

MONICA G. TURNER
Eugene P. Odum Professor of Ecology and Vilas Research Professor

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Academic Record

- B.S. Biology, 1980 Fordham University, Bronx, New York
summa cum laude, in cursu honorum; Phi Beta Kappa
Ph.D. Ecology, 1985 University of Georgia, Athens, Georgia
with honors; Phi Kappa Phi (Advisor: Frank B. Golley)

Experience

- 1999– Professor, Department of Zoology, University of Wisconsin
1995-99 Associate Professor, Department of Zoology, University of Wisconsin
1994-95 Assistant Professor, Department of Zoology, University of Wisconsin
1989-94 Research Staff Scientist, Environmental Sciences Division,
 Oak Ridge National Laboratory
1987-89 Hollaender Distinguished Fellow, Environmental Sciences Division,
 Oak Ridge National Laboratory
1985-87 Postdoctoral Research Associate, Institute of Ecology, Univ. Georgia (Advisor:
 Eugene P. Odum)
1983-85 Graduate Research Assistant, NPS Coop Unit, Univ. Georgia (2 yr)
1980-83 University-Wide Graduate Non-Teaching Assistant, Univ. Georgia (3 yr)
1982 Graduate Research Assistant, Virgin Islands National Park, St. John, USVI,
 National Park Service Cooperative Unit, Univ. Georgia (summer)
1981 Environmental Specialist (Federal Summer Intern), UNESCO Man and the
 Biosphere Programme, US National Park Service, Washington, D.C.
1978 Ranger-Naturalist, Interpretive Division, Student Conservation Association and
 National Park Service, Yellowstone National Park (summer)

Research Interests

Causes and consequences of spatial heterogeneity in ecological systems; dynamics of natural disturbances and their effects on ecosystems; fire ecology; ecological effects of land-use change; landscape ecology; forest ecosystem ecology; ecosystem services.

Professional Societies and Offices Held

- Ecological Society of America (ESA)
President, 2014-2017 (1-yr each as President-elect, President, Past-president)
Publication Transitions Committee, 2015
Awards Committee, MacArthur Award Subcommittee, 2009-10; 2013

Awards Committee, Eminent Scholar and Distinguished Service Citation awards, 2010
Rapid Response Team of the Public Affairs Office, 2004–
Ad hoc Visions Committee, 2002-04
Committee Chair, Odum Award for Excellence in Ecology Education, 2000–2002 awards
Ad hoc Committee on Land Use, 1996-99
Awards Committee, Mercer Award Subcommittee, 1994-96
Ad hoc Committee on Editorship of ESA Journals, 1994
Local Arrangements Committee for 1994 Annual Meeting (Knoxville, TN)
Ad hoc Committee on Ecosystem Management, 1993-94
Ad hoc Visions Committee, 1990–1991
Future Meetings Committee, 1989–1992

US Association of the International Association for Landscape Ecology (US-IALE)
Co-local meeting host (with Phil Townsend), 2008, Madison, WI
Nominating Committee, 2001-03
President, 1994-1996
Local meeting host, 1993, Oak Ridge, TN
Councilor-at-Large, 1990-92
Program Chair, 1986-89 (four annual conferences)
Local meeting host, 1986, Athens, GA (1st annual conference)

American Institute of Biological Sciences (AIBS)
AIBS Publications Committee, 2001-02

Honors and Awards

2015	Named a Vilas Research Professor, UW-Madison
2014	Elected as President of the Ecological Society of America
2012	Named a Fellow of the Ecological Society of America
2010	Distinguished Service Award, US-IALE
2008	Robert H. MacArthur Award, Ecological Society of America
2008	ECI Prize in Terrestrial Ecology, Ecology Institute, Inter-Research Science Center, Oldendorf/Luhe, Germany
2008	Wisconsin Alumni Research Foundation professorship, UW-Madison
2005	Named the Eugene P. Odum Professor of Ecology, UW-Madison
2004	Elected to the National Academy of Sciences
2004	Identified as a Highly Cited Researcher by Thompson ISI
2003	Distinguished Scholarship Award, International Association for Landscape Ecology (IALE), award given every 4 years
1999	Romnes Fellowship, Graduate School, UW-Madison
1998	Distinguished Landscape Ecologist Award, US-IALE
1993	Finalist (Science and Technology), Knoxville YWCA Tribute to Women
1991	Distinguished Scientific Achievement Award, East Tennessee Chapter, Association for Women in Science
1990	Scientific Achievement Award, Environmental Sciences Division, ORNL
1990	Sigma Xi

1987	Awarded an Alexander Hollaender Distinguished Fellowship from the US Department of Energy, Office of Health and Environmental Research
1985	Phi Kappa Phi National Honor Society
1984-85	University of Georgia Graduate School Merit Assistantship Supplement (awarded for outstanding achievement)
1980-83	University-Wide Graduate Non-Teaching Assistantship, University of Georgia (3 separate competitive awards)
1980	Graduated Summa Cum Laude, Fordham University
1980	Honorable Mention, National Science Foundation Graduate Fellowship
1980	Finalist, Danforth Graduate Fellowship Competition
1980	Certificate of Honor for Outstanding Accomplishment, American Institute of Biological Sciences, Fordham University Chapter
1979	Phi Beta Kappa (elected as 3rd year undergraduate)
1977-80	Fordham College Honors Program
1976-80	New York State Regents Scholarship

Research Grants

1988	Workshop: "Predicting Across Scales: Theory Development and Testing," with R. H. Gardner and V. H. Dale. November 8-11, Oak Ridge, Tennessee. National Science Foundation, Ecosystem Studies Program, \$27,080 and Department of Energy, Ecological Research Division, \$15,000.
1990	"Plant Recovery Following Fire in Yellowstone National Park," with W. H. Romme and R. H. Gardner. National Geographic Society, \$9,519.
1990-1991	"Consequences of Large-scale Fire on Plant Reestablishment in Yellowstone National Park, Wyoming," with W. H. Romme and R. H. Gardner. National Science Foundation, Ecosystem Studies Program, Small Grants for Exploratory Research. \$49,518.
1990-1992	"Landscape-Level Interactions Among Ungulates, Vegetation, and Large-Scale Fires in Northern Yellowstone National Park," with W. H. Romme and L. L. Wallace. University of Wyoming-National Park Service Research Center, \$168,000.
1990-1993	"Pattern, Process and Predictability," with R. H. Gardner and R. V. O'Neill. US Department of Energy, Ecological Research Division. \$230,000 per year.
1990-1992	"Land Use Patterns in the Olympic and Southern Appalachian Biosphere Reserves: Implications for Long-term Sustainable Development and Environmental Vitality," submitted by the US MAB Temperate Ecosystems Directorate, of which M. G. Turner is a member. US MAB National Committee, \$290,716.

- 1991-1994 "Causes and Consequences of Large-scale Fire in Yellowstone National Park," with W. H. Romme and R. H. Gardner. National Science Foundation, Ecosystem Studies Program. \$550,000.
- 1991-1992 "Comparing landscape patterns across forest ownership groups," with R. O. Flamm in cooperation with D. N. Wear. US Forest Service. \$20,000.
- 1993-1995 "Land Use Patterns in the Olympic and Southern Appalachian Biosphere Reserves: Implications for Long-term Sustainable Development and Environmental Vitality. Phase 2." Renewal proposal, with R. Lee, R. Naiman, R. Flamm, D. Wear, R. Gottfried and C. Bledsoe. US MAB National Committee, \$290,000.
- 1994-1995 "Effects of Land Use Change on Biodiversity in the USA," National Status and Trends Report, National Biological Service, \$13,596.
- 1994-1996 "Consequences of Land-cover Change for Terrestrial Species," with S. M. Pearson. \$90,124. Subcontract from the University of Georgia LTER Augmentation Proposal, "Causes and Consequences of Land-cover Change in the Southern Appalachians: Supplement to LTER Research at Coweeta Hydrologic Laboratory." National Science Foundation, Long Term Ecological Research Program, \$999,905.
- 1994-1996 "LTER Project Augmentation, Upper Midwest Lakes and their Landscapes: 1800 to 2100," with J. J. Magnuson and 11 co-PIs. National Science Foundation, Long Term Ecological Research Program, \$998,848.
- 1995-1996 "Land Use Patterns in the Olympic and Southern Appalachian Biosphere Reserves: Implications for Long-term Sustainable Development and Environmental Vitality. Phase 3" Renewal proposal, with R. Lee, R. Naiman, R. Flamm, D. Wear, R. Gottfried and C. Bledsoe. US MAB National Committee, \$100,000.
- 1995-1996 "Landscape-level foraging strategies of wintering ungulates." Research Committee, The Graduate School, University of Wisconsin-Madison, \$15,816.
- 1995-1998 "SERDP: Modeling effects of land management on biotic resources for Department of Defense and Department of Energy Lands." Subcontract from DoD grant to Oak Ridge National Laboratory, \$52,500.
- 1995-1998 "Mechanisms of persistence of aspen seedlings following the 1988 Yellowstone fires," with W. H. Romme and G. T. Tuskan. USDA National Competitive Grants Initiative, Forest/Crop/Rangeland Ecosystems Program, \$229,000.

