

CURRICULUM VITAE

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EDUCATION

1983 Ph.D., Ecology and Evolutionary Biology, Indiana University, Bloomington
 1978 M.S., Botany, Southern Illinois University, Carbondale
 1977 B.A., Botany (Geology minor), Southern Illinois University, Carbondale

PROFESSIONAL APPOINTMENTS

2012-present Director, Department of the Interior Southwest Climate Science Center
 2012-present Supervisory Biologist, U.S. Geological Survey
 2012-present Professor Emeritus of Botany and Ecology, University of Wyoming
 2001-2012 Professor of Botany, University of Wyoming
 2004-2011 Founding Director, Program in Ecology, University of Wyoming
 2004-2011 Research Director, Wyoming NSF EPSCoR Research Infrastructure Program
 1997-2001 Associate Professor of Botany, University of Wyoming
 1995-1997 Assistant Professor of Botany, University of Wyoming
 1995 Associate Professor of Biological Sciences, Northern Arizona University
 1990-1995 Assistant Professor of Biological Sciences, Northern Arizona University
 1988-1990 Research Associate in Geological Sciences, Brown University
 1986-1988 National Science Foundation Post-Doctoral Research Fellow in Environmental
 Biology (in residence at Brown University)
 1984-1985 Visiting Assistant Professor of Biological Sciences, Idaho State University
 1983-1984 Visiting Assistant Professor of Biology, Indiana University, Bloomington

COURTESY APPOINTMENTS

2015-present Senior Fellow, Integrated History and Future of People on Earth (IHOPE),
 Uppsala University
 2013-2016 Adjunct Professor, Grand Challenges in Ecosystems and the Environment
 Initiative, Department of Life Sciences, Imperial College London
 2012-present Adjunct Professor of Natural Resources and Environment, University of Arizona
 2012-present Adjunct Professor of Geosciences, University of Arizona
 2012 Visiting Research Fellow, Merton College, University of Oxford
 2012 Scholar in Residence, Ucross Foundation
 2012-2014 Research Associate, Biodiversity Institute of Oxford
 2010-2014 Research Associate, Denver Museum of Nature and Science
 2002 Visiting Faculty, Department of Botany, University of Georgia

1997-2007 Affiliate, Institute of Arctic and Alpine Research, University of Colorado
 1985-1986 Adjunct Faculty in Biological Sciences, Idaho State University

RECENT HONORS, AWARDS, AND DISTINCTIONS

2016 Web of Science Highly Cited Researcher
 2015 Excellence in Leadership Award, U.S. Geological Survey
 2014 Fellow, Ecological Society of America
 2011 George Duke Humphrey Distinguished Faculty Medal, University of Wyoming
 2010 William S. Cooper Award, Ecological Society of America (co-recipient)
 2009 Fellow, American Association for the Advancement of Science
 2009 University of Wyoming College of Arts & Sciences Exemplary Faculty Award
 2009 Extraordinary Merit in Research Award, College of Arts & Sciences
 2008 54th Annual Ermine Cowles Case Memorial Lecture, University of Michigan
 2006 Aldo Leopold Leadership Fellow in Environmental Sciences
 2005 Boggess Award, American Water Resources Association (co-recipient)

PUBLISHED WORKS

Manuscripts Under Review:

Amatangelo, K.L., L. Stevens, D.A. Wilcox, **S.T. Jackson** & D.F. Sax. Provenance is a mixed predictor of invader impacts in a disturbed wetland ecosystem. *Diversity and Distributions*. (under revision)

Enquist, C.A.F., **S.T. Jackson**, G. Garfin, F. Davis, L. Gerber, J. Littell, J. Tank, A.J. Terando, T. Wall, M.W. Brunson, K. Hall, L. Hallett, B. Halpern, J.K. Hiers, D. Lawson, E. McNie, T.L. Morelli, M.A. Moritz, K. Nydick, A. Pairis, A. Ray, C. Regan, H. Safford, M.W. Schwartz, R. Shaw, N. Stephenson, M.A. Williamson, C.A. Woodhouse & L. Yung. Foundations of translational ecology. *Frontiers in Ecology and the Environment*.

Jackson, S.T. Modern pollen-assemblage data from small lakes paired with local forest-composition data in northeastern United States. *Ecology* (Data Paper)

Jones, R.A., J.W. Williams & **S.T. Jackson (corresponding author)**. Vegetation history since the Last Glacial Maximum in the Ozark highlands (USA): a new record from Cupola Pond, Missouri. *Quaternary Science Reviews* (provisional acceptance; under revision).

Marlon, J.R., C. Nolan, S. Goring, B. Shuman, R. Booth, P. Bartlein, M.A. Berke, M. Clifford, E. Cook, A. Dieffenbacher-Krall, A. Hessler, J.B. Hubeny, **S.T. Jackson**, J. Marsicek, J. McLachlan, C.J. Mock, D.J.P. Moore, J. Nichols, A. Robertson, K. Schaefer, V. Trouet, C. Umbanhower, J. Williams & Z. Yu. Temperature and hydroclimatic histories of the northeastern United States during the past 3000 years. *Climates of the Past*.

Nolan, C., **S.T. Jackson***, J.T. Overpeck, J.R.M. Allen, P.M. Anderson, J.L. Betancourt, H.A. Binney, S. Brewer, M.B. Bush, B.M. Chase, R. Cheddadi, M. Djamali, J. Dodson, M. Edwards, W.D. Golsing, S. Haberle, S.C. Hotchkiss, B. Huntley, S.J. Ivory, A.P. Kershaw, C. Latorre, M. Leydet, A.-M. Lézine, K.-B. Liu, Y. Liu, A.V. Lozhkin, M.S. McGlone, R.A. Marchant, P.I. Moreno, S. Müller, B.L. Otto-Bliesner, C. Shen, J. Stevenson, P.E. Tarasov, A. Vincens, C. Weng, Q. Xu & Z. Zheng. Past and future global transformation of terrestrial ecosystems under climate change. *Science*.
***Corresponding author** (to be submitted January 2017)

Schwartz, M.W., J.K. Hiers, F.W. Davis, G. Garfin, **S.T. Jackson**, A.J. Terando, C.A. Woodhouse, T.L. Morelli, M.A. Williamson & M.W. Brunson. Developing a translational ecology workforce. *Frontiers in Ecology and the Environment*.

Books:

National Research Council, Committee on the Geological Record of Biosphere Dynamics. 2005. *The Geologic Record of Ecological Dynamics: Understanding the Biotic Consequences of Global Change*. National Academies Press, Washington, DC. 200 pages. Authors: K.W. Flessa (Chair), **S.T. Jackson** (Vice-Chair), J.D. Aber, M.A. Arthur, P.R. Crane, D.H. Erwin, R.W. Graham, J.C.B. Jackson, S.M. Kidwell, C.G. Maples, C.H. Peterson, O.J. Reichman.

Edited Works:

- Jackson, S.T.**, C.E. Enquist & G. Garfin. 2017. Guest editors. Special issue on “Translational Ecology”. *Frontiers in Ecology and the Environment* (manuscripts currently undergoing review; tentatively scheduled for publication June 2017).
- Humboldt, Alexander von. 2014. *Views of Nature, with Scientific Annotations (1849)*. (translated by M.W. Person; edited by **S.T. Jackson** and L.D. Walls). University of Chicago Press. 344 p.
- Jackson, S.T.** & D. Charman, editors. 2010. Special issue on “Peatlands: Paleoenvironments and Carbon Dynamics”. *PAGES News*, Volume 18, Number 1 (April 2010).
- Humboldt, Alexander von & Aimé Bonpland. 2009. *Essay on the Geography of Plants (1807)* (translated by S. Romanowski; edited by **S.T. Jackson** with accompanying essays and supplementary material by **S.T. Jackson** and S. Romanowski). University of Chicago Press. 274 p.
- Jackson, S.T.** 2007. Guest editor. Special issue on “Paleoecology: Using the past as a key to the future.” *Frontiers in Ecology and the Environment* Volume 5, Number 9 (Nov 2007).

Refereed Journal Articles, Monographs, and Book Chapters:

- Barnosky, A.D., E.A. Hadly, P. Gonzalez, J. Head, P.D. Polly, A.M. Lawing, J.T. Eronen, D.D. Ackerly, K. Alex, E. Biber, J. Blois, J. Brashares, G. Ceballos, E. Davis, G.P. Dietl, R. Dirzo, H. Doremus, M. Fortelius, H. Greene, J. Hellmann, T. Hickler, **S.T. Jackson**, M. Kemp, P.L. Koch, C. Kremen, E.L. Lindsey, C. Looy, C.R. Marshall, C. Mendenhall, A. Mulch, A.M. Mychajliw, C. Nowak, U. Ramakrishnan, J. Schnitzler, K.D. Shrestha, K. Solari, L. Stegner, M.A. Stegner, N.C. Stenseth, M.H. Wake & Z. Zhang. 2017. No going back: Merging paleontology with conservation biology to guide the future of terrestrial ecosystems. *Science* (in press).
- Edwards, K.J., R.M. Fyfe & **S.T. Jackson**. 2017. The first 100 years of pollen analysis. *Nature Plants* (in press).
- Higgs, E.C. & **S.T. Jackson**. 2017. The role of history in ecological restoration. In S. Allison & S. Murphy (editors). *Routledge Handbook of Ecological and Environmental Restoration*. Routledge, London, UK. (in press)
- Stambaugh, M.C., J.M. Varner, & **S.T. Jackson**. 2017. The biogeography of longleaf pine: an interweave of climate, fire, and humans. In K. Kirkman & S. Jack (editors). *Ecological Restoration of Longleaf Pine*. CRC Press. (in press).
- Clark, J.S., L. Iversen, C. Woodall, C.D. Allen, D. Bell, D. Bragg, T. d’Amato, F. Davis, M. Hersh, I. Ibanez, **S.T. Jackson**, S. Matthews, N. Pederson, M. Peters, M. Schwartz, K. Waring, & N. Zimmerman. 2016. The impacts of drought on forest dynamics, structure, and diversity. *Global Change Biology* 22:2329-2352.
- Dawson, A., C.J. Paciorek, J.S. McLachlan, S. Goring, J.W. Williams & **S.T. Jackson**. 2016. Quantifying pollen-vegetation relationships to reconstruct forests using 19th-century forest composition and pollen data. *Quaternary Science Reviews* 137:156-175.
- Goring, S.J., D.J. Mladenoff, C.V. Cogbill, S. Record, C.J. Paciorek, **S.T. Jackson**, M.C. Dietze, A. Dawson, J.H. Matthes, J.S. McLachlan, & J.W. Williams. 2016. Novel and lost forests in the upper Midwestern United States, from new estimates of settlement-era

