

CURRICULUM VITAE

William K. Michener

Current Positions: University of New Mexico, Albuquerque, NM:
Professor and Director of e-Science Initiatives, University Libraries System;
Director, New Mexico EPSCoR (NSF & DOE Programs) and DataONE;
Special Assistant for National Networks, Office of the Vice President for Research
and Economic Development

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Education:

Ph.D.	1990	Biological Oceanography University of South Carolina, Columbia, SC
M.S.	1980	Entomology, Fisheries, and Wildlife Clemson University, Clemson, SC
B.S.	1977	Zoology Clemson University, Clemson, SC

Research Interests: data, information and knowledge management; cyberinfrastructure
design and specification; ecological and environmental informatics;
design of environmental observatories, research networks, and data
centers

Professional Affiliations: American Association for the Advancement of Science, Coalition for
Networked Information, Federation of Earth Science Information
Partners, Ecological Society of America, International Society for
Ecological Informatics, Sigma Xi

Professional Experience:

2000-present, University of New Mexico

Professor and Director of e-Science Initiatives and Director of DataONE, University Libraries
System (2009-)

Visiting Scientist, CODATA/ICSU, Paris (Jan.-June 2019; Jan.-May 2018); University of
Amsterdam, The Netherlands (Jan.-May 2017); Organization for Tropical Studies, Costa Rica
(Jan.-May 2016); (University of Adelaide, Australia (Jan.-April 2015)

Research Professor, Department of Biology (2007-2009)

Senior Scientist & Associate Director, LTER Network Office (2000-2010)

Special Assistant for National Networks, Office of the Vice President for Research (2006-)

Co-Director, Co-PI and Senior Scientist, NEON Project Office, AIBS, Washington, DC (2004-2006)

Director and PI, Resource Discovery Initiative for Field Stations (2001-2006)

Senior Advisor, NEON, Inc., Washington, DC (2006-2007)

Director and PI, Science Environment for Ecological Knowledge (2002-2008)

Director, New Mexico Experimental Program to Stimulate Competitive Research (NSF & DOE
EPSCoR) (2007-)

Responsibilities include: science administration and project management; long-range strategic and programmatic planning and development; proposal writing; budgeting and personnel oversight; performing original informatics and cyberinfrastructure research; building, sustaining and expanding collaborative relationships with governmental and non-governmental organizations, professional societies, and the international community; organizing training and technology transfer activities; advising stakeholders on science and technology issues; and contributing to the design and implementation of national and regional scale environmental observatory and research networks (e.g., NEON, LTER, WATERS, INDOFLUX).

1999-2000, Program Director (Ecology, Biocomplexity), National Science Foundation

Responsibilities included: administering the Ecology and Biocomplexity Programs; advising the Biological Sciences Directorate on matters and policies regarding science and technology relevant to the environmental sciences; advising the environmental sciences research community on matters pertaining to research and educational opportunities; long-range programmatic planning and development, including organization of workshops and development of new program initiatives; budgeting and personnel oversight; serving as the Division's and Foundation's liaison with other agencies and organizations in matters pertaining to environmental science and technology (e.g., serving on Inter-Agency task forces and working groups including the Biological Data Working Group for the Federal Geographic Data Committee and the Biodiversity and Ecosystem Informatics Working Group); and performing original research in areas related to environmental science and technology.

1993-1999, Associate Scientist, J.W. Jones Ecological Research Center

Performed research in landscape ecology, remote sensing and geographic information systems, and environmental informatics; provided information and technology transfer to the public and the scientific and natural resource management communities; served on state and Federal advisory panels on matters involving environmental research and technology; personnel oversight and committee responsibilities; academic responsibilities included advising graduate students, teaching and seminars for upper division undergraduate and graduate students, and design and implementation of science and technology workshops.

1980-1993, University of South Carolina (Baruch Institute for Marine Biology and Coastal Research):

Research Assistant Professor (1990-1993)

Performed research in landscape ecology, biological oceanography, and environmental informatics; served on university, state and Federal advisory panels on matters involving environmental research and technology; personnel oversight and university committee responsibilities; grant procurement and administration; academic responsibilities included teaching and seminars for upper division undergraduate and graduate students.

Coastal Geographic Information Systems & Research Database Administrator (1984-1990)

Responsibilities involved the design, implementation, and administration of the coastal GIS and research database for the Baruch Institute for Marine Biology and Coastal Research; service on various state and university committees; personnel oversight, budgeting, and grant procurement and administration.

Statistician (1982-1984)

Served as database administrator and data analyst for the Baruch Institute's long-term database; personnel oversight and committee responsibilities; methods development and training.

Research Associate, Program Manager for Coastal Energy Impact Program (1980-1982)

Served as program manager and data analyst for the (State of South Carolina's) Coastal Energy Impact Program; personnel oversight and committee responsibilities; and technical report writing.

Additional Faculty Appointments:

1993-2002, Baruch Associate, University of South Carolina

1996-2003, Adjunct Faculty, Department of Zoology, Auburn University

1995-2006, Graduate Faculty, Institute of Ecology, University of Georgia

1993-1995, Adjunct Faculty, Institute of Ecology, University of Georgia

Publications:

(204 publications including 6 books, 78 scientific articles published or in press, 39 book chapters, 4 book reviews, 10 technical monographs, 37 technical reports, and 30 "popular" articles in magazines and newsletters. Published abstracts as well as papers and book chapters that are in preparation are not included in these totals.)

I. Books (6)

Recknagel, F. and W.K. Michener (eds.). 2017. *Ecological Informatics. Data Management and Knowledge Discovery*. Springer, Heidelberg. (6)

National Research Council (Committee on Integrated Observations for Hydrologic and Related Sciences). 2008. *Integrating Multiscale Observations of U.S. Waters*. The National Academies Press, Washington, DC. (5)

Michener, W.K. and J.W. Brunt. 2000. *Ecological Data: Design, Management and Processing*. Blackwell Science (Methods in Ecology Series), Oxford University Press, UK. 180 pp. (4)

Michener, W.K., J.W. Brunt, and S.G. Stafford (eds.). 1994. *Environmental Information Management and Analysis: Ecosystem to Global Scales*. Taylor & Francis, London, UK. 555 pp. (3)

Michener, W.K., A.B. Miller, and R. Nottrott. 1990. *Long-Term Ecological Research Core Data Set Catalog*. Belle W. Baruch Institute for Marine Biology and Coastal Research, University of South Carolina Press, Columbia, SC. 322 pp. (2)

Michener, W. K. (ed.). 1986. *Research Data Management in the Ecological Sciences*. Belle W. Baruch Library in Marine Science, No. 16. University of South Carolina Press, Columbia, SC. 426 pp. (1)

II. Scientific Articles (78 published)

Hardisty, A.R., W.K. Michener, D. Agosti, E.A. Garcia, L. Bastin, L. Belbin, A. Bowser, P.L. Buttigieg, D.A.L. Canhos, W. Egloff, R. De Giovanni, R. Figueira, Q. Groom, R.P. Guralnick, D. Hobern, W. Hugo, D. Koureas, J. Liqiang, W. Los, J. Manuel, D. Manset, J. Poelen, H. Saarenmaa, D. Schigel, P.F. Uhler, W.D. Kissling. 2019. The Bari Manifesto: An interoperability framework for Essential Biodiversity Variables. *Ecol. Informatics* 49:22-31. <https://doi.org/10.1016/j.ecoinf.2018.11.003> (78)

Gregory, K., S.J. Khalsa, W.K. Michener, F.E. Psomopoulos, A. de Waard, M. Wu. 2018. Eleven quick tips for finding research data. *PLoS Comput Biol* 14(4): e1006038. <https://doi.org/10.1371/journal.pcbi.1006038> (77)

Michener, W.K. 2016. Advances in managing long term ecological research data. *Journal of Ecological Informatics* 36:199-200. (76)

