 1999 Editors' Introduction, with Jeanne X. Kasperson and Roger E. Kasperson. In *The Basin of Mexico: Critical Environmental Issues and Sustainability*, by Exequiel Ezcurra, Marisa Mazari Hiriart, Irene Pisanty, and Adrián Guillermo Aguilar. Tokyo: United Nations University Press (xiii-xix)
- 1999 Editors' Introduction, with Jeanne X. Kasperson and Roger E. Kasperson. In *The Ordos Plateau of China: An Endangered Environment*, by Hong Jiang. Tokyo: United Nations University Press (xiii-xvi).
- 1999 Editors' Introduction, with J. X. Kasperson, R. E. Kasperson. In *The Llano Estacado of the US Southern High Plains: The Rise and Decline of a Modern Irrigation Culture*. E. Brooks and J. Emel. Tokyo: United Nations University Press (forthcoming).
- 2000 Threatened Environments: International Perspectives, with J. X. Kasperson and R. E. Kasperson. *Human Environment: The International Policy Analysis Newsletter* Vol. 7, No. 1, pp. 2-5.
- 2001 Land Use and Land Cover, with Eric Keys. *Encyclopedia of Global Environmental Change*, Vol. 2. Oxford: Oxford University Press, pp. 24-27.
- 2001 Carrying Capacity, with Eric Keys. *Encyclopedia of Global Environmental Change*. Vol. 1. Oxford: Oxford University Press, pp. 138-139.
- 2002 Agriculture and Agricultural Land, with Eric Keys. *Encyclopedia of Global Environmental Change*. Vol. 1. Oxford: Oxford University Press, pp. 13-22.
- 2002 The Changing Place of Geography in the National Academy of Sciences, with S. Hanson. *AAG Newsletter*, Vol. 37, No. 4: 1, 5-7.
- 2006 Culture, Ecology, and the Classic Maya Collapse. *1491: Human-Environment Relationships and the Collapse of the Maya*. *Geographical Review* Vol. 96. Issue 3. pp. 490-493.
- 2006 Review. Plows, Plaques and Petroleum. *Geographical Review*. Vol. 96. Issue 3. pp. 516-519.
- 2008 The Southern Yucatán Peninsular Region (SYPR) Project: Deforestation and land change in a seasonal tropical forest and economic frontier. *Newsletter of the Global Land Project*, No.3 (Jan.), pp. 8-10. (International Project Office, Copenhagen)

#### Individual and Committee Reports: Published

- 1990 *The U.S. Global Change Research Program. An Assessment of the FY 1991 Plans*. National Research Council. Washington, D.C.: National Academy of Sciences. [member of the USGCP panel].

- 1990 *Human Sources of Global Change: A Report on Priority Research Initiatives for 1990-1995* [for the Committee on Global Change, National Research Council], with R.W. Kates, W.C. Clark, and V. Norberg-Bohm. Discussion Paper, Global Environmental Policy Project, John F. Kennedy School of Government, Harvard University, July 1990; and Occasional Paper Number 3, Institute for International Studies, Brown University, 1990.
- 1990 *Research Strategies for the U.S. Global Change Research Program*, Committee on Global Change of the Commission on Geosciences, Environment, and Resources, National Research Council: Washington, D.C. [Chapter 4, Human Sources of Global Change; taken from report above].
- 1990 Macro approaches to land use and land cover. *Report of the International Social Science Council, Scientific Symposium on the Human Dimensions of Global Environmental Change, Occasional Papers 1*. Human Dimensions of Global Environmental Change Programme. Paris: UNESCO, pp. 15-17.
- 1992 *Global Environmental Change: Understanding the Human Dimensions*. Committee on the Human Dimensions of Global Change, NRC. Washington, D.C.: National Academy Press.
- 1993 Relating Land Use and Global Land-Cover Change: A Proposal for an IGBP-HDP Core Project, *IGBP Report No. 24 & HDP Report No. 5*, edited with R.H. Moss and D. L. Skole.
- 1995 Land-Use and Land-Cover Change: Science/Research Plan. *IGBP Report No. 35/HDP Report No. 7*. David Skole, Steven Sanderson, Gunter Fischer. Louise Fresco and Rik Leemans and others. Stockholm and Geneva.
- 1995 Anticipating Global Change Surprise, with S. H. Schneider. In *Elements of Change in 1994*, S. J. Hassol and J. Katzenberger, eds. Aspen Global Change Institute, Aspen, CO., pp. 130-145.
- 1996 Global Land-Use/Land-Cover Change, with W. B. Meyer and D. Skole. In *Issues in Global Change Research: Problems, Data and Programmes*, L. A. Kosinski, ed. *HDP Report#6*. Geneva, pp. 99-108 (revised from *Ambio* 1994).
- 1996 Breakout Group on Socioeconomic Impacts of Global Change, with Mauricio T. Tolmasquim. *Report on the IAI Workshop on Global Change Research in the Americas*. Inter-American Institute for Global Change Research, August 28-30, 1995.
- 1997 *Rediscovering Geography: New Relevance for Science and Society*. Washington, D.C.: National Academy Press.
- 1997 Land Use and Cover Change (LUCC), Open Science Meeting Proceedings. L. Fresco, R. Leemans, B. L. Turner II, D. Skole, A. G. VanZeijl-Rozema and V. Haarman, eds. *LUCC Report Series No. 1*. International Project Office, LUCC. Institut Carogràfic de Catalunya.
- 1999 Land-Use and Land-Cover Change, Implementation Strategy. *IGBP Report 46/IHDP Report 10*. Prepared by Scientific Steering Committee and International Project Office of LUCC. Stockholm and Bonn.
- 2001 *Grand Challenges in the Environmental Sciences*. Committee on the Grand Challenges in the Environmental Sciences. National Research Council. National Academy Press: Washington, D.C.
- 2004 *Global Change and the Earth System: A Planet Under Pressure: Executive Summary*. W. Steffen, A. Sanderson, P. Tyson, J. Jäger, P. Matson, B. Moore III, F. Oldfield, K. Richardson, J. Schellnhuber, B. L. Turner II, and R. Wasson. IGBP: Stockholm.
- 2005 *Global Land Project*. Science Plan and Implementation Strategy. IGBP Report 53/IHDP Report 19. Stockholm: IGBP.
- 2006 *Tools and Methods for Estimating Populations at Risk from Natural Disasters and Complex Humanitarian Crises*. National Research Council, National Academy Press: Washington, D.C.

