CURRICULUM VITÆ

BILLIE LEE TURNER II

Regents’ Professor & Gilbert F. White Professor of Environment and Society

School of the Geographical Sciences and Urban Planning & School of Sustainability

PO Box 87014, Arizona State University,

Tempe, AZ 85287-0104

Email: Billie.L.Turner@asu.edu; Tel. (480) 965-1535; Fax. (480) 965-8313

**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 Distinguished Research Professor, Clark University

2008-09 Gilbert F. White Professor of Environment and Society, School of the Geographical Sciences, Arizona State University

2008-09 Affiliate Professor, School of Sustainability, Arizona State University

2009-pr Gilbert F. White Professor of Environment and Society, School of the Geographical Sciences and Urban Planning and School of Sustainability, Arizona State Universit

2011-pr Distinguished Sustainability Scientist

2016-pr Regents' Professor, Arizona State University

Professional Service:

ASU Appointments

2009-pr President’s Academic Council, ASU

2012-15 Dean’s Faculty Advisory Committee

2015-pr Executive Committee, CAP-LTER

2015-16 Advisor Board, Center for Biodiversity Outreach

2016-pr PLuS Alliance Fellow

2017-pr Selection Cmt., Regents’ Professors

Editorial Activities

1978 & 81 Associate Editor, *Proceedings of the Conference of Latin Americanist Geographers*

1980-88 Book Review Editor (or Co-Editor), *Economic Geography*

1983-85 Editorial Board, *Professional Geographer*

1985 Contributor to IV-3, A Geographical Bibliography for American Libraries

1985-2012 Editorial Board, *Annals of the Association of American Geographers*

1989-01 Editorial Board, *Mesoamerican Archaeology*

1993 Editorial Board, *Human Dimensions Quarterly*

1994-99 Editorial Board, *Consequences*

1995 Working Group on the new Encyclopedia of the Social Sciences, Elsevier (CASBS)

1996-99 Area Editor, *The Encyclopedia of Global Environmental Change*, Oxford University Press.

1996-04 Editorial Board, Oxford Geographical and Environmental Studies, Oxford University Press

1997-2001 Area Editor, Environmental/Ecological Sciences, *International Encyclopedia of Social and Behavioral Sciences* (Elsevier)

2002-pr Editorial Board, *Environmental Science and Policy*

2002-pr Editorial Board, *Regional Environmental Science*

2003-pr Editorial Board, Human-Environment Interactions: A Book Series, Springer

2005-16 Editorial Board, *Journal of Land Use Science*

2007-09 Editorial Board, *Proceedings of the National Academy of Sciences USA*

2007-pr Advisory Board, *Landscape Ecology*

2008-15 Advisory Board, *The Edge* (Environmental Science, Law, and Policy Book Series)

2009-pr Associate Editor, *Proceedings of the National Academy of Sciences USA*

2011-pr Advisory Board, *Journal of Coupled Human-Environment Systems*

2012-pr Advisory Board, *New Directions in Sustainability Science*, Cambridge University Press

2012-pr Editorial Board, *Journal, Environmental Management*

2012-pr Editorial Board, *The AAG Review of Books*

Review of Programs and Major Institutional Proposals

1989-90 Lead Reviewer, geography programs of the State University System of Florida

2011 External Reviewer, Department of Geography and Environmental Sustainability, University of Oklahoma.

2012 Program Evaluation Committee, Department of Geography, Texas A&M University

2012 Chair, Program Evaluation Committee, Department of Geography, University of Iowa

2018 NSF Initiative, University of Texas at Austin

Representation Related to Geography

1985-86 N.S.F. Review Panel, Geography and Regional Science

1986-88 Regional Councilor, Cultural Ecology Specialty Group, A.A.G.

1986-87 Chair, Nominations Committee, A.A.G.

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

1989-97 U.S. National Committee (AAG) of the International Geographical Union, National Research Council

1991-94 National Councilor, Association of American Geographers (1992-93, Chair, Publications Committee)

1992 U.S. Delegate, International Geographical Congress

1993-96 Rediscovering Geography Committee, National Research Council

1994-98 Global Change Research Committee, AAG

1997-98 Program Committee, A. A. G.