- 1996 "Workshop: Comparing large, infrequent disturbances: what have we learned?", with V. H. Dale. National Center for Ecological Analysis and Synthesis, University of California-Santa Barbara, \$15,000.
- 1996 "Differences in succession following the 1988 Yellowstone fires," with W. H. Romme. National Geographic Society, \$22,000.
- 1996-2002 "Effects of land use on terrestrial biodiversity," with S. M. Pearson. \$276,657 subcontract from the University of Georgia LTER (Coweta) Proposal, "Long-term studies of disturbances as they affect ecological processes in landscapes of the Southern Appalachians." National Science Foundation, Long Term Ecological Research Program, \$6,000,000.
- 1996-2002 "Long-term regional ecology of North Temperate Lakes," with J. J. Magnuson (PI) and 11 co-PIs. National Science Foundation, Long Term Ecological Research Program, \$6,000,000.
- 1998 "Spatial patterns of postfire vegetation in Yellowstone," USDI, Yellowstone National Park, Wyoming, \$12,812.
- 1998-1999 "Spatial patterns of postfire succession in Yellowstone: effects on ecosystem processes." Research Committee, The Graduate School, University of Wisconsin-Madison, \$15,750 (awarded but returned).
- 1998-2002 "Causes and consequences of spatial variation in initial postfire succession in the Yellowstone landscape," with W. H. Romme and D. H. Knight. National Science Foundation, Ecosystem Studies and Ecology Programs, \$400,000.
- 1998-2002 "Ecological indicators for large river-floodplain landscapes," with E. H. Stanley. Environmental Protection Agency, NCERQA, STAR program, \$677,351.
- 2000-2004 "Building a mechanistic basis for landscape ecology of ungulate populations," with P. Turchin (lead PI), J. Fryxell, M. Boyce and E. Merrill. National Science Foundation, IRCEB, \$2,000,000 (\$651,653 subcontract to UW-Madison).
- 2000-2006 "Divergent dynamics: complex interactions or riparian land, people, and lakes," with S. R. Carpenter (lead PI), W. A. Brock, A. R. Ives, T. K. Kratz, and others. National Science Foundation, Biocomplexity Program, \$2,998,607.
- 2001-2008 "How do disturbance-generated landscape patterns influence the spatial dynamics of ecosystem processes?" (with W. R. Romme and D. B. Tinker). Andrew W. Mellon Foundation, Conservation and Environment Program, \$690,000.
- 2002-2010 "Hydrologic and biogeochemical fluxes in regional land-water mosaics" (S. R. Carpenter, M. G. Turner, J. A. Foley). Andrew W. Mellon Foundation, Conservation and Environment Program, \$650,000

- 2002-2008 “Ecological consequences of land-use change in the southern Appalachian Mountains” (Coweeta LTER site; T. L. Gragson, J. M. Vose, B. D. Kloepel and lots of co-PIs), National Science Foundation, LTER program, subcontract to UW-Madison is \$211,757 from overall \$6 million grant
- 2002-2008 “Comparative Study of a Suite of Lakes in Wisconsin” (North Temperate Lakes LTER site; S. R. Carpenter, lead PI, with 11 co-PIs), National Science Foundation, LTER program, \$6.72 million.
- 2003-2004 “Ecosystem function in heterogeneous landscapes: the tenth Cary Conference,” G. M. Lovett, C. G. Jones, M. G. Turner, K. C. Weathers. National Science Foundation, Ecosystem Studies Program, \$50,000.
- 2003-2007 “Carbon cycling at the landscape scale: the effect of changes in climate and fire frequency on age distribution, stand structure, and net ecosystem production” with M. G. Ryan (lead PI), W. H. Romme and D. B. Tinker. Joint Fire Science Program, \$497,648 with \$142,953 to UW-Madison.
- 2005-2008 “Eutrophication thresholds – assessment, mitigation and resilience in landscapes and lakes” (S. R. Carpenter, M. G. Turner and J. A. Foley). US Environmental Protection Agency STAR Program, \$299,999.
- 2006-2009 “Reciprocal interactions between bark beetles and wildfire in subalpine forests: landscape patterns and the risk of high-severity fire.” (D. B. Tinker, M. G. Turner, W. H. Romme and P. Townsend). Joint Fire Science Program, Total award of \$299,951 of which \$209,443 is to UW-Madison.
- 2007-2010 “Fire, bark beetles and salvage logging in the Greater Yellowstone Ecosystem.” (M. G. Turner, K. F. Raffa, J. A. Griffin, M. Simard). USDA Forest Service, Western Wildland Environmental Threats Assessment Center, \$100,000.
- 2008-2014 “LTER: Comparative study of a suite of lakes in Wisconsin.” Renewal of North Temperate Lakes LTER site, S. R. Carpenter, lead PI, many co-PIs. NSF Long-term Ecological Research (LTER) Program. \$7.44 million total.
- 2008-2014 “Southern Appalachia on the edge: exurbanization and climate interaction in the southeast.” Renewal of Coweeta LTER site, T. Gragson, lead PI, many co-PIs. NSF Long-term Ecological Research (LTER) Program. Total award of \$7.44 million, of which \$267,011 is to UW-Madison.
- 2009-2010 “Effects of interacting disturbances on biogeochemistry in conifer forests of Greater Yellowstone.” Research Committee (Biological Sciences Division), Graduate School, University of Wisconsin-Madison, \$31,613 (one year graduate RA support).

- 2009-2010 “Climate, fire and carbon: tipping points and landscape vulnerability in Greater Yellowstone” (E. A. H. Smithwick, W. H. Romme, M. G. Ryan, M. G. Turner and A. Westerling). Joint Fire Science Program, \$140,653.
- 2009-2013 “Bark beetles, fuels and future fire hazard in contrasting conifer forests of Greater Yellowstone.” (M. G. Turner, W. H. Romme, P. A. Townsend, J. M. Griffin, M. Simard) Joint Fire Science Program, \$407,767.
- 2010-2014 “Wildlife consequences of biofuel production in Wisconsin landscapes.” Wisconsin Department of Natural Resources, \$165,000.
- 2010-2016 “Climate change, shifting land use and urbanization in a Midwestern agricultural landscape: challenges for water quality and quantity.” (C. A. Kucharik, S. R. Carpenter, S. P. Loheide, A. Rissman, and M. G. Turner). National Science Foundation (Water, Sustainability and Climate program), \$4,911,961.
- 2011-2014 “Paths of recovery: landscape variability in forest structure, function and fuels 25 years after the 1988 Yellowstone fires.” (M. G. Turner, W. H. Romme and D. B. Tinker). Joint Fire Science Program, \$391,776.
- 2012-2014 “Is spatial heterogeneity of burn severity changing with warming climate and increasing wildfire?” (M. G. Turner and B. J. Harvey). Graduate Research Innovation (GRIN) award for Brian Harvey, Joint Fire Science Program, \$22,433.
- 2012-2014 “Lake remote sensing and landscape analysis.” Wisconsin Department of Natural Resources, \$79,024.
- 2015-2016 “Climate change, fire and state changes in western conifer forests.” Research Committee, UW-Madison Graduate School, \$39,904.
- 2015-2017 “Regional scenarios, biodiversity and ecosystem services in southern Appalachia” (subcontract to UW-Madison from the Coweeta Long-term Ecological Research award, “LTER: The interacting effects of hydroclimate variability and human landscape modification in the Southern Appalachian Mountains” from the National Science Foundation, T. Gragson, lead-PI, University of Georgia, \$101,196.
- 2015-2021 “LTER: Comparative study of a suite of lakes in Wisconsin” (E. H. Stanley, lead PI, numerous co-PIs). National Science Foundation, Long-term Ecological Research Program, \$6M.