- Michener, W.K. 2015. Ten simple rules for creating a good data management plan. *PLoS Computational Biology* 11(10): e1004525. doi:10.1371/journal.pcbi.1004525. (75)
- Michener, W.K. 2015. Ecological data sharing. *Journal of Ecological Informatics* 29:33-44, doi:10.1016/j.ecoinf.2015.06.010 (74)
- Hampton, S.E., Anderson, S.S., Bagby, S.C., Gries, C., Han, X., Hart, E.M., Jones, M.B., Lenhardt, W.C., MacDonald, A., Michener, W.K., Mudge, J., Pourmokhtarian, A., Schildhauer, M., Woo, K.H., Zimmerman, N., 2015. The Tao of Open Science for Ecology. *Ecosphere* 6:art120. <http://dx.doi.org/10.1890/ES14-00402.1>. (73)
- Kintigh, K.W., J.H. Altschul, A.P. Kinzig, W.F. Limp, W.K. Michener, J.A. Sabloff, E.J. Hackett, T.A. Kohler, B. Ludäscher, and C.A. Lynch. 2015. Cultural dynamics, deep time, and data: Planning cyberinfrastructure investments for archaeology. *Advances in Archaeological Practice* 3(1):1-15. DOI: 10.7183/2326-3768.3.1.1 (72)
- Wilson, A., R. Downs, W. Lenhardt, C. Meyer, W. Michener, H. Ramapriyan, and E. Robinson. 2014. Realizing the value of a national asset: Scientific data, *Eos Trans. AGU*, 95(50), 478-478, doi:10.1002/2014EO500006. ACM International Conference on Supporting Groupwork (GROUP) 2014, Sanibel Island, FL, USA. DOI: 10.1145/2660398.2660406 (71)
- Tuberville, T.D., B.D. Todd, S.M. Hermann, W.K. Michener, and C. Guyer. 2014. Survival, demography, and growth of gopher tortoises (*Gopherus polyphemus*) from three sites with different management histories. *The Journal of Wildlife Management* 78:1151-1160. DOI: 10.1002/JWMG.773 (70)
- Kintigh, K.W., J.H. Altschul, M.C. Beaudry, R.D. Drennan, A.P. Kinzig, T.A. Kohler, W.F. Limp, H.D.G. Maschner, W.K. Michener, T.R. Pauketat, P. Peregrine, J.A. Sabloff, T.J. Wilkinson, H.T. Wright, and M.A. Zeder. 2014. Grand Challenges for Archaeology. *PNAS* 111(3):879-880 (69)
- Kintigh, K.W., J.H. Altschul, M.C. Beaudry, R.D. Drennan, A.P. Kinzig, T.A. Kohler, W.F. Limp, H.D.G. Maschner, W.K. Michener, T.R. Pauketat, P. Peregrine, J.A. Sabloff, T.J. Wilkinson, H.T. Wright, and M.A. Zeder. 2014. Grand Challenges for Archaeology. *Am. Antiquity* 79(1):5-24. (68)
- Costello, M.J., W.K. Michener, M. Gahegan, Z-Q. Zhang, and P. Bourne. 2013. Biodiversity data should be published, cited and peer-reviewed. *Trends in Ecology & Evolution* 28:454-461. <http://dx.doi.org/10.7191/jeslib.2013.1024> (67)
- Littauer, R., K. Ram, B. Ludaescher, W. Michener, and R. Koskela. 2012. Trends in use of scientific workflows: insights from a public repository and recommendations for best practice. *International Journal of Digital Curation* 7:92-100. (66)
- Bendix, J., J. Nieschulze, and W.K. Michener. 2012. Data platforms in integrative biodiversity research. *Ecological Informatics* 11:1-4. (65)
- Michener, W.K., S. Allard, A. Budden, R.B. Cook, K. Douglass, M. Frame, S. Kelling, R. Koskela, C. Tenopir, and D. Vieglais. 2012. Participatory design of DataONE—Enabling cyberinfrastructure for the biological and environmental sciences. *Ecological Informatics* 11:5-15. (64)
- Michener, W.K. and M.B. Jones. 2012. Ecoinformatics: supporting ecology as a data-intensive science. *Trends in Ecology & Evolution* 27:85-93. (63)
- Michener, W.K., J. Porter, M. Servilla, and K. Vanderbilt. 2011. Long term ecological research and information management. *Ecological Informatics* 6:13-24. (62)
- Michener, W., D. Vieglais, T. Vision, J. Kunze, P. Cruse, and G. Janee. 2011. DataONE: Data Observation Network for Earth – Preserving data and enabling innovation in the biological and environmental sciences. *D-Lib Magazine* 17 (January/February 2011). doi:10.1045/january2011-michener (61)
- Johnson, V.M., C. Guyer, S.M. Hermann, J. Eubanks, and W.K. Michener. 2009. Patterns of dispersion and burrow use support scramble competition polygyny in *Gopherus polyphemus*. *Herpetologica* 65:214-218. (60)

- Michener, W., K. Bildstein, A. McKee, R. Parmenter, W. Hargrove, D. McClearn, and M. Stromberg. 2009. Biological field stations: research legacies and sites for serendipity. *BioScience* 59:300-310. (59)
- Brunt, J.W. and W.K. Michener. 2009. The Resource Discovery Initiative for Field Stations: Enhancing Data Management at North American Biological Field Stations. *BioScience* 59:482-487. (58)
- Pennington, D.D., W.K. Michener, S. Katz, L. Downey, and M. Schildhauer. 2008. Transforming scientists through technical education: a view from the trenches. *Computing in Science and Engineering Magazine* 10:28-33. (57)
- Peters, D.P.C., P.M. Groffman, K.J. Nadelhoffer, N.B. Grimm, S.L. Collins, W.K. Michener, M.A. Huston. 2008. Living in an increasingly connected world: a framework for continental-scale environmental science. *Frontiers in Ecology and the Environment* 5:229-237. (56)
- Sundareshwar, P.V., R. Murtugudde, G. Srinivasan, S. Singh, K.J. Ramesh, R. Ramesh, S.B. Verma, D. Agarwal, D. Baldocchi, C.K. Baru, K. K. Baruah, G.R. Chowdhury, V. K. Dadhwal, C. B. S. Dutt, J. Fuentes, P.K. Gupta, W.W. Hargrove, M. Howard, C. S. Jha, S. Lal, W. K. Michener, A. P. Mitra, J. T. Morris, R.R. Myneni, M. Naja, R. Nemani, R. Purvaja, S. Raha, S.K. Santhana Vanan, M. Sharma, A. Subramaniam, R. Sukumar, R. Twilley, and P.R. Zimmerman. 2007. Environmental monitoring network for India. *Science* 316:204-205. (55)
- Zhang, J., D.D. Pennington, and W.K. Michener. 2007. Performance evaluations of geospatial web services composition and invocation. IEEE International Conference on Web Services: 1128-1135. (54)
- Michener, W. 2006. Meta-information concepts for ecological data management. *Ecological Informatics* 1:3-7. (53)
- Michener, W.K., J.H. Beach, M.B. Jones, B. Ludaescher, D.D. Pennington, R.S. Pereira, A. Rajasekar and M. Schildhauer. 2007. A knowledge environment for the biodiversity and ecological sciences. *Journal of Intelligent Information Systems* 29:111-126. (52)
- Simkin, S.M. and W.K. Michener. 2005. Faunal soil disturbance regime of a longleaf pine ecosystem. *Southeastern Naturalist* 4:133-152. (51)
- Birkhead, R.D., C. Guyer, S.M. Hermann, and W.K. Michener. 2005. Patterns of folivory and seed ingestion by gopher tortoises (*Gopherus polyphemus*) in a Southeastern pine savanna. *The American Midland Naturalist* 154:143-151. (50)
- Gagnon, P.M., S.W. Golladay, W.K. Michener, and M.C. Freeman. 2004. Drought responses of freshwater mussels (Unionidae) in Coastal Plain tributaries of the Flint River Basin, Georgia. *Journal of Freshwater Ecology* 19(4):667-679. (49)
- Simkin, S.M. and W.K. Michener. 2004. Mound microclimate, nutrients and seedling survival. *American Midland Naturalist* 152:12-24. (48)
- Boglioli, M., C. Guyer and W.K. Michener. 2003. Mating opportunities of female gopher tortoises, *Gopherus polyphemus*, in relation to spatial isolation of females and their burrows. *Copeia* 2003:846-850. (47)
- Hale, S.S., A.H. Miglarese, M.P. Bradley, T.J. Belton, L.D. Cooper, M.T. Frame, C.A. Friel, L.M. Harwell, R.E. King, W.K. Michener, D.T. Nicolson and B.G. Peterjohn. 2003. Managing troubled data: coastal data partnerships smooth data integration. *Environmental Monitoring and Assessment* 81:133-148. (46)
- Birkland, T.A. R.J. Burby, D. Conrad, H. Cortner and W.K. Michener. 2003. River ecology and flood hazard mitigation. *Natural Hazards Review* 4(1):46-54. (45)
- Eubanks, J.O., J.W. Hollister, C. Guyer, and W.K. Michener. 2002. Reserve area requirements for gopher tortoises (*Gopherus polyphemus*). *Chelonian Conservation and Biology* 4(2):464-471. (44)
- Eubank, J.O., W.K. Michener, and C. Guyer. 2003. Patterns of movement and burrow use in a population of gopher tortoises (*Gopherus polyphemus*). *Herpetologica* 59:311-321. (43)

