#### MONICA G. TURNER

# Eugene P. Odum Professor of Ecology and Vilas Research Professor

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#### **Academic Record**

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

# **Experience**

1999–	Professor, Department of Integrative Biology (formerly 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, Old Faithful, 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 climate and land-use change; landscape ecology; forest ecosystem ecology; ecosystem services; ecological modeling.

#### **Honors and Awards**

2023	Elected to the American Academy of Arts and Sciences
2023	Awarded Honorary Membership in the British Ecological Society
2021	Highly Cited Researcher (cross-field), Institute for Scientific Information, Clarivate
2021	Benjamin Franklin Medal in Earth and Environmental Sciences, The Franklin Institute
2021	Named a Fellow of the American Association for the Advancement of Science (AAAS)
2020	Eminent Ecologist Award, Ecological Society of America
2018	Highly Cited Researcher (cross-field), Institute for Scientific Information, Clarivate

2018	Hood Fellowship, University of Auckland (for spring 2019 sabbatical, ~\$12,000 NZD))		
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 US 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,		
1000	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		
1005	Energy, Office of Health and Environmental Research		
1985	Phi Kappa Phi National Honor Society		
1984-85	University of Georgia Graduate School Merit Assistantship Supplement		
1000 02	(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		
17/0-00	110W 10IR State Regents Sentitationip		

#### **Professional Societies and Offices Held**

Ecological Society of America (ESA), member since 1982

Executive Director Search Committee, 2017-18

Past president, 2016-17

President, 2015-16

President elect, 2014-15

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 (for four annual conferences)

Local meeting host, 1986, Athens, GA (1st annual conference)

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

#### **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 (Coweeta) 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. Kloeppel 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. "Fire, bark beetles and salvage logging in the Greater Yellowstone Ecosystem." (M. G. 2007-2010 Turner, K. F. Raffa, J. A. Griffin, M. Simard). USDA Forest Service, Western Wildland Environmental Threats Assessment Center, \$100,000. "LTER: Comparative study of a suite of lakes in Wisconsin." Renewal of North 2008-2014 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. "Paths of recovery: landscape variability in forest structure, function and fuels 25 years 2011-2014 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. 2016 "Dissertation research: Origins of alternate ecosystem states? Effects of 21st-century drought on postfire tree regeneration and shifting dominance of western conifers" (M. G. Turner and W. D. Hansen). Doctoral Dissertation Improvement Grant, National Science Foundation, \$19,890. 2016-2018 "Anticipating abrupt ecological change in the 21st century" (M. G. Turner, S. R. Carpenter, A. R. Ives, C. J. Kucharik, and J. W. Williams). UW2020: WARF Discovery Initiative, UW-Madison Office of the Vice Chancellor, \$334,530. 2016-2020 "What makes for a resilient landscape? Climate, fire and forests in the Northern Rockies" (M. G. Turner, D. C. Donato, A. Rissman, R. Seidl, and A. L. Westerling) Joint Fire Science Program, \$418,249. 2016-2017 "Shifting baselines: the changing role of smaller stand-replacing fires in high-elevation and high-latitude conifer forests." (M. G. Turner and W. D. Hansen). Award from the University of Alaska, \$12,901. "RAPID: The 2016 Yellowstone Fires: Early indicators of ecosystem transitions in a 2017-2018 more fiery future?" (M. G. Turner and B. J. Harvey). National Science Foundation, Ecosystem Studies Program. \$199,092 total, \$148,986 to UW-Madison. "Suppression under average burning conditions in high-elevation and high-latitude 2017-2018 conifer forests: impacts on subsequent fires and forest structure" (M. G. Turner and W. D. Hansen, student PI). US National Park Service 2017 Reserve Fund Research, \$19,066. 2017-2018 Field experiment equipment award (M. G. Turner). UW-Madison Vilas Trust, \$18,600 (direct costs). Supplemental award for postdoctoral support (M. G. Turner). UW-Madison Vilas Trust, 2018-2019 \$24,000 (direct costs). 2018-2020 "Testing LiDAR for mapping canopy and surface fuels in Grand Teton National Park" (M. G. Turner and K. H. Braziunas, student investigator). US National Park Service 2018 Reserve Fund Research, \$56,339.

2019-2021 "Drivers of early postfire tree regeneration and indicators of forest resilience in national parks of the northern Rocky Mountains" (M. G. Turner and T. J. Hoecker, student PI). US National Park Service 2019 Reserve Fund Research, \$69,716. 2019-2023 "Camp Monaco Prize 2019: Anticipating and envisioning future landscapes of Greater Yellowstone." (M. G. Turner). Draper Museum of Natural History, Cody, Wyoming, and Prince Albert II of Monaco Foundation, \$100,000. 2019-2024 "INFEWS/T1: Sustaining food, energy, and water secuirity in agricultural landscapes of the Upper Mississippi River Basin." (C. J. Kucharik, S. C. Loheide, A. M. Rissman, and M. G. Turner.) National Science Foundation, Innovations in Food, Energy and Water Systems, \$2,499,683. "Less fuel for the fire: How will drought amplify effects of short-interval fire?" (M. G. 2020-2021 Turner and K. H. Braziunas, student investigator). Graduate Research Innovation (GRIN) award for KHB, Joint Fire Science Program, \$24,953. 2020-2026 "Collaborative research-Nitrogen recovery in postfire lodgepole pine forests: cryptic sources uncertain futures." (M. G. Turner and C. C. Cleveland, University of Montana). National Science Foundation, Ecosystem Studies Program, \$1,273,210 total (\$806,831 to UW-Madison, \$466,379 to UM.) 2020-2026 "LTER: Collaborative study of a suite of lakes in Wisconsin." (Stanley, E. H., C. Gries, P. C. Hanson, S. P. Loheide, M. G. Turner, with additional co-investigators). National Science Foundation LTER Program, \$7,680,000. 2021-2022 Supplemental award for infrastructure and field support (M. G. Turner). UW-Madison Vilas Trust, \$46,215 (direct costs). Supplemental award for field support (M. G. Turner). UW-Madison Vilas Trust, \$29,657 2022-2023 (direct costs) "Consequences of postfire forest conversion and benefits of managing for fire refugia in 2022-2025 Greater Yellowstone" US National Park Service 2022 Reserve Fund Research, \$74,670. 2023-2024 Supplemental award for field support (M. G. Turner). UW-Madison Vilas Trust, \$19,691 (direct costs) 2023-2025 "Fire and forest recovery in rugged terrain: Does topographic complexity enhance forest resilience?" (M. G. Turner and T. T. Keller, student investigator). Graduate Research Innovation (GRIN) award for TTK, Joint Fire Science Program, \$24,997. 2016 -Vilas Research Professorship, UW-Madison Vilas Trust, \$50,000 annually until retirement (direct costs)

# Professional Activities and Service (in addition to professional society service)

Working group member, "Beyond the historical baseline: Management for biodiversity conservation in changed ecosystems." Biodiversity Research and Policy Center, USDA Forest Service Rocky Mountain Research Station and University of Montana.