Professional Activities (in addition to professional society service)

- 2015 Co-organizer (with Rose E. Graves) of symposium, “Meeting the challenge of landscape sustainability: balancing multiple ecosystem services in heterogeneous landscapes,” IALE World Congress, Portland, Oregon 5-10 July.

- 2015 Invited workshop participant, “Next generation models for ecosystem services and biodiversity,” Synthesis Centre sDiv, German Centre for Integrative Biodiversity Research (iDiv), Leipzig, 14-17 April.
- 2015 Keynote speaker, 2015 Summit, “Science for parks and parks for science: the next century”, University of California-Berkeley, 22-27 March.
- 2015 Invited participant, Program on Ecosystem Change (PECS) workshop, “Ecosystem service trade-offs and synergies: synthesizing and learning across case studies, 28-31 January, Stockholm, Sweden.
- 2014 Co-organizer (with Jill F. Johnstone) of Organized Oral Session, “Climate warming, changing disturbance regimes, and forest resilience,” at the 2014 Ecological Society of America annual meeting
- 2014 Scientific co-leader, COMPASS workshop, Communicating fire science, Seattle, WA, April 23-26.
- 2013– Advisory Committee, Swiss Federal Research Institute for Forest, Snow and Landscape Research WSL, Birmensdorf, Switzerland
- 1996– Co-Editor in Chief, *Ecosystems* (with S. R. Carpenter)
- 1996– Editorial Board, *BioScience*
- 2013 Class Membership Committee, Section 63, National Academy of Sciences
- 2012 Committee of Visitors, Division of Environmental Biology, NSF; June 5-7
- 2011 Participant, UFZ Roundtable, “Challenges to ecological theory and modeling in a changing world,” Liebenberg, Germany, October 10-14.
- 2010-13 Associate Editor, Encyclopedia of Biodiversity
- 2007-13 Associate Editor, *Quarterly Review of Biology*
- 2009 NSF workshop on Sustainability Science, 30 Nov.-2 Dec., Virginia
- 2009 Advisory Committee (DSECC 12), National Environmental Observatory Network (NEON), Northern Rockies domain
- 2008-09 Blue-ribbon science review panel for Isle Royale National Park
- 2007-09 Advisory Board, *Landscape Ecology*
- 2006-07 Chair, External Review Panel for wilderness research, US Forest Service Research; review was held February 20-22, 2007.
- 2006 Invited participant, GAO Workshop on Climate Change and Federal Lands, National Academy of Sciences, November 2-3.
- 2006 Participant, LTER All-Scientists Meeting, Estes Park, Colorado, Sept. 20-23
- 2006 Oosting Lecturer, Duke University, April 5-7.
- 2006 Congressional briefing to House and Senate science staffers on forest fire, sponsored by ESA and other scientific societies; March 9.
- 2006 Ecology Program, National Science Foundation, Workshop on Frontiers in Ecology, January 9-11
- 2005-08 Member, National Research Council, Board on Environmental Studies and Toxicology (BEST); working group chair, 2006-08.
- 2005-2009 Editorial Board, Terrestrial Ecology Series, Academic Press
- 2005 Visiting scholar, Umeå University, Umeå, Sweden, March 14-19
- 2004 Participant, LTER Planning “Meeting of 100”, Cape Canaveral, FL, Nov. 9-12
- 2003 External reviewer, Landscape Department, Swiss Forest Research Institute, Birmensdorf, Switzerland. Program review, January 29-30.

2003	Co-organized symposium, "Reciprocal interactions between ungulates and landscapes," for the 2003 World Congress of the International Association for Landscape Ecology in Darwin, Australia with Dean Anderson.
2001-03	Co-organizer of the 2003 Cary Conference, "Ecosystem function in heterogeneous landscapes," Institute for Ecosystem Studies, Millbrook, NY
1998-02	Committee on Ungulate Management in Yellowstone National Park, National Research Council, National Academy of Sciences
2000	Organizer (with F. S. (Terry) Chapin) of Symposium, "Integrating ecosystem and landscape ecology: spatial heterogeneity in ecosystem processes," Ecological Society of America Annual Meeting, Snowbird, Utah.
1997-00	Ecosystems Panel, National Research Council, National Academy of Sciences
1992-04	Editorial Board, <i>Ecological Applications</i>
1995-03	Editorial Board, <i>Conservation Ecology</i>
1992-04	Editorial Board, <i>Landscape Ecology</i>
1995-97	Science Advisory Board, National Center for Ecological Analysis and Synthesis, University of California-Santa Barbara.
1993-96	Participant, Workshop on Land-use History of North America. National Biological Service, Patuxent, Maryland, 14-15 August.
1995-97	Science Advisory Committee, Oak Savanna Legacy Project, The Sand County Foundation, Madison, Wisconsin
1995	Participant, Sixth Cary Conference, "The Ecological Basis of Conservation," Institute of Ecosystem Studies, Millbrook, New York, May.
1994	Distinguished Ecologist Series, Colorado State University, February 8-10
1993	Keynote Speaker, Symposium on the Role of Fire in the Greater Yellowstone Area, Yellowstone National Park, Wyoming, 19-21 September
1993	Invited Panelist, International Workshop on Biodiversity Survey, Inventory and Data Management. Smithsonian Institution, Washington, DC, 11-15 January
1993	Terrestrial Ecology Technical Panel, NASA, 1-3 March
1993	Local host, 8th Annual Landscape Ecology Symposium, Oak Ridge, Tennessee, 24-27 March
1993	Invited speaker, Fifth Cary Conference: "Linking Species and Ecosystems," Institute of Ecosystem Studies, Millbrook, New York, 8-12 May.
1992-93	Steering Committee, Second International Conference/Workshop on Integrating GIS and Environmental Modeling, Breckenridge, Colorado, 26-30 September 1993.
1992	Workshop participant, "The Application of Spatially Explicit Models to Conservation and Management of Animal Populations," University of Georgia, Athens, 11-14 November
1992	Invited Participant, Ecological Society of America and Association of Ecosystem Research Centers, Workshop for the National Center for Ecological Synthesis and Analysis, Albuquerque, New Mexico, 24-28 October
1992	Keynote speaker, 7th Annual Landscape Ecology Symposium, Corvallis, Oregon, 7-11 April.
1990-1992	Committee on Federal Acquisition of Lands for Conservation, National Research Council, National Academy of Sciences

1990	Invited Participant, "Wetland and Riparian Ecotones in Landscape Dynamics: A Workshop on Applying Theory, Data, and Methods" (funded by MAB), Oak Ridge, Tennessee, 18-21 September.
1990	Organizer, Symposium on "Methodology in Landscape Ecology," V International Congress of Ecology, Yokohama, Japan. 23-30 August.
1990	Long-term Ecological Research (LTER) Panel, National Science Foundation
1989-04	Editorial Board, <i>Climate Research: Interactions of Climate with Organisms, Ecosystems and Man.</i>
1989-91	Member, Directorate for Temperate Ecosystems, US Man and the Biosphere Program
1989	National Science Foundation Site Review Team for the North Temperate Lake Long-Term Ecological Research (LTER) site, University of Wisconsin, Madison, 22-26 May.
1988	Invited participant, "Research priorities following the 1988 fires in Yellowstone National Park," Montana State University, Bozeman and University of Wyoming Research Station, Jackson, 14-19 October.
1988	Invited participant, "Women's Contributions to Future Directions of Ecosystem Sciences" workshop (funded by National Science Foundation), Colorado State University, Fort Collins, 11-14 October.
1988	Peer Review Board, EPA Program on Environmental Effects of Global Climate Change, Corvallis, Oregon, 20 April.
1987-89	Buell Award Judge, Ecological Society of America
1986	Invited participant, "Array and Parallel Processing in Landscape Dynamics" workshop on the use of supercomputers in landscape ecology. Colorado State University, Fort Collins, 14-20 September
1986	Convener, 1 st annual US Landscape Ecology Symposium on "The Role of Landscape Heterogeneity in the Spread of Disturbance." University of Georgia, Athens, 15-17 January.
1985	Invited participant, SCOPE/INTECOL/ICSU Workshop on "Spatial and Temporal Variability of Biospheric and Geospheric Processes." St. Petersburg, Florida, 28 October - 1 November.
1984	Coordinator, Selection of Coastal Biosphere Reserves in the Carolinian-South Atlantic Region, US Man and the Biosphere Programme. Cumberland Island, Georgia, 19-20 January.
1983	Member, Coordinating Committee, INTECOL conference on "The Application of Ecosystem Theory to Park Management." Callaway Gardens, Georgia, 16-18 November.