- Michener, W.K., T.J. Baerwald, P. Firth, M.A. Palmer, J.L. Rosenberger, E.A. Sandlin, and H. Zimmerman. 2001. Defining and unraveling biocomplexity. *BioScience* 51:1018-1023. (42)
- Simkin, S.M., W.K. Michener, and R. Wyatt. 2001. Plant response following soil disturbance in a longleaf pine ecosystem. *Journal of the Torrey Botanical Society* 128:208-218. (41)
- Ott, J.A., M.T. Mendonca, C. Guyer, and W.K. Michener. 2000. Seasonal changes in sex and adrenal steroid hormones of gopher tortoises (*Gopherus polyphemus*). *General & Comparative Endocrinology* 117:299-312. (40)
- Houhoulis, P.F. and W.K. Michener. 2000. Detecting wetland change: a rule-based approach using NWI and SPOT-XS data. *Photogrammetric Engineering & Remote Sensing* 66:205-211. (39)
- Conner, L.M., J.L. Landers, and W.K. Michener. 1999. Fox and gray squirrel associations within minimally disturbed longleaf pine forests. *Proceedings of the Southeastern Association of Fish and Wildlife Agencies* 53:364-374. (38)
- Palik, B.J., W.K. Michener, R.J. Mitchell, and D. Edwards. 1999. The effects of landform and plant size on mortality and recovery of longleaf pine during a 100-year flood. *Ecoscience* 6:255-263. (37)
- Haeuber, R.A. and W.K. Michener. 1998. Natural flood control. *Issues in Science and Technology* 15:74-80. (36)
- Michener, W.K., E.R. Blood, J.B. Box, C.A. Couch, S.W. Golladay, D.J. Hippe, R.J. Mitchell, and B.J. Palik. 1998. Tropical storm flooding of a Coastal Plain landscape. *BioScience* 48:696-705. (35)
- Haeuber, R.A. and W.K. Michener. 1998. Policy implications of recent natural and managed floods. *BioScience* 48:765-772. (34)
- Michener, W.K. and R.A. Haeuber. 1998. Flooding: natural and managed disturbances. *BioScience* 48:677-680. (33)
- Michener, W.K., J.B. Atkinson, P.F. Houhoulis, P.F. Johnson, R.N. Smith, and D.G. Edwards. 1998. Northern bobwhite quail: responses to landscape configuration. Pages 377-386 in: *Technical Papers of the 1998 Annual Conference of ASPRS – RTI*. American Society for Photogrammetry and Remote Sensing, Bethesda, MD. (32)
- Houhoulis, P.F. and W.K. Michener. 1998. Criteria for determining wetland change using NWI and SPOT-XS data. Pages 933-941 in: *Technical Papers of the 1998 Annual Conference of ASPRS – RTI*. American Society for Photogrammetry and Remote Sensing, Bethesda, MD. (31)
- Michener, W.K. 1997. Quantitatively evaluating restoration experiments: research design, statistical analysis, and data management considerations. *Restoration Ecology* 5(4):324-337. (30)
- Houhoulis, P.F. and W.K. Michener. 1997. Differential landscape-scale responses to floods and droughts. *Proceedings ACSM/ASPRS* 2:332-336. (29)
- Michener, W.K. and P.F. Houhoulis. 1997. Detection of vegetation changes associated with extensive flooding in a forested ecosystem. *Photogrammetric Engineering & Remote Sensing* 63:1363-1374. (28)
- Michener, W.K., J.W. Brunt, J. Helly, T.B. Kirchner, and S.G. Stafford. 1997. Non-geospatial metadata for the ecological sciences. *Ecological Applications* 7:330-342. (27)
- Michener, W.K., E.R. Blood, K.R. Bildstein, M.M. Brinson, and L.R. Gardner. 1997. Climate change, hurricanes and tropical storms, and rising sea level in coastal wetlands. *Ecological Applications* 7:770-801. (26)
- Gardner, L.R., W.K. Michener, T.M. Williams, E.R. Blood, B. Kjerfve, L.A. Smock, D.J. Lipscomb, and C. Gresham. 1996. Disturbance effects of Hurricane Hugo on a pristine coastal landscape: North Inlet, South Carolina, USA. Pages 226-243 in: Haymond, J.L. and W.R. Harms (eds.). *Hurricane Hugo: South Carolina forest land research and management related to the storm*. Gen. Tech. Rep. SRS-5. U.S. Department of Agriculture, Forest Service, Southern Research Station, Asheville, NC. (25)

- Michener, W.K. and P.F. Houhoulis. 1996. Identification and assessment of natural disturbances in forested ecosystems: the role of GIS and remote sensing. In: *Third International Conference/Workshop on Integrating GIS and Environmental Modeling*. National Center for Geographic Information and Analysis. CD-ROM, internet address http://www.ncgia.ucsb.edu/-conf/santa_fe.html. (24)
- Houhoulis, P.F. and W.K. Michener. 1996. Detection of vegetation changes associated with Tropical Storm Alberto in a longleaf pine-wiregrass ecosystem. *Proceedings ASPRS* 1:99-108. (23)
- Michener, W.K., J.W. Brunt, and W.H. Jefferson. 1995. New techniques for monitoring American oyster (*Crassostrea virginica*) recruitment in the intertidal zone. *ICES Marine Science Symposium* 199:267-273. (22)
- Michener, W.K., E.R. Blood, S.W. Golladay, L.K. Kirkman, R.J. Mitchell, and B.J. Palik. 1995. Effects of flooding on the longleaf pine-wiregrass ecosystem. Pages 190-193 in: Hatcher, K.J. (ed.). *Proceedings of the 1995 Georgia Water Resources Conference*. (21)
- Cablk, M.E., B. Kjerfve, W.K. Michener, and J. Jensen. 1994. Impacts of Hurricane Hugo on a coastal forest: assessment using Landsat TM data. *Geocarto International* 9(2):15-24. (20)
- Vernberg, F.J., W.B. Vernberg, E. Blood, A. Fortner, M. Fulton, H. McKellar, W. Michener, G. Scott, T. Siewicki, and K. El Figi. 1992. Impacts of urbanization on high salinity estuaries in the Southeastern United States: a comparative ecosystem study. *Netherlands Journal of Sea Research* 30:239-248. (19)
- Gardner, L.R., W.K. Michener, T.M. Williams, E.R. Blood, B. Kjerfve, L.A. Smock, D.J. Lipscomb, and C. Gresham. 1992. Geomorphological and ecological impacts of Hurricane Hugo on a coastal landscape: North Inlet, South Carolina, USA. *Netherlands Journal of Sea Research* 30:249-263. (18)
- Gardner, L.R., B.R. Smith, and W.K. Michener. 1992. Soil evolution along a forest-salt marsh transect under a regime of slowly rising sea level, southeastern United States. *Geoderma* 55:141-157. (17)
- Michener, W.K., W.H. Jefferson, D.A. Karinshak, and D. Edwards. 1992. An integrated geographic information system, global positioning system, and spatio-statistical approach for analyzing ecological patterns at landscape scales. *GIS/LIS '92 Proceedings* 1:564-575. (16)
- Michener, W.K. and P.D. Kenny. 1991. Spatial and temporal patterns of *Crassostrea virginica* (Gmelin) recruitment: relationship to scale and substratum. *Journal of Experimental Marine Biology and Ecology* 154:97-121. (15)
- Jefferson, W.H., W.K. Michener, D.A. Karinshak, W. Anderson, and D.E. Porter. 1991. Developing GIS data layers for estuarine resource management. *GIS/LIS '91 Proceedings* 1:331-342. (14)
- Michener, W.K., E.R. Blood, L.R. Gardner, B. Kjerfve, M. Cablk, C. Coleman, W.H. Jefferson, D.A. Karinshak, and F.D. Spoon. 1991. GIS assessment of large-scale ecological disturbances (Hurricane Hugo, 1989). *GIS/LIS '91 Proceedings* 1:343-355. (13)
- Haddad, K. and W. Michener. 1991. Design and implementation of a coastal resource geographic information system: administrative considerations. Pages 1958-1967 in: *Proc., Coastal Zone '91 Conference. Seventh Symposium on Coastal and Ocean Management/ASCE*. (12)
- Michener, W.K., W.H. Jefferson, D.A. Karinshak, and C. Gilbert. 1991. Incorporating global positioning system technology into coastal mapping and research efforts. Pages 332-346 in: *Proc., Coastal Zone '91 Conference. Seventh Symposium on Coastal and Ocean Management/ASCE*. (11)
- Gardner, L.R., W.K. Michener, B. Kjerfve, and D.A. Karinshak. 1991. The geomorphic effects of Hurricane Hugo on an undeveloped coastal landscape at North Inlet, SC. *Journal of Coastal Research* 8:181-186. (10)
- Gardner, L.R., W.K. Michener, T.M. Williams, E.R. Blood, B. Kjerfve, L.A. Smock, and D.J. Lipscomb. 1991. Ecological impacts of hurricane Hugo on a coastal landscape: North Inlet, South Carolina, U.S.A. *Journal of Coastal Research* 8:301-317. (9)
- Michener, W.K., D.M. Allen, E.R. Blood, T.A. Hiltz, B. Kjerfve, and F.H. Sklar. 1990. Climatic variability and salt marsh ecosystem response: relationship to scale. Pages 27-37 in: *Climate Variability*