2024–	Member, Science Advisory Board, International Association for Landscape Ecology (4-yr term)
2024	Member, NSF Ecosystem Studies Panel, Division of Environmental Biology, October (virtual panel)
2023	Organizer (with B. J. Harvey and T. T. Keller) of organized oral session, "Shared challenge: Novel ecosystem responses to change in historically climate-limited fire regimes." Ecological Society of America annual meeting, Portland, OR, August.
2022	Panel member, Climate Change in Yellowstone National Park, 150 <sup>th</sup> Anniversary of Yellowstone Symposium, Buffalo Bill Center of the West, Cody, WY, May 19-20
2022	Panel member, Three questions for working scientists, 15 <sup>th</sup> Biennial Scientific Conference on the Greater Yellowstone Ecosystem, Bozeman, MT, May 18
2022	Participant, ORNL Integrated Experiments to Advance Earth System Predictability Workshop, March 21-24 (online).
2021	Member, NSF site-review team for the Harvard Forest Long-term Ecological Research (LTER) site, September 20-22.
2021	Proposal review panel, Swiss Federal Research Institute for Forest, Snow and Landscape Research (WSL), May
2021	Panelist, National Academies Ford Foundation Fellowships (Ecology), February-March, multiple virtual panel meetings
2020	Member, NSF Ecosystem Studies Panel, Division of Environmental Biology, 21-23 October (virtual panel)
2019	Co-organizer (with N. S. Gill) and moderator of organized oral session, "Changing fire regimes and dispersal into post-fire landscapes" Ecological Society of America annual meeting, Louisville, KY, August.
2018	Steering Committee member, National Academy of Sciences and British Royal Society Sackler Forum, "Climate change and ecosystems," US National Academy of Sciences, Washington, DC, 8-9 November, and guest editor of resulting special feature in Philosophical Transactions of the Royal Society B.
2018	Co-organizer (with S. R. Carpenter) of organized oral session, "Abrupt change in ecological systems: when, where, and why?" Ecological Society of America annual meeting, New Orleans, LA, August.
2018	Invited participant and speaker, US Department of Energy workshop, "Disturbance and vegetation dynamics in Earth Systems Models," Gaithersburg, Maryland, 15-16 March.
2016-17	Planning committee member, National Academy of Sciences workshop, "A century of wildland fire research", 27 March.
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.
2015-2018	Science advisory committee, ECOPOTENTIAL: Improving future ecosystem benefits through earth observations. Funded by the EU. Project website: <a href="http://www.ecopotential-project.eu/">http://www.ecopotential-project.eu/</a>

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
	-Chaired the Advisory Board in 2019
1996–	Co-Editor in Chief, <i>Ecosystems</i> (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
_011	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 Nov2 Dec., Virginia
2009	Advisory Committee (DSECC 12), National Environmental Observatory Network
_003	(NEON), Northern Rockies domain
2008-09	Blue-ribbon science review panel for Isle Royale National Park
2007-	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
4000 00	landscapes," Institute for Ecosystem Studies, Millbrook, NY
1998-02	Committee on Ungulate Management in Yellowstone National Park, National Research
2000	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
1007.00	America Annual Meeting, Snowbird, Utah.
1997-00	Ecosystems Panel, National Research Council, National Academy of Sciences
1992-04	Editorial Board, Ecological Applications
1995-03	Editorial Board, Conservation Ecology

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1992-04	Editorial Board, Landscape Ecology
1995-97	Science Advisory Board, National Center for Ecological Analysis and Synthesis,
1002.06	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
1993-96	Ecosystems Advisory Panel, National Science Foundation
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
1775	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,
1775	24-27 March
1993	Invited speaker, Fifth Cary Conference: "Linking Species and Ecosystems," Institute of
1,,,,	Ecosystem Studies, Millbrook, New York, 8-12 May.
1992-93	Steering Committee, Second International Conference/Workshop on Integrating GIS and
1772 75	Environmental Modeling, Breckenridge, Colorado, 26-30 September 1993.
1992	Workshop participant, "The Application of Spatially Explicit Models to Conservation and
1,7,2	Management of Animal Populations," University of Georgia, Athens, 11-14 November
1992	Invited Participant, Ecological Society of America and Association of Ecosystem
1,7,2	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
1772	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, Climate Research: Interactions of Climate with Organisms, Ecosystems
	and Man.
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

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
Convener, 1 <sup>st</sup> annual US Landscape Ecology Symposium on "The Role of Landscape
Heterogeneity in the Spread of Disturbance." University of Georgia, Athens, 15-17
January.
Invited participant, SCOPE/INTECOL/ICSU Workshop on "Spatial and Temporal
Variability of Biospheric and Geospheric Processes." St. Petersburg, Florida, 28 October
- 1 November.
Coordinator, Selection of Coastal Biosphere Reserves in the Carolinian-South Atlantic
Region, US Man and the Biosphere Programme. Cumberland Island, Georgia, 19-20
January.
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**

<u>Landscape Ecology</u> (ZOO 665, co-taught with D. J. Mladenoff)

Spring 1996, 19 students Spring 1998, 20 students

<u>Principles of Landscape Ecology</u> (ZOO 565, 1/3 lectures, course 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 2012, 17 students

Spring 2014, 16 students Spring 2016, 16 students

Spring 2018, 16 students

Spring 2016, 10 students

Spring 2020, 20 students

Spring 2022, 17 students

Spring 2024, 14 students

# Ecosystem Simulation Modeling (ZOO 800, new course co-taught with C. J. Kucharik; 2 credits)

Spring 2023, 17 students

Spring 2025, 8 students

<u>Introduction to Ecology Research at UW-Madison</u> (Graduate Seminar, ZOO 953, cross-listed with 6 departments). Assumed responsibility and re-organized this course in 2020. The seminar is aimed at new PhD students, campus wide, in any area of ecology.

Fall 2020, 25 students (1 credit)

Fall 2021, 20 students (1 credit)

Fall 2022, 16 students (1 credit)

Fall 2023, 11 students (1 credit)

Fall 2024, 17 students (1 credit)

# Fall 2025, 15 students (1 credit)

# 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

#### Ecology Graduate Seminars (ZOO 956 or ZOO 800)

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, Kucharik, 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)

Fall 2016, 16 students:

Abrupt Change in Ecological Systems (Turner, Carpenter, Ives, Kucharik, Williams; 2 credits)

Spring 2017, 11 students, 2 postdocs:

Forest Resilience in a Changing World (1 credit),

Fall 2017, 7 students, 2 postdocs:

Social and Ecological Dimensions of Changing Fire Regimes (1 credit)

Spring 2021, 11 students, 1 academic staff, 1 faculty participant:

#### Forest Fires and Biogeochemical Cycling (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, BioHouse freshman biology seminar

#### **Teaching Experience – Other Institutions**

<u>Landscape Ecology</u>, University of Tennessee (Ecology 510, co-taught with Hazel 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, graduate teaching assistant