Teaching Experience – University of Wisconsin

Landscape Ecology (ZOO 665, co-taught with D. J. Mladenoff)

Spring 1996, 19 students

Spring 1998, 20 students

Principles of Landscape Ecology (ZOO 565, 1/3 lectures, course was led by D. J. Mladenoff)

Spring 1999, 37 students

Advanced Landscape Ecology (ZOO 879)

Spring 2000, 20 students
Spring 2002, 13 students
Spring 2004, 18 students
Spring 2006, 21 students
Spring 2008, 17 students
Spring 2010, 16 students
Spring 2012, 17 students
Spring 2014, 16 students

Introductory Biology (ZOO152), Ecology section (one-third of semester)

Also was co-chair of the entire course sequence (Zoology 151/152, two semesters, 10 credits, ~1000 students/semester, ~24-30 faculty/year, 5 course coordinators) for five years, 2001-2006.

Fall 1994, 120 students
Fall 1995, 190 students
Fall 1996, 190 students
Fall 1997, 190 students
Fall 1998, 150 students
Fall 1999, 170 students
Fall 2000, 190 students
Fall 2003, 200 students
Fall 2006, 150 students
Fall 2007, 160 students
Fall 2008, 180 students
Fall 2009, 330 students
Fall 2011, 330 students
Fall 2012, 360 students
Fall 2013, 360 students
Fall 2014, 450 students

General Ecology (ZOO 460, co-taught with T. Givnish)

Spring 1995, 125 students

Graduate Seminars (ZOO 956)

Spring 1997, 21 students: *Spatial Modeling* (1 credit)
Spring 2001, 24 students: *Modeling Interactions between Terrestrial and Aquatic Ecosystems I* (Turner, Foley, Carpenter, Stanley; 2 credits)
Fall 2001, 12 students: *Modeling Interactions between Terrestrial and Aquatic Ecosystems II* (Foley, Turner, Carpenter, Stanley; 2 credits)
Spring 2005, 12 students: *Foundations of Landscape Ecology* (1 credit)
Spring 2007, 20 students: *Landscape Disturbance and Biogeochemical Cycling* (1 credit)
Spring 2009, 30 students: *Ecosystem Services* (with Carpenter, Vander Zanden, others; 2 credits)
Spring 2013, 17 students: *Ecological Futures: Regional Scenarios and Models* (Turner and Carpenter; 2 credits)
Spring 2015, 16 students: *Integrating Biodiversity and Ecosystem Services* (1 credit)

Guest lectures offered in the following UW-Madison courses:

General Ecology, Extinction of Species, Conservation Biology, Environmental Monitoring Seminar, Chaos and Complex Systems Theory, IGERT seminar, Response to Global Warming, Introduction to Wisconsin Ecology

Teaching Experience – Other Institutions

Landscape Ecology, University of Tennessee (Ecology 510, co-taught with H. R. Delcourt).

Fall 1991, 14 students (2 credits)

Spring 1994, 10 students (3 credits)

Systems Analysis and Landscape Ecology, International Institute for Advanced Mediterranean

Agronomic Studies, Zaragoza, Spain. Graduate-level 3-week intensive course,

January 1989, 26 students, 60 contact hours.

General Ecology, University of Georgia (BIO 350; 5 credit hours).

1985-87, Independent Study Program, approximately 35 students. Included completely revising the course and workbook.

Vertebrate Zoology Lab (ZOO 226L), University of Georgia, TA.

1981, Winter quarter, 18 students

1982, Winter quarter, 10 students

1982, Fall quarter, 20 students

University Service

University of Tennessee

1992-1994 Admissions Committee, Graduate Program in Ecology

University of Wisconsin

Department of Zoology:

- 1998– Instructional Programs Committee, chair
- 1994-98 Instructional Programs Committee, member
- 1994-96 Co-chair, Department Colloquium weekly seminar series
- 1995-96 Chair, Graduate Student Awards Committee
- 1995-98 Co-chair (with A. W. Ives), Committee on Improving Instruction
- 1997-98 Honors and Rewards Committee
- 1998-00 Computer Committee, member
- 1999-00 Aquatic Ecologist Search Committee
- 2000-06 Biology Library Committee
- 2000-05 Mentoring committee for Emily Stanley
- 2001-06 Co-chair (with R. Goodman, then with Edgar Spalding) of Introductory Biology sequence (Zoology 151-152, with four year-long sections, 24 faculty, and ca. 800 students annually)
- 2001-06 Mentoring committee for Carol Lee
- 2002 Search committee for Department's Instructional Program Manager
- 2002-07 Mentoring committee for Jenny Boughman
- 2003-08 Mentoring committee for Lauren Riiters
- 2008-09 Aquatic Ecologist Search Committee
- 2008-09 Instructional Program Specialist Search Committee
- 2009-10 Terrestrial Ecologist Search Committee (chair)
- 2010-14 Mentoring Committee for Ellen Damschen
- 2011– Committee for exploring Botany-Zoology department integration

College of Letters and Sciences:
1995-00 Faculty Appeals Committee

Campus-wide:

- 1995-98 Madison Ecology Group (MEG-now Wisconsin Ecology), Activities Committee
1997-98 Chair, MEG Committee for Graduate Student Recruiting
1998-99 MEG, elected member at large
1999-00 MEG, Acting Chair
2000-01 MEG, Chair of Executive Committee
2001– Mentoring committee for Volker Radeloff (Forest Ecology & Management)
2002-03 Lead successful (but unfunded) cluster hire initiative for new faculty positions in the biology and management of invasive species
2001-05 Graduate School Research Committee, Biological Sciences (except 2002-03 sabbatical year)
2004-05 Member of the Institute for Cross-campus Biology Education (ICBE) Transition Advisory Committee
2006-07 Member, Committee on Remote Sensing and GIS Curricular Needs
2007-08 Member, Learning and Discovery Subcommittee of the 2008 Reaccreditation
2007-09 Wisconsin Ecology (formerly MEG), Chair-elect
2009-10 Wisconsin Ecology, Chair of Executive Committee
2009-10 Department of Entomology, CALS, External Review Committee (member)
2011– Mentoring Committee for Ben Zuckeberg, Forest and Wildlife Ecology

Graduate Students Trained

Completed:

- Daniel Rutledge MS, Ecology (University of Tennessee), 1993-95
Sarah E. Gergel MS (1994-96) and PhD (1996-2000), Zoology (EPA STAR Fellow)
Michael Stevens MS, Botany, 1995-98 (co-advisor)
Christopher Mitchell MS, Zoology, 1998-2000
Jill Schnaiberg MS, Institute for Environmental Studies, 1998-2000 (co-advisor)
Mark D. Dixon PhD, Zoology, 1996-2001 (WARF and EPA STAR Fellow)
Mark Wegener MS, Institute for Environmental Studies, 1998-2001 (co advisor)
Mark A. Smith PhD, Zoology and Wildlife Ecology, 1995-2002
Daniel M. Kashian PhD, Zoology and Forest Ecology & Management, 1998-2002
Tania Schoennagel PhD, Botany and Zoology, 1998-2002 (DOE Graduate Fellow)
James D. Forester MS (2000-02) and PhD (2002-2005), Zoology
Jennifer M. Fraterrigo PhD, Zoology, 2001-05 (DOE Graduate Fellow)
Katie I. Predick MS (2000-02) and PhD (2002-06), Zoology
Anna E. Marburg MS (2001-04) and PhD (2004-06), Zoology (WARF Fellow)
Alysa J. Remsburg MS (2002-05) and PhD (2005-07), Zoology (NSF Graduate Fellow)
Elizabeth A. Levitt MS, Zoology, 2004-2006
Thomas P. Albright PhD, Zoology, 2003-2007
Timothy R. Kuhman PhD, Zoology, 2005-2009
Martin Simard PhD, Zoology, 2005-2010 (NSERC Graduate Fellow)