and Ecosystem Response: *Proceedings of a Long-term Ecological Research Workshop*. Gen. Tech. Rep. SE-65. U.S. Department of Agriculture, Forest Service, Southeastern Forest Experiment Station, Asheville, NC. (8)

Kenny, P.D., W.K. Michener, and D.M. Allen. 1990. Temporal and spatial patterns of oyster settlement in a high salinity estuary. *Journal of Shellfish Research* 9(2):329-339. (7)

Michener, W.K., D. Cowen, and L. Shirley. 1989. Geographic information systems and remotely sensed data for coastal research and resource management. Pages 4791-4805 in: *Proc. of Sixth Symp. on Coastal and Ocean Management/ASCE*. (6)

Vernberg, F.J. in collaboration with W.K. Michener and others. 1989. Long-term ecological research on the North Inlet forest-wetlands-marine landscape, Georgetown, SC. Pages 53-76 in: *Barrier Island/Salt Marsh Estuaries of the Southeast Atlantic Ocean: Issues, Resources, Status and Management*. NOAA Estuary-of-the-Month Seminar Series. No. 12. U.S. Dept. of Commerce. (5)

Michener, W.K., R.A. McLaughlin, and M.F. Marozas. 1985. Development of a data management system for long-term ecological research. Pages 468-473 in: *Proceedings of the Tenth Annual SAS Users Group International Conference*. SAS Institute, Cary, NC. (4)

Eversole, A.G., W.K. Michener, and P.J. Eldridge. 1984. Gonadal condition of hard clams in a South Carolina estuary. *Proc. Annual Conf. Southeast. Assoc. Fish and Wildl. Agencies* 38:495-505. (3)

Michener, W.K. and A.G. Eversole. 1983. Age, growth, and sex ratio of American eels in Charleston Harbor, South Carolina. *Proc. Annual Conf. Southeast. Assoc. Fish and Wildl. Agencies* 37:422-431. (2)

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III. Book Chapters: Published or In Press (39)

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Research Funding:

(51 independently awarded grants totaling \$ 158,137,488) [NOAA—National Oceanic and Atmospheric Administration; NSF—National Science Foundation; USDA—U.S. Department of Agriculture; USGS—U.S. Geological Survey/Department of the Interior]

- 2018-2023 The New Mexico SMART Grid. NSF EPSCoR (OIA-1757207) award to W.K. Michener and A. Jakle. \$20,000,000. (51)
- 2014-2019 DataONE. \$15,000,000. NSF Advanced Cyberinfrastructure Program (ACI-1430508). (50)
- 2013-2017 Western Center for Watershed Analysis and Visualization (WC-WAVE). NSF EPSCoR Track 2 award to G. Dana (Nevada), P. Goodwin (Idaho), and W.K. Michener. \$6,000,000. (49)
- 2013-2018 Energize New Mexico. NSF EPSCoR award to W.K. Michener and M.J. Daniel. \$20,000,000. (48)
- 2012-2013 Conceptualizing an Institute for Sustainable Earth and Environmental Software (ISEES). NSF award to M.B. Jones, P. Fox, C.B. Meyer, M.D. Schildhauer, and W.K. Michener. \$582,660. (47)
- 2012-2017 USGS Earth Science Data Information. USGS Award No. G12AC20173. \$65,000. (46)
- 2010-2011 Valles Caldera, a grand land experiment: Communicating climate change research to public audiences. (Co-PI with Anthony Tiano) NSF (DRL). \$150,000. (45)
- 2010-2012 C2: Improving broadband connectivity for regional and tribal colleges in New Mexico. NSF (EPS). \$1,176,470. (44)
- 2010-2011 Center for Research in Ecological Studies and Technology. USGS. \$176,585. (43)
- 2009-2012 Collaborative Research: Cyberinfrastructure development in the western consortium of Idaho, Nevada, and New Mexico. (Co-PI with Gayle Dana (NV) and Peter Goodwin (ID)) NSF (EPS). \$6,000,000. (42)
- 2009 – 2014 Long Term Ecological Research Network Office. (co-PI with R. Waide, J. Brunt, and J.R. Vande Castle) NSF. \$15,662,179. (41)
- 2008 – 2012 DataNet Full Proposal: DataNetONE (Observation Network for Earth). NSF. \$19,999,742. (40)
- 2008 – 2011 A digital repository for preservation and sharing of data underlying published works in evolutionary biology. Duke University (NSF flow from Duke to UNM \$100,468). NSF-BIO. \$2,200,000. (39)
- 2008 – 2013 New Mexico EPSCoR RII3: climate change impacts on New Mexico's mountain sources of water. NSF. \$15,000,000. (38)
- 2008 – 2012 INTEROP: Creation of an international virtual data center for the biodiversity, ecological and environmental sciences. NSF. \$749,739. (37)
- 2006 – 2007 Design of the NEON measurement book. NEON, Inc. \$211,668. (36)
- 2004 – 2006 Development of the NEON Coordinating Consortium (NCC) and Project Office. NSF. \$6,000,000. (35)
- 2004 – 2008 The National Biological Information Infrastructure: LTER/SEEK collaboration. USGS. \$578,614. (34)
- 2003 – 2006 The New Mexico Bioscience Center for Informatics. (co-PI with T. Yates and others) DARPA. \$1,429,952. (33)
- 2003 – 2006 Ecoinformatics outreach and training. Mellon Foundation. \$150,000. (32)