1981, Winter quarter, 18 students

1982, Winter quarter, 10 students

1982, Fall quarter, 20 students

# **Graduate Students Trained (Major Advisor Only)**

#### Completed:

1.	Daniel Rutledge	MS, Ecology (University of Tennessee), 1993	-95

2. Sarah E. Gergel MS (1994-96) and PhD (1996-2000), Zoology (EPA STAR Fellow)

3. Michael Stevens MS, Botany, 1995-98 (co-advisor)

4. Christopher Mitchell MS, Zoology, 1998-2000

5. Jill Schnaiberg MS, Institute for Environmental Studies, 1998-2000 (co-advisor)

6. Mark D. Dixon PhD, Zoology, 1996-2001 (WARF and EPA STAR Fellow)

7. Mark Wegener MS, Institute for Environmental Studies, 1998-2001 (co-advisor)

8. Mark A. Smith PhD, Zoology and Wildlife Ecology, 1995-2002

9. Daniel M. Kashian PhD, Zoology and Forest Ecology & Management, 1998-2002 10. Tania Schoennagel PhD, Botany and Zoology, 1998-2002 (DOE Graduate Fellow)

10. Tania Schoennagel PhD, Botany and Zoology, 1998-2002 (DOE Graduate Fe MS (2000-02) and PhD (2002-2005), Zoology

12. Jennifer M. Fraterrigo PhD, Zoology, 2001-05 (DOE Graduate Fellow)

13. Katie I. Predick MS (2000-02) and PhD (2002-06), Zoology

14. Anna E. Marburg MS (2001-04) and PhD (2004-06), Zoology (WARF Fellow)

15. Alysa J. Remsburg MS (2002-05) and PhD (2005-07), Zoology (NSF Graduate Fellow)

16. Elizabeth A. Levitt
17. Thomas P. Albright
18. Timothy R. Kuhman
19. MS, Zoology, 2004-2006
19. PhD, Zoology, 2003-2007
19. PhD, Zoology, 2005-2009

19. Martin Simard PhD, Zoology, 2005-2010 (NSERC Graduate Fellow)

20. Jacob M. Griffin
21. Heather A. Lumpkin
22. Michelle M. Jackson
PhD, Zoology, 2006-2011
PhD, Zoology, 2008-2011
PhD, Zoology, 2008-2012

23. Brian J. Harvey PhD, Zoology, 2010-2015

24. Catherine F. Frock MS, Zoology, 2013-2015 (NSF Graduate Fellow)

25. Jiangxiao Qiu
 26. Rose A. Graves
 27. Amy V. Uhrin
 PhD, Zoology, 2011-2016
 PhD, Zoology, 2012-2017
 PhD, Zoology, 2012-2018

28. Winslow D. Hansen
 29. Carly Ziter
 PhD, Zoology, 2013-2018 (NSF Graduate Fellow)
 PhD, Zoology, 2014-2018 (NSERC Graduate Fellow)

30. Tyler J. Hoecker PhD, Zoology, 2017-2021

31. Kristin H. Braziunas MS (2016-2018) and PhD (2018-21), Integrative Biology

32. Ojaswee Shrestha
33. Nathan G. Kiel
34. Garrett Knowlton
35. MS, Integrative Biology, 2020-2024
36. MS, Integrative Biology, 2022-2024
37. MS, Integrative Biology, 2022-2024
38. MS, Integrative Biology, 2022-2024
39. MS, Integrative Biology, 2022-2024

#### Current:

Timon Keller PhD, Integrative Biology, 2021–

Arielle Link PhD, Integrative Biology, 2021– (AOF Fellow, NSF Graduate Fellow)

Allison Kneisel PhD, Integrative Biology, 2022–

Garrett Knowlton PhD, Integrative Biology, 2024– (NSF Graduate Fellow)

Jillian Neece MS, Integrative Biology, 2024– Anna Pieper MS, Integrative Biology, 2024–

# **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
Aisha Ba
Hilldale Research recipient, 2015-16
Ryan Fitzsimmons
Harrison Bielski
Eileen Mavencamp
Collin Cheney

Senior Honors Thesis, Zoology, 2006-07
Hilldale Research recipient, 2017-18
Hilldale Research recipient, 2020-21
Hilldale Research recipient, 2022-23
Senior Thesis, Zoology, 2025-26

#### **Post-graduate Research Interns**

Timothy G. Whitby 2012-14

Kristin H. Braziunas
Julia Warren
Lucy McGuire

Jan 2016 - June 2016
Nov 2021- June 2023
June 2023 - May 2024

#### Postdoctoral Research Associates Advised and Current Professional Affiliation

1.	Yegang Wu	1990-92	Scientific consulting
2.	Scott M. Pearson	1991-93	Oak Ridge National Laboratory
3.	Richard O. Flamm	1991-94	State of Florida DNR
4.	William W. Hargrove	1991-94	USDA Forest Service
5.	Kimberly O. With	1993-95	Kansas State University
6.	Rebecca A. Reed	1996-98	Practicing attorney
7.	Daniel B. Tinker	1999-00	University of Wyoming (retired)
8.	Joan Riera	1998-01	University of Barcelona

9. Matthias Bürgi	1999-00	WSL, Swiss Federal Research Institute
10. James R. Miller	1999-02	University of Illinois, Champaign-Urbana
<ol><li>Kristine L. Metzger</li></ol>	2001-05	US Fish and Wildlife Service, Southwest CASC
12. Jeffrey A. Cardille	2002-05	McGill University
13. Dean P. Anderson	2001-06	LandCare, New Zealand
14. Erica A.H. Smithwick	2001-07	Pennsylvania State University
15. Ishi Buffam	2007-10	Swedish University of Agricultural Sciences
16. Tammy L. Wilson	2010-11	USGS, Amherst
17. Daniel C. Donato	2010-12	Washington State Department of Natural Resources
18. Peter J. Blank	2012-14	The Nature Conservancy of Ohio
19. Kevin C. Rose	2014-15	Rensselaer Polytechnic Institute
20. Jien Zhang	2017-18	JP Morgan
21. M. Allison Stegner	2016-18	Stanford University (research scientist)
22. Tanjona Ramiadantsoa	2016-19	Madagascar
23. Nathan S. Gill	2018-19	Texas Tech University
24. Zak Ratajzcak	2017-19	Kansas State University
25. Seth Spawn-Lee	2023-24	The Nature Conservancy (national office)

# **University Service**

University of Tennessee
1992-1994 Admissions Committee, Graduate Program in Ecology

# University of Wisconsin

Department of Integrative Biology (formerly named Department of Zoology):		
1998-2019	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	
2011-12	Committee for exploring Botany-Zoology department integration	
2016-17	Aquatic Ecologist Search Committee	
2018-23	Mentoring committee for Hilary Dugan	
2020-21	Faculty Awards Committee	
2021-22	Mentoring committee for Robert Johnson (postdoctoral level)	