Jacob M. Griffin	PhD, Zoology, 2006-2011
Heather A. Lumpkin	MS, Zoology, 2008-2011
Michelle M. Jackson	PhD, Zoology, 2008-2012
Brian J. Harvey	PhD, Zoology, 2010-2015

Current:

Jiangxiao Qiu	PhD, Zoology, 2011–
Rose Graves	PhD, Zoology, 2012–
Amy Uhrin	PhD, Zoology, 2012–
Winslow Hansen	PhD, Zoology, 2013– (NSF Graduate Fellow)
Catherine Frock	MS, Zoology, 2013– (NSF Graduate Fellow)
Carly Ziter	PhD, Zoology, 2014– (NSERC Graduate Fellow)

Undergraduate Thesis Advisees

Eleanor Erwin	Senior Honors Thesis, Biochemistry, 1998-99
Rebecca Nowak	Senior Honors Thesis, Zoology, 2000-01
Sarah Bassack	Senior Thesis, Zoology, 2003-04
Bridget Henning	Senior Honors Thesis, Zoology, 2005-06
Stephanie Hall	Senior Honors Thesis, Zoology, 2006-07
Aisha Ba	Hilldale Research recipient, 2015-16

Post-MS Research Associate

Timothy G. Whitby 2012-14

Postdoctoral Research Associates Advised and Current Professional Affiliation

Yegang Wu	1990-92	South Florida Water Management District
Scott M. Pearson	1991-93	Mars Hill College
Richard O. Flamm	1991-94	State of Florida DNR
William W. Hargrove	1991-94	USDA Forest Service
Kimberly O. With	1993-95	Kansas State University
Rebecca A. Reed	1996-98	Practicing attorney
Daniel B. Tinker	1999-00	University of Wyoming
Joan Riera	1998-01	University of Barcelona
Matthias Bürgi	1999-00	Swiss Federal Research Institute
James R. Miller	1999-02	University of Illinois, Champaign-Urbana
Kristine L. Metzger	2001-05	University of British Columbia
Jeffrey A. Cardille	2002-05	McGill University
Dean P. Anderson	2001-06	LandCare, New Zealand
Erica A.H. Smithwick	2001-07	Pennsylvania State University
Ishi Buffam	2007-10	University of Cincinnati
Tammy L. Wilson	2010-11	US National Park Service, Alaska
Daniel C. Donato	2010-12	State of Washington Dept. Natural Resources
Peter J. Blank	2012-14	American Bird Conservancy
Kevin C. Rose	2014–	

Professional Presentations (first authored only)

- Goigel, M. M. 1982. Impact of feral donkeys on the vegetation of St. John. Colloquium on Long-term Ecological Research in the Virgin Islands, Maho Bay, St. John, 27 July.
- Turner, M. G. 1985. Effects of feral horse grazing, clipping, trampling and a late winter burn on a salt marsh, Cumberland Island National Seashore, Georgia. Annual Meeting of the Ecological Society of America, University of Minnesota, Minneapolis, 16-20 June.
- Turner, M. G. 1985. Simulation model of a salt marsh, Cumberland Island, Georgia. Biennial Meeting, Estuarine Research Federation, University of New Hampshire, Durham, 29 July - 2 August.
- Turner, M. G. and S. P. Bratton. 1986. Fire, grazing and the landscape heterogeneity of a Georgia barrier island. Landscape Ecology Symposium, University of Georgia, Athens, 15-17 January.
- Turner, M. G. 1986. Effects of multiple disturbances on barrier island salt marshes. Symposium on Barrier Islands of the Southeastern United States, Southeastern Chapter of the Ecological Society of America, University of South Carolina, Columbia, 11 April. (Invited.)
- Turner, M. G. 1986. Ecological effects of multiple disturbances on a salt marsh, Cumberland Island National Seashore. Wetlands Session, Conference on Science in the National Parks, Colorado State University, Fort Collins, 14-20 July. (Invited.)
- Turner, M. G. 1986. Land use changes and net primary production in the Georgia landscape. Annual meeting, Ecological Society of America, Syracuse University, Syracuse, 11-16 August.
- Turner, M. G. 1986. Analysis and simulation of land use patterns in Georgia. Oak Ridge National Laboratory, Oak Ridge, Tennessee, 20 November. (Invited.)
- Turner, M. G. 1987. Changing land use patterns in Georgia: analysis and simulation. Geography Colloquium, University of Georgia, Athens, 11 February. (Invited.)
- Turner, M. G. 1987. A spatial simulation model of land use patterns in Georgia. Second Annual Landscape Ecology Symposium, University of Virginia, Charlottesville, 9-11 March.
- Turner, M. G. 1987. A spatial simulation model of landscape change in Georgia. College of Environmental Sciences and Forestry, SUNY-Syracuse, Syracuse, New York, April. (Invited.)
- Turner, M. G. 1987. Disturbance and landscape heterogeneity on a Georgia barrier island. Annual meeting, American Association of Geographers, Portland, Oregon, 23-26 April. (Invited.)

- Turner, M. G. 1987. Analysis and simulation of changing land use patterns in Georgia. Second International Seminar, International Association for Landscape Ecology, Munster, West Germany, 19-24.
- Turner, M. G. and E. P. Odum. 1987. Integration of landscape ecological theory and applications: a study of the state of Georgia, USA. Second International Seminar, International Association for Landscape Ecology, Munster, West Germany, 19-24 July.
- Turner, M. G. 1987. Analysis and simulation of landscape change in Georgia. Symposium on Changing Patterns in Landscapes. Annual meeting, Ecological Society of America, University of Ohio, Columbus, 9-13 August. (Invited.)
- Turner, M. G. 1988. Confronting spatial heterogeneity in ecosystem analysis. University of Maryland, Chesapeake Biological Laboratory, Solomons, Maryland, 13 February. (Invited.)
- Turner, M. G., R. V. O'Neill, R. H. Gardner and B. T. Milne. 1988. The effect of spatial scale on the analysis of landscape pattern. Third Annual Landscape Ecology Symposium, University of New Mexico, Albuquerque, 16-19 March.
- Turner, M. G. 1988. Analyzing landscape data and extrapolating across spatial scales. Symposium on Spatial and Temporal Analysis Using Geographic Information Systems. Annual meeting, Ecological Society of America, University of California at Davis, 14-18 August. (Invited.)
- Turner, M. G., R. H. Gardner, V. H. Dale and R. V. O'Neill. 1988. Landscape pattern and the spread of disturbance. VIIIth International Symposium on Problems of Landscape Ecological Research, Bratislava, Czechoslovakia, 3-7 October.
- Turner, M. G. 1989. Confronting spatial heterogeneity in ecological analyses. Zoology Department Colloquium, University of Wisconsin, Madison. 23-26 February. (Invited.)
- Turner, M. G., R. H. Gardner, V. H. Dale, and R. V. O'Neill. 1989. The effect of landscape structure on the spread of disturbance. Fourth Annual Landscape Ecology Symposium, Colorado State University, Fort Collins. 15-18 March.
- Turner, M. G. 1989. Pattern, process, and scale in landscape ecology. Zoology Department Seminar, University of Wyoming, Laramie. 21 March. (Invited.)
- Turner, M. G. 1989. Potential responses of landscape boundaries to global environmental change. Symposium on The Role of Landscape Boundaries in the Management and Restoration of Changing Environments, Annual meeting, Ecological Society of America, Toronto. August. (Invited.)