- 2003 – 2005 Environmental cyberinfrastructure needs for distributed sensor networks. NSF. \$109,821. (31)
- 2002 - 2009 A proposal for the Network Office of the U.S. LTER Program. (co-PI with R. Waide, J. Brunt, and J.R. Vande Castle) NSF. \$8,100,000. (30)
- 2002 - 2007 Enabling the Science Environment for Ecological Knowledge. (co-PI with J. Brunt, D. Pennington, K. Vanderbilt, R. Waide, and others) NSF. \$12,250,000. (29)
- 2001 - 2006 The Resource Discovery Initiative for Field Stations. NSF. \$500,000. (28)
- 1998 - 2000 Interdisciplinary synthesis of recent natural and managed floods. (co-PI with R. Haeuber) National Center for Ecological Analysis and Synthesis. \$50,000. (27)
- 1998 - 2001 Impacts of human land use on natural habitats and nongame wildlife species in the Flint River basin. (co-PI with M. Connor) Georgia Department of Natural Resources. \$135,000. (26)
- 1997 - 1999 Data and information management in the ecological sciences. (co-PI with J. Gosz, A. McKee, and J. Porter) NSF (Biological Database Activities). \$45,000. (25)
- 1997 A test of alternative methods for restoring gopher tortoise populations. (co-PI with C. Guyer, J. Atkinson, R. Mitchell, J. Ott, and R. Smith) U.S. Fish and Wildlife Service. \$3,500. (24)
- 1996 - 1998 A landscape approach to protecting water quality in the southeastern Coastal Plain. (co-PI with G. Vellidis, C. Kvien, D. Thomas, E. Blood, and others) USDA (CSRRES). \$851,928. (23)
- 1995 - 1996 Effects of flooding on the longleaf pine-wiregrass ecosystem. (co-PI with E.R. Blood, S.W. Golladay, L.K. Kirkman, R.J. Mitchell, and B.J. Palik) NSF (Ecology). \$35,000. (22)
- 1994 - 1999 Landscape ecology of the longleaf pine-wiregrass ecosystem: research and GIS/remote sensing development. Robert W. Woodruff Foundation. \$700,319. (21)
- 1992 - 1994 Geographic database for the salt marsh ecosystems of the southeastern United States. (co-PI with F.J. Vernberg, B. Kjerfve, A. Chalmers, J. Alberts, R. Welch, and M. Remillard) NSF (Biological Database Activities). \$275,000. (20)
- 1992 - 1994 International research data management training: a proof of concept prototype course for CERN. (co-PI with J. Gosz, J. Brunt, S. Stafford, B. Benson) NSF (International Program). \$68,269. (19)
- 1992 - 1994 Environmental information management and analysis: ecosystem to biosphere scales. (co-PI with J.W. Brunt and S. Stafford) NSF (Biological Database Activities). \$70,000. (18)
- 1992 - 1993 LTER supplement for significant upgrading of the Baruch Data Management System and connectivity, research experiences for undergraduates and completion of the minimum standard installation. (co-PI with S. Stancyk) NSF (LTER). \$63,157. (17)
- 1992 - 1993 GPS technology supplement for LTER network. NSF (LTER). \$33,982. (16)
- 1992 - 1995 Development and application of dynamic water quality models for the Charleston Harbor Estuary system: linking hydrodynamics, land use, and wetland exchanges. (co-PI with E.R. Blood) South Carolina Coastal Council. \$193,000. (15)
- 1991 - 1992 LTER NETWORK technology supplement for global positioning systems and training. (co-PI with F.J. Vernberg) NSF (LTER). \$149,235. (14)
- 1991 - 1992 LTER Technology supplement for enhancement of the North Inlet GIS/remote sensing/database management facilities. (co-PI with F.J. Vernberg and B. Kjerfve) NSF (LTER). \$49,727. (13)

- 1991 - 1993 Long-Term Ecological Research at North Inlet, SC: evolution of a coastal landscape and response to disturbance. (1 of 18 co-investigators) NSF (LTER). \$1,477,650. (12)
- 1990 - 1991 Long-term ecological research at North Inlet: supplemental request. (co-PI with B. Kjerfve) NSF (LTER). \$50,000. (11)
- 1990 - 1991 Long-term ecological research network technology supplement for global positioning systems. (co-PI with F.J. Vernberg) NSF (LTER). \$163,987. (10)
- 1990 - 1991 Development of an LTER NETWORK Data Set Catalog. (co-PI with A.B. Miller and R. Nottrott) NSF (LTER Coordinating Committee). \$11,589. (9)
- 1990 - 1993 Urbanization of Southeastern Estuarine Systems. (co-PI with W.B. Vernberg, H.N. McKellar, E.R. Blood, G. Scott, and F.J. Vernberg) NOAA. \$1,390,000. (8)
- 1990 - 1991 Global Positioning System Technology. (co-PI with B. Kjerfve) NSF (Biological Instrumentation Program). \$36,015. (7)
- 1989 - 1990 Estuarine and shellfisheries research. Sea Grant (NOAA). \$1,350. (6)
- 1989 - 1990 Multi-scale investigations of disturbance and impacts of Hurricane Hugo on an LTER coastal landscape. (co-PI with L.A. Gardner, B. Kjerfve, E.R. Blood, and T. Williams) NSF (Ecosystems). \$49,996. (5)
- 1988 - 1991 Long-term ecological research data management activities. (co-PI with S. Stafford) NSF (LTER Coordinating Committee). \$106,000. (4)
- 1987 - 1989 Spatial patterns in recruitment, growth, and survival of oysters. (co-PI with T.J. Hilbish) Sea Grant (NOAA). \$9,000. (3)
- 1984 - 1985 Workshop and symposium on management of long-term ecological data sets. NSF (LTER). \$15,355. (2)
- 1984 - 1986 Preparation of symposium volume: "Research Data Management in the Ecological Sciences." NSF (LTER). \$10,999. (1)

Professional Activities:

I. Symposia and Workshops Organized and Conducted (238)

- 2019 New Mexico EPSCoR All Hands Meeting, May 17, 2019, Albuquerque, NM. (238)
- 2019 New Mexico EPSCoR (NSF) External Advisory Board Meeting, May 16-17, 2019, Albuquerque, NM. (237)
- 2019 New Mexico EPSCoR State Committee Meeting, May 17, 2019, Albuquerque, NM. (236)
- 2018 Gloucester Marine Station Strategic Planning Workshop (facilitator and co-organizer), December 13, 2018, Gloucester, Mass. (235)
- 2018 DataONE External Advisory Board Meeting, December 6-7, 2018, Washington, DC. (234)
- 2018 New Mexico EPSCoR State Committee Meeting, November 8, 2018, Albuquerque, NM. (233)
- 2018 New Mexico EPSCoR SMART Grid Track 1 All Hands Strategic Planning Meeting, August 22-23, 2018, Albuquerque, NM. (232)
- 2018 Logic Modeling Workshop, Ecological Society of America, August 7, 2018, New Orleans, LA. (231)
- 2018 Creating Effective Data Management Plans for Ecological Research Workshop, Ecological Society of America, August 6, 2018, New Orleans, LA. (230)