#### PROFESSIONAL FIELD EXPERIENCE:

##### Extended fieldwork

- 1972-73 Examination of prehistoric Maya agriculture in southern Yucatan, N.S.F. grant and member of N.G.S.-Rio Bec Ecological Project.
- 1973-74 Examination of prehistoric and contemporary agriculture in Belize, Guatemala, and Mexico, N.S.F. grant above.
- 1977 Examination of environment and agriculture in the Copan Valley, Honduras, and member of the Copan Sustaining Area Project, N.S.F.-Peabody Museum, Harvard University.
- 1978 Head, ecological section, Copan Valley Project, Banco de Centroamericano, Honduran Government.
- 1979 Director, Pulltrouser Swamp Project on environment, agriculture and settlement of ancient Maya, N.S.F.-University of Oklahoma.
- 1980 Examination of Bajo de Morocoy, Quintana Roo, Mexico, with Colegio Superior de Agricultura Tropical-World Bank.
- 1981 Co-director, Pulltrouser Swamp Project, N.S.F.-University of New Mexico.

1985 Co-researcher, agricultural change in Bangladesh, N.G.S.  
1997-pr Lead investigator, modeling land-use/cover change in the Southern Yucatán  
Peninsular Region

Brief fieldwork and/or observations

1981 Eastern Tanzania  
1883 El Obied area, Sudan  
1989 Aral Sea, USSR  
1990 Ordos Plateau, China  
  
1992 Southern Morocco  
1993 Middle Mountain Zone, Nepal  
2000 Little Karoo, South Africa  
2000 Gowke District, Zimbabwe

## AWARD/HONOR LECTURES

- 1992 Distinguished Ecologists Lecture Series, Colorado State University
- 1994 Ellen Churchill Semple Lecture, University of Kentucky.
- 1999 Miller Lecture, Pennsylvania State University (Fall 1999)
- 2000 Clarendon Lectures on Geography and Environment, Oxford University (Fall 2000)
- 2000 Geography 2000 Lecture, U. C. Santa Barbara
- 2001 Taaffe Lecture, Ohio State University
- 2001 Chancellor's Distinguished Lecturer, LSU
- 2002 Jeanne Andrews Centennial Visiting Professorship in Tropical and Economic Botany (3)
- 2003 Frontiers in Science, Charles Schmidt College of Science, Florida Atlantic University
- 2003 Ida Beam Lectures, University of Iowa
- 2003 President's Lecture on Science in the 21<sup>st</sup> Century, University of Florida
- 2005 President's Lecture, University of Oklahoma
- 2005 University Distinguished Lecturer, Kansas State University