- Turner, M. G., R. H. Gardner and R. V. O'Neill. 1989. Potential responses of landscape structure to global climate change. First European Symposium on Landscape Ecological Impacts of Climate Change, Lunteren, The Netherlands. 2-8 December.
- Turner, M. G. 1990. Interactions between landscape pattern and ecological processes. Biology Department Seminar, University of Notre Dame, South Bend, Indiana. 6-7 February. (Invited.)
- Turner, M. G. 1990. Interactions between landscape pattern and ecological processes. Elroy Rice Lecture, Department of Botany and Microbiology, University of Oklahoma, Norman 26-27 February. (Invited.)
- Turner, M. G., W. H. Romme and R. H. Gardner. 1990. Spatial heterogeneity of burn severity and first-year plant responses to fire on subalpine plateaus in Yellowstone National Park. Fifth Annual Landscape Ecology Symposium, University of Miami, Oxford, Ohio. 21-24 March.
- Turner, M. G. 1990. Influence of fire size and heterogeneity on ecological processes in Yellowstone National Park. University of Wyoming-National Park Service Research Center, Moran, Wyoming. July 26. (Invited).
- Turner, M. G., W. H. Romme and L. L. Wallace. 1990. Simulated winter foraging by large ungulates in a heterogeneous landscape. Annual Meeting of the Ecological Society of America, Snowbird, Utah. 29 July - 3 August.
- Turner, M. G., R. H. Gardner and R. V. O'Neill. 1990. The effects of landscape pattern on ecological processes: theory and testing. Symposium: Methodology in Landscape Ecology, V International Congress of Ecology, Yokohama, Japan. 23-30 August. (Invited).
- Turner, M. G. 1990. Effects of landscape patterns on ecological processes. Ecosystem Seminar Series, College of Forest Resources, University of Washington, Seattle. 10 October. (Invited).
- Turner, M. G. 1990. Confronting spatial heterogeneity in ecological analyses. Botany Department Seminar, University of Tennessee, Knoxville. 24 October. (Invited).
- Turner, M. G., W. H. Romme and R. H. Gardner. 1991. Landscape disturbance models and the long-term dynamics of natural areas. Symposium: Application of Ecological Models to Natural Area Preserve Design and Management. Annual Meeting of the Ecological Society of America, San Antonio, Texas. 4-8 August. (Invited).
- Turner, M. G., R. O. Flamm, R. Gottfried, R. G. Lee, R. J. Naiman and D. Wear. 1991. Integrating socioeconomic and ecological processes to simulate land use change. Southern Appalachian Man and the Biosphere Conference, Gatlinburg, TN. 4-5 November.

- Turner, M. G., W. H. Romme, L. L. Wallace, Y. Wu and S. Pearson. 1992. Interactions among ungulates, vegetation and large-scale fire in northern Yellowstone National Park. Plenary Address, 7th Annual U. S. Landscape Ecology Symposium, Corvallis, Oregon. April. (Invited).
- Turner, M. G. 1992. Interactions among ungulates, vegetation and large-scale fire during winter in northern Yellowstone National Park. Summer Seminar Series, University of Wyoming-National Park Service Research Center, August. (Invited).
- Turner, M. G., R. O. Flamm, R. G. Lee, R. J. Naiman, D. N. Wear, R. Gottfried, N. Schumaker and C. D. Ferrari. 1992. Dynamics and sustainability of forested landscapes in the Southern Appalachians and Olympic Peninsula. Second Annual Southern Appalachian Man and the Biosphere (SAMAB) Conference, Gatlinburg, TN, 9-10 November.
- Turner, M. G. and S. M. Pearson. 1992. Simulating interactions among ungulates, vegetation and large-scale fire in northern Yellowstone National Park during winter. Invited address, workshop on "The Application of Spatially-explicit Models to Conservation and Management of Animal Populations," University of Georgia, Athens, 11-14 November. (Invited).
- Turner, M. G. 1993. When is fire scale important in Yellowstone National Park? Ecology Seminar Series, Utah State University, Logan, 17 February. (Invited).
- Turner, M. G. 1993. Pattern, process and theory in landscape ecology. Ecology Seminar Series, Utah State University, Logan, 17 February. (Invited).
- Turner, M. G., W. H. Romme, R. H. Gardner and W. W. Hargrove. 1993. Spatial heterogeneity in plant reestablishment following large-scale fire in Yellowstone National Park, Wyoming. 8th Annual Landscape Ecology Symposium, Oak Ridge, Tennessee, 24-27 March.
- Turner, M. G. and R. V. O'Neill. 1993. Exploring aggregation in space and time. Fifth Cary Conference: Linking Species and Ecosystems, Institute for Ecosystem Studies, Millbrook, New York, May 8-11. (Invited).
- Turner, M. G., R. O. Flamm, D. N. Wear and R. J. Naiman. 1993. Simulating change in forested landscapes by integrating socioeconomic and environmental factors. Symposium on Humans as Components of Ecosystems, Annual Meeting of the Ecological Society of America, University of Wisconsin-Madison, July 31-August 4. (Invited).
- Turner, M. G. 1993. Landscape-level consequences of the 1988 fires: are big fires qualitatively different? Keynote Address, Symposium on The Role of Fire in the Greater Yellowstone Area, Yellowstone National Park, September 19-21. (Invited).
- Turner, M. G. 1993. Scaling issues and global change. Symposium, Association of Ecosystem Research Centers. Washington, D. C., November 1. (Invited).

- Turner, M. G., S. M. Pearson and R. O. Flamm. 1993. Multidisciplinary modeling as a planning tool for the Little Tennessee River Watershed. Conference on the Little Tennessee River, Franklin, North Carolina, November 4.
- Turner, M. G. 1994. Ecological effects of the 1988 Yellowstone fires: are large fires qualitatively different? ORNL Showcase Lecture, January 14.
- Turner, M. G. 1994. Causes and consequences of fire-induced heterogeneity on the subalpine plateau of Yellowstone National Park. Distinguished Ecologist Lecture Series, Colorado State University, Fort Collins, February 8. (Invited).
- Turner, M. G. 1994. Interactions among ungulates, vegetation and large-scale fire in northern Yellowstone National Park. Distinguished Ecologist Lecture Series, Colorado State University, Fort Collins, February 9. (Invited).
- Turner, M. G. 1994. Integrating socioeconomic and environmental factors to predict landscape change: a comparative study of the Southern Appalachians and Olympic Peninsula. Distinguished Ecologist Lecture Series, Colorado State University, Fort Collins, February 10. (Invited).
- Turner, M. G., W. H. Romme, R. H. Gardner and W. W. Hargrove. 1994. Effects of fire size and heterogeneity on early succession in Yellowstone National Park. 9th Annual Landscape Ecology Symposium, Tucson, AZ, March 23-26.
- Turner, M. G. 1994. Land ownership and land cover change. US Man and the Biosphere Program, National Committee Meeting, Smithsonian Institution, Washington DC, July 28.
- Turner, M. G., R. H. Gardner and R. V. O'Neill. 1994. Ecological dynamics at broad scales: ecosystems and landscapes. Plenary Address, Symposium on Science and Public Policy, American Institute for Biological Sciences, Knoxville, Tennessee. (Invited).
- Turner, M. G., W. H. Romme, R. H. Gardner and W. W. Hargrove. 1994. Influence of patch size and shape on post-fire succession on the Yellowstone plateau. Annual Meeting of the Ecological Society of America, University of Tennessee-Knoxville, August 7-11.
- Turner, M. G. 1994. Conservation of biodiversity and landscape dynamics. National Biological Service, Washington, DC, December. (Invited).
- Turner, M. G. 1995. Effects of landscape heterogeneity on ecological processes: scale-dependent surprises from post-fire studies in Yellowstone National Park, Wyoming. Introductory Keynote Address, Congress of the International Association for Landscape Ecology, Toulouse, France, 27-31 August. (Invited).