- 2018 New Mexico EPSCoR SMART Grid Track 1 Workforce Development Strategic Planning Meeting, July 12, 2018, Albuquerque, NM. (229)
- 2018 New Mexico EPSCoR SMART Grid Track 1 Research Strategic Planning Meeting, June 28, 2018, Albuquerque, NM. (228)
- 2018 New Mexico EPSCoR State Committee Meeting, June 8, 2018, Santa Fe, NM. (227)
- 2018 Valentine Eastern Sierra Reserve Strategic Planning Workshop, May 30-June 1, 2018, Mammoth Lake, CA. (226)
- 2018 Symposium on Advancing Ecology by Integrating Data Across the Globe. Co-organized with Alison Specht and funded by the Fondation pour la Recherche sur la Biodiversité (French National Biodiversity Centre) and the Centre for the Synthesis and Analysis of Biodiversity, April 11, 2018, Paris, France. (225)
- 2017 DataONE External Advisory Board Meeting, December 7-8, 2017, Alexandria, VA. (224)
- 2017 DataONE NSF Reverse Site Visit, December 5-6, 2017, Alexandria, VA. (223)
- 2017 New Mexico EPSCoR State Committee Meeting, November 29, 2017, Albuquerque, NM. (222)
- 2017 New Mexico EPSCoR All Hands Meeting, November 28, 2017, Albuquerque, NM. (221)
- 2017 DataONE All Hands Meeting, August 29-31, 2017, Tamaya Hotel, Albuquerque, NM. (220)
- 2017 DataONE Leadership Team Annual Meeting, August 28, 2017, Tamaya Hotel, Albuquerque, NM. (219)
- 2017 Using Logic Models to Write Successful Grant Proposals, August 10, 2017, Ecological Society of America Annual Meeting, Portland, OR. (218)
- 2017 Creating Effective Data Management Plans, August 7, 2017, Ecological Society of America Annual Meeting, Portland, OR. (217)
- 2017 Managing Ecological Data for Effective Use and Reuse: A Workshop for Early Career Scientists, August 6, 2017, Ecological Society of America Annual Meeting, Portland, OR. (216)
- 2017 New Mexico EPSCoR (NSF and DoE) State Committee Meeting, June 9, 2017, Albuquerque, NM. (215)
- 2017 New Mexico EPSCoR (NSF) External Advisory Board Meeting, May 21-23, 2017, Las Cruces, NM. (214)
- 2017 New Mexico EPSCoR (NSF) Track 1 Team Lead Planning Meeting, April 15, 2016, Albuquerque, NM. (213)
- 2017 Managing Data Throughout the Data Life Cycle: Tools and Tips (workshop), March 8, 2017, CNRS, Centre d'Ecologie Fonctionnelle et Evolutive, Montpellier, France (212)
- 2017 Curation and Reuse (moderated paper session), February 22, 2017, International Digital Curation Conference, Edinburgh, Scotland (211)
- 2017 Western Consortium for Watershed Analysis, Visualization and Exploration (NSF EPSCoR Track 2 All Hands Meeting), January 18, 2017, Virtual meeting held in Albuquerque, NM. (210)
- 2016 DataONE External Advisory Board, December 8-9, 2016, Washington, DC. (209)
- 2016 New Mexico EPSCoR (NSF and DoE) State Committee Meeting, November 17, 2016, Albuquerque, NM. (208)
- 2016 AAAS Review of New Mexico EPSCoR, November 2-4, 2016, Albuquerque, NM. (207)
- 2016 DataONE All Hands Meeting and Leadership Team Meetings, September 19-22, 2016, Albuquerque, NM. (206)

- 2016 Experimental Program to Stimulate Competitive Research (EPSCoR) Research Infrastructure Improvement (RII) Track 1 Site Visit, September 7-9, 2016, Albuquerque, NM. (205)
- 2016 Using Logic Models to Write Successful Grant Proposals (Workshop 45), August 11, 2016, Ecological Society of America Meeting, Ft. Lauderdale, FL. (204)
- 2016 Creating Effective Data Management Plans for Ecological Research (Special Session 5), August 8, 2016, Ecological Society of America Meeting, Ft. Lauderdale, FL. (203)
- 2016 DataONE Users Group Meeting, July 17-18, 2016, Durham, NC. (202)
- 2016 Education, Outreach & Diversity Planning for New Mexico EPSCoR, July 12, 2016, University of New Mexico, Albuquerque, NM. (201)
- 2016 DataONE Sustainability and Governance Working Group Meeting, June 14-16, 2016, NCEAS, Santa Barbara, CA. (200)
- 2016 New Mexico EPSCoR (NSF) Track 1 Statewide Planning Meeting, May 5, 2016, Albuquerque, NM. (199)
- 2016 New Mexico EPSCoR (NSF) All Hands Meeting, May 3-4, 2016, Albuquerque, NM. (198)
- 2016 New Mexico EPSCoR (NSF and DoE) State Committee Meeting, May 3-4, 2016, Albuquerque, NM. (197)
- 2016 New Mexico EPSCoR External Advisory Committee Meeting, May 3-4, 2016, Albuquerque, NM. (196)
- 2016 DataONE NSF Reverse Site Visit, April 7-8, 2016, Washington, DC. (195)
- 2015 DataONE External Advisory Board, December 10-11, 2015, Washington, DC. (194)
- 2015 NSF EPSCoR National Conference (Steering Committee and Meeting Facilitator), November 1-3, 2015, Portsmouth, NH. (193)
- 2015 DataONE All Hands Meeting and Leadership Team Meetings, October 26-30, 2015, Albuquerque, NM. (192)
- 2015 Western Consortium for Watershed Analysis, Visualization and Exploration (NSF EPSCoR Track 2 All Hands Meeting and External Advisory Committee), October 5-9, 2015, Las Vegas, NV. (191)
- 2015 New Mexico EPSCoR External Advisory Committee Meeting, September 30, 2015, Albuquerque, NM. (190)
- 2015 New Mexico EPSCoR (NSF and DoE) State Committee Meeting, September 9-10, 2015, Albuquerque, Santa Fe, Los Alamos National Lab, Valles Caldera National Park, NM. (189)
- 2015 EPSCoR Track 2 Planning Workshop, August 24, 2015, University of New Mexico, Albuquerque, NM. (188)
- 2015 New Mexico EPSCoR External Advisory Committee, September 8-11, 2015, Albuquerque, NM. (187)
- 2015 DataONE Strategic Planning Workshop, August 6-7, 2015, Maritime Conference Center, Baltimore, MD. (186)
- 2015 DataONE Users Group Meeting, July 12-13, 2015, Asilomar Conference Center, Pacific Grove, CA. (185)
- 2015 Dryad Community Meeting, May 27, 2015, American Geophysical Union, Washington, DC. (184)
- 2015 Dryad Board of Directors Meeting, May 26, 2015, Gelman Library, George Washington University, Washington, DC. (183)

- 2015 NSF EPSCoR National Meeting of Project Directors, Project Administrators and Education/Outreach/Diversity Coordinators, January 22-23, 2015, Honolulu, HI (organized 2-day meeting and served as moderator on day 1). (182)
- 2014 DataONE External Advisory Board, December 4-5, 2014, Washington, DC. (181)
- 2014 DataONE Sustainability and Governance Working Group, November 10-12, 2014, Washington, DC. (180)
- 2014 New Mexico EPSCoR State Committee Meeting, October 6, 2014, Albuquerque, NM. (179)
- 2014 DataONE All Hands Meeting, September 30-October 2, 2014, Albuquerque, NM. (178)
- 2014 DataONE Leadership Team Meeting, September 29, 2014, Albuquerque, NM. (177)
- 2014 Dryad Board of Directors Meeting, September 18-19, 2014, Amsterdam, The Netherlands. (176)
- 2014 Citizen Science Association Governance Meeting, July 23-26, 2014, Santa Fe, NM. (175)
- 2014 Dryad Strategic Planning Retreat, May 26-27, 2014, MIT, Cambridge, MA. (174)
- 2014 DataONE All Hands Meeting, May 13-15, 2014, Park City, UT. (173)
- 2014 DataONE Leadership Team Meeting, May 12, 2014, Park City, UT. (172)
- 2014 New Mexico EPSCoR State Committee Meeting, May 6, 2014, Albuquerque, NM. (171)
- 2014 DataONE Strategic Planning Meeting, March 4-6, 2014, Santa Fe, NM. (170)
- 2014 DataONE External Advisory Board, January 21-22, 2014, Washington, DC. (169)
- 2014 Research Priorities for the Science Data Enterprise, January 7, 2014, Workshop sponsored by the ESIP Federation, Washington, DC. (168)
- 2013 Dryad Board of Directors Meeting, November 22-23, 2013, CODATA Headquarters, Paris, France. (167)
- 2013 ISEES: Institute for Sustainability of Earth Science and Environmental Software (organizer), November 12-14, 2013, Santa Fe, NM. (166)
- 2013 NSF EPSCoR PD/PA/EOD Meeting (organizer), November 7, 2013, Nashville, TN. (165)
- 2013 UNM OVPR Strategic Planning Retreat (facilitator), November 1, 2013, COSMIAC, Albuquerque, NM (164)
- 2013 New Mexico EPSCoR External Advisory Board, October 9, 2013, EPSCoR State Office, Albuquerque, NM. (163)
- 2013 The Role of Universities and Libraries in Enabling Research Data Management (Half-day workshop organized by W. Michener and C. Tenopir), October 2, 2013, BYU Library, Provo, UT. (162)
- 2013 New Mexico EPSCoR State Committee Meeting, September 25, 2013, EPSCoR State Office, Albuquerque, NM. (161)
- 2013 Western Center for Watershed Analysis and Visualization (WC-WAVE) All Hands Meeting (Tri-state meeting of the NSF EPSCoR Track 2 Jurisdictions of Idaho, Nevada, and New Mexico; Co-PI and Co-Organizer), September 23, 2013, EPSCoR State Office, Albuquerque, NM. (160)
- 2013 ISEES: Institute for Sustainability of Earth Science and Environmental Software (organizing committee), September 9-10, 2013, Marriott Hotel, Oakland, CA. (159)
- 2013 NIH Big Data to Knowledge (BD2K) Data Catalog Workshop (served as meeting facilitator), August 21-22, 2013, National Cancer Institute, Rockville, MD. (158)
- 2013 ISEES: Institute for Sustainability of Earth Science and Environmental Software (organizer), August 13-14, 2013, NCEAS, Santa Barbara, CA. (157)