1997-2003 Chair, Committee on Geography, National Research Council

1998-2001 U.S. National Delegate, International Geographical Union

2000-03 Long-Range Planning Committee, AAG

2017 Co-Convener, Agent-Based Modeling (ABM) 17: A Symposium that Advances the Science of ABM, San Diego, April 20-22

International Science & Related Committees

1989-92 US/Soviet Geography Subcommission of the US/Soviet Commissions in the Social Sciences and the American Council of Learned Societies

1991-93 Chair, Ad-hoc Committee on Global Land-Use Change, International Geosphere- Biosphere Programme & Human Dimensions Programme

1991-92 Co-Chair, 1992 SCOPE Scientific Symposium

1992-95 Chair, Core Project Planning Committee on Global Land-Use/Cover Change, International Geosphere-Biosphere Programme-Human Dimensions Program

1994-97 Steering Committee, Land use/Land Cover Project, International Institute for Applied Systems Analysis

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

1996-2001 Scientific Steering Committee, Core Project/ Research Programme on Land-Use/Cover Change, IGBP-IHDP

1997-98 Science Committee, Earth’s Changing Land, GCTE-LUCC Open Science Conference on Global Change, Barcelona, 14-18 March 1998.

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

2001-02 Land project: People-Atmosphere-Land Scoping Activity, International Geosphere-Biosphere Programme and International Human Dimensions Programme

2002-04 Scientific and Technical Advisory Panel of the Global Environmental Fund (UN), Roster of Experts

2002-05 Land Transition Planning Team, IGBP-IHDP

2005-11 Scientific Steering Committee, Global Land Project, IGBP-IHDP

2008-10 European Research Council, Environment and Society Panel, SH3

2009-10 Scientific Committee, Continents under Climate Change, Humboldt-Universität, German Academy of Science, Potsdam Institute for Climate Impact, Apr. 20-23, 2010

2010-14 Scientific Committee, DIVERSITAS

2011-12 Mentor for Foreign Students, Planet Under Pressure (IGBP, DIVERSITAS, IHDP, WCRP, ESSP). 2012, London.

2011 Senior Scientist, Pre-review of “Future Land Graduate School” at Humboldt-Universität zu Berlin.

2011 Co-Coordinator, Global Land Project Workshop (Land Use Transitions in South America: Framing the present, preparing for sustainable future. Ilhabella, Brazil, Nov. 17-19.

2012-2014 Science Committee, Global Land Project Open Science Meeting, 2014, Berlin

2017-19 Review Editor, Intergovernmental Panel on Climate Change, III-7

2019-21 Committee of Experts, European Science Foundation

2019 Review Committee, Res Net, National Research and Engineering Council, CN, McGill University, Canada

National Science & Related Committees

1981-84 A.A.G. Representative to Section H (Anthropology), A.A.A.S.

1987-91 Coordinator, The Earth as Transformed by Human Action Program

1989 Study Group on Human Interactions, Committee on Global Change, National Research Council

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

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

1991-92 Ad-hoc Meeting on Integrated Observing Systems for Global Change, National Research Council

1991 Carbon Cycling Workshop, Electric Power Research Institute

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 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

1994 Co-Chair, Aspen Global Change Institute, Surprises in Global Environmental Change

1995-2000 Advisory Committee on Special Projects, Center for Advanced Studies in the Behavioral Sciences

1996-04 Steering Committee, Center for Integrated Assessment of the Human Dimensions of Global Environmental Change, Carnegie Mellon University

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

1999-2011 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

2001-06 Board on Earth Sciences and Resources, NRC

Chair, Section 64, Class 6, National Academy of Sciences

2002-07 Board on Agriculture and Natural Resources, NRC

2004-07 Land Use Subcommittee, National Ecological Observatory Network (NEON), American Institute of Biological Sciences

2004--10 Land Use and Land Cover Change Steering Committee (LSG), Land Use Interagency Working Group (LUWIG), Climate Change Science Program (US)