- Turner, M. G. 1995. Landscape heterogeneity and ungulate dynamics: what spatial scales are important? Symposium on Managing Ungulates as Components of Ecosystems, The Wildlife Society Second Annual Conference, Portland, Oregon, 12-17 September. (Invited).
- Turner, M. G. 1995. Yellowstone National Park: A case study in landscape ecology. University of Tennessee-Knoxville, 16 November. (Invited).
- Turner, M. G. 1995. Surprises from postfire studies in Yellowstone National Park. University of Wisconsin-Stevens Point, 29 November. (Invited).
- Turner, M. G., S. M. Pearson, and D. L. Urban. 1996. Effective exercises for teaching landscape ecology. Eleventh Annual Landscape Ecology Symposium, Galveston, Texas, 27-30 March 1996. (Invited).
- Turner, M. G., W. H. Romme, R. A. Reed, and R. H. Gardner. 1997. Why is succession so variable across the Yellowstone landscape? Annual Meeting of the Ecological Society of America, Albuquerque, New Mexico, August 10-14.
- Turner, M. G. 1997. Concepts of scale in landscape ecology. Workshop on landscape ecology, Midwest Fish and Wildlife Symposium, Milwaukee, Wisconsin, 7 December. (Invited).
- Turner, M. G. 1997. Quantifying spatial pattern. Workshop on landscape ecology, Midwest Fish and Wildlife Symposium, Milwaukee, Wisconsin, 7 December. (Invited).
- Turner, M. G., S. M. Pearson, and P. Bolstad. 1998. Consequences of land use change for forests of the Southern Appalachians. Symposium on ecological effects of land use change in eastern North America. Annual meeting of the American Association for the Advancement of Science, Philadelphia, Pennsylvania, 17 February. (Invited).
- Turner, M. G. 1998. Bridging the gap between landscape ecology and natural resource management--moderator. Annual Landscape Ecology Symposium, Michigan State University, 17-21 March. (Invited)
- Turner, M. G., R. A. Reed, and W. H. Romme. 1998. Implications of the spatial variability in postfire succession for nitrogen dynamics across the Yellowstone landscape. Annual Landscape Ecology Symposium, Michigan State University, 17-21 March.
- Turner, M. G., W. H. Romme, R. A. Reed and R. H. Gardner. 1998. Causes and consequences of spatial variability in postfire succession across the Yellowstone landscape. Symposium, "After the fires: the ecology of change in Yellowstone National Park." 125th Anniversary Conference for Yellowstone National Park. Montana State University, Bozeman, Montana, May 19-21. (Invited).

- Turner, M. G. 1998. Postfire succession and ecosystem function in the Yellowstone landscape: a study of pattern and process. Graduate Students' Invited Lecture, University of Georgia, Athens, June 4.
- Turner, M. G. 1999. Consequences of land-use change for Southern Appalachian forests. Appalachian Laboratory, University of Maryland, April 21. (Invited).
- Turner, M. G., W. H. Romme, D. B. Tinker, and D. B. Kashian. 1999. Ecosystem responses to postfire landscape heterogeneity in Yellowstone National Park. Symposium, The ecological consequences of spatial pattern: an integration of approaches from spatial and landscape ecology. International Congress of Landscape Ecology, Snowmass, Colorado, July 29-August 2. (Invited).
- Turner, M. G., W. H. Romme and G. A. Tuskan. 1999. Are postfire aspen seedlings likely to persist in the Yellowstone landscape? Annual Meeting, Ecological Society of America. August 6-12, Spokane, Washington.
- Turner, M. G. 2000. Ecological indicators for large river-floodplain landscapes. EPA STAR progress review meeting, May 8-10, Las Vegas, Nevada. (Invited).
- Turner, M. G., W. H. Romme, D. B. Tinker, D. M. Kashian and D. H. Knight. 2000. Effects of a fire-created landscape mosaic on ecosystem processes in Yellowstone National Park, Wyoming. Symposium: Integrating ecosystem and landscape ecology: spatial heterogeneity in ecosystem processes. Annual Meeting, Ecological Society of America, Snowbird, Utah, August 5-10. (Invited).
- Turner, M. G. 2000. Ecosystem ecology: where has it been, and where is it going? Invited seminar, University of Georgia, Athens, Georgia, 26 October. (Invited)
- Turner, M. G., J. M. Miller and M. Burgi. 2001. Influences of scale on understanding landscape legacies. Landscape Legacies Conference, Duke University, 8-10 January. (Invited).
- Turner, M. G. 2001. Burning questions: how do large infrequent fires affect vegetation and ecosystem processes in the Yellowstone landscape? State University of New York-Stony Brook, 11 April. (Invited.)
- Turner, M. G. 2001. Use of models for prediction and synthesis. Cary Conference, Institute for Ecosystem Studies, Milbrook, New York. May 1-3. (Invited).
- Turner, M. G. and W. H. Romme. 2001. Designing basic research in national parks: landscape processes in Yellowstone National Park. Symposium: Science in National Parks: Basic Research and Application. Annual Meeting, Ecological Society of America, Madison, Wisconsin, August 6-10. (Invited).

- Turner, M. G. 2001. Disturbance, spatial heterogeneity and ecosystem function: postfire patterns in Yellowstone National Park. Institute of Ecosystem Studies, Millbrook, NY, 14 November. (Invited).
- Turner, M. G., S. E. Gergel, M. D. Dixon, and J. R. Miller. 2002. Effects of river flow and land-cover change on floodplain forests of the Wisconsin River. US-IALE Annual Meeting, University of Nebraska, Lincoln, April 24-26.
- Turner, M. G., W. H. Romme and D. B. Tinker. 2002. Landscape patterns, vegetation, and ecosystem processes following stand-replacing fire in Yellowstone National Park. International Workshop on Disturbance in the Boreal Forest, University of Northern British Columbia, Prince George, BC, Canada, August 10-15. (Invited keynote address).
- Turner, M. G. 2002. Landscape pattern, ecological processes, and critical thresholds. Workshop sponsored by EPA on Ecological Thresholds, Woodrow Wilson Center for Scholars, Washington, DC, November 4-5. (Invited).
- Turner, M. G. and F. S. Chapin, III. 2003. Causes and consequences of spatial heterogeneity in ecosystem function. Tenth Cary Conference, April 29-May 2. (Invited).
- Turner, M. G. 2003. Spatial heterogeneity and ecosystem processes. International Association for Landscape Ecology World Congress, Darwin, Australia, July 13-18. (Invited).
- Turner, M. G. 2004. Fire ecology in the Western US: Lessons from the 1988 Yellowstone fires. USDA Forest Service, Forest Products Laboratory, Madison, Wisconsin. 16 June. (Invited).
- Turner, M. G., K. L. Metzger, W. H. Romme, E. A. H. Smithwick, D. B. Tinker and J. Zhu. 2004. Spatial and temporal variation in net nitrogen mineralization following stand-replacing fire in the Greater Yellowstone Ecosystem. Annual Meeting of the Ecological Society of America, Portland, Oregon, August 1-6.
- Turner, M. G., E. H. Stanley, M. Burgi and D. J. Mladenoff. 2004. Changes in the Wisconsin River and its floodplain. Symposium, The Vanishing Present: Ecological Change in Wisconsin, Madison, Wisconsin, October 7-8. (Invited).
- Turner, M. G. 2005. Causes and consequences of post-fire heterogeneity in the Yellowstone landscape. Iowa State University, Ames, Iowa, February 5. (Invited).
- Turner, M. G. 2005. Disturbance, spatial heterogeneity and ecosystem function: effects of fire in Yellowstone National Park. Umeå University, Umeå, Sweden, March 16-18 (Invited).
- Turner, M. G. 2005. Landscape dynamics in floodplain forests of the Wisconsin River. Umeå University, Umeå, Sweden, March 16-18 (Invited).