- 2013 Creating Effective Data Management Plans for Ecological Research (organizer and speaker), Special Session at the Ecological Society of America's Annual Meeting, August 6, 2013, Minneapolis, Minnesota. (156)
- 2013 Creating Effective Data Management Plans for Ecological Research (organizer and speaker), Special Session at the Ecological Society of America's Annual Meeting, August 5, 2013, Minneapolis, Minnesota. (155)
- 2013 Managing Ecological Data for Effective Use and Re-Use: A Workshop for Early Career Scientists (organizer and speaker), Day long workshop at the Ecological Society of America's Annual Meeting, August 5, 2013, Minneapolis, Minnesota. (154)
- 2013 RCN-UBE Incubator Workshop: Enhancing Data Discovery and Usability for Inquiry in Biology Education, July 25-26, 2013, University of Michigan, Ann Arbor, Michigan (workshop planning committee) (153)
- 2013 DataONE II Planning Workshop, July 16-18, 2013, University of Tennessee, Knoxville, TN (152)
- 2013 DataONE Users Group Meeting, July 7-8, 2013, University of North Carolina, Chapel Hill, NC (151)
- 2013 Dryad Board of Directors Meeting, May 21, 2013, St. Anne's College, Oxford, UK (chaired and organized the meeting) (150)
- 2013 Dryad Membership Meeting, May 24, 2013, St. Anne's College, Oxford, UK (chaired and organized the meeting) (149)
- 2013 Now and Future of Data Publishing, May 22, 2013, St. Anne's College, Oxford, UK (organized and co-sponsored the symposium) (148)
- 2013 DataONE II Planning Workshop, May 14-16, 2013, University of New Mexico, Albuquerque, NM (147)
- 2013 EUDAT (A New Pan-European Cross-Disciplinary Data Infrastructure for Science) and DataONE (Data Observation Network for Earth) Collaborative Opportunities, April 16-17, 2013, Albuquerque, NM. (146)
- 2013 Conceptualizing an Institute for Sustainable Earth and Environmental Software, March 11-13, 2013, National Center for Ecological Analysis and Synthesis, Santa Barbara, CA. (145)
- 2013 Organization for Tropical Studies Science Committee Meeting, March 7-8, 2013, La Selva Biological Station, Costa Rica. (144)
- 2013 Western Consortium for Watershed Analysis, Visualization, and Exploration Strategic Planning Workshop, January 2-4, 2013, Albuquerque, NM. (143)
- 2013 DataONE Strategic Planning Workshop, January 27-30, 2013, Santa Fe, NM. (142)
- 2013 External Evaluation Workshop, Presented at the NSF EPSCoR Project Directors, Project Administrators, and Education/Outreach/Diversity Officers Conference, Jan. 23-25, 2013, Embassy Suites, Newark, DE. (141)
- 2013 Climate Change Science for Effective Resources Management and Public Policy in the Western United States, March 27-28, 2013, University of Nevada Las Vegas, Las Vegas, NV (served on workshop organizing committee) (140)
- 2013 Planning Archaeological Infrastructure for Integrative Science Archaeology-Cyberinfrastructure Workshop, Feb. 7-8, 2013, NSF, Washington, DC. (139)
- 2013 Planning Workshop for DataONE NSF Reverse Site Visit, Jan. 28-30, 2013, Santa Fe, NM. (138)
- 2013 Annual Meeting of the NSF EPSCoR Project Directors, Project Administrators, and Education/Outreach/Diversity Officers, January 23-25, 2013, Newark, DE (served on Organizing Committee). (137)

- 2013 External Evaluation, Workshop organized for and presented at the Annual Meeting of the NSF EPSCoR Project Directors, Project Administrators, and Education/Outreach/Diversity Officers, January 23-25, 2013, Newark, DE. (136)
- 2012 The DuraSpace/ARL/DLF 2012 E-Science Institute Capstone Event, December 12-13, 2012, Washington, DC (taught and served as advisor at the 2-day event). (135)
- 2012 Briefing on DataONE, DataUp, and ONEShare, Coalition for Networked Information, December 10-11, 2012, Washington, DC. (134)
- 2012 DataONE External Advisory Board, December 17-18, 2012, Washington, DC. (133)
- 2012 8th International Conference on Ecological Informatics, December 3-7, 2012, University of Brasilia, Brasilia, Brazil (served on International Scientific Committee). (132)
- 2012 DataONE Workshop (half-day). Presented at the International Society for Ecological Informatics, December 7, 2012, Brasilia, Brazil. (131)
- 2012 EPSCoR External Advisory Board Meeting, November 29, 2012, Albuquerque, NM. (130)
- 2012 Dryad Board of Directors Meeting, November 16-17, 2012, Washington, DC. (129)
- 2012 Western Consortium for Watershed Analysis, Visualization, and Exploration (WC-WAVE) Workshop, Nov 4-6, 2012, Las Vegas, NV. (128)
- 2012 International Society for Ecological Informatics, December 4-7, 2012, Brasilia, Brazil (Program Committee). (127)
- 2012 8th International Digital Curation Conference: Infrastructure, Intelligence, Innovation: Driving the Data Science Agenda, January 14-16, 2013, Amsterdam, The Netherlands (Planning Committee). (126)
- 2012 Ecoinformatics Tools Assisting in Sustainable Ecosystem Management, a Symposium held at EcoSummit 2012, October 1, 2012, Columbus, OH. (125)
- 2012 CI2012: New Mexico Cyberinfrastructure Day, September 28, 2012, Hyatt Regency Albuquerque, NM. (124)
- 2012 New Mexico EPSCoR All Hands Meeting, September 27, 2012, Albuquerque, NM. (123)
- 2012 Planning Archaeological Infrastructure for Integrative Science: Grand Challenges in Archaeology Meeting (NSF), held July 30-August 1, 2012, Santa Fe Institute, Santa Fe, NM. (122)
- 2012 DataONE Users Group Meeting, July 15-16, 2012, University of Wisconsin, Madison, WI. (121)
- 2012 DataONE Workshop on Managing and Storing Collaborative Datasets, held in conjunction with the Ecological Research and Education Network All Members Meeting, June 27-29, 2012, Meredith College, Raleigh, NC. (120)
- 2012 Creating Effective Data Management Plans for Ecological Research, held August 6, 2012 at the 97th Annual Meeting of the Ecological Society of America at the Oregon Convention Center, Portland, OR. (119)
- 2012 Conference on Public Participation in Scientific Research, held August 4-5, 2012 at the Oregon Convention Center, Portland, OR. (118)
- 2012 Summit on Fundamental Concepts in Data Training, held June 11-14, 2012, Albuquerque, NM. (117)
- 2012 DataONE Sustainability and Governance Workshop, held May 15-17, 2012 at the Marconi Center, CA. (116)
- 2012 NSF EPSCoR C2 External Advisory Board Meeting, held May 1-2, 2012 at Northern New Mexico College and Navajo Tech. (115)
- 2012 New Mexico EPSCoR AAAS Review, held May 9-11, 2012 at the New Mexico EPSCoR State Office, Albuquerque, NM. (114)
- 2012 New Mexico EPSCoR RII-4 Steering Committee Meeting, held April 12, 2012 at the University of New Mexico, Albuquerque, NM. (113)