## INVITED LECTURES (institutions and special conferences):

- 1976 Cambridge University, Mesoamerican Conference.
- 1978 Tri-University Latin American Consortium: Kansas University, Kansas State University, and Wichita State University.
- 1979 Consejo Nacional de Ciencia y Tecnologia de Mexico and N.S.F., Seminar: Strategies and Use of Soils and Resources of Mesoamerican Cultures (Villahermosa, Mexico).
- 1980 Department of Anthropology, Brandeis University.
- 1980 Colegio Superior de Agricultura Tropical (Cardenas, Mexico).
- 1981 Washburn Lectures, Lowell Institute, Museum of Science, Boston.
- 1981 Conference on Prehistoric Intensive Agriculture in the Tropics, Department of Prehistory, School of Pacific Research, Australian National University.
- 1982 Department of Geography and Department of Anthropology, University of Wisconsin, Madison.
- 1983 Department of Geography and Meteorology, University of Nebraska, Lincoln.
- 1983 Department of Biology, Boston University.
- 1984 Departments of Anthropology and Geography, SUNY Albany.
- 1985 Department of Geography, University of Wisconsin, Madison.
- 1985 Department of Anthropology, Harvard University.
- 1985 Department of Geography, Boston University.
- 1985 Department of Geography, University of Massachusetts, Amherst.
- 1985 Divinity School, Harvard University.
- 1987 A.S. Feinstein World Hunger Institute, Brown University.
- 1988 Institute of Archaeology and Department of Geography, UCLA.
- 1988 Committee on Geography, University of Chicago.
- 1988 President's Plenary Lectures, AAG (Phoenix).
- 1988 Department of Geography and Latin American Studies Program, University of North Carolina.
- 1988 Institute of Geography, USSR Academy of Sciences (Moscow).
- 1988 Department of Geography, University of Colorado, Boulder.
- 1988 Department of Plant Pathology, Cornell University.
- 1989 Forum on Global Change and Common Futures, Nat. Acad. Sciences, Smithsonian Inst., Amer. Assoc. Adv. Science, & Sigma Xi (Washington, D.C.).
- 1989 American Assembly, H.H. Humphrey Institute, University of Minnesota
- 1989 Department of Geography, University of Southern California (Geography Awareness Week)
- 1990 Endangered Earth: An Evolutionary Perspective, UCLA (interdisciplinary symposium)
- 1990 Symposium on Culture, Form, and Place, Department of Geography and Anthropology, LSU
- 1990 President's Plenary Session, AAG (Toronto).
- 1990 International Workshop: Methodological Issues in Global Modelling: Micro-Global Links, UNAM-ISSC (Mexico City).
- 1990 Scientific Symposium on the Human Dimensions of Global Change, ISSC (Palma, Mallorca).
- 1991 School of Forestry and Environmental Sciences, Yale University
- 1991 Cary Conference, New York Botanical Gardens, Cary Arboretum.
- 1991 Bellagio Conference on Institutional Innovations for Sustainable Agricultural Development: Into the Twenty-first Century (Rockefeller Foundation; Bellagio, Italy).
- 1992 Scientific Symposium, 8th General Assembly, SCOPE (Sevilla).
- 1992 Department of Geography, University of Utah.