- Turner, M. G. 2005. Landscape ecology: where has it been, and where is it going? Umeå University, Umeå, Sweden, March 16-18 (Invited).
- Turner, M. G., W. H. Romme, D. B. Tinker, E. A. H. Smithwick, K. L. Metzger and J. Zhu. 2005. Disturbance, spatial variability and cross-scale interactions in the post-fire Yellowstone landscape. Symposium on Spatial nonlinearities and cross-scale interactions: cascading effects in the Earth system. Annual Meeting of the Ecological Society of America, Montreal, Canada, August 7-12. (Invited).
- Turner, M. G. 2005. Linking time and space: ecological legacies of land use and natural disturbance. Keynote address at the annual meeting of the German, Austrian and Swiss Ecological Society, Regensburg, Germany, September 19-23. (Invited).
- Turner, Monica G. 2005. Fire in the Yellowstone landscape: lessons and surprises. Keynote address at the 8th conference on science in Yellowstone National Park, Mammoth Hot Springs, Yellowstone, October 17-19. (Invited).
- Turner, M. G. 2006. Disturbance, heterogeneity and ecosystem function: lessons from the 1988 Yellowstone Fires. Henry Oosting Lecture, Botany Department, Duke University, April 5-8. (Invited).
- Turner, M. G. 2006. Fire in Yellowstone: lessons and surprises. Glacier National Park Research Learning Center, West Glacier, Montana, June 27. (Invited).
- Turner, M. G. 2006. Surprises and lessons from the 1988 Yellowstone fires. Zoology Department Colloquium, University of Wisconsin, 6 October.
- Turner, M. G. 2007. Spatial pattern and temporal dynamics: the importance of heterogeneity for regulating ecosystems and maintaining ecosystem services. Symposium on Ecological foundations of sustainability in a constantly changing world. Annual Meeting of the Ecological Society of America, San Jose, California, August 5-10 (Invited).
- Turner, M. G. 2007. Disturbance, heterogeneity and ecosystem function: insights from the 1988 Yellowstone fires. Distinguished ecologists lecture series, University of Wyoming, Laramie. September 26. (Invited).
- Turner, M. G. 2007. Linking space and time: legacies of disturbance and land use. Distinguished ecologists lecture series, University of Wyoming, Laramie. September 27. (Invited).
- Turner, M. G. 2008. Ecological effects of the '88 fires: a story of surprise, constancy and change. Plenary address, "The '88 fires: Yellowstone and beyond," Joint conference of the International Association for Wildland Fire and Yellowstone National Park, September 22-27, Jackson Hole, Wyoming. (Invited).
- Turner, M. G. 2008. Ecological dynamics in heterogeneous landscapes. ECI Prize Lecture, Ecology Institute, Oldendorf, Germany. (Invited).

- Turner, M. G. 2009. Disturbance and landscape dynamics in a changing world. MacArthur Address, Annual Meeting of the Ecological Society of America, Albuquerque, NM, August 2-6. (Invited).
- Turner, M. G. 2009. Fire, vegetation and nitrogen dynamics in the Yellowstone landscape. Ecology Seminar Series, University of Minnesota, Minneapolis-St. Paul, October 21. (Invited).
- Turner, M. G. 2010. Twenty-five years of US landscape ecology: looking back and forging ahead. Plenary Address, US-IALE annual meeting, Athens, Georgia, April 5-8. (Invited).
- Turner, M. G. 2010. US-IALE then (1994-96) and now: things change and remain the same. Past-presidents symposium, US-IALE annual meeting, Athens, Georgia, April 5-8. (Invited).
- Turner, M. G. 2010. Climate change, disturbance and the future of northern forest landscapes. Keynote address, IUFRO International Landscape Ecology Conference, Braganca, Portugal, September 21-27. (Invited)
- Turner, M. G. 2010. Landscape heterogeneity, disturbance and ecosystem function. Marine Biological Laboratory, Woods Hole, MA, November 5. (Invited)
- Turner, M. G. 2011. Disturbance, landscape dynamics and climate change in Greater Yellowstone. Tester Symposium, University of Hawaii at Manoa, March 16. (Invited)
- Turner, M. G. 2011. Lessons from landscape ecology for sustainability science. Tester Symposium, University of Hawaii at Manoa, March 18. (Invited)
- Turner, M. G. W. H. Romme, E. A. H. Smithwick, D. B. Tinker and J. Zhu. 2011. Within-stand variation in aboveground cover and nitrogen availability following stand-replacing fire in forests of greater Yellowstone. US-IALE annual landscape ecology symposium, Portland, OR, April 4-7.
- Turner, M. G. 2011. Spatial ecological modeling at regional scales: challenges and opportunities. UFZ Roundtable, Challenges to ecological theory and modeling in a changing world, Liebenberg, Germany, October 10-14.
- Turner, M. G. 2011. Disturbance dynamics, landscape patterns and climate change in Greater Yellowstone. EEB Seminar Series, University of Illinois, Champaign-Urbana, Nov 9.
- Turner, M. G., D. C. Donato, W. H. Romme and D. B. Tinker. 2012. Warmer climate and increased fire frequency in Greater Yellowstone: Does field evidence suggest that forest resilience could change? Annual Meeting of the Ecological Society of America, Portland, OR, August 6-10.

- Turner, M. G. 2012. Climate change may produce novel climate-fire relationships in Greater Yellowstone during the 21st century. 5th International Congress on Fire Ecology and Management, Associate for Fire Ecology, Portland, OR, December 3-7.
- Turner, M. G. 2013. Natural disturbances: Lessons from Yellowstone. Natural Disturbance Conference, Bavarian Forest National Park, Germany, 29 April – 3 May. (Invited keynote speaker).
- Turner, M. G. 2013. Climate, fire and vegetation in Yellowstone National Park. US National Park Service monthly webinar series (Fire Series II: Changing fire regimes, management, and people in the Sierras and Yellowstone National Park.) Delivered service-wide from Grand Teton National Park, July 11.
- Turner, M. G. 2013. Landscape patterns of early postfire lodgepole pine regeneration dominate stand structure and function 24 years after the 1988 Yellowstone Fires. (Poster) Annual Meeting of the Ecological Society of America, Minneapolis, MN, August 4-9.
- Turner, M. G. 2013. Landscape in transition? Climate change, fire, and vegetation in Greater Yellowstone. Departmental Colloquium, Forest and Wildlife Ecology, UW-Madison, September 20.
- Turner, M. G. and J. F. Johnstone. 2014. Changing climate and novel fire regimes alter tree recruitment and postfire succession in northern conifer forests. Invited for Organized Oral Session, Annual Meeting of the Ecological Society of America, Sacramento, CA, August 10-15.
- Turner, M. G. 2014. Fires and beetles and climate, oh my! Science, management and conservation in Yellowstone. A. Starker Leopold Lecture (Invited), 12th Biennial Scientific Conferences on the Greater Yellowstone Ecosystem. 6-8 October 2014.
- Turner, M. G. 2015. Landscape in transition? Climate change and disturbance regimes in Yellowstone. Storer Life Sciences Endowment Speaker in “Major Issues in Modern Biology.” University of California-Davis. 25 February. (Invited)
- Turner, M. G. 2015. Climate change and novel disturbance regimes in national park landscapes. Plenary speaker, National Park Service Centennial Summit: Science for Parks, Parks for Science. University of California-Berkeley, 25-27 March. (Invited).
- Turner, M. G. 2015. Heterogeneity, scale and landscapes: Homage to a creative thinker. Symposium in honor of John Wiens. International Association for Landscape Ecology, World Congress, Portland, OR, July 6-10. (Invited)
- Turner, M. G., R. A. Graves, J. Qiu and C. Ziter. 2015. Sustaining multiple ecosystem services and biodiversity: lessons from landscape ecology. International Association for Landscape Ecology, World Congress, Portland, OR, July 6-10. (Symposium, invited).

Turner, M. G. 2015. Much ado about landscapes. Ignite session on future directions in ecology. Annual Meeting of the Ecological Society of America, Baltimore, MD, August (Invited).

Publications

Books

1. **Turner, M. G.**, editor. 1987. Landscape heterogeneity and disturbance. Springer-Verlag, New York.
2. **Turner, M. G.** and R. H. Gardner, editors. 1991. Quantitative methods in landscape ecology. Springer-Verlag, New York.
3. **Turner, M. G.**, R. H. Gardner and R. V. O'Neill. 2001. Landscape ecology in theory and practice. Springer-Verlag, New York. [Japanese translation published in 2004, Korean translation published in 2007.]
4. Gergel, S. E. and **M. G. Turner**, editors. 2002. Learning landscape ecology: a practical guide to concepts and techniques. Springer-Verlag, New York. [Korean translation published in 2007.] *2nd edition forthcoming.
5. Lovett, G. M., C. G. Jones, **M. G. Turner** and K. C. Weathers, editors. 2005. Ecosystem function in heterogeneous landscapes. Springer-Verlag, New York.
6. Wiens, J. A., M. R. Moss, **M. G. Turner** and D. J. Mladenoff, editors. 2007. Foundation papers in landscape ecology. Columbia University Press, New York.
7. **Turner, M. G.** and R. H. Gardner. 2015. Landscape ecology in theory and practice, 2nd edition. Springer, New York. (In press).

Journal Articles and Peer-reviewed Book Chapters

Citation statistics (April 2015): Average citations per item = 73.5; h-index = 60

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