- composition, stem density, and biomass. *PLOS One*. 11(12): e0151935. doi:10.1371/journal.pone.0151935
- Hiers, J.K., **S.T. Jackson**, R.J. Hobbs, L.E. Valentine & E.S. Bernhardt. 2016. The precision problem in conservation and restoration. *Trends in Ecology and Evolution* 31: 820-830.
- Jackson, S.T.**, C.S. Duke, S.E. Hampton, K.L. Jacobs, L.N. Joppa, K.-A. Kassam, H.A. Mooney, L.A. Ogden, M. Ruckelshaus & J.F. Shogren. 2016. Toward a national, sustained U.S. ecosystem assessment. *Science* 354:838-839.
- Kujawa, E.R., S. Goring, A. Dawson, R. Calcote, E.C. Grimm, S.C. Hotchkiss, **S.T. Jackson**, E.A. Lynch, J. McLachlan, J.-M. St-Jacques, C. Umbanhowe, Jr. & J.W. Williams. 2016. The effect of anthropogenic land cover change on pollen-vegetation relationships in the American Midwest. *Anthropocene* (in press).
- Morelli, T.L., C.L. Millar, S.P. Maher, K. Nydick, J.L. Ebersole, C. Daly, S.Z. Dobrowski, D. Dulen, **S.T. Jackson**, J.D. Lundquist, W.B. Monahan, K.T. Redmond, S. Sawyer, S. Stock & S.R. Beissinger. 2016. Managing climate change refugia for climate adaptation. *PLOS One* 11(8): e0159909. doi:10.1371/journal.pone.0159909.
- Norris, J., J.L. Betancourt, & **S.T. Jackson**. 2016. Late Holocene expansion of Ponderosa pine in the central Rockies. *Journal of Biogeography* 43:778-790.
- Armsworth, P.R., E.R. Larson, **S.T. Jackson**, D.F. Sax, P. Simonin, B. Blossey, N. Green, M.L. Klein, L. Lester, T.H. Ricketts, M.C. Runge & M.R. Shaw. 2015. Are conservation organizations configured for effective adaptation to global change? *Frontiers in Ecology and the Environment* 13:163-169.
- Clark, J.S., L. Iversen, C. Woodall, C.D. Allen, D. Bell, D. Bragg, T. d'Amato, F. Davis, M. Hersh, I. Ibanez, **S.T. Jackson**, S. Matthews, N. Pederson, M. Peters, M. Schwartz, K. Waring, & N. Zimmerman. 2015. The impacts of drought on forest dynamics, structure, and diversity. *National Forest Drought Assessment*.
- Dietl, G.P., S.M. Kidwell, M. Brenner, D.A. Burney, K.W. Flessa, **S.T. Jackson** & P.L. Koch. 2015. Conservation paleobiology: leveraging knowledge of the past to inform conservation and restoration. *Annual Review of Earth and Planetary Science* 43:79-103.
- Jackson, S.T.** & J.L. Blois. 2015. Community ecology in a changing environment: perspectives from the Quaternary. *Proceedings of the National Academy of Sciences* 112:4915-4921.
- Higgs, E., D.A. Falk, A. Guerrini, M. Hall, J. Harris, R.J. Hobbs, **S.T. Jackson**, J. Rhemtulla, & W. Throop. 2014. The changing role of history in restoration ecology. *Frontiers in Ecology and the Environment* 12:499-506.
- Hobbs, R.J., E.S. Higgs, C.M. Hall, P. Bridgewater, F.S. Chapin III, E.C. Ellis, J.J. Ewel, L.M. Hallett, J.A. Harris, K.B. Hulvey, **S.T. Jackson**, P.L. Kennedy, C. Kueffer, L. Lach, T.C. Lantz, A.E. Lugo, J. Mascaro, S.D. Murphy, C.R. Nelson, M.P. Perring, D.M. Richardson, T.R. Seastedt, R.J. Standish, B.M. Starzomski, K.N. Suding, P.M. Tognetti, L. Yakob & L. Yung. 2014. Managing the whole landscape: historical, hybrid, and novel ecosystems. *Frontiers in Ecology and the Environment* 12:557-564.
- Jackson, S.T.**, R.K. Booth, K. Reeves, J.J. Andersen, T.A. Minckley & R.A. Jones. 2014. Inferring local to regional changes in forest composition from Holocene macrofossils and pollen of a small lake in central Upper Michigan, USA. *Quaternary Science Reviews* 98:60-73.
- Mander, L., J. Rodriguez, P.G. Mueller, **S.T. Jackson** & S.W. Punyasena. 2014. Morphometrics of *Picea* pollen from late Quaternary sediments in the Tunica Hills region of southeastern United States: supporting evidence for an extinct spruce species. *Journal of Quaternary Science* 29:711-721.
- Miller, D.M., I.M. Miller, and **S.T. Jackson**. 2014. Biogeography of Late Pleistocene conifer species from the Ziegler Reservoir fossil site, Snowmass Village, Colorado. *Quaternary Research* 82:567-574.
- Miller, I.M., J.S. Pigati, R.S. Anderson, K.R. Johnson, T.A. Ager, R.G. Baker, M. Blaauw, J. Bright, P.M. Brown, B. Bryant, Z.T. Calamari, P.E. Carrara, M.D. Cherney, E.B. Davis, J.R. Demboski, S.A. Elias, D.C. Fisher, R.W. Graham, H.J. Gray, D.R. Haskett, J.S.

- Honke, **S.T. Jackson**, G. Jiménez-Moreno, D. Kline, E.M. Leonard, N.A. Lifton, C. Lucking, S.A. Mahan, H.G. McDonald, B.K. McHorse, D.M. Miller, D.R. Muhs, S.E. Nash, C. Newton, J.B. Paces, L. Petrie, M.A. Plummer, D.F. Porinchu, A.N. Rountrey, E. Scott, J.J.W. Sertich, S.E. Sharpe, G.L. Skipp, L.E. Strickland, R.K. Stucky, R.S. Thompson & J. Wilson. 2014. A high-elevation, multi-proxy biotic and environmental record of MIS6-4 from the southern Rocky Mountains, Colorado, USA. *Quaternary Research* 82: 618-634.
- Pederson, N., A.W. d'Amato, J.M. Dyer, D.R. Foster, D. Goldblum, J.L. Hart, A.E. Hessel, L.R. Iverson, **S.T. Jackson**, D. Martin-Benito, B.C. McCarthy, R.W. McEwan, D.J. Mladenoff, A.J. Parker, D. Peteet, B. Shuman & J.W. Williams. 2014. Climate remains an important driver of post-European vegetation change in the eastern United States. *Global Change Biology*. doi: 10.1111/gcb.12779 .
- Blois, J.L., J.W. Williams, M.C. Fitzpatrick, **S.T. Jackson** & S. Ferrier. 2013. Space can substitute for time in predicting climate-change effects on biodiversity. *Proceedings of the National Academy of Sciences* 110:9374-9379.
- Charman, D., D.W. Beilman, M. Blaauw, R.K. Booth, S. Brewer, F.M. Chambers, J.A. Christen, A. Gallego-Sala, S.P. Harrison, P.D.M. Hughes, **S.T. Jackson**, A. Korhola, D. Mauquoy, F.J.G. Mitchell, I.C. Prentice, M. van der Linden, F. de Vleeschouwer, Z.C. Yu, J. Alm, I.E. Bauer, Y.M. C. Corish, M. Garneau, V. Hohl, E. Karofeld, G. Le Roux, R. Moschen, J.E. Nichols, T.M. Nieminen, G.M. MacDonald, N.R. Phadtare, N. Rausch, O. Sillasoo, G.T. Swindles, E.-S. Tuittila, I. Ukonmaanaho, M. Väliranta, S. van Bellen, B. van Geel, D.H. Vitt & Y. Zhao. 2013. Climate-driven changes in peatland carbon accumulation during the last millennium. *Biogeosciences* 10:929–944.
- Jackson, S.T.** 2013. Humboldt's *Tableau physique* and the dawn of ecology. Pages 216-219 In L. Robin, S. Sörlin, and P. Warde (editors). *The Future of Nature: Documents of Global Change*. Yale University Press.
- Jackson, S.T.** 2013. Natural, potential, and actual vegetation in North America. *Journal of Vegetation Science* 24:772-776.
- Lesser, M.R. & **S.T. Jackson**. 2013. Contributions of long-distance dispersal to population growth in colonizing *Pinus ponderosa* populations. *Ecology Letters* 16:380-389.
- Lesser, M.R., T.L. Parchman & **S.T. Jackson**. 2013. Development of genetic diversity, differentiation and structure over 500 years in four ponderosa pine populations. *Molecular Ecology* 22:2640-2652.
- Liu, Y., Andersen, J.J., J.W. Williams & **S.T. Jackson (corresponding author)**. 2013. Vegetation history in central Kentucky and Tennessee during the last glacial and deglacial period. *Quaternary Research* 79:189-198.
- Thompson, A. & **S.T. Jackson**. 2013. The human influence: moral responsibility for novel ecosystems. Pages 125-150 in R. Sandler and J. Basl (editors). *Designer Biology: The Ethics of Intensively Engineering Biological and Ecological Systems*. Lexington Books.
- Booth, R.K., S. Brewer, M. Blaauw, T.A. Minckley & **S.T. Jackson (corresponding author)**. 2012. Decomposing the mid-Holocene *Tsuga* decline in eastern North America. *Ecology* 93:1841-1852.
- Booth, R.K., **S.T. Jackson**, V.A. Sousa, M.E. Sullivan, T.A. Minckley & M. Clifford. 2012. Multidecadal drought and amplified moisture variability drove rapid forest community change in a humid region. *Ecology* 93:219-226.
- Brewer, S., **S.T. Jackson** & J.W. Williams. 2012. Paleoeoinformatics: applying geohistorical data to ecological questions. *Trends in Ecology and Evolution* 27:104-112.
- Costanza, R., Van der Leeuw, S., K. Hibbard, S. Aulenbach, S. Brewer, M. Burek, S. Cornell, C. Crumley, J. Dearing, C. Folke, L. Graumlich, M. Hegmon, S. Heckbert, **S.T. Jackson**, I. Kubiszewski, V. Scarborough, P. Sinclair, S. Sörlin & W. Steffen. 2012. Developing an Integrated History and future of People on Earth (IHOPE). *Current Opinion in Environmental Sustainability* 4:106-114.
- Djamali, M., A. Baumel, S. Brewer, **S.T. Jackson**, J.W. Kadereit, S. López-Vinyallonga, I.