2005-06 NRC Committee on Using Demographic Data and Tools More Effectively to Assist Populations at Risk of Facing Disasters

2005-10 Advisory Board, Earth Portal, Environmental Information Coalition

2006-08 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 NSF Workshop on Integrating Social Science into NSF Observation

2007-12 TNG (Temporary Nominating Group-International Diversity), Class IV, NAS

2008-pr Advisory Board, Coupled Human and Natural Systems NET

2008-09 Panel on Advancing the Science of Climate Change, Committee on America’s Climate Choices NRC

2009-10 Nomination Committee, NAS

2009-pr Advisory Board, Office of Sustainability, University of Iowa

2009-15 Roundtable on Science and Technology for Sustainability, NAS.

2010 Mentor for the DISCCRS (Interdisciplinary Discourse on Climate Change) V Symposium, Saguaro Ranch, AZ

2011-15 Advisory Board, Center for Climate and Energy Decision Making, Carnegie Mellon University

2011-12 Steering Committee, Ecosystem Services, 2011 National Academies Keck Futures Initiative (NAKFI)2011-12 TNG (Temporary Nominating Group-Age Diversity, Class IV, NAS,

2011-12 Committee on Needs and Research Requirements for Land-Change Modeling, NRC

2011-12 Science Committee, Fostering Partnerships and Linkages in Sustainability Science and Innovation-A Symposium, National Research Council

2011-14 Scientific Advisory Committee, Environment and Water:  Decision-Support Tools for Managing Ecosystem Services in Arizona (TRIF Project)

2012 Council Designee, Class Membership Committee, National Academy of Sciences

2012-13 Guest Editor, Special Issue, Human-Induced Global Change, *Remote Sensing*

2012-13 Committee on Preparing for Ten Billion on the Planet, National Academy of Sciences, NRC

2012-16 Chair, TNG (Temporary Nominating Group-Age Diversity, Class IV, NAS,

2013 PNAS 150th Celebration Planning Committee, Class VI

2014-15 Committee on Considerations for the Future of Animal Science Research, National Research Council

2014-16 Nominating Committee, National Academy of Sciences

2014-16 Membership Panel, Class III, American Academy of Arts and Sciences

2016 Chair, Panel 2, Gulf Research Program, National Academy of Sciences

2018 Chair, Gulf Region Cooperative for Resilience Research, NAS

2018-20 Secretary, Class VI, NAS

**Awards/Honors**

1975 Sigma Xi

1981-82 John Simon Guggenheim Memorial Fellowship

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

* 1. Fellow, Center for Advanced Study in the Behavioral Sciences, Stanford, CA

1995 Distinguished Research Honors, Association of American Geographers

1995 National Academy of Sciences

1995 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 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 and Political Ecology Specialty Group, AAG

2002 Fellow, American Association for the Advancement of Science

2008 Fellow, Massachusetts Academy of Science (inaugural class)

2009 Sustainability Science Award, Ecological Society of America (for special feature, Land Change Science, *PNAS*).

2012 Distinguished Sustainability Scientist, Global Institute of Sustainability, ASU

2013-18 Distinguished Guest Professor, Beijing Normal University

2014 Fellow of the ASU-Santa Fe Institute Center for Complex Biosocial Systems

2015 Preston E. James Eminent Latin Americanist Career Award, Conference of Latin Americanist Geographers

2015 Regents’ Professor, Arizona State University

2016 Distinguished Scholar, Chinese University of Honk Kong

2018 Presidential Achievement Award, Association of American Geographers

2018 Outstanding Alumnus Award, University of Texas at Austin

**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, Subcontrat, 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 NAG06GD98G. 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\*

2010 NASA, NNX10AK05G.Open Science Meetings of UGEC and GLP, M. Fragkias, Co-PI

2010 NSF, SBE 1025699, Open Science Meetings of UGEC and GLP, M. Fragkias, Co-PI.

2010 NOAA award through UCAR, Open Science Meetings of UGEC and GLP.

2010-16 NSF Urbanization and Global Environmental Change International Research Office, Co-PI.