2021-22 2021- 2023- 2024- 2024-25 2025	Post-tenure review committee for Prof. A. R. Ives Director of Graduate Studies, iBio Graduate Program Mentoring committee (chair) for Robert Johnson (assistant professor) Member, iBio Faculty Awards Committee Chair, Search Committee, Assistant Professor in Climate Change Ecology Member, Search Committee, Graduate Program Manager	
College of Letters and Sciences:		
1995-00	Faculty Appeals Committee	
2019-24	Curriculum Committee (3-yr term + 2 additional years)	
2025-26	Mentoring committee for Diajiang Li (assistant professor, Botany)	
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	
2001-07	Mentoring committee for Volker Radeloff (Forest &Wildlife Ecology)	
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)	
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)	
2011-17	Mentoring Committee for Ben Zuckerburg, Forest and Wildlife Ecology	
2016-17	Search Committee for Director, UW-Madison Arboretum	
2016-20	Graduate Faculty Executive Committee (GFEC), member	
2016-17	Committee member, 10-yr review of Cellular and Molecular Pharmacology graduate	
2017 10	programs	
2017-18	Committee member, 10-yr review of the Statistics Department (undergraduate and graduate programs)	
2019-20	Committee member, 5-yr review of Epidemiology graduate programs	
2018-20	Mentoring committee for Sarah Hart (Forest and Wildlife Ecology)	
2018-22	Mentor for Thea Whitman (Soils), Women's Faculty Mentoring Program	
2021	Member, Vilas Research Professors Review Committee	
2023	Member, Vilas Research Professors Review Committee	
2023-	Mentoring committee for Jessica Hite (Pathobiological Sciences, Vet School)	

# **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, Münster, 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, Münster, 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 Penninsula. 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 Penninsula. 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. May1-3. (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 8<sup>th</sup> 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 Biennial Scientific Conference, 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 21<sup>st</sup> century. 5<sup>th</sup> International Congress on Fire Ecology and Management, Association 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), 12<sup>th</sup> 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).
- Turner, M. G. 2015. Climate change, fire and the future of Greater Yellowstone. Public lecture, Jackson Hole Conservation Alliance, Jackson Hole, WY, 30 September. (Invited).
- Turner, M. G. 2015. Climate change, disturbance, and the future of Yellowstone. Wisconsin Ecology Fall Symposium, University of Wisconsin-Madison, 14 October. (Invited).
- Turner, M. G. 2016. Importance of spatial heterogeneity in sustaining biodiversity and ecosystem services in changing landscapes. Distinguished Lecture, Swiss Institute for Forest, Snow and Landscape Research (WSL), Birmensdorf, Switzerland, 2 March. (Invited).
- Turner, M. G. 2016. Protected areas in a changing world: insights from Greater Yellowstone (USA). ECOPOTENTIAL general assembly, Texel Island, Netherlands, 26-30 June. (Invited).
- Turner, M. G. 2016. ESA: The turn of the century. President's address, Annual Meeting of the Ecological Society of America, Fort Lauderdale, FL, August (Invited).
- Turner, M. G., R. Seidl, and D. C. Donato. 2016. Breaking the synchrony: Spatial variability in tree regeneration after wildfire delays and dampens future bark beetle outbreaks. 13<sup>th</sup> Biennial Yellowstone Scientific Conference, Moran, WY. 5-7 October.
- Turner, M. G. 2017. Natural disturbances and forest resilience: Lessons from Yellowstone. University of Montana, Systems Ecology Seminar Series, Missoula, MT, 16 February (Invited).
- Turner, M. G. 2017. Climate, fire, and forests of the Northern Rockies. Climate Change Symposium, University of Wisconsin-Madison. 27 April. (Invited).
- Turner, M. G. 2017. Spatial heterogeneity, biodiversity and ecosystem services in changing landscapes. ECOPOTENTIAL general assembly, Heraklion, Crete, 16-19 June. (Invited).
- Turner, M. G. 2017. Climate, fire, and forests of Yellowstone. Women's Philanthropy Council annual meeting, UW-Madison, 7 June. (Invited).
- Turner, M. G., T. G. Whitby, and W. H. Romme. 2017. Nitrogen cycling in 25-yr old postfire lodgepole pine: Who controls whom? Annual Meeting of the Ecological Society of America, Portland, OR. 6-11 August.
- Turner, M. G. 2017. Ecological resilience to natural disturbances: lessons learned from Yellowstone National Park (USA). IUFRO 125<sup>th</sup> Anniversary Congress, Freiburg, Germany. 19-22 September. (Invited).

- Turner, M. G. 2017. Natural disturbances and forest resilience: Lessons from Yellowstone. Barkalow Lecture, College of Natural Resources, North Carolina State University. 11 October (Invited).
- Turner, M. G. 2018. Changing ecosystems and the ecology of change. 50<sup>th</sup> Anniversary Celebration, Odum School of Ecology, University of Georgia, Athens, GA. 13 January (Invited).
- Turner, M. G. 2018. Disturbance-vegetation dynamics: Key needs for getting them right. US Department of Energy Workshop on Disturbance and Vegetation Dynamics in Earth System Models, Gaithersburg, MD. 15 March 2018. (Invited plenary talk).
- Turner, M. G. 2018. Fires in the West and forests of the future: Lessons from Yellowstone. Crossroads of Ideas (public lecture), Wisconsin Institute for Discovery, 20 March (Invited).
- Turner, M. G., B. J. Harvey, W. D. Hansen, and K. H. Braziunas. 2018. Is increased fire frequency likely to erode resilience of lodgepole pine forests in Yellowstone? US-IALE annual landscape ecology symposium, Chicago, IL, 8-11 April.
- Turner, M. G., B. J. Harvey, W. D. Hansen, and K. H. Braziunas. 2018. Changing fire regimes and resilience of lodgepole pine forests in Yellowstone. Annual Meeting of the Ecological Society of America, New Orleans, LA. 5-10 August.
- Turner, M. G. 2018. Interacting stressors, compound disturbances, and abrupt change in terrestrial ecosystems. Sackler Forum, Climate Change and Ecosystems, US National Academy of Sciences, Washington, DC. November 8-9. (Invited).
- Turner, M. G. 2019. Fire in Yellowstone and forests of the future. Hood Lecture, School of Environment, University of Auckland, New Zealand. March 7. (Invited).
- Turner, M. G. 2019. Understanding abrupt change in ecological systems. School of Biological Sciences, University of Auckland, New Zealand. March 14. (Invited).
- Turner, M. G., R. Seidl, and W. Rammer. 2019. Fire in Yellowstone and forests of the future. Institute of Silviculture, Department of Forest- and Soil Sciences, University of Natural Resources and Life Sciences (BOKU), Vienna, Austria. May 7. (Invited).
- Turner, M. G. 2019. Fire in Yellowstone and forests of the future. Flathead Lake Biological Station, University of Montana. July 29. (Invited).
- Turner, M. G., Z. Ratajczak, K. H. Braziunas, W. D. Hansen, T. J. Hoecker, W. Rammer, R. Seidl, and A. L. Westerling. 2020. Abrupt changes in subalpine forest landscapes in a warmer world with more fire. American Geophysical Union annual meeting (virtual), December 1-17. (Invited).
- Turner, M. G., Z. Ratajczak, K. H. Braziunas, W. D. Hansen, T. J. Hoecker, W. Rammer, R. Seidl, and A. L. Westerling. 2021. The magnitude, direction and tempo of mountain forest change in a warmer world with more fire. International Association for Landscape Ecology North America (IALE-NA) annual meeting (virtual/live) from Reno, NV. April 12-15.
- Turner, M. G., Z. Ratajczak, K. H. Braziunas, W. D. Hansen, T. J. Hoecker, W. Rammer, R. Seidl, and A. L. Westerling. 2021. The magnitude, direction and tempo of forest change in Greater