- Mehregan, A Simakova & E. Shabanian. 2012. Persistence of *Cousinia* Cass. (Asteraceae) through multiple glacial-interglacial cycles: evolutionary implications for the Irano-Turanian flora. *Review of Palaeobotany and Palynology* 172:10-20.
- Djamali, M., S. Brewer, S.W. Breckle & **S.T. Jackson**. 2012. Climatic determinism in phytogeographical regionalization: a case study from the Irano-Turanian region, SW and Central Asia. *Flora* 207:237-249.
- Gill, J.L., J.W. Williams, **S.T. Jackson**, J.P. Donnelly & G.C. Schellinger. 2012. Climatic and megaherbivory controls on late-glacial vegetation dynamics: a new, high-resolution, multi-proxy record from Silver Lake, Ohio. *Quaternary Science Reviews* 34:66-80.
- Goring, S.J., J.W. Williams, J.L. Blois, **S.T. Jackson**, C.J. Paciorek, R.K. Booth, J.R. Marlon, M. Blaauw & J.A. Christen. 2012. Deposition times in the northeastern United States during the Holocene: establishing valid priors for Bayesian age models. *Quaternary Science Reviews* 48:54-60.
- Jackson, S.T.** 2012. Conservation and resource management in a changing world: Extending historical range-of-variability beyond the baseline. Pages 92-109 in J.A. Wiens, G.D. Hayward, H.D. Safford, and C. Giffen (editors). *Historical Environmental Variation in Conservation and Natural Resource Management*. Wiley-Blackwell.
- Jackson, S.T.** 2012. Representation of flora and vegetation in Quaternary fossil assemblages: known and unknown knowns and unknowns. *Quaternary Science Reviews* 49:1-15.
- Lesser, M.R. & **S.T. Jackson**. 2012. Making a stand: five centuries of population growth in colonizing stands of *Pinus ponderosa*. *Ecology* 93:1071-1081.
- Liu, Y., S. Brewer & **S.T. Jackson**. 2012. The effect of temporal density of pollen sampling on age-determination of the mid-Holocene *Tsuga canadensis* (hemlock) decline in eastern North America. *Quaternary Science Reviews* 45:54-59.
- Minckley, T.A., R.K. Booth, & **S.T. Jackson**. 2012. Response of regional pollen assemblages to late Holocene drought events in the Upper Midwest, USA. *The Holocene* 22:531-539.
- Anderson-Carpenter, L.L., J.S. McLachlan, **S.T. Jackson**, M. Kuch, C. Lumibao & H.N. Poinar. 2011. Ancient DNA from lake sediment materials: bridging the gap between paleoecology and genetics. *BMC Evolutionary Biology* 2011 **11**:30. (doi:10.1186/1471-2148-11-30).
- Blois, J.L., J.W. Williams, E.C. Grimm, **S.T. Jackson** & R.W. Graham. 2011. A methodological framework for assessing and reducing temporal uncertainty in paleovegetation mapping from late-Quaternary pollen records. *Quaternary Science Reviews* 30:1926-1939.
- Dawson, T.P., **S.T. Jackson**, J. House, I.C. Prentice & G.M. Mace. 2011. Beyond predictions: biodiversity conservation under climate change. *Science* 332:53-58.
- Lesser, M.R. & **S.T. Jackson**. 2011. Reliability of macrofossils in woodrat (*Neotoma*) middens for detecting low-density tree populations. *Paleobiology* 37:603-615.
- Van der Leeuw, S., R. Costanza, S. Aulenbach, S. Brewer, M. Burek, S. Cornell, C. Crumley, J. Dearing, C. Downy, L. Graumlich, M. Hegmon, K. Hibbard, **S.T. Jackson**, I. Kubiszewski, P. Sinclair, S. Sörlin & W. Steffen. 2011. Toward an integrated history to guide the future. *Ecology and Society* 16(4): 2. <http://dx.doi.org/10.5751/ES-04341-160402>
- Djamali, M., H. Akhiani, V. Andrieu-Ponel, P. Bracconnot, S. Brewer, J.-L. de Beaulieu, D. Fleitmann, J. Fleury, F. Gasse, F. Guibal, **S.T. Jackson**, A.-M. Lézine, M. Médail, P. Ponel, N. Roberts & L. Stevens. 2010. Indian Summer Monsoon variations could have affected the early Holocene woodland expansion in the Near East. *Holocene* 20:813-820.
- Jackson, S.T.** & D. Sax. 2010. Balancing biodiversity in a changing environment: extinction debt, immigration credit, and species turnover. *Trends in Ecology and Evolution* 25:153-160.
- Kaye, M.W., C.A. Woodhouse & **S.T. Jackson**. 2010. Persistence and expansion of Ponderosa pine woodlands in the west-central Great Plains during the past two centuries. *Journal of Biogeography* 37:1668-1683.

- Liu, Y., **S.T. Jackson**, S. Brewer & J.W. Williams. 2010. Assessing antiquity and turnover of terrestrial ecosystems in eastern North America using fossil pollen data: A preliminary study. *IOP Conference Series: Earth and Environmental Science* 9 012005. doi:10.1088/1755-1315/9/1/012005.
- Nichols, J., R.K. Booth, **S.T. Jackson**, E.G. Pendall & Y. Huang. 2010. Differential hydrogen isotopic ratios of *Sphagnum* and vascular plant biomarkers in ombrotrophic peatlands as a quantitative proxy for precipitation-evaporation balance. *Geochimica et Cosmochimica Acta* 74:1407-1416.
- Gill, J.L., J.W. Williams, **S.T. Jackson**, K.B. Lininger & G.S. Robinson. 2009. Pleistocene megafaunal collapse, novel plant communities, and enhanced fire regimes in North America. *Science* 326:1100-1103.
- Jackson, S.T.**, J.L. Betancourt, R.K. Booth & S.T. Gray. 2009. Ecology and the ratchet of events: climate variability, niche dimensions, and species distributions. *Proceedings of the National Academy of Sciences* 106:19685–19692.
- Jackson, S.T.**, S.T. Gray & B.N. Shuman. 2009. Paleoecology and resource management in a dynamic landscape: case studies from the Rocky Mountain headwaters region. Pages 61-80 in *Conservation Paleobiology* (G. Dietl & K.W. Flessa, editors). Paleontological Society Papers Volume 15.
- Jackson, S.T.** & R.J. Hobbs. 2009. Ecological restoration in the light of ecological history. *Science* 325:567-569.
- Bennington, J.B., B. DiMichele, C. Badgley, R. Bambach, P. Barrett, K. Behrensmeier, R. Bobe, R. Burnham, T. Daeschler, J. van Dam, J. Eronen, D. Erwin, S. Finnegan, S. Holland, G. Hunt, D. Jablonski, **S. Jackson**, B. Jacobs, S. Kidwell, P. Koch, M. Kowalewski, C. Labandeira, C. Looy, K. Lyons, P. Novack-Gottshall, R. Potts, P. Roopnarine, C. Strömberg, H. Sues, P. Wagner, P. Wilf & S. Wing. 2009. Paleontological powers of ten: issues of scale in paleoecology. *PALAIOS* 24:1-4.
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Selected Non-Refereed Publications (mostly invited contributions):

- Enquist, C.A.F. & **S.T. Jackson**. 2016. Ensuring coordination among regional climate science programs. *Eos*, 97, doi:10.1029/2016EO043251
- Huston, M.A., A.M. Ellison, D. Frank, **S.T. Jackson**, X. Jiang, M. Lau, J.A. Lockwood, S.D. Prager, D.S. Reiners, W.A. Reiners, E.-D. Schulze, J.H. Vandermeer & P.A. Werner. 2016. External influences on ecological theory. *Bulletin of the Ecological Society of America* 97:311-317.
- Jackson, S.T.** 2016. Reinventing conservation – again. *Frontiers in Ecology and the Environment* 14:519.
- Joppa, L.N., J.W. Boyd, C.S. Duke, S. Hampton, **S.T. Jackson**, K.L. Jacobs, K.-A.S. Kassam, H.A. Mooney, L.A. Ogden, M. Ruckelshaus & J.F. Shogren. 2016. Government: plan for ecosystem services. *Science* 351:1037.
- Jackson, S.T.** 2015. Going where the science matters. *Science* 350:594.
- Hiers, J.K. & **S.T. Jackson**. 2014. In Memoriam: Robert J. Mitchell (1955-2013). *Forest Ecology and Management* 327:269.
- Walls, L.D., **S.T. Jackson** & M.W. Person. 2014. Introduction: reclaiming consilience. Pages 1-14 in S.T. Jackson and L.D. Walls, editors. *Views of Nature, with Scientific Annotations (1849)*. By Alexander von Humboldt (translated by M.W. Person). University of Chicago Press.
- Jackson, S.T.** 2013. Ecological novelty isn't new. Pages 63-65 in R.J. Hobbs, E.S. Higgs & C. Hall, editors. *Novel Ecosystems: When and How Do We Intervene in the New Ecological World Order?* Wiley-Blackwell.
- Conservation Paleobiology Workshop. 2012. *Conservation Paleobiology: Opportunities for the Earth Sciences*. Report to the Division of Earth Sciences, National Science Foundation. Special Publication 41, Paleontological Research Institution, Ithaca, New York. 32 p. (Report Writing Committee: G.P. Dietl, S.M. Kidwell, M.T. Brenner, D.A. Burney, K.W. Flessa, **S.T. Jackson** & P.L. Koch).
- Jackson, S.T.** 2012. Ecosystems: how do ecosystems and associated services respond to climatic change? (Paired “present/past” perspective with Sandra Lavorel.) *PAGES News* 20(1):40-41.
- Jackson, S.T.** 2012. The Quaternary scientist as philosopher. *Quaternary Times (The American Quaternary Association Newsletter)* Spring 2012, pp. 2, 16-17.
- Bridgewater, P., E.S. Higgs, R.J. Hobbs & **S.T. Jackson**. 2011. Engaging with novel ecosystems. *Frontiers in Ecology and the Environment*. 9:423.
- Jackson, S.T.** 2011. Walking through time in the Lake Michigan dunes. *Frontiers in Ecology and the Environment* 9:526-527.
- Jackson, S.T.** 2011. Advice to a young Quaternarist. *Quaternary Times (The American Quaternary Association Newsletter)* Fall 2011, pp. 2, 14-15.
- Jackson, S.T.** 2011. AMQUA at middle age: looking backward and moving forward. *Quaternary Times (The American Quaternary Association Newsletter)* Spring 2011, pp. 1-2.
- Booth, R.K., **S.T. Jackson** & M. Notaro. 2010. Using peatland archives to test paleoclimate hypotheses. *PAGES News* 18(1):6-8.
- Jackson, S.T.** & D. Charman. 2010. Editorial: Peatlands – paleoenvironments and carbon dynamics. *PAGES News* 18(1):3-4.
- Jackson, S.T.** & D. Sax. 2010. Response to “Biodiversity surpluses and deficits are not novel issues”: We agree. *Trends in Ecology and Evolution* 25:621-622.
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- Jackson, S.T.** 2009. Workshop Report: Peatland archives of carbon and climate change, Vihula Manor, Estonia, 17-20 May 2009. *PAGES News* 17(3):127.
- Jackson, S.T.** 2009. INQUA Project 0804: Ombrotrophic peatlands as palaeoenvironmental archives: towards a global network. *Quaternary Perspectives* 17(1):4-6.
- Jackson, S.T.** 2009. Introduction: Humboldt, ecology, and the cosmos. Pages 1-52 in S.T.