2010-15 NSF #SBE-1026865, Central Arizona-Phoenix LTER Program, Co-PI (n. Grimm, D. Childers, PI; S. Harlan, C. Boone, C. Redman, Co-PIs). (CAP-LTER III, Arizona State University)

2011-14 National Academies Keck Futures Initiative Ecosystem Services Grant (Senior Scientist; PI O. Sala).

2014-19 NSF & USDA, Earth System Models (EaSM-3): Collaborative Research: Physics-Based Predictive Modeling for Integrated Agricultural and Urban Applications, Co-PI (A. Mahlov, E. Mack, M. Georgescu, M. Moustaoui)

2014-15 NSF, Building Capacity for 21st Social Science, Co-PI (M. Barton, L. Alessa, S. Bankes, L. Buja, E. CoBabe-Ammann, J. Feddema, K. Galvin, S. van der Leeuw)

2016-18 NSF, BCS #1638446. Conference: Agent-Based Modeling 2017: Agent-based Models in the Social, Human-Environment, and Life Sciences,(L. An. P. Jankowski, S. Manson, S. Wang) thru San Diego State U.

2016-18 NSF, DEB #1637590, Design with Nature: A Framework for Exploring Urban Ecology and Sustainability, D. L. Childers, B. L. Turner II, N. B. Grimm, S. J. Hall, A. York

**Grants & Fellowships 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)

* 1. \*Fulbright-Hays Fellowship (C. Radel)
  2. N.S.F. (Geog.) doctoral research (C. Radel)
  3. \*Horton-Hallowell Fellowship (R. Roy Chowdhury)
  4. \*Fulbright-Hays Fellowship (J. Vadjunec)
  5. \*Fulbright-Hays Fellowship (A. Pollock)
  6. N.S.F. grant (Geog.) (S. McCandless)
  7. \*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)

2006-09 \*NASA Fellowship (Z. Christman)

2006 Sigma Xi (A. Versluis)

2008-10 \*NSF Fellowship (D. Werboff)

2009-13 \*SSHRC Fellowship Canada (K. Bennesaiah)

2010-13 \*Trudeau Felllowship Canada (K. Bennesaiah)

2012-13 Fulbright Fellowship, Oman (C. Galletti)

2013-14 \*Walmart Fellowship (J. Salyes)

2013-14 \*Boren Fellowship (J. Connors)

2013-14 Borlaug Fellowship (J. Connors)

2014-15 NSF Dissertation grant (J. Connors)

2015-19 \*NSF Fellowship (E. Tellman)

2016-18 NSF Dissertation grant (E. Tellman)

2016 Google Earth Engine Award (E. Tellman)

2016 Echoing Green Fellowship (E. Tellman)

2017 Foster Latin American Fellowship (E. Tellman)

2017 NSF GROW Fellowship (E Tellman)

2017 Allianz Climate Risk Finalist (2nd) (E. Tellman)

**Publications: Publish or Perish** = +23,800 citations; h-index 59 (Dec 2016)

Books and Monographs

1. 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).

2. 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.

3. 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 Heidelburg New York.

Books edited [10]

1. 1978 ***Pre-Hispanic Maya Agriculture***. P.D. Harrison and B. L. Turner II. (Albuquerque: University of New Mexico Press).

2. 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]

3. 1987 ***Comparative Farming Systems.*** B. L. Turner II and S. B. Brush (New York: Guilford Press).

4. 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).

5. 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).

6. 1994 ***Changes in Land Use and Land Cover: A Global Perspective.*** B. L. Turner II and W. B. Meyer (Cambridge: Cambridge University Press).

7. 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).

8. 1995 ***Regions at Risk: Comparisons of Threatened Environments***.. J.X. Kasperson, R. E. Kasperson and B. L. Turner II (Tokyo: United Nations UniversityPress).

9. 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.

10. 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

1. 1974 Prehistoric Intensive Agriculture in the Mayan Lowlands. B. L. Turner II. ***Science***, Vol. 185, No. 4146, pp. 118-124.

2. 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.

3. 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.

4. 1977 Population Pressure and Agricultural Intensity. B. L. Turner II, R.Q. Hanham and A.V. Portararo. ***Annals of the Association of American Geographers,*** Vol. 67, No. 3, pp. 384-396.