- Yellowstone in a warmer world with more fire. Ecological Society of America Annual Meeting (virtual) from Riverside, CA. August 2-6. (Invited).
- Turner, M. G., K. H. Braziunas, T. J. Hoecker, W. Rammer, and R. Seidl. 2022. Anticipating forests of the future: landscape changes in Greater Yellowstone in a warmer world with more fire. 15<sup>th</sup> Biennial Scientific Conference on the Greater Yellowstone Ecosystem, Bozeman, MT. May 16-18.
- Turner, M. G. 2022. From resilience to regime shift? The uncertain future of Yellowstone's forests. Forest disturbance and ecosystem dynamics in a change world, Berchtesgaden, Germany, Sept. 19-22. (Invited opening keynote).
- Turner, M. G., N. G. Kiel, J. A. Warren, R. E. Heumann, and C. C. Cleveland. 2023. Reburning before recovery: Effects of short-interval fire on subalpine forest nitrogen stocks and recovery. Ecological Society of America Annual Meeting, Portland, OR, August 6-11 (Invited).
- Turner, M. G., and S. P. Loheide, II. 2024. Novel pathways of recovery alter the magnitude and phenology of evapotranspiration in subalpine forests. Ecological Society of America Annual Meeting, Long Beach, CA, August 4-8 (Poster).
- Turner, M. G. 2024. Anticipating change in Greater Yellowstone in a warmer world with more fire. Biennial Scientific Conference on the Greater Yellowstone Ecosystem, Big Sky, MT, September 3-5 (Invited).
- Turner, M. G. 2024. Climate change, fire, and the uncertain future of Yellowstone's forests. Wisconsin Institute of Discovery Symposium, Bridging the Digital and Natural Worlds. UW-Madison, November 13 (Invited keynote address).
- Turner, M. G. 2025. Landscape heterogeneity, disturbance, and forest change. An ecologist's journey in Yellowstone. University of Florida, virtual invited seminar, May 19.
- Turner, M. G. and R. Seidl. 2025. Tipping points in forest ecosystems: Lessons learned and challenges ahead. Symposium organized by N. McDowell on Climate change, disturbance, and tipping points in forest ecosystems: lessons learned from a diversity of biomes. Ecological Society of America Annual Meeting, Baltimore, MD, August 10-14. (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.]
- 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, 2<sup>nd</sup> edition. Springer, New York.
- 8. Gergel, S. E. and **M. G. Turner**, editors. 2017. LEARNING LANDSCAPE ECOLOGY: A PRACTICAL GUIDE TO CONCEPTS AND TECHNIQUES, 2<sup>nd</sup> edition. Springer, New York.

# Journal Articles and Peer-reviewed Book Chapters

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Student, post-graduate interns or postdocs in my lab indicated by underline.

- 1. **Goigel, M. M.**, and S. P. Bratton. 1983. Exotics in the parks. National Parks 57:24-29.
- 2. **Turner, M. G.,** and W. P. Gregg, Jr. 1983. The status of science activities in United States biosphere reserves. Environmental Conservation 10:231-237.
- 3. **Turner, M. G.** 1984. Habitat utilization by burros in Virgin Islands National Park. Journal of Wildlife Management 48:1461-1464.
- 4. Gregg, W. P., Jr. and **M. M. Goigel**. 1984. Putting the biosphere reserve concept into practice: the United States' experience. Pp. 460-484 *In* F. Dicastri, F. W. G. Baker and M. Hadley (editors.). Ecology in Practice. Part 1: Ecosystem Management. UNESCO, Paris, France.
- 5. **Turner, M. G.** 1985. National Ecological Research Area Systems. (Map, 1:7,500,000, color.) U. S. National Atlas, U.S. Geological Survey, Washington, D.C.
- 6. **Turner, M. G.** 1987. Land use changes and net primary production in the Georgia, USA, landscape: 1935-1982. Environmental Management 11:237-247.
- 7. **Turner, M. G.** 1987. Spatial simulation of landscape changes in Georgia: a comparison of 3 transition models. Landscape Ecology 1:29-36.

- 8. **Turner, M. G.** 1987. Effects of grazing by feral horses, clipping, trampling, and burning on a Georgia salt marsh. Estuaries 10:54-60.
- 9. **Turner, M. G.** and S. P. Bratton. 1987. Fire, grazing and the landscape heterogeneity of a Georgia barrier island. Pp. 85-101 *In* M. G. Turner, editor. Landscape heterogeneity and disturbance. Springer-Verlag, New York.
- 10. Gardner, R. H., B. T. Milne, **M. G. Turner** and R. V. O'Neill. 1987. Neutral models for the analysis of broad-scale landscape patterns. Landscape Ecology 1:19-28.
- 11. **Turner, M. G.** 1988. A spatial simulation model of land use changes in a piedmont county in Georgia. Applied Mathematics and Computation 27:39-51.
- 12. **Turner, M. G.** 1988. Simulation and management implications of feral horse grazing, Cumberland Island, Georgia. Journal of Range Management 41:441-447.
- 13. **Turner, M. G.** 1988. Multiple disturbances in a *Spartina alterniflora* salt marsh: are they additive? Bulletin of the Torrey Botanical Club 115:196-202.
- 14. **Turner, M. G.,** and C. L. Ruscher. 1988. Changes in landscape patterns in Georgia, USA. Landscape Ecology 1:241-251.
- 15. **Turner, M. G.**, E. P. Odum, R. Costanza, and T. M. Springer. 1988. Market and nonmarket values of the Georgia landscape. Environmental Management 12:209-217.
- 16. Turner, M. G., R. H. Gardner, V. H. Dale and R. V. O'Neill. 1988. Landscape pattern and the spread of disturbance. Pp. 373-382 In M. Ruzicka, T. Hrnciarova, and L. Miklos, eds. Proc. VIIIth Intl. Symp. Probs. Landsc. Ecol. Res., Vol. 1. Institute of Experimental Biology and Ecology, CBES SAS, Bratislava, Czechoslovakia.
- 17. O'Neill, R. V., J. R. Krummel, R. H. Gardner, G. Sugihara, B. Jackson, D. L. DeAngelis, B. T. Milne, **M. G. Turner**, B. Zygmunt, S. Christensen, V. H. Dale and R. L Graham. 1988. Indices of landscape pattern. Landscape Ecology 1:153-162.
- 18. O'Neill, R. G., B. T. Milne, **M. G. Turner**, and R. H. Gardner. 1988. Resource utilization scales and landscape pattern. Landscape Ecology 2:63-69.
- 19. **Turner, M. G.** 1989. Landscape ecology: the effect of pattern on process. Annual Review of Ecology and Systematics 20:171-197.
- 20. **Turner, M. G.**, R. Costanza and F. H. Sklar. 1989. Methods to compare spatial patterns for landscape modeling and analysis. Ecological Modelling 48:1-18.
- 21. **Turner, M. G.**, R. H. Gardner, V. H. Dale and R. V. O'Neill. 1989. Predicting the spread of disturbance across heterogeneous landscapes. Oikos 55:121-129.
- 22. **Turner, M. G.**, V. H. Dale and R. H. Gardner. 1989. Predicting across scales: theory development and testing. Landscape Ecology 3:245-252.