- Jackson, editor. *Essay on the Geography of Plants (1807)* by Alexander von Humboldt, & Aimé Bonpland (translated by S. Romanowski). University of Chicago Press.
- Jackson, S.T.** 2008. Climatic variation and change. *Encyclopaedia Britannica OnLine*. (<http://search.eb.com/eb/article-275765>).
- Jackson, S.T.** 2007. Looking forward from the past: history, ecology, and conservation. *Frontiers in Ecology and the Environment* 5:455.
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- Jackson, S.T.** 2006. Forest genetics in space and time. *New Phytologist* 171:1-3.
- Flessa, K.W. and **S.T. Jackson.** 2005. Forging a common agenda for ecology and paleoecology. *BioScience* 55:926-927.
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- Jackson, S.T.** 2004. Paleobiogeography. Pages 5-8 in M. Lomolino and L. Heaney, editors. *Frontiers of Biogeography*. Sinauer Associates.
- Jackson, S.T.** 2001. Integrating ecological dynamics across timescales: real-time, Q-time, and deep-time. *PALAIOS* 16:1-2.
- Jackson, S.T.** 2001. Finding your way back home, or at least learning how it looked: Review of *The Historical Ecology Handbook: A Restorationist's Guide to Reference Ecosystems* (D. Egan & E.A. Howell, editors). *Diversity and Distributions* 7:301-303.
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- Jackson, S.T.** 1991. Modern pollen analysis in a post-modern world: Review of *Textbook of Pollen Analysis* (fourth edition) (K. Faegri, P.E. Kaland, and K. Krzywinski). *Ecology* 72:359-360.

CONTRACTS & GRANTS

Funded Projects as Principal Investigator:

- (2014-2017) “Collaborative Research: Megaherbivore and climatic controls on fire and vegetation dynamics during the last deglaciation.” National Science Foundation (Population and Community Ecology Program), via subcontract from University of Wisconsin. \$290,442
- (2011-2013) “Collaborative Research and NEON: PalEON - a PaleoEcological Observatory Network to assess terrestrial ecosystem models”. National Science Foundation (Macrosystem Biology initiative). \$104,337
- (2011-2012) “Analysis of conifer macrofossils from the Snowmass Site, Colorado.” Snowmastodon Project, Denver Museum of Nature and Science. \$13,424
- (2011) “Research Experience for Undergraduates (REU) Supplement”. National Science Foundation (Ecological Biology Program). \$7500
- (2010-2013) “Collaborative Research: Spatial and temporal dynamics of local extinctions – a 300-year experiment”. National Science Foundation (Population and Community Ecology Program). \$299,691.
- (2010-2011) “Peatlands as Holocene paleoenvironmental archives and carbon reservoirs:

- towards a global network". International Union for Quaternary Research (INQUA). €5000.
- (2009-2010) "Did pre-Columbian societies influence regional ecosystem structure in the southeastern United States?" National Geographic Society, Research and Exploration Grants, \$19,950
- (2009-2011) "Dissertation Research: Spatial and temporal patterns of Ponderosa pine migration." (Co-PI with Mark E. Lesser). National Science Foundation (Population and Evolutionary Processes Program), \$12,747
- (2009) "International Research Workshop: Peatland Archives of Holocene Climate Variability". National Science Foundation (Paleo Perspectives on Climate Change Program), \$26,789
- (2008-2009) "Dynamics of tree encroachment: spatial and temporal patterns of Ponderosa pine expansion". University of Wyoming Agricultural Experiment Station, Competitive Grants Program. \$39,243
- (2008-2009) "International research workshop: Peatland archives of Holocene climate variability". International Union for Quaternary Research (INQUA), \$5000
- (2008-2009) "International research workshop: Peatland archives of Holocene climate variability". International Geosphere-Biosphere Programme (IGBP), Past Global Changes (PAGES), \$5000
- (2007-2011) "Collaborative Research: Integrated analysis of late-glacial vegetation and environments in eastern North America: How do novel plant associations arise?" National Science Foundation (Ecological Biology Program), \$257,854
- (2007-2008) "Genetic and demographic studies of colonizing stands of Ponderosa pine in the central Rockies", Global Forest, \$3000
- (2004-2007) "Climate extremes and episodic invasions: a late Holocene case study from the western Great Lakes region", National Science Foundation (Ecology Program), \$403,276
- (2004-2007) "Collaborative Research: Multiproxy archives of late Holocene climate variability from ombrotrophic peatlands in eastern North America", National Science Foundation (Earth System History Program), \$116,624 (Lead PI & institution; other institutions include University of Wisconsin and Brown University; total award \$316,358)
- (2004-2005) "The influence of climate variability on the expansion of colonizing populations of *Pinus ponderosa* in the Bighorn Basin, Wyoming", Global Forest, \$7,500
- (2004-2005) "Ancient DNA from lake sediments in Upper Michigan". Huron Mountain Wildlife Foundation, \$4,600.
- (2003-2004) "Paleoecology of the Huron Mountains: Late Holocene development of hemlock-hardwoods forest", Huron Mountain Wildlife Foundation, \$8,200
- (2003) "Development of a research collaboration with UNAM-Hermosillo, México", University of Wyoming International Studies Program, \$1,343
- (2002-2003) "Peatland archives of past climate variability in the Greater Yellowstone Ecosystem", University of Wyoming-National Park Service Research Station, \$4,000
- (2001-2003) "Combining modern and paleo-climate data to enhance drought prediction and response", Wyoming Water Research Program, \$59,246
- (2001-2002) "Expansion of Ponderosa pine in northern Wyoming: a consequence of management or natural invasion?", University of Wyoming Agricultural Experiment Station, Competitive Grants Program, \$36,000
- (2000-2001) "Tree-ring reconstructions of paleo-temperature and precipitation regimes in the eastern Yellowstone region", University of Wyoming-National Park Service Research Station, \$4,000
- (1999-2001) "Supplement to DEB-9806574", National Science Foundation (Paleoclimate Program), \$12,500
- (1998-2001) "Collaborative Research: Late Holocene Expansion of Utah Juniper in Wyoming: A Model System for Studying Ecology of Natural Invasions", National Science

- Foundation (Ecology Program), Grant No. DEB-9806574, \$219,687
- (1998-2003) "Development and Dynamics of Coastal Wetlands of Lake Superior", United States Geological Survey, Biological Resources Division, \$262,455
- (1997-1998) "Isotopic composition of aquatic-plant tissues as paleoclimate proxies", National Science Foundation (Paleoclimate Program; Small Grant for Exploratory Research), \$47,187
- (1997-1998) "Vegetation and stable isotopes as paleoclimate proxies", University of Wyoming Research office Faculty Grant-in-aid Program, \$4,933
- (1997-2001) "Analysis and Application of the North American Plant Macrofossil Database", National Oceanic and Atmospheric Administration, Climate and Global Change Program (Paleoclimatology), \$98,715
- (1995-1996) "Research Experience for Undergraduates (REU) Supplement", National Science Foundation (Ecology Program), \$4100
- (1994-1995) "Metzger Marsh Restoration Project: Vegetation composition before Euro-American disturbance", National Biological Service (Great Lakes Science Center), \$5000
- (1994-1995) "Species identification of fossil spruce pollen using scanning electron microscopy", Northern Arizona University Organized Research Committee, \$4748
- (1994-1996) "NAPMD: North American Plant Macrofossil Database", National Oceanic and Atmospheric Administration (Climate and Global Change Program), \$80,000
- (1993-1994) "Research Experience for Undergraduates (REU) Supplement", National Science Foundation (Climate Dynamics Program), \$4000
- (1993-1997) "Vegetation-sensing properties of pollen assemblages", National Science Foundation (Ecology Program) Grant No. DEB-9307055, \$214,403
- (1993-1994) "Species identification of fossil spruce pollen", Northern Arizona University Organized Research Committee, \$8000
- (1992-1993) "Vegetation-sensing properties of fossil pollen assemblages", Northern Arizona University Organized Research Committee, \$9300
- (1991-1994) "Wetland vegetation dynamics in the Lake Michigan basin", National Biological Service (Great Lakes Science Center), Cooperative Agreement 14-16-0009-91-952, \$117,984
- (1991-1992) "Modern pollen assemblages and vegetation patterns on the Kaibab Plateau", Northern Arizona University Organized Research Committee, \$8050
- (1991-1994) "Paleoecological tests of climate model simulations for the past 18,000 years in eastern North America", National Science Foundation (Climate Dynamics Program) Grant No. ATM-9019023, \$178,016
- (1988) "Investigations of modern plant macrofossil assemblages in small ponds in the northeastern United States", New York State Museum, \$2000
- (1986-1988) "Modern pollen-vegetation relationships in small lake basins in northeastern New York", National Science Foundation (Fellowship in Environmental Biology Program) Grant No. BSR-8600182, \$50,400
- (1985) "Plant macrofossil analyses of an interdunal pond in the Lake Michigan dunes", National Park Service (Indiana Dunes National Lakeshore), \$400

Funded Projects as Co-Principal Investigator:

- (2013-2017) "Collaborative Research and NEON: MSB Category 2: PaleON - a PaleoEcological Observatory Network to assess terrestrial ecosystem models." National Science Foundation Macrosystems Biology Program), Co-PI with D.J.P. Moore. \$1,156,450 (\$614,183 to support Jackson's portion of project)
- (2013-2016) "U.S. Scientific Community Engagement in the Intergovernmental Platform on Biodiversity and Ecosystem Services." National Science Foundation (Emerging Frontiers Program). Co-PI with