5. 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.

6. 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.

7. 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.

8. 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.

9. 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.

10. 1980 Agricultura Intensiva en las Tierras Bajas Mayas: Una Leccion del Pasado. B. L. Turner II. ***Biotica***, Vol. 5, No. 2, pp. 69-79.

11. 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).

12. 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).

13. 1980 Comments on Maritime Hunter-Gatherers: Ecology and Pre-history. B. L. Turner II. ***Current Anthropology,*** Vol. 22, No. 1, pp. 742-743.

14. 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.

15. 1981 Agricultura y Desarrollo del Estado en las Tierras Bajas Mayas. B. L. Turner II. ***Estudios de Cultura Maya,*** Vol. 13, pp. 285-306.

16. 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.

17. 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.

18. 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.

19. 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.

20. 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.

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88. 2014 The Bet: Paul Ehrlich, Julian Simon, and Our Gamble over the Earth’s Future. ***The AAG Review of Books.***,Vol. 2, No. 1, pp. 1-3, DOI: 10.1080/2325548X.2014.894410

89. 2014 Understanding Population in Human-Environment Relationships: Science Shaped by World Views or Evidence. In ***Can Earth’s and Society’s Systems Meet the Needs of 10 Billion People? Summary of a Workshop***.. National Research Council. Washington, D.C.: National Academy Press. pp. 15-20.

90. 2016 Nature-Society In Geography. **International Encyclopedia of Social & Behavioral Sciences, 2nd ed.** Elsevier, pp. 334-339. (revision of 1st edition entry).

91. 2016 Introduction: The Continued Importance of Smallholders Today. Jacqueline Vadjunic, Claudia Radel, & B. L. Turner II. ***Land***, Vol 5, No. 4: 34-

91. 2017 Land Change Sciences In ***The Encyclopedia of Geography: People, the Earth, Environment, and Technology*,** Ed. D. Richardson, N. Castree, M. M. Goodchild, A. Kobayashi, W. Liu, & R. A. Marston. Walden, MA: Wiley doi: 10.1002/9787118786352.wbieg0192

92. 2017 The Ancient Maya: Sustainability and Collapse? ***Routledge Handbook of the History of Sustainability, Jeremy L. Caradoona, ed.*** New York: Routledge Press, pp. 57-66.

93. nd Land Change Science/Land System Science. B. L. Turner II & Darla K. Munroe. In ***International Encyclopedia of Human Geography***, 2e. A. Kobayashi & N. Castree (forth coming).

94. nd Synthetic contributions. Controversies engaged: Numbers, Imprint, and Behavior. ***Forest, Field, and Terrace: William Denevan on Cultural & Historical Ecology***, eds. Kent Mathewson & Antoinette M. G. A. WinkerPrins. Routledge (forthcoming).

### Other Publications

1. 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.

2. 1983 Preface. ***Irrigation Horticulture in Highland Guatemala. The Tablon System of Panajachel,*** by K. Mathewson (Boulder: Westview Press).

3. 1986 Mystery of the Maya Revealed. ***Focus*** (summer), pp. 1-7.

4. 1987 Bring Geography Back to American Universities, Editorial, ***Christian Science Monitor***, Nov. 16, p. 16.

5. 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.

6. 1991 To the editor [comments on the Cultural Ecology Specialty Group, AAG], ***Cultural Ecology Newsletter*** No. 18 (Spring), pp. 3-5.

7. 1992 Science Capsule: Land, Water, and Society, with W.B. Meyer. ***EarthQuest*** Summer).

8. 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.

9. 1994 Cry Wolf, with W. B. Meyer, ***Human Dimensions Quarterly***, Vol. 1, No. 2, pp.9-12.

10. 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.

11. 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.

12. 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.

13. 1996 Introduction to the Human Dimensions of Global Change, with E. Archer. ***AAG/CCG2 Project: Developing Active Lerning Modules on the Human Dimensions of Global Change.*** Washington, D.C.: Association of American Geographers.