- 1992 Department of Geography, Utah State University.
- 1992 Department of Geography, Pennsylvania State University.
- 1992 Ecological Studies, Colorado State University.
- 1992 Plenary Session, 27th International Geographical Congress (Washington, D. C.).
- 1992 Plenary Session, University Colloquium on Environmental Research and Education, Sigma Xi et al. (North Carolina State U.).
- 1992 Environmental Studies, University of California, Berkeley.
- 1992 Department of Geography, University of Oregon.
- 1992 Department of Geography, University of California, Los Angeles.
- 1992 Department of Geography, Appalachian State College.
- 1992 Department of Geography, Syracuse University.
- 1993 Scientific Advisory Council III, International Geosphere-Biosphere Programme (Mexico).
- 1993 Anthropological Center for Training in Global Environmental Change, Indiana University.
- 1993 Department of Geography, Indiana University and Purdue University at Indianapolis.
- 1993 Department of Geography and Geology, Indiana State University.
- 1993 Department of Geography, Kansas State University.
- 1993 Department of Geology and Geography, Ft. Hays State University.
- 1993 Aspen Global Change Institute (Aspen, CO.).
- 1993 Australian Academy of Sciences: Keynote Address to symposium on Land Use and Land Cover in Australia: Living with Global Change (Canberra).
- 1993 Overseas Development Institute (London).
- 1994 Department of Anthropology, Rhodes College (Memphis).
- 1994 Department of Geography, Memphis State University.
- 1994 Department of Geography, University of Wisconsin-Madison.
- 1994 Department of Geography, University of Kentucky
- 1994 National Committee on Global Environmental Change, Japan (Kyoto)
- 1994 Environmental Program, University of California, Berkeley.
- 1994 Environmental Policy Forum, Institute for International Studies, Stanford University.
- 1995 Land-Use Change Forum, IIASA (Austria).
- 1995 Plenary, Open Meeting, Human Dimensions of Global Change Community (Duke).
- 1996 Ecumene Lecture, Association of American Geographers (Charlotte).
- 1996 Delaware Valley Geographical Association (Westchester St. U.).
- 1996 Pecora Keynote Lecture (Sioux Falls).
- 1996 Environmental Transformation in Developing Countries, Keynote Lecture, Royal Geographical Society & Institute of British Geographers (London).
- 1996 Environment and Management & School of Geography, University of Oxford.
- 1996 Engineering and Public Policy, Carnegie Mellon University.
- 1997 Department of Geography, Arizona State University.
- 1997 Department of Geography, University of Arizona.
- 1997 University of Michigan (Symposium of the Vice-President of Research)
- 1997 Mountain Research Center, Montana State University
- 1997 Indiana University (CIPEC)
- 1998 Universitat Autònoma de Barcelona, Nov., 1998
- 1999 Scientific Symposium, Understanding Land-Use Change, AAAS Annual Meetings, Anaheim, CA
- 1999 2nd IGBP Congress, Shonan, Japan
- 1999 University of New Hampshire (Natural Resources), with R. Roy Chowdhury
- 1999 Environmental Policy Forum, Institute for International Studies, Stanford University
- 1999 Michigan State University (2, Basic Science and Remote Sensing Institute + Geography)
- 1999 Department of Geography, University of Georgia
- 2000 Ohio State University (Byrd Polar Center)
- 2000 Department of Geography, University of Witwatersrand
- 2000 Department of Geography, University of Zimbabwe
- 2000 InterAmerican Institute, Miami
- 2000 Ecological Society of America, Salt Lake City, UT: Plenary Session
- 2000 Department of Geography, Boston University
- 2001 21<sup>st</sup> Symposium in Plant Biology, U. C. Riverside
- 2001 Duke University, Depts. Biology and Ecology
- 2001 U.C. Davis, Environmental Program
- 2001 U. Cincinnati (inauguration, Environmental Program)
- 2001 Open Science Conference on Global Environmental Change (IGBP, IHDP, WCRP), Amsterdam (Plenary)
- 2001 Dept. Geography & Anthropology, LSU
- 2001 Population Resource Center, U. North Carolina (and Dept. Geography lecture)

- 2002 Department of Geography, University of Illinois
- 2002 Royal Irish Academy Symposium on Natural and Cultural Landscapes: The Geological Foundations (Plenary)
- 2002 Department of Geography, University of Miami
- 2002 Anthropological Sciences, Stanford University
- 2003 Frontiers in Science, Charles Schmidt College of Science, Florida Atlantic University
- 2003 Plenary, Framing Land Use Dynamics, International Conference, Utrecht, NL
- 2003 Geography and Anthropology, University of Southern Maine
- 2003 Invited, Chapman Conference, American Geophysical Union, Santa Fe
- 2003 Plenary, International Conference. Institute of Geography, U. Copenhagen
- 2003 Adaptive Research and Governance in Climate Change Symposium, Ohio State University
- 2003 President's Lecture on Science in the 21<sup>st</sup> Century, University of Florida
- 2003 Plenary, Land Open Science Conference (IGBP-IHDP), Morelia, Mexico
- 2004 Environmental Program, Georgetown University
- 2004 Darwin Festival Plenary, Salem State College
- 2004 President's Plenary, Association of American Geographers, Philadelphia
- 2004 Department of Geography, Temple University
- 2004 Department of Ecology and Evolutionary Biology, Program, Brown University [2]
- 2004 Ecological Society of America, Portland, OR: Plenary Session
- 2005 Department of Geography, University of Oklahoma
- 2005 Ecological Society of America, Montreal, CN: Plenary Session
- 2005 1491 Plenary, Conference of Latin Americanists Geographers, Morelia, MX
- 2006 President's Plenary Session, Association of American Geographers, Chicago, IL
- 2006 Geography, U. Connecticut
- 2006 Geography, U. Illinois-Champaign-Urbana
- 2006 International Symposium on Sustainable Development, Hokkaido University, Sapporo, JP
- 2006 Environmental Studies and Geography, Macalester College
- 2007 Geography and IGERT Program, University at Buffalo, SUNY [2]
- 2007 Symposium, Sustainability Science, American Association for the Advancement of Science, San Francisco
- 2007 School of Sustainability Science, Arizona State University
- 2007 Department of Geography, University of South Carolina
- 2007 Department of Geography, University of Delaware
- 2008 Department of Anthropology and Natural Resources and Ecology Labs, Colorado State University
- 2008 McGrann Conference, Columbia University-Rutgers University
- 2008 4<sup>th</sup> IGBP Congress, Cape Town

Spring, 2008