- C.S. Duke (Ecological Society of America), \$199,395
- (2010-2013) "Modeling the Vegetation of the Past". National Science Foundation (Paleo Perspectives on Climate Change). Co-PI with S.C. Brewer. \$271,541
- (2010-2015) "Geoinformatics: Collaborative Research: Neotoma Paleocology Database, Pliocene-Quaternary". (Co-PI with E.C. Grimm, R.W. Graham, others). National Science Foundation (Geoinformatics Program). \$2,261,194 (no direct funds to S.T. Jackson)
- (2009-2012) "Collaborative Research: Floral and faunal community responses to late Quaternary climate change" (Co-PI with J.W. Williams, E.C. Grimm & R.W. Graham). National Science Foundation (Sedimentary Geology & Paleobiology Program). \$380,700. (no direct funds to S.T. Jackson)
- (2006-2009) "Geoinformatics: Collaborative Research – Late Neogene Terrestrial Ecosystems Database". Co-PI with R.W. Graham (Pennsylvania State University), E.C. Grimm (Illinois State Museum), A. Ashworth (North Dakota State University) & J.W. Williams (University of Wisconsin). National Science Foundation (Earth Sciences Instrumentation & Facilities Program), \$435,010 (no direct funds to S.T. Jackson).
- (2006-2009) "Wyoming NSF EPSCoR Research Infrastructure Improvement". Co-PI with Randolph V. Lewis. National Science Foundation (EPS – Research Infrastructure Improvement Program), \$7,000,000. (S.T. Jackson was responsible for administering the ecology component of this award, amounting to approximately \$4,500,000).
- (2004-2006) "Climate and woodland expansion in the western Great Plains, USA", Co-PI with Margot Kaye (Pennsylvania State University) and Connie Woodhouse (University of Colorado), National Science Foundation (Geography and Regional Science Program), \$150,000 (\$60,731 to UW).
- (2002-2004) "An interdisciplinary study of rates of change in terrestrial ecosystems: linking paleoecology and ecology". Co-PI with S.L. Wing (Smithsonian Institution) and S.P. Hubbell (University of Georgia), Andrew Mellon Foundation, \$67,459.
- (1998-2001) "Acquisition of a stable isotope facility to study terrestrial processes and their interaction with climate and the environment", Co-PI with J.M. Welker, J.I. Drever, S.R. Poulson & W.K. Smith, National Science Foundation (Major Research Instrumentation Program), \$272,880
- (1998-1999) "Acquisition of a stable isotope facility to study terrestrial processes and their interaction with climate and the environment", Co-PI with J.M. Welker and others, University of Wyoming Research Office (Major Equipment Program), \$25,000
- (1995) "Acquisition of a scanning electron microscope", Co-PI with L. Fritz and 7 others (Northern Arizona University), National Science Foundation (Academic Research Infrastructure Program), \$185,010
- (1993) "Workshop to establish a North American data cooperative for plant macrofossils from lake and wetland sediments", Co-PI with R.G. Baker (Univ. Iowa), National Oceanic and Atmospheric Administration (Climate and Global Change Program), \$22,963
- (1989-1991) "Vegetation-sensing properties of pollen and plant macrofossil assemblages: effects of lake size, pollen dispersal, and vegetation pattern", Co-PI with T. Webb III (Brown University), National Science Foundation (Ecology Program) Grant No. BSR-8906486, \$180,133 (proposal written and grant administered by S.T. Jackson)

PROFESSIONAL ACTIVITIES

Office in Professional Societies:

Member-at-Large, Ecological Society of America Governing Board, 2012-2015
 President, American Quaternary Association, 2010-2012
 Chair, Local Host Committee, American Quaternary Association 21st Biennial Meeting, 2010

President-Elect, American Quaternary Association, 2008-2010
 Chair, Program Committee, American Quaternary Association, 20th Biennial Meeting, 2006
 Chair, William S. Cooper Award Committee, Ecological Society of America, 2003-2006
 Publications Committee, Ecological Society of America, 2003-2009
 Executive Council, American Quaternary Association, 2002-2006
 George Mercer Award Committee, Ecological Society of America, 1997-1999
 Organizing Committee, American Quaternary Association 14th Biennial Meeting, 1994-95
 Chair, E.S. Deevey Award Committee, Paleocology Section, Ecological Society of America, 1993
 Executive Council, Ecological Society of America, 1992-93
 Program Committee, Ecological Society of America, 1992-93
 Chair, Paleocology Section, Ecological Society of America, 1992-93
 Chair-Elect, Paleocology Section, Ecological Society of America, 1991-92
 E. S. Deevey Award Committee, Paleocology Section, Ecological Society of America, 1991
 Secretary, Paleocology Section, Ecological Society of America, 1990-91

Editorial Boards:

Board of Reviewing Editors, *Science*, 2016-present
 Editorial Board, *Ecology Letters*, 2013-2015
 Editorial Board, *Trends in Ecology and Evolution (TREE)*, 2011-present
 Editorial Board, *Frontiers in Ecology and Environment*, 2007-2015
 Editorial Board, *Ecosystems*, 2007-2013
 Associate Editor, *Journal of Vegetation Science*, 2006-2009
 Editorial Board, *Diversity and Distributions*, 2001-2006
 Board of Editors, *Ecology*, 1999-2009
 Board of Editors, *Ecological Monographs*, 1999-2009
 Associate Editor, *Wetlands*, 1999-2002
 Editorial Advisory Board, *The New Phytologist*, 1995-1998

Other Editorial Services:

Direct-Submission Editor, *Proceedings of the National Academy of Sciences*, 2013-2015 (7 manuscripts)

Review Panels:

Selection Jury, Aldo Leopold Leadership Program, 2014-2015
 Review Panel, National Science Foundation, Earth System History Program, 2004
 Judging Panel, Paul W. Rodgers Scholarship, International Association for Great Lakes Research, 2003
 Review Panel, National Science Foundation, Earth System History Program, 2003
 Review Panel, Canon National Parks Science Scholars Program (administered by American Association for the Advancement of Science), 2001
 Review Committee, Wyoming Agricultural Experiment Station Competitive Grants Program, 1999

Scientific Advisory Committees:

Co-Chair, Steering Committee for U.S. National Participation in the International Intergovernmental Platform on Biodiversity and Ecosystem (IPBES) (2013-2016)
 Advisory Board, International Quaternary Union (INQUA) Commission on Humans and the Biosphere (2012-2015)

U.S. National Committee for the International Quaternary Union (INQUA), National Research Council (*ex officio*) (2010-2012)
 Scientific Steering Committee, IHOPE (Integrated History and Future of People on Earth) Project of the International Geosphere-Biosphere Programme and the International Human Dimensions Programme on Global Environmental Change (2010-2015)
 Scientific Advisory Board, National Center for Ecological Analysis and Synthesis (NCEAS) (2006-2009)
 Climate Change Subcommittee, National Ecological Observatory Network (NEON) Design Consortium (2005)
 Vice-Chair, Committee on the Geological Record of Biosphere Dynamics, National Research Council (2004-2005)
 Committee on the Geological Record of Biosphere Dynamics, National Research Council (2002-2005)
 Advisory Committee, North American Pollen Database (2004-2007)

Stakeholder Advisory Committees:

Steering Committee, U.S. Department of Agriculture Southwest Climate Hub
 Steering Committee, California Landscape Conservation Cooperative (U.S. Fish & Wildlife Service)
 Steering Committee (*ex officio*), Desert Landscape Conservation Cooperative (Bureau of Reclamation and U.S. Fish & Wildlife Service)
 Steering Committee (*ex officio*), Great Basin Landscape Conservation Cooperative (U.S. Fish & Wildlife Service and Bureau of Land Management)
 Steering Committee (*ex officio*), Southern Rockies Landscape Conservation Cooperative (U.S. Fish & Wildlife Service and Bureau of Reclamation)
 Advisory Committee, Intermountain Adaptation Partnership (U.S. Forest Service)

Promotion, Tenure, and Award Reviews:

University of California-Davis; University of Illinois (endowed chair); Crafoord Prize in Geosciences; University of Wyoming; U.S. Forest Service (Senior Scientist); University of Hawai'i, University of Notre Dame; Stellenbosch University (via National Research Foundation of South Africa); University of Utah (Superior Research Award); University of Iowa; University of Montana; West Virginia University; Brown University; University of Arizona Regents Professorship; University of Florida; University of South Carolina; Emerson College; University of Oregon; Canada Council for the Arts; Stanford University; University of New Mexico (2); University of Alberta; University of Minnesota; Lehigh University; Ministry of Education (China); University of Oxford; University of Ottawa (3); U.S. Geological Survey (Senior Scientist); Florida Institute of Technology; University of California-Riverside (endowed chair)

Other:

Expert Review, Working Group II Contribution to the Intergovernmental Panel on Climate Change (IPCC) Fifth Assessment Report, 2013
 Informal Peer Review, Zero-Order Draft of the Working Group II Contribution to the Intergovernmental Panel on Climate Change (IPCC) Fifth Assessment Report, 2011
 Organizing committee, NSF Workshop on *Conservation Paleobiology*. 2010-2011
 Scientific Steering Committee, *Snowmastodon Project*, Denver Museum of Science and Nature, 2010-12
 Participant, *Integrated History of People on Earth (IHOPE)* working groups, National Center for Ecological Analysis and Synthesis and Stockholm Resilience Centre, 2008-2012
 Co-organizer and co-coordinator, *Neotoma Project* (public global database for Quaternary paleobiology),

2006- 2016

SELECTED PRESENTATIONS (sole or lead presenter; declined invitations excluded)

2017:

- Presenter and speaker, Alfred Russel Wallace Award of the International Biogeography Society to Professor Margaret Bryan Davis, Eighth Biennial Meeting, Tucson. January.
- Co-organizer (with Wolfgang Cramer). Working group on Climate adaptation in Mediterranean ecosystems of the world. XIV MEDECOS meeting, Seville, Spain. February.
- “Translational ecology for climate adaptation – Old wine in new bottles? A new vintage? Does it matter?” Invited talk, special session on ‘Translational climate science: Resource managers and scientists working together in the face of climate change’. National Adaptation Forum, St. Paul, Minnesota. April.
- “Using the past to reinvent conservation for the future”. Keynote lecture, Symposium on Long-term Ecology and Future Planet Earth, University of Bergen, Bergen, Norway. May.
- Lead organizer, Symposium on ‘Bringing Translational Ecology into the Mainstream: Surmounting Barriers, Seizing Opportunities’. Ecological Society of America meeting, Portland, Oregon. August.