14. 1997 Socializing the Pixel in LUCC. ***LUCC Newsletter*** No. 1 (Feb.), pp. 10-11.

15. 1997 LUCC at the 1997 Open Meeting of the Human Dimensions of Global Change Research Community. ***LUCC Newsletter***, No. 2, pp. 15-16.

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.

17. 1997 LUCC and Socializing the Pixel. ***Himalayan Research Bulletin*** Vol. 27, No. 2, p. 85

18. 1998 Thoughts on GCTE-LUCC Science. ***LUCC Newsletter*** No. 3, pp. 4-5.

19. 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)

20. 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).

21. 1999 Editors’ Introduction, with J. X. Kasperson, R. E. Kasperson. In ***The Llano Estacado of the US Southern Hign Plains: The Rise and Decline of a Modern Irrigation Culture.***  E. Brooks and J. Emel. Tokyo: United Nations University Press (forthcoming).

22. 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.

23. 2002 The Changing Place of Geography in the National Academy of Sciences, with S. Hanson. ***AAG Newsletter***, Vol. 37, No. 4: 1, 5-7.

24. 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.

25. 2006 Review. Plows, Plaques and Petroleum. ***Geographical Review*** .Vol. 96. Issue 3. pp. 516-519.

26. 2007 Editor, Special Feature on Land Change Science. ***Proceedings, National Academy of Sciences*** ***of the United States of America*** Vol. 104, No. 52.

27. 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).

28. 2008 Turner II, B. L. 2008. A skeptic's comments on resilience and alternative approaches to coupled

human-environment systems*. in* M. Leach, editor. ***Re-framing Resilience: a symposium***

**report**, STEPS Working Paper 13. STEPS Centre, Brighton, 9-10.

29. 2010 Guest Editor, Special Issue on Land Change in the Southern Yucatán: Case Studies in Land Change Science. ***Regional Environmental Change*** Vol 10l, No. 3, pp. 169-2xx.

30. 2012 Forward. *Ecologies and Politics of Health*, B. King and Kelley A. Crews, eds. New York: Routledge, pp. xxix-xxi.

31. 2017 Karl W. Butzer, 1934-2016***: Biographical Memoirs, National Academy of Sciences.*** [http://www.nasonline.org/publications/biographical-memoirs/memoir-pdfs/butzer-karl.pdf](https://urldefense.proofpoint.com/v2/url?u=http-3A__www.nasonline.org_publications_biographical-2Dmemoirs_memoir-2Dpdfs_butzer-2Dkarl.pdf&d=DwMFAg&c=AGbYxfJbXK67KfXyGqyv2Ejiz41FqQuZFk4A-1IxfAU&r=_CRwZHTPOvf5-NbtcpmKoR4WLqYeqz7R3sB3uT-QwXo&m=mkPZJgg86zoicSO1fJsA31e5g21fR8L6_uPXmMqg_iI&s=W1IIqzYZDm6yIuyglzaq-RLPcYfFfi53mv4wSLSueQk&e=)

# Research and Committee Reports: Published

1. 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].

2. 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.

3. 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].

4. 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.

5. 1992 ***Global Environmental Change: Understanding the Human Dimensions.***

Committee on the Human Dimensions of Global Change, NRC. Washington, D.C.: National Academy Press.

6. 1993 Relating Land Use and Global Land-Cover Change: A Proposal for an IHDP Core Project, ***IGBP Report No. 24*** & ***HDP Report No. 5***, edited with R.H.Moss and D. L. Skole.

7. 1995 Land-Use and Land-Cover Change: Science/Research Plan. ***IGBP Report No. 35/HDP Report No. 7***. With David Skole, Steven Sanderson, Gunter Fischer. Louise Fresco and Rik Leemans and others. Stockholm and Geneva.

8. 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.

9. 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).

10. 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.

11. 1997 ***Rediscovering Geography: New Relevance for Science and Society.*** Washington, D.C.: National Academy Press.

12. 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.

13. 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.

14. 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.

15. 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.