- 23. **Turner, M. G.**, R. V. O'Neill, R. H. Gardner and B. T. Milne. 1989. Effects of changing spatial scale on the analysis of landscape pattern. Landscape Ecology 3:153-162.
- 24. Gardner, R. H., R. V. O'Neill, **M. G. Turner** and V. H. Dale. 1989. Quantifying scale-dependent effects of animal movement with simple percolation models. Landscape Ecology 3:217-227.
- 25. Graham, R. L., M. G. Turner and V. H. Dale. 1989. CO<sub>2</sub>-Induced climate change and forest resources. Pp. 233-241 In: R. D. Noble, J. L. Martin and K. F. Jensen, eds. Air Pollution Effects on Vegetation. USDA Forest Service, Northeastern Forest Experiment Station, Broomall, Pennsylvania.
- 26. **Turner, M. G.** 1990. Landscape changes in nine rural counties in Georgia, USA. Photogrammetric Engineering and Remote Sensing 56:379-386.
- 27. **Turner, M. G.** 1990. Spatial and temporal analysis of landscape patterns. Landscape Ecology 4:21-30.
- 28. Graham, R. L., **M. G. Turner**, and V. H. Dale. 1990. How increasing atmospheric CO<sub>2</sub> and climate change affect forests. BioScience 40:575-587.
- 29. Odum, E. P. and **M. G. Turner**. 1990. The Georgia landscape: a changing resource. Pp. 137 164 *In* I. S. Zonneveld and R. T. T. Forman, editors. Changing landscapes: an ecological perspective. Springer-Verlag, New York.
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- <u>Kiel, N. G.</u>, and M. G. Turner. Integrating game- and inquiry-based learning strategies to teach the nitrogen cycle. Course Source (In review).
- Lecina-Diaz, J., **M. G. Turner**, and R. Seidl. Post-disturbance forest reorganization: a global synthesis. Global Ecology and Biogeography (In review).

### National Research Council Publications (Turner was member of each NRC committee)

- National Research Council. 1993. Setting priorities for land conservation. National Academy Press, Washington, DC.
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#### **Selected Outreach Activities**

- 2008 Co-led (with Bill Romme) a 2-day field trip on twentieth anniversary of the 1988 Yellowstone fires. Visited areas throughout Yellowstone as part of the joint meeting of the Yellowstone Biennial Science Conference
- 2015 Presented as part of a field trip for resource managers on the 1988 fires in Yellowstone. Organized by the Northern Rockies Fire Science Network.
- 2015 Invited public presentation on fires in Yellowstone, Teton County Library, Jackson Hole, Wyoming.
- Organized and led workshops for forest and fire managers in the Northern US Rocky Mountains on "Dimensions of forest resilience", one day in Bozeman, MT and one day in Missoula, MT. Workshops were co-sponsored by the Northern Rockies Fire Science Network.
- 2018 Invited public presentation on "Fire in the West and Forests of the Future: Lessons from Yellowstone" in Crossroads of Ideas lecture series, Wisconsin Institutes of Discovery, Madison, 20 March.
- 2018 Released two mini-documentary videos on forest resilience research in Greater Yellowstone through University Communications, UW-Madison; these have been shared through UW-Madison's social media accounts and by the Joint Fire Science Program (Friday Flash on 21 September 2018)
  - Longer version (7.5 min), "Fires in the West may be changing the future of forests" <a href="https://youtu.be/dD8VLS5F2Xo">https://youtu.be/dD8VLS5F2Xo</a>
  - Shorter version (4.5 min): "As wildfires burn, will the forests of Yellowstone remain?" https://youtu.be/TvSK9sKHojk
- Wrote an invited article, "Here's how forests rebounded from Yellowstone's epic 1988 fires and why that could be harder in the future," for THE CONVERSATION, published 28 August. Article was republished in numerous places, including SCIENTIFIC AMERICAN, SAN FRANCISCO CHRONICLE, HOUSTON CHRONICLE, SEATTLE POST-INTELLIGENCER, POPULAR SCIENCE and others; >77,000 views recorded as of 26 September 2018.

  <a href="https://theconversation.com/heres-how-forests-rebounded-from-yellowstones-epic-1988-fires-and-why-that-could-be-harder-in-the-future-101495">https://theconversation.com/heres-how-forests-rebounded-from-yellowstones-epic-1988-fires-and-why-that-could-be-harder-in-the-future-101495</a>
- 2018 Presentation, "Yellowstone Fires and the American West" for *Science on Tap*, Nomad World Pub, Madison, 5 September.
- 2018 Co-led a 2-day event, "Long-duration Fire and Reburn Effects in Yellowstone National Park," organized by Northern Rockies Fire Science Network for regional forest/fire managers, October 16-17. (Two oral presentations + full-day field trip into the 2016 Maple Fire).
- 2019 Presentation, "Forest and fire in Greater Yellowstone: What does the future hold?" American Alpine Club Climber's Ranch, Grand Teton National Park, evening talk for guests, 19 July

- 2019 Presentation, "The uncertain future of Yellowstone in a warmer world with more fire." Wednesday Nite @ the Lab, University of Wisconsin-Madison. Public lectures broadcast by Wisconsin Public Television and available online. (57 minutes)

  <a href="https://video.pbswisconsin.org/video/yellowstone-in-a-warmer-world-with-more-fire-savyji/">https://video.pbswisconsin.org/video/yellowstone-in-a-warmer-world-with-more-fire-savyji/</a>
- 2020 Organized and led 1.5-day workshops for forest and fire managers in the Northern US Rocky Mountains on "Learning about resilient futures", workshops held in both Bozeman, MT and Missoula, MT. Workshops were co-sponsored by the Northern Rockies Fire Science Network.
- Facebook Live event, "A fiery future: Are widespread megafires the new normal?" Programmed by The Franklin Institute in Philadelphia, PA. Viewable on YouTube: https://youtu.be/SkHY8OXsTPc
- Led a half-day field tour "Fire in the GYE: Past, present and future" for superintendent of Grand Teton National Park and division chiefs, July 11.
- 2023 Lunchtime Expeditions presentation, "The future of forests in Yellowstone in a warmer world with more fire," at the Draper Natural History Museum, which is part of the Buffalo Bill Center of the West, Cody, Wyoming. July 6. <a href="https://www.youtube.com/watch?v=3yjVVWP-z5w">https://www.youtube.com/watch?v=3yjVVWP-z5w</a>
- 2023 "Future Landscapes of Greater Yellowstone"

  <a href="https://www.youtube.com/watch?v=cIp78QSJoAE">https://www.youtube.com/watch?v=cIp78QSJoAE</a>
  Video product (8:48 min) from the 2019 Camp Monaco Prize
- 2023 "Tomorrow's Yellowstone" <a href="https://news.wisc.edu/tomorrows-yellowstone/">https://news.wisc.edu/tomorrows-yellowstone/</a> UW-Madison's multi-media feature on our research
- 2024 Public presentation/panel discussion on "The Making of Tomorrow's Yellowstone" in Crossroads of Ideas lecture series, Wisconsin Institutes of Discovery, Madison, 17 April.
- 2024 "Fire in Yellowstone and Forests of the Future." Presentation to a local Madison chapter of the PEO Sisterhood. 10 October.
- 2025 "Fire in Yellowstone and Forests of the Future." Presentation to West Madison Kiwanis Club, 22 August.