2016:

- Workshop on “Evaluating co-produced climate science”. Desert Research Institute, Reno, NV.
- “Ecological novelty, old and new: conservation in a post-normal world”. Harvard University Center for the Environment seminar series.
- New York College of Environmental Science and Forestry, Adaptive Peaks seminar series in the Department of Environmental Science and Forestry.
- “Post-glacial plant migrations: how far, how fast, by what means, under what controls, and why does it matter?” Plenary talk, 24th Biennial meeting, *American Quaternary Association*. Santa Fe, New Mexico.
- “Ecological novelty: old and new”. Symposium on “Novel Ecosystems and Adaptive Management: Sustainability in the Anthropocene.” Ecological Society of America meeting, Fort Lauderdale, Florida.
- Co-organizer and moderator, organized oral session on “Rising Novelty in Ecosystems and Climates: Looking to the Past to Understand a No-Analog Future.” Ecological Society of America meeting, Fort Lauderdale, Florida.
- “Ecological novelty, old and new: conservation in a post-normal world”. Keynote talk, Annual Meeting, Michigan Department of Natural Resources Wildlife Division. Higgins Lake, Michigan.
- “Using translational ecology to accomplish effective resource management and conservation”. Natural Areas Conference, Davis, California.
- Co-organizer, symposium on “How can paleoecology inform conservation in a changing world?” French Ecological Society, Marseille, France.
- “One past, many futures: using history to inform climate-change adaptation”, symposium on “How can paleoecology inform conservation in a changing world?” French Ecological Society, Marseille, France.
- “Using the paleoecological record as a long-term ecological observatory”. Keynote lecture, Symposium on *Centenary 1916-2016: Pollen analysis and the legacy of Lennart von Post*. Royal Swedish Academy of Science, Stockholm, Sweden.
- “Ecological novelty and conservation science: Lessons from the past for the future”. Invited public lecture, Class for Geosciences, Royal Swedish Academy of Science, Stockholm, Sweden.
- “From ships in the night to exchanges in the piazza: Renegotiating the researcher-stakeholder

nexus in climate adaptation.” Invited talk, session on ‘Ensuring coordination and collaboration across climate science entities: toward effective stakeholder engagement for science-informed decisions’. American Geophysical Union Annual Meeting, San Francisco.

2015:

- Plenary speaker: “The fossil record and the future: using the past to assess climate-change vulnerability and adaptation”. *International Biogeography Society 7th Biennial Meeting*, Bayreuth, Germany.
- Plenary speaker and panelist, 4th annual Great Basin Consortium, Boise, Idaho.
- Seminar, Department of Biological Sciences, Northern Arizona University.
- Co-organizer, Symposium and panel discussion on “Federal climate science and adaptation programs in the United States: identifying pathways for synergistic coordination and collaboration”. *National Adaptation Forum*, St. Louis, Missouri.
- “Natural is not enough: Expanding Leopold’s Quadrant in a world of change”, Symposium on “Coupled Natural and Human Systems Science: The Need, Challenges, and Rewards.” *Ecological Society of America Annual Meeting*, Baltimore, Maryland.
- “Biology, chance, and environment: contrasting perspectives on community structure and composition”, Symposium on “External Influences on Ecological Theory:” *Ecological Society of America Annual Meeting*, Baltimore, Maryland.
- Symposium on “Biological Extinctions and Climate Change”. Washington University, St Louis, Missouri.
- Symposium on ‘Biology, Paleobiology, and Conservation’, University of California – Berkeley.
- Lead organizer, Working Group on “Translational Ecology”. National Center for Ecological Analysis and Synthesis.
- Co-organizer, convenor, and closing synthesizer, symposium on ‘Forests in the oven: implications of hotter drought for conservation and management of forest ecosystems in the southwestern U.S.’ 13th Biennial Conference of Science and Management on the Colorado Plateau and Southwest Region. Flagstaff, Arizona.
- Co-organizer and concluding speaker, *Southwest Climate Summit*, Sacramento, California.

2014:

- Seminar, Department of Ecology and Evolutionary Biology, University of Arizona
- Co-organizer and convenor, organized oral session on “Ecological Drought in California Forests: Linking Climate Science and Resource Management”. *Ecological Society of America Annual Meeting*, Sacramento.
- Participant, workshop on “The velocity of natural climate change and species response’, cosponsored by the Grantham Institute for Climate Change, Imperial College London, and Reading University. Reading, England.
- Seminar, Department of Life Sciences, Imperial College London, Silwood Park, England.
- Symposium on *Mountain refugia: how they work, and options for climate adaptation*. MtnClim 2014 Conference, Consortium for Integrated Climate Research in Western Mountains. Midway, Utah.
- Seminar, Energy and Environment Forum, Howard Baker Jr. Center for Public Policy, University of Tennessee.
- Keynote speaker, Phenology Research and Observations of Southwest Ecosystems Symposium (PROSE), Tucson.
- Seminar, Climate, People and Environment Program, University of Wisconsin.
- Invited participant, Scenario-planning workshop on *Alternative Responses to Climate Change in the Adirondack Region*. Paul Smiths College, Paul Smiths, New York.
- Panel discussion, “Revisiting Leopold: Reimagining science in the National Parks”, Western National Parks Association, Tucson.

2013:

- Seminar, Global Change and Sustainability Center, University of Utah
Invited presentation to the National Research Council *Committee on Understanding and Monitoring Abrupt Climate Change*.
- Distinguished Visiting Lecturer, Montana Institute on Ecosystems (dual lecture visit to University of Montana and Montana State University)
- Keynote speaker, Adirondack Research Council 20th annual conference. Lake Placid, New York.
- Panelist, "Climate change and natural resources". *Native American Fish and Wildlife Society* annual meeting, Fort McDowell, Arizona.
- "Time as an ecological dimension: the historical thread in ecological thinking in the 19th and 20th Centuries". Invited talk, Symposium on "Ecology's Recent History". *Ecological Society of America Annual Meeting, Minneapolis*.
- "Seeking Leopold's Quadrant: How do we foster research that addresses needs of resource-management decision-makers?" Invited speaker, symposium on "Implications of Climate Change for Ecosystem Processes in the Southwest U.S.", *Ecological Society of America Annual Meeting, Minneapolis*.
- "Traffic safety at the corner of Ethics and Epistemology". ESA Ignite Session on The Value of Philosophy for Ecology, *Ecological Society of America Annual Meeting, Minneapolis*.
- Panelist, "Linking climate science to resource management", Arizona Planning Association, Scottsdale.
- "History of ecological history in ecological restoration". Invited speaker, symposium on "The history of ecological restoration". *5th World Conference on Ecological Restoration, Madison*. (Presentation canceled owing to federal government shutdown)
- "What's new about ecological novelty?" Invited speaker, symposium on "Novel ecosystems". *5th World Conference on Ecological Restoration, Madison*. (Presentation canceled owing to federal government shutdown)
- Invited speaker and participant, conference on *Conservation and natural resources management in an uncertain future: using the southeastern U.S. as a model for managing change*. Sponsored by the National Science Foundation, U.S. Forest Service, Department of Defense, and the Joseph W. Jones Ecological Research Center. Bainbridge, Georgia.
- "Biodiversity consequences of climate change: lessons from the past, questions for the future". Seminar, School of Natural Resources and Environment, University of Arizona.
- "Looking forward from the past: climate change impacts through the lens of history". Arizona Geological Society annual lecture.

2012:

- Plenary speaker, Ecological Society of America Emerging Issues Conference on *Developing ecologically based conservation targets under global change*. Washington, DC. Sponsored by the Ecological Society of America, National Wildlife Federation, and U.S. Fish & Wildlife Service.
- Seminar, School of Geography, Archaeology, and Palaeoecology. Queen's University, Belfast, Northern Ireland.
- Invited speaker and participant, workshop on "Landscape Planning for the Future." Sponsored by Biodiversity Institute of Oxford, Oxford Martin School, and IGBP PAGES. Oxford, UK.
- Conservation Ecology Seminar Series, Department of Ecology and Evolutionary Biology and School of Natural Resources and Environment, University of Michigan.
- Panel speaker, "How can paleoenvironmental data inform adaptation?" 2nd International Climate Change Adaptation Conference, Tucson.
- Invited speaker and participant, workshop on "Climate sensitivity on decadal to century timescales: implications for civilization." Aspen Global Change Institute, Aspen.
- Invited speaker, symposium on "Forest regeneration and climate change". 4th International Ecosummit. Columbus, Ohio.
- Invited speaker, Symposium on "Preparing for ESA's 2015 Centennial: Why does Understanding

History Matter to Our Future?” Ecological Society of America Annual Meeting. Portland.

Seminar, Natural Resource Ecology Laboratory (NREL) and North-Central Climate Science Center, Colorado State University.

2011:

Invited speaker and panelist, symposium on “Human and Earth History as a Complex System: Theoretical Challenges”. *Resilience 2011: Second International Science and Policy Conference*. Tempe.

Keynote speaker, Symposium on *Ecological responses to climatic change at decadal to millennial timescales: from genes to biomes*. International Union for Quaternary Research XXVIII Congress. Bern, Switzerland.

Invited speaker, symposium on *Shooting at a moving target: Restoration ecology in a changing world*. 4th World Conference on Ecological Restoration of the Society for Ecological Restoration. Mérida, Mexico.

Colloquium talk, School of Earth and Environmental Sciences (joint sponsor, Department of Geosciences), University of Arizona.

Seminar, Department of Ecology and Evolutionary Biology, Brown University.

Co-organizer, Workshop on *Conservation Paleobiology*, Ithaca, New York.

Monthly Climate Change Webinar Series *Safeguarding Wildlife from Climate Change*, jointly sponsored by the US Fish & Wildlife Service and the National Wildlife Federation.

Guest lecture, US Fish & Wildlife Service Short Course on *Resource Management Implications of Global Climate Change*, National Conservation Training Center, Shepherdstown, West Virginia

Workshop on *Novel Ecosystems: When and how do we intervene in the new ecological world order?* Pender Island, British Columbia, Canada.

Co-organizer, Symposium on *Integrating peatland data for past climate and carbon cycle dynamics*. International Union for Quaternary Research XXVIII Congress. Bern, Switzerland.

Invited speaker, Wahlberg Symposium (honoring Prof. Carole Crumley), University of Stockholm.

Workshop on *Ecological and Societal Resilience*. Center of Excellence for Environmental Decisions. Perth, Australia.

Keynote speaker, Annual *Perspectives in Biology* Symposium, Wake Forest University.

Invited participant, Department of the Interior, Deputy Secretary’s National Partners Dialogue on *Establishment and Operation of the USGS National Climate Change and Wildlife Science Center (NCCWSC) and Department of the Interior Climate Science Centers (CSCs)*, Arlington, Virginia.

2010:

Plenary speaker and panelist. National Conservation Leadership Forum. Shepherdstown, West Virginia.

Plenary speaker and panelist. Whitney and Anna Harris World Ecology Center Conservation Forum. Sponsored by the Harris Center, University of Missouri-St. Louis, Missouri Botanical Garden, and St. Louis Zoo. St. Louis, Missouri.

Keynote presentation, workshop on *Novel Ecosystems and Forest Management*. Joseph W. Jones Ecological Research Center, Ichauway, Georgia.

Lead organizer and convenor, symposium on *Ecological Responses to Abrupt Climate Changes: Looking Back to See Ahead*. Ecological Society of America Annual Meeting, Pittsburgh.