16. 2004 Abrupt Changes: The Achilles Heel of the Earth System. W. Steffan, M. O. Andreae, B. Bolin, P. J. Crutzen, P. Cox, U. Cubasch, H. Held, N. Nakicenovic, R. Scholes, L. Talaue-McManus, and B. L. Turner II. ***IIASA Reprint Research Report, RR-04-006, June 2004****. (Reprented* from ***Environment*** 2004).

17. 2005 ***Global Land Project.*** .Science Plan and Implementation Strategy. IGBP Report 53/IHDP Report 19. Stockholm: IGBP.

18. 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.

19. 2010 ***Advancing the Science of Climate Change.*** ***America’s Climate Choices***. National Research Council, National Academy Press: Washington, D.C.

20. 2010 Towards a Science of Sustainability: Report from Toward a Science of Sustainability Conference, Airlie Center, Warrenton, Virginia, Nov. 29, 2009-Dec. 2, 2009. Funded by the National Science Foundation. Princeton University: Princeton Environmental Institute and Center for BioComplexity, and Center for International Development, Sustainability Science Program, Harvard University.

21. 2014 ***Advancing Land Change Modeling: Opportunities and Requirements.*** National Research Council, National Academies Press: Washington, D.C.

22. 2015 ***Critical Role of Animal Science Research in Food Security and Sustainability.*** National Research Council, National Academies 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.

1997-2008 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)

1. 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 21st Century, University of Florida

2005 President’s Lecture, University of Oklahoma

2005 University Distinguished Lecturer, Kansas State University

2008 Universidad Nacional de Colombia (inaugural celebration, doctoral program in geography)

2009 Rachael Carson Lecture, Michigan State University

2010 President’s Plenary Session, Association of American Geographers, Washington, D.C.

2011 AAG Distinguished Geographer Lecture, Utah State University

2011 AAG Distinguished Geography Lecture, Weber State University

2013 First International Forum on Landscape Sustainability, Beijing Normal University (Center for Human-Environment System Sustainability)

2018 Keynote Address: Symposium on Transdisciplinary Sustainability, Temple U., Mar. 22-23

**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 Oversees 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 Autonoma 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 21st 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 21st 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-Champagne-Urbana

2006 International Symposium on Sustainable Development, Hokkaido University, Sapporro, JP

2006 Environmental Studies and Geography, Macalester College

2007 Geography and IGERT Program, University at Buffalo, SUNY [2]

2007 Symposium, Sustainability Science, AAAS, 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 4th IGBP Congress, Cape Town

2008 Pre-G8 Summit Symposium on Dynamics and Pathways of Land System Change, U. Hokkaido

2008 Harlan II: An International Symposium—Biodiversity in Agriculture: Domestication, Evolution, & Sustainability, U. California, Davis, 14-18 September

2008 STEPS Centre Symposium. Re-framing Resilience: Trans-disciplinarity, reflexivity and progressive sustainability. 24-25 September, Sussex University, UK

2008 Social Science Seminar Series & Department of Geography, Oklahoma State University

2010 Coupled Human and Natural Systems Fellows, Association of American Geographers, Washington, D.C.

2010 Global Sustainability Summer School, Santa Fe Institute and National Renewable Energy Laboratory, Santa Fe, NM (3)

2010 Plenary, Ester Boserup Conference: A Centennial Tribute. Nov. 15-17, Vienna

2011 Symposium, Research Frontiers in Sustainability Science: Bridging Disciplines and Practice, AAAS, Washington, D.C. (with E. Lambin).

2011 Land Use Transitions in South America, Ilhabela, Brazil (2)

2012 Plenary, Conference of Latin Americanists Geographers, Merida

2012 11th Annual LTER Mini-Symposium, NSF, Mar. 1.

2012 Sustainability Linkages in the Federal Government, June 11-12, ASU. Session on Sustainability Linkages for Urban Systems.

2012 Aspen Global Change Institute, Adaptation, Aug. 6-10,

2012 SWAAG Plenary Lecture, Las Curses, NM, Oct. 26.

2012 National Autonomous University of Mexico, Morelia.

2013 Program of Ecology, Inner Mongolia University

2013 Workshop on Sustainability Science: Can Earth’s and Society’s Systems Meet the Needs of 10 Billion People, National Academy of Sciences, Oct. xx.