### **Selected Media Reports and Research Features**

# **General (chronological)**

- Radio interview, HERE ON EARTH, RADIO WITHOUT BORDERS with Jean Feraca, September 3, 2008 (one-hour show, live radio, titled "When nature and culture collide"). Archive at: <a href="http://www.mefeedia.com/entry/when-nature-and-culture-collide/11290730">http://www.mefeedia.com/entry/when-nature-and-culture-collide/11290730</a>
- Sakai, Jill. 2008. Rising from the ashes. On Wisconsin, summer 2008, pp. 22-27. http://www.news.wisc.edu/on-wisconsin/rising-from-the-ashes/

- Marris, Emma. 2011. The end of the wild. Nature 469:150-152. http://www.nature.com/news/2011/120111/full/469150a.html
- Weeks, Jennifer. 2012. Managing wildfires. CQ Researcher 22(39):941-964. (Congressional Quarterly publications provide science summaries to the US Congress) http://www.cqpress.com/product/Researcher-Managing-Wildfires-v22-39.html
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- Boyle, Alan. 2013. Will forests flourish after fires? In a warming world, not always. NBC News.com <a href="http://www.nbcnews.com/science/environment/will-forests-flourish-after-fires-warming-world-not-always-f6C10534178">http://www.nbcnews.com/science/environment/will-forests-flourish-after-fires-warming-world-not-always-f6C10534178</a>
- Campbell BIOLOGY, 10<sup>th</sup> edition. 2014. Featured scientist for Unit 8, Ecology. Page 1157.
- Carswell, Cally. 2014. Don't blame the beetles. Science 346(6206):154-156. http://www.sciencemag.org/content/346/6206/154.summary
- Ecological Society of America. 2014. Film commissioned for ESA's 100<sup>th</sup> anniversary; Turner is one of three US ecologists selected for featuring of their field research. Film crew spent 2.5 days in Yellowstone during July 2014; film was released August 2015. <a href="https://vimeo.com/136015261">https://vimeo.com/136015261</a>
- Preston, Penny. 2014. Fires and forest re-growth. Television interview, KULR 8, Billings, aired October 15, 2014 in Montana and Wyoming. <a href="http://www.kulr8.com/story/26798686/fires-and-forest-re-growth">http://www.kulr8.com/story/26798686/fires-and-forest-re-growth</a>
- Puckett, Karl. 2015. What Yellowstone's '88 fires tell us about Glacier. Great Falls Tribune. <a href="http://gftrib.com/1LiUtNy">http://gftrib.com/1LiUtNy</a>
- Edmonds, Patricia. 2016. Yellowstone Fires, Past and Future. National Geographic Magazine, May issue, 229(5):16 (full page illustration on effects of the 1988 Yellowstone Fires).
- Radio interview, 620 WTMJ in Milwaukee, WI, with Steve Ketelaar about 100<sup>th</sup> anniversary of our national parks. Airing on 17 July 2016.
- Abrahamson, Jake. 2016. Yellowstone 2.0. Sierra 101(4): 36-41. Included in a special issue on 100<sup>th</sup> anniversary of the National Park Service.
- Wisconsin Public Television. 2016. Interviewed by Zach Schultz on WPTV's "Here and Now" for segment promoting forthcoming documentary. Aired on 26 August. http://wpt.org/Here and Now/look-future-yahara-watershed
- Wisconsin Public Television. 2016. The Yahara Watershed: A Place of Change. Documentary (30 min) that aired on 1 September 2016. <a href="http://video.wpt.org/video/2365830152/">http://video.wpt.org/video/2365830152/</a>
- Joint Fire Science Program. 2016. Friday Flash eNews, Issue 166, 9 September 2016. Recent JFSP-funded research aids fire managers in Greater Yellowstone. (Weekly email blast highlights real-time use of our post-1988 fire long-term data).

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- Verburg, Steven. 2017. Know Your Madisonian: UW-Madison professor examines abrupt ecosystem changes. Wisconsin State Journal. 18 November 2017.

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- Pope, Kristen. 2018. Multiple interviews for feature on the 1988 Yellowstone Fires in DISCOVER MAGAZINE, December issue. <a href="http://discovermagazine.com/2018/dec/burn-notice">http://discovermagazine.com/2018/dec/burn-notice</a>
- Holloway, Marguerite. 2018. New York Times (November 15, 2018) Your children's Yellowstone will be radically different. (Interviewed by phone and quoted in article on how climate change is altering Yellowstone National Park.)

  <a href="https://www.nytimes.com/interactive/2018/11/15/climate/yellowstone-global-warming.html">https://www.nytimes.com/interactive/2018/11/15/climate/yellowstone-global-warming.html</a>
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- Koshmrl, Mike. 2020 What's in the forecast? Lots of fire, less forest. Jackson Hole New & Guide, September 23. <a href="https://www.jhnewsandguide.com/special/conservation/what-s-in-the-forecast-lots-of-fire-less-forest/article-d3f7328c-bb3b-59c3-8868-bf4d0b5c7bfb.html">https://www.jhnewsandguide.com/special/conservation/what-s-in-the-forecast-lots-of-fire-less-forest/article-d3f7328c-bb3b-59c3-8868-bf4d0b5c7bfb.html</a>

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- Pennisi, Elizabeth. 2020. As wildfires continue in western United States, biologist fear for vulnerable species. Science 370(6512):18-19, 2 October.

  <a href="https://www.sciencemag.org/news/2020/09/wildfires-continue-western-united-states-biologists-fear-vulnerable-species">https://www.sciencemag.org/news/2020/09/wildfires-continue-western-united-states-biologists-fear-vulnerable-species</a>
- Goldfarb, Ben. 2021. Pines in peril. National Parks magazine, spring issue. Article focuses on our work with lodgepole pines in Grand Teton National Park. <a href="https://www.npca.org/articles/2855-pines-in-peril">https://www.npca.org/articles/2855-pines-in-peril</a>
- The Franklin Institute. 2021. The Burn. Video (4 min) on Turner's work in landscape ecology and disturbance dynamics as part of awards ceremony for the Benjamin Franklin Medal in Earth and Environmental Sciences. <a href="https://www.youtube.com/watch?v=Pm6dBwjpLjA">https://www.youtube.com/watch?v=Pm6dBwjpLjA</a>
- Welch, Craig. 2022. The future of forests. National Geographic Magazine, May 2022 pp. 35-73 in the special issue on Saving Forests. Turner's research in Yellowstone features prominently in the beginning, middle and end of the feature article. Turner is pictured on p. 49.