Symposium on *Does Biology Matter in Predicting How Species’ Distributions Will Respond to Climate Change?* Ecological Society of America Annual Meeting, Pittsburgh.

Plenary presentation, *National Native Seed Conference*, Snowbird, Utah.

Symposium on Climate Change and Potential Natural Vegetation. *Society for Range Management* annual meeting, Denver.

2009:

- Co-organizer and convener, special session on *Peatlands and the Paleocarbon Cycle and Paleohydrologic Cycle*, American Geophysical Union. San Francisco.
- Seminar, Museum of Vertebrate Zoology, Museum of Paleontology, and Department of Integrative Biology, University of California – Berkeley.
- Plenary speaker and panelist, *Workshop to develop a Global Change Biology Center*, University of California – Berkeley.
- Plenary speaker and discussant, U.S. Department of Energy Program for Ecosystem Research annual investigator and staff meeting. Washington, DC.
- “Cross-Talk” speaker’s series, National Science Foundation Directorates for Geosciences and Biological Sciences. Arlington, Virginia.
- Short Course on *Conservation Paleobiology*. Paleontological Society of America. Portland, Oregon.
- Working Group on Biodiversity and Climate Change*, sponsored by the QUEST Program of the Natural Environment Research Council, the Grantham Institute for Climate Change and the Royal Botanic Gardens, Kew. Kew Gardens, England.
- Symposium on *Indicators of Regime Shifts in Ecological Systems*. Ecological Society of America Annual Meeting, Albuquerque.
- SynTraCE-21000 Workshop 2, Synthesizing Transient Climate Evolution of the last 21,000 years*. National Center for Atmospheric Research (NCAR), Boulder.
- Symposium on *Taphonomic Processes*, North American Paleontological Congress, Cincinnati.
- Lead organizer and convener. *Workshop on Peatland Archives of Climate and Carbon Dynamics*. Sponsored by National Science Foundation, IGBP PAGES, International Quaternary Association, Quaternary Research Association, and University of Tartu. Vihula, Estonia.
- Plenary talk, European Ancient DNA Workshop, Cumbria, England.
- Seminar. Interdisciplinary Program in Quaternary Paleoecology. University of Minnesota. (invited by graduate students)
- Symposium on “Global Change and Paleoecology: Ecological Responses to Environmental Change”. *American Association for the Advancement of Science Annual Meeting*.
- Co-organizer (with Jack Williams and Felisa Smith), International Biogeography Society Symposium on *Extinction Biogeography*. Merida, México.

2008:

- Sackler Colloquium of the National Academy of Sciences on *Biogeography, Changing Climates, and Niche Evolution*. National Academy of Sciences Beckman Center, Irvine, CA.
- “Looking backward and looking forward from the Quaternary”. 54th annual Ermine Cowles Case Memorial Lecture, jointly sponsored by the Museum of Paleontology and the Department of Geological Sciences, University of Michigan, Ann Arbor.
- Seminar, Program in Ecology, Evolution, and Conservation, University of Illinois, Champaign-Urbana.
- 2nd Workshop on *Evolution of Terrestrial Ecosystems*, sponsored by the National Museum of Natural History and the National Science Foundation, Washington, DC.
- Symposium on *Forecasting Future Ecosystem States in a Time of Global Change: From Models to Management*. Ecological Society of America Annual Meeting, Milwaukee.
- Workshop on *Studying Uncertainty in Paleoclimate Reconstruction: A Network (SUPRA-net)*, sponsored by the Leverhulme Trust and the Probability, Uncertainty, Climate, and Modeling Project of the Natural Environment Research Council (Britain). Sheffield, England.
- Climate Change Workshop (sponsored by the U.S. Forest Service, Rocky Mountain Research

Station, Wyoming Game & Fish Department, Wyoming Department of Agriculture, Wyoming Department of Environmental Quality, Wyoming Department of State Lands & Investment). Cheyenne, Wyoming.

U.S. Forest Service Renewable Resources Annual Meeting, Joint Session on Climate Change. Fort Collins, Colorado.

Nature of Life speaker's series, Institute of Ecological Science, Vrije Universiteit, Amsterdam, Netherlands.

Seminar, Department of Plant Biology, University of Vermont.

Seminar, Department of Botany, University of Wyoming.

2007:

Organizer and convener, Special Session GC-19 on "Ecological Responses to Global Change: Coupling Paleoecological Records with Independent Paleoenvironmental Proxies", American Geophysical Union Fall 2007 Meeting, San Francisco.

Seminar, Department of Biological Sciences, University of Notre Dame.

Seminar, Institut Méditerranéen d'Ecologie et de Paléoécologie (IMEP), Europôle de l'Arbois, Aix-en-Provence, France.

Workshop on *Evolution of Terrestrial Ecosystems*, sponsored by the National Museum of Natural History and the National Science Foundation, Washington, DC.

2006:

Workshop on *The Future Range of Variability in Southeastern Ecosystems*, sponsored by the National Commission on Science for Sustainable Forestry (NCSSF). Jones Ecological Research Center, Ichauway, Georgia.

Seminar, Biogeochemistry and Environmental Biocomplexity Program, Cornell University. (invited by graduate students).

Strategic Planning Workshop on Tropical Forest Paleoecology, sponsored by the Center for Tropical Forest Science. Smithsonian Tropical Research Institute, Panama City, Panama.

National Workshop on *Historic and Future Range of Variability in Forest Management*, sponsored by the National Commission on Science for Sustainable Forestry (NCSSF). Corvallis, Oregon.

Seminar, Department of Geophysical Sciences, University of Chicago.

Symposium on *Thermal Physiology as a Biogeographic Determinant: Historical and Mechanistic Perspectives*. Ecological Society of America annual meeting, Memphis.

Program chair, organizer, and convener. Plenary symposium on "Ocean/Atmosphere Interactions and Continental Consequences: Environmental Forecasting from the Quaternary Sciences". American Quaternary Association 19th Biennial Meeting, Bozeman.

Co-Organizer and convener, Special Session on "Peatland Archives of Past Climate Variability", American Geophysical Union Fall 2006 Meeting, San Francisco.

2005:

Workshop on *Global Environmental Change and Biodiversity* (jointly sponsored by DIVERSITAS, TERRACC, and the Tyndall Centre for Climate Change Research), Paris, France.

Symposium on *Species Range Dynamics: Past, Present, and Future*. Ecological Society of America annual meeting, Montreal, Québec.

Plenary speaker and panelist, evening discussion group on "Can we use paleo-data to test ecological hypotheses?" Paleoecology Section, Ecological Society of America annual meeting, Montreal, Québec.

Workshop on *Late Quaternary Paleoclimates of Northern Eurasia*, Exeter, England (sponsored by the Pan-Arctic Initiative (PAIN) of the QUEST (Quantifying and Understanding the Earth System) Program of the Natural Environment Research Council (NERC)).

Plenary speaker, symposium on *Wyoming Vegetation: A 360-Degree View*. Society for Range

Management (Wyoming Chapter) and Soil and Water Conservation Society Annual Meeting, Casper, Wyoming.

Seminar, Smithsonian Tropical Research Institute, Panama City, Panama.

2004:

Seminar, Department of Geology and Geophysics, University of Wyoming.
Wyoming Water Forum, Cheyenne.

Plenary lecture, "*The Dynamic Structure of Life*", Inaugural Symposium for Honorary Professorship of Rob Hengeveld., Institute of Ecological Science, Vrije Universiteit, Amsterdam, Netherlands.

Seminar, Department of Biological Sciences, University of Illinois - Chicago.

Workshop on *Forecasting Dynamics of Global Change Using Plant Functional Traits*, Chateau de la Bretesche, Bretagne, France (sponsored by the Albert & Elaine Borchard Foundation).

Symposium on *Climate Change and Forest Genetics*, Canadian Tree Improvement Association and Western Forest Genetics Association, Kelowna, British Columbia, Canada.

Seminar, Climate, People, and the Environment Program, Center for Climate Research, University of Wisconsin.

2003:

Plenary talk, Inaugural Meeting, *International Biogeography Society*, Mesquite, Nevada.

Symposium on "Disruptions in ancient land ecosystems: lessons from the fossil record".
American Association for the Advancement of Science, Annual meeting, Denver.

Long-Term Ecological Research Network workshop on *Disturbance, Legacy and Disequilibrium: The Way the World Works*. Sevilleta, New Mexico.

Plenary talk, University of Wyoming Conference on Bioinvasions. Laramie, Wyoming.

Symposium on *Functional Ecology and the Assembly of Plant Communities*. Annual meeting, *Ecological Society of America*, Savannah.

Keynote speaker on developments and directions in terrestrial paleoecology, Discussion Session on "The Future of Paleoecology", *Ecological Society of America*, Savannah, Georgia.

Seminar, Instituto de Ecología, Universidad Nacional Autónoma de México, Hermosillo, México.

Seminar, Department of Botany, University of Wyoming.

2002:

"Plenary presentation, Conference on "Ice Age Man in South Carolina - The Allendale-Topper Site Conference" University of South Carolina, Columbia.

Symposium on "Global Climate Change and Wetlands", Society of Wetland Scientists, Lake Placid, New York.

Seminar, Department of Earth and Environmental Sciences, Lehigh University.

Seminar, Department of Paleobiology, National Museum of Natural History, Smithsonian Institution.

Seminar, Department of Botany, Wake Forest University.

Seminar, Department of Botany, University of Georgia.

Seminar, Joseph W. Jones Ecological Research Center, Ichauway, Georgia.

Seminar, Environmental Sciences Division, Oak Ridge National Laboratory, Oak Ridge, Tennessee.

2001:

Workshop on *Forest Management and Global Change: Near-Term Decisions and Long-Term Outcomes*. Aspen Global Change Institute, Aspen, Colorado.

Symposium on "Geographic variation and paleo-inference: a symposium dedicated to Bill Critchfield". Annual Meeting, *Western Forest Genetics Association*, Davis, California.

Seminar, Colloquium in the Life Sciences, Colorado State University.

Seminar, Department of Evolutionary, Population, and Organismal Biology, University of

Colorado.

2000:

Paleontological Society Short Course on *Evolution of Phanerozoic Terrestrial Ecosystems*.

Geological Society of America National Meeting, Reno, Nevada.

Lead organizer and convenor. Workshop on "Dynamics and Management of Juniper Woodlands in the Big Horn Basin". Tensleep Preserve, Tensleep, Wyoming. 8-9 June 2000.

Attended by 18 land managers from USFS, BLM, NPS, Wyoming Fish & Game, The Nature Conservancy, and private ranches.

Special session on Biogeography, *American Geophysical Union* Spring 2000 Meeting, Washington D.C.