2014 Plenary, 2nd Open Science Meeting, Global Land Project, Berlin, Mar. 19-21

2014 Nicholas School of the Environment, Duke University

2016 Advanced Workshop on Cities, Environment and Sustainability, Chinese University of Hong Kong, April 11

2017 National Laboratory of Sustainability Sciences, Autonomous University of Mexico, Feb. 13

2017 Graduate Program of Sustainability Sciences, Autonomous University of Mexico, Feb. 15

2017 Geography, University of California, Santa Barbara, March 2

2017 Joint Workshop Global Land Project & ERC on Middle Range Theory Development in Land System Science: Beyond Box-and-Arrow Frameworks, Weggis, Switzerland March 29-30

2017 Vulnerability & Resilience: From Catastrophe to Complexity in the Pre-modern Mediterranean and the Pre-Columbian Americas, Princeton U. May 5-6

2018 Geography, UCLA, Feb. 26

2018 Geography, Texas A&M, Mar. 9

2018 School of Environment & Sustainability, U. Michigan, Mar.

**FORMER DOCTORAL ADVISEES** [date, post, \* Co-advisee]

*U. Oklahoma*

1. William E. DOOLITTLE III,1979, Erich W. Zimmermann Regents Professor of Geography & Chair, U. Texas at Austin.

*Clark U.*

2. A. M. Shajaat ALI ,1987, Professor & Head, Center for Research Development, U. Texas at Tyler (retired).

3. Arnold GRAY,1988, Private Business.

4. Thomas M. WHITMORE, 1990, Assoc. Prof., U. North Carolina (retired).

5. Anthony J. BEBBINGTON, 1990, M.P. and A. C. Higgins Professor of Environment and Society & Director, Graduate School of Geography, Clark U. (NAS, American Academy. Australian Laureate Fellow)

6. \*David MAZAMBANI,1990, Enda- Trust Zimbabwe.

7. Brad JOKISH,1998, Assoc. Prof., Ohio U..

8. Yelena OGNEVA-HIMMELBERGER,1998, Assoc. Professor of Geographic Information Science for Environment and Development, Clark U.

9. Rheyna LANEY, 1999, Assoc. Prof.., Sonoma State U.

10. Peter KLEPEIS, 2000, Professor, Colgate U.

11. \*Emma ARCHER, 2000, Principal Researcher, Council of Scientific & Industrial Research, Pretoria, South Africa & Lecturer, U. Witswatersrand

12. \*William C. McCONNELL, 2000, Assoc. Dir., Center for Systems Integration and Sustainability & Asst. Prof. of Fihseries and Wildlife, Michigan St. U.

13. \*Dmitry VARLYGUIN, 2000, Geospatial Data Analysis Corp., State College, PA.

14. \*Patricia A. BENJAMIN, 2002, Assoc. Professor, Worcester State Coll.

15. Nicholas HAHN, 2002. Managing Director, Impact Partnership Program, Singularity U.

16. Paul LARIS, 2002. Assoc. Prof. Long Beach State U.

17. Eric KEYS, 2002, AAAS Science and Technology Fellow, NSF.

18. Steven MANSON 2002, McKnight Land Grant Professor, U. Minnesota.

19. \*Davison GUMBO, 2003, Regional Scientist, CIFOR, Zambia.

20. Rinku ROY CHOWDHURY, 2003, Assoc Prof. Clark U.

21. Laura SCHNEIDER, 2004, Assoc. Prof., Rutgers U.

22. \*Claudia RADEL, 2005, Assoc. Prof., Env. & Soc. College of Natural Resources, Utah State U.

23. \*Pablo PACHECO, 2005, Senior Scientist, Center for International Forestry Research (CIFOR), Regional Office for Latin America.

24. \*Aaron POLLACK, 2005, [Centro de Investigaciones y Estudios Superiores en Antropología Social (CIESAS)](https://ciesasdocencia.academia.edu/), San Cristobal, MX.

25. Jacqueline VADJUNEC, 2007, Assoc.. Prof., Oklahoma State U.

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