## **Media Reports by Research Publication**

#### Simard et al. (2011, Ecological Monographs)

- LA TIMES:
  - o Bettina Boxall, Bark beetles may kill trees, but that may not raise fire risk. http://articles.latimes.com/2010/sep/26/nation/la-na-beetle-fire-20100926
  - o <a href="http://www.latimes.com/news/nationworld/nation/la-na-beetle-fire-20100926,0,3315977.story">http://www.latimes.com/news/nationworld/nation/la-na-beetle-fire-20100926,0,3315977.story</a>
- BOZEMAN DAILY CHRONICLE:
  - Dead trees equal big fires? New study says no.
     <a href="http://www.bozemandailychronicle.com/news/article\_b38df774-c92f-11df-9c19-001cc4c002e0.html?mode=print">http://www.bozemandailychronicle.com/news/article\_b38df774-c92f-11df-9c19-001cc4c002e0.html?mode=print</a>
- OREGON PUBLIC BROADCASTING
  - Doug Nadvornick, Scientists discount tie between beetles, huge wildfires <a href="http://news.opb.org/article/13457-scientists-discount-tie-between-beetles-huge-wildfires/">http://news.opb.org/article/13457-scientists-discount-tie-between-beetles-huge-wildfires/</a>
- NASA
  - O Jennifer Schoemaker, NASA satellites reveal surprising connections between beetle attacks, wildfire <a href="http://www.nasa.gov/topics/earth/features/beetles-fire.html">http://www.nasa.gov/topics/earth/features/beetles-fire.html</a>

# Westerling et al. (2011, PNAS)

- NBC News.com. Yellowstone set for more fires as Earth warms, study finds.
  - o http://www.nbcnews.com/id/43885020/#.VDf14ecnE7g
- DISCOVERY NEWS:
  - o <a href="http://news.discovery.com/earth/climate-change-yellowstone-fires.html">http://news.discovery.com/earth/climate-change-yellowstone-fires.html</a>
- NATURE NEWS: Sid Perkins, Climate change ignites wildfire fears for Yellowstone.
  - o http://www.nature.com/news/2011/110725/full/news.2011.440.html
- USA Today: Article: Scientists warn that fires could consume Yellowstone forests
  - \*Also printed in many other newspapers.

- MSNBC: Article: Yellowstone set for more fires as Earth warms, study finds
  - \*Also appeared in Our Amazing Planet and Live Science
- LA TIMES
  - o Greenspace blog: More big Yellowstone fires predicted with climate change
- SAN FRANCISCO CHRONICLE:
  - o Blog: Yellowstone will change dramatically under Climate 2.0
- ASSOCIATED PRESS:
  - o Article: Study: Yellowstone fires will be worse by 2050
  - \*Also appeared in many other papers.
- UNITED PRESS INTERNATIONAL:
  - o Article: Climate change may drive Yellowstone fires
- SCIENCE DAILY:
  - o Article: Climate Change to Increase Yellowstone Wildfires Dramatically

### Qiu and Turner (2013, PNAS)

- SCIENCE DAILY:
  - Article: Mapping the benefits of our ecosystems.
     <a href="http://www.sciencedaily.com/releases/2013/07/130701163753.htm">http://www.sciencedaily.com/releases/2013/07/130701163753.htm</a>

# Harvey et al. (2014, PNAS)

- USA TODAY:
  - O Doyle Rice, Study: Bark beetles not a wildfire bugaboo. http://www.usatoday.com/story/weather/2014/10/01/bark-beetles-western-wildfires/16544099/
- SCIENCE:
  - Cally Carswell, Don't blame the beetles.
     <a href="http://www.sciencemag.org/content/346/6206/154.summary">http://www.sciencemag.org/content/346/6206/154.summary</a>

## Blank et al. (2014, PLoS ONE)

- SCIENCE DAILY:
  - Article: Balancing birds and biofuels: grasslands support more species than cornfields. <a href="http://www.sciencedaily.com/releases/2014/10/141009154122.htm">http://www.sciencedaily.com/releases/2014/10/141009154122.htm</a>
- WISCONSIN PUBLIC RADIO (10 October 2014)

### Harvey et al. (2016, Global Ecology and Biogeography)

- UW-MADISON NEWS (picked up by many news outlets)
  - Kelly Tyrrell: Drought alters recovery of Rocky Mountain forests after fire. http://news.wisc.edu/drought-alters-recovery-of-rocky-mountain-forests-after-fire/

#### Qiu and Turner (2016, Biological Invasions)

- UW-MADISON NEWS:
  - Chris Barncard, Voracious Asian jumping worms strip forest floor and flood soil with nutrients. <a href="http://news.wisc.edu/voracious-asian-jumping-worms-strip-forest-floor-and-flood-soil-with-nutrients/">http://news.wisc.edu/voracious-asian-jumping-worms-strip-forest-floor-and-flood-soil-with-nutrients/</a>
- WASHINGTON POST:
  - Ben Guarino, Invasive 'Jersey wriggler' jumping worms devouring forest floors, 9 Sept 2016 <a href="https://www.washingtonpost.com/news/morning-mix/wp/2016/09/09/invasive-jersey-wriggler-jumping-worms-devouring-forest-floors/">https://www.washingtonpost.com/news/morning-mix/wp/2016/09/09/invasive-jersey-wriggler-jumping-worms-devouring-forest-floors/</a>
- WISCONSIN PUBLIC RADIO:

- Interviewed by Brady Carlson, aired during All Things Considered on 12 September 2016 http://www.wpr.org/listen/991501
- ISTHMUS (weekly newspaper in Madison, WI):
  - Denise Thornton, Doug Hansmann, Worming their way into Wisconsin, 6 October 2016 http://isthmus.com/news/news/invasive-jumping-worms-could-damage-habitat/
- SCIENCE NEWS for STUDENTS:
  - Sharon Oosthoek, Earthworms: Can these gardeners' friends actually become foes? 7
     October 2016 <a href="https://www.sciencenewsforstudents.org/article/earthworms-can-these-gardeners-friends-actually-become-foes">https://www.sciencenewsforstudents.org/article/earthworms-can-these-gardeners-friends-actually-become-foes</a>

## Johnstone et al. (2016, Frontiers in Ecology and the Environment)

- UW-MADISON NEWS (picked up by other outlets)
  - o Kelly Tyrrell, Thrive or fail: Examining forest resilience in the face of fires. http://news.wisc.edu/thrive-or-fail-examining-forest-resilience-in-the-face-of-fires/

## Rose et al. (2016, Ecological Applications)

- UW-MADISON NEWS
  - Jenny Seifert, Study shows many lakes getting murkier, but gives hope for improvement. <u>http://news.wisc.edu/study-shows-many-lakes-getting-murkier-but-gives-hope-for-improvement/</u>
- WXPR, a Wisconsin Public Radio Station
  - Ken Krall, Lake study finds runoff, more rain affects water clarity http://wxpr.org/post/lake-study-finds-runoff-more-rain-affects-clarity

### Seidl et al. (2016, PNAS)

- UW-MADISON NEWS
  - Kelly Tyrrell, Variable tree growth after fire protects forests from future bark beetle outbreaks. <a href="http://news.wisc.edu/variable-tree-growth-after-fire-protects-forests-from-future-bark-beetle-outbreaks/">http://news.wisc.edu/variable-tree-growth-after-fire-protects-forests-from-future-bark-beetle-outbreaks/</a>

## **Ziter and Turner (2018, Ecological Applications)**

- UW-MADISON NEWS
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