Seminar, Lamont-Doherty Earth Observatory, Columbia University.

Seminar, Goddard Institute for Space Science, Columbia University, New York.

Seminar, Department of Biological Sciences, Idaho State University.

Seminar, Department of Renewable Resources, University of Wyoming.

TEACHING EXPERIENCE

University of Wyoming (1995-2012):

Ecology 5100	Ecology as a Scientific Discipline
Ecology 5350	Seminar: Historical Development of Ecological Concepts & Controversies
Ecology 5550	Ecology as a Scientific Profession
Biology 1000	Principles of Biology
Biology 1010	General Biology I
Biology 2020	General Biology II
Botany 1001	Freshman Seminar
Botany 3100	Plants and Civilization
Botany 4790/5790	Quaternary Ecology and Biogeography
Botany 5000	Topical Seminars: The Structure of Evolutionary Theory (2003); Genetics and Quaternary Biogeography (2001); Late Holocene Climate Variability (2000); Quaternary Earth System History (1998); Quaternary Environmental Change in the Western United States (1996)
Botany 5790	Plant Geography
Botany 5795	Alpine and Subalpine Vegetation Dynamics
Univ. Studies 1000	Introduction to University Life

Northern Arizona University (1990-1995)

Bio 226	Principles of Ecology
Bio 226L	Ecology Laboratory
Bio 682	Quantitative Biology
Bio 570	Graduate Seminar: Spatial Data Analysis
Honors 310	Evaluating Biological Theory and Application

Idaho State University (1984-1985)

Bios 203	Introductory Ecology
Bios 421/521	Biology of Non-Vascular Plants
Bios 499/599	Quaternary Paleoecology
Geo 592	Graduate Seminar: Pollen Morphology
Bios 492	Senior Seminar: Nature of Scientific Knowledge

Indiana University (1983-1984):

L100	Introductory Biology: Evolution and Environment
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L105	Introduction to Biology
L465	Advanced Field Biology (So. Indiana (1983), Adirondack Mts. (1984))
L479	Evolution and Ecology
L599	Ecology Seminar: Competition and Community Structure

UNIVERSITY COMMITTEES (Selected, since 1995 only)

University Committees (University of Arizona)

Faculty Advisory Committee, Institute of the Environment, 2012-

University Committees (University of Wyoming):

Chair, President's Task Force on Biodiversity Conservation, 2011

Advisory Committee, Robert and Carol Berry Biodiversity and Conservation Center, 2010-2011

Advisory Committee, Roy J. Shlemon Center for Quaternary Studies, 2009-2012

Provost's Task Force on Graduate Education Processes, 2009-2010

Faculty Advisory Committee, Haub School of the Environment and Natural Resources, 2008-2011

Planning Team, Robert and Carol Berry Center for Natural History and Conservation, 2008-2010

University Climate Change Coordination Committee, 2007-2010

Water-Resources Faculty Forum Committee, 2006-2008

Oversight Committee, Undergraduate Earth System Science Program, 2003-2004

Chair (*ex officio*), Program in Ecology Steering Committee, 2002-2011

Organizer and Chair, *Ad Hoc* Committee for Development of an Interdepartmental Ecology Program, 2002

Earth System Science Program Study Committee, 2000-2001

Graduate School Appeals Board, 2000-2002

Graduate School Council, 1999-2002

University of Wyoming, College of Arts & Sciences:

Climatology Search Committee, Department of Geography, 2004

Promotion and Tenure Review Committee, 1997-98

University of Wyoming, Department of Botany:

Chair, Greenhouse Committee, 2010-2011

Department Head Evaluation Committee, 2008

Chair, Space Committee, 2008-2009

Chair, Forest and Fire Ecology Search Committee, 2004

Plant Population Biology Search Committee, 2003

Chair, Plant Ecophysiology Search Committee, 2000-2001

Botany Department Library Officer, 1999-2002

Botany Departmental Seminar Coordinator 1995-2002, 2005-2006

Faculty Advisor, Botany Club 1995-99

GRADUATE SUPERVISION

Current Graduate Advisees (co-advised with J.T. Overpeck):

Connor Nolan (climate change ecology & paleoclimate) (M.S.; Arizona)

Matthew King (climate change ecology & paleoecology) (PhD.; Arizona)

Graduate Degrees Completed Under My Supervision (9 M.S., 10 Ph.D.):

Jennifer B. Kearsley, 1995, M.S., Biology. Thesis: *Long-term vegetation dynamics of two forest stands in the north-central Adirondack Mountains, New York.*

Darren K. Singer, 1996, M.S., Biology. Thesis: *Autogenic and allogenic influences on long-term vegetation dynamics of a wetland chronosequence in Michigan.*

Chengyu Weng, 1998, Ph.D., Botany. Dissertation: *Species differentiation of Picea in*

- the Quaternary fossil record: analysis and applications in biogeography.* (Professor of Ocean and Earth Science, and Chair of the Department of Marine Geology, Tongji University, Shanghai, China).
- Mark E. Lyford, 2001, Ph.D., Botany. Dissertation: *The roles of dispersal, climate, and topography in the Holocene migration of Utah juniper into Wyoming and southern Montana.* (Academic Professional Lecturer and Director, Life Sciences Program, University of Wyoming).
- Amy Parker Williams, 2001, Ph.D., Botany (co-advised with D. Kazmer, Entomology). Dissertation: *Biological control and remote sensing of leafy spurge in northeastern Wyoming.*
- Regan Dunn, 2003, M.S., Botany. Thesis: *Paleobotanical assessment of the Cretaceous-Paleocene Ferris Formation and the Paleocene Hanna Formation, Hanna Basin, south-central Wyoming.* (Post-doctoral research associate, University of Wyoming).
- Robert K. Booth, 2003, Ph.D., Botany. Dissertation: *Holocene paleoclimate and paleoecology of the western Great Lakes region: relationships among peatland paleohydrology, Great Lakes water levels, and vegetation history.* (Associate Professor of Earth and Environmental Sciences, Lehigh University).
- Stephen T. Gray, 2003, Ph.D., Botany. Dissertation: *Long-term climate variability and its implications for ecosystems and natural resource management in the Central Rocky Mountains.* (Director, USGS Alaska Climate Science Center, Anchorage).
- Jennifer Jewell Andersen, 2004, M.S., Botany. *Patterns of Late Holocene invasion of yellow birch in central Upper Michigan: a new record from the Huron Mountains.* (High school teacher, Laramie, Wyoming)
- Charles Wentzel, 2005, M.S., Botany. *Temporal patterns of expansion of an isolated stand of Ponderosa pine in the Bighorn Basin, Wyoming* (Collections Manager, Museum of Biological Diversity, Ohio State University).
- Jodi Norris, 2006, Ph.D., Botany. Dissertation: *Influence of Climate on the Modern and Late Holocene Biogeography of Ponderosa Pine in the Central Rockies.* (Spatial Ecologist, National Park Service Inventory & Monitoring Program, Flagstaff)
- Kelly Reeves, 2006, M.S., Botany. *Holocene vegetation development of hemlock-hardwoods forests in the Upper Peninsula of Michigan.* (ecologist, The Nature Conservancy, Bend, Oregon).
- Michael Urban, 2008, M.S., Botany. *Forest Responses to Late Holocene Climate Change in North-Central Wisconsin: A Comparative High-Resolution Plant Macrofossil Study of Two Adjacent Lakes.* (Post-doctoral research associate, University of Illinois).
- Rachel Jones, 2010, M.S. Botany. *Transitions in the Ozarks: A Paleoecological Record of the Last Deglaciation at Cupola Pond, Missouri, USA.*
- Mark Lesser, 2011, Ph.D., Ecology. *Spatial and Temporal Patterns of Tree Migration: an Integrated Study of Ponderosa Pine Colonization and Expansion.* (Assistant Professor of Biology, Shepherd University).
- Dane Miller, 2013, M.S. Botany. *Morphometric Analysis of Fossil Conifer Cones from a High-Elevation Late Pleistocene Deposit Near Snowmass Village, Colorado.* (Research assistant at Denver Museum of Nature and Science).
- Rachel Jones, 2014, Ph.D., Ecology. *The Role of Native American Fire Regimes in the Maintenance of Longleaf Pine Savanna.* (Assistant Professor of Biology, University of Science and Arts of Oklahoma).
- Yao Liu, 2014, Ph.D., Ecology. *Vegetation Dynamics in Eastern North America Since the Last Glacial Maximum: Integrating Fossil Pollen Data With Process-based Vegetation Modeling to Test Ecological Hypotheses.* (Postdoctoral scholar at

Northern Arizona University).

POST-DOCTORAL SCHOLARS

- Dr. Christopher L. Fastie, National Science Foundation Post-Doctoral Fellow in Biosciences Related to the Environment, 1996-1998 (Research faculty, Middlebury College)
- Dr. John W. Williams, National Center for Ecological Analysis and Synthesis Post-Doctoral Fellow, 1999-2002 (Bryson Professor of Climate, People, and the Environment, and Professor of Geography, University of Wisconsin)
- Dr. Thomas A. Minckley, Post-Doctoral Research Associate, 2005-2008 (Associate Professor of Geography, University of Wyoming)
- Dr. Simon Brewer, Post-Doctoral Research Associate, 2008- 2011 (Assistant Professor of Geography, University of Utah).
- Dr. Jessica Blois, Post-doctoral Research Associate at University of Wisconsin (I co-advised her with Dr. Jack Williams). 2009-2012. (Assistant Professor of Biological Sciences, University of California – Merced)
- Dr. Morteza Djamali, Visiting Post-doctoral Scholar. 2010. (Currently a research scientist at Institut Méditerranéen d'Écologie et de Paléoécologie (IMEP), France and University of Tehran, Iran)
- Dr. Katie Amatangelo, Post-doctoral Research Associate at Brown University and the University of Wyoming (I co-advised her with Dr. Dov Sax). 2010-2013. (Assistant Professor of Biology, State University of New York – Brockport)
- Dr. Simon Goring, Post-doctoral Research Associate at University of Wisconsin (I co-advise him with Dr. Jack Williams in the NSF PaleON project). 2011-present.
- Dr. Jennifer Marlon, Post-doctoral Research Associate at Yale University. (I sponsored Dr. Marlon's initial collaboration in the NSF PaleON project. She is now a Principal Investigator in the project, and Associate Research Scientist, Yale School of Forestry and Environmental Studies). 2012-2013.
- Dr. Andria Dawson, Post-doctoral Research Associate at University of Arizona and University of California-Berkeley (I co-advise her with Dr. Chris Paciorek and Dr. Jason McLachlan in the NSF PaleON project). 2015-present
- Dr. Teresa Krause, U.S. Geological Survey Post-Doctoral Research Fellow, 2015 – present.