- 2012 4th Annual NSF EPSCoR Western Consortium Tri-State Meeting, held April 2-5, 2012 at Sun Valley, Idaho. (112)
- 2012 Identifying and Implementing Research Priorities in Tropical Ecology: Programs, Curriculum and Governance, Organization for Tropical Studies Assembly of Delegates Meeting, held March 8-11, 2012 at La Selva Biological Station, Costa Rica. (111)
- 2012 Organization for Tropical Studies Science Committee Workshop, held March 6-7, 2012 at La Selva Biological Station, Costa Rica. (110)
- 2012 EPSCoR Tri-State Western Consortium External Advisory Committee (organizer and speaker), held February 23, 2012 at Inn and Spa at Loretto, Santa Fe, NM. (109)
- 2012 New Mexico EPSCoR RII-4 Steering Committee Meeting, held February 21, 2012 at the University of New Mexico, Albuquerque, NM. (108)
- 2012 Data 2012 Coming Together Around Data, a PI Meeting for Datanet/Interop, January 25-27, 2012, Indianapolis, IN (served on Program Committee). (107)
- 2012 NSF EPSCoR PD/PA/EOD Meeting, held January 19-20, 2012 at the Convention Hotel & Spa, Hot Springs, Arkansas. (106)
- 2012 I. Best Practices for Managing Data through the Data Life Cycle and II. Data Management Plans and Policies: a Day-long workshop, held January 16, 2012 at Macalister College, St. Paul, MN. (105)
- 2011 Data Governance Workshop, held December 14-15, 2011, Hotel Palomar, Arlington, VA. (104)
- 2011 New Mexico State EPSCoR Project Education, Outreach, and Workforce Development Planning Meeting, November 21, 2011 at UNM Continuing Education, Albuquerque, NM. (103)
- 2011 DataONE-ILAMB Working Group: Exploration, Visualization, and Analysis, held November 15-17, 2011 at the National Center for Ecological Analysis and Synthesis, Santa Barbara, CA. (102)
- 2011 New Mexico EPSCoR External Advisory Committee Meeting, held November 14, 2011 at Inn and Spa at Loretto, Santa Fe, NM. (101)
- 2011 22nd National NSF EPSCoR Conference (organizer, presenter and moderator), held October 24-27, 2011, Coeur d'Alene, Idaho. (100)
- 2011 Meeting for Representatives of State EPSCoR Committees from Idaho, Nevada, and New Mexico, held October 24, 2011, Coeur d'Alene, Idaho. (99)
- 2011 EPSCoR 2012 Track 1 Science Planning Workshop (organizer, presenter and moderator, held October 21, 2011 at Science and Technology Park, Albuquerque, NM. (98)
- 2011 DataONE All Hands Meeting (organizer, presenter, and moderator), held October 18-20, 2011 at Tamaya Resort, Bernalillo, NM. (97)
- 2011 New Mexico EPSCoR Intra- and Intercampus Connectivity Meeting, held October 7, 2011 at Crownpoint, NM. (96)
- 2011 New Mexico State EPSCoR Committee Meeting, held October 3, 2011 at the New Mexico Museum of Natural History and Science, Albuquerque, NM. (95)
- 2011 New Mexico EPSCoR All Hands Meeting, held September 30, 2011 at the Science and Technology Park, Albuquerque, NM. (94)
- 2011 Environmental Information Management Conference 2011 (organizer), held September 28-29, 2011 at Santa Barbara, CA. (93)
- 2011 Best Practices for Managing Data Workshop, held at the Organization of Biological Field Stations Annual Meeting, September 22-25, 2011 at Bodega Bay Marine Laboratory, Bodega Bay, CA. (92)
- 2011 New Mexico State EPSCoR Project Science Planning Meeting, September 19, 2011 at New Mexico Tech, Socorro, NM. (91)
- 2011 DataONE Sustainability and Governance Working Group Meeting, held September 13-15, 2010 in Oak Ridge, TN. (90)

- 2011 Reverse Site Visit for NSF Research Infrastructure Improvement Track 1 Award, held August 11, 2011 at the National Science Foundation, Washington, DC. (89)
- 2011 Special Session 3: Creating Effective Data Management Plans for ecological Research (organizer, moderator, and speaker). August 8, 2011 at the Ecological Society of America Annual Meeting, Austin, TX. (88)
- 2011 Workshop 17: How to Manage Ecological Data for Effective Use and Re-use: A Workshop for Early Career Scientists, August 7, 2011 at the Ecological Society of America Annual Meeting, Austin, TX. (87)
- 2011 DataONE Users Group Meeting (organizer and presenter), July 11-12 at La Fonda Hotel, Santa Fe, NM. (86)
- 2011 DataONE Best Practices Workshop (organizer, facilitator, and presenter), held May 9-12, 2011 at Inn and Spa at Loretto, Santa Fe, NM. (85)
- 2011 EPSCoR C2 External Advisory Committee Meeting (organizer and presenter), held April 19-21, 2011 at Western New Mexico University, Silver City, NM. (84)
- 2011 New Mexico State EPSCoR Advisory Board Meeting (organizer and presenter), held April 18, 2011 at Santa Fe Institute, Santa Fe, NM. (83)
- 2011 DataONE Sustainability and Governance Working Group Meeting (organizer and facilitator), held April 11-15, 2011 at the Marconi Center in Marshall, CA. (82)
- 2011 EPSCoR Tri-State Consortium Meeting (organizer and presenter), held April 5-8, 2011 at Tamaya Resort, Bernalillo, NM. (81)
- 2011 New Mexico EPSCoR National Science Foundation Day, held March 17, 2011 at Tamaya Resort, Bernalillo, NM. (80)
- 2011 Organization of Tropical Studies Science Advisory Committee Meeting (organizer and facilitator), held March 8-9, 2011 at La Selva Biological Stations, Costa Rica. (79)
- 2011 DataONE Review (organizer and presenter), held Feb. 22-24, 2011 at the National Science Foundation in Washington, DC. (78)
- 2011 EPSCoR Track 2 External Advisor Board Meeting (organizer and presenter), held Feb. 16-17, 2011 in Idaho Falls, ID. (77)
- 2011 EPSCoR Project Directors and Project Administrators Meeting (organizer and session moderator), held January 20-21, 2011 in New Orleans, LA. (76)
- 2011 DataONE External Advisory Board, held January 16-18, 2011 in Santa Fe, NM. (75)
- 2011 Kick-off Meeting for CI for Businesses in New Mexico, held January 14, 2011 in Albuquerque, NM. (74)
- 2010 DataONE Users Group Inaugural Meeting, held December 9-10, 2010 at Holiday Inn Mart Plaza, Chicago, IL. (73)
- 2010 AAAS Review of New Mexico EPSCoR. Co-organized and participated in the review, held November 16-18, 2010 in Albuquerque, NM. (72)
- 2010 DataONE All Hands Meeting, held November 2-4, 2010 at Hyatt Regency Tamaya, Santa Ana Pueblo. (71)
- 2010 All Hands Meeting of the New Mexico Experimental Program to Stimulate Competitive Research, held October 18, 2010 at the University of New Mexico, Albuquerque, NM. (70)
- 2010 C2 "Kick-off Workshop, held September 22, 2010 at the University of New Mexico, Albuquerque, NM. (69)
- 2010 EPSCoR State Committee Meeting, a 1-day workshop held September 20, 2010 at New Mexico State University in Las Cruces, NM. (68)
- 2010 DataONE Sustainability and Governance Working Group, held August 31-September 2, 2010 in Oakland, CA. (67)

- 2010 Managing Ecological Data: a Training Workshop, held August 1, 2010 at the Annual Meeting of the Ecological Society of America Meeting, Pittsburgh, PA. (66)
- 2010 DataONE External Advisory Board, held July 29-30, 2010 in Washington, DC. (65)
- 2010 Exploration, Visualization and Analysis of Environmental Data, held July 15-17, 2010 at Cornell Lab of Ornithology, Ithaca, NY. (64)
- 2010 Best Practices for Managing Environmental Data, held June 28-30, 2010 in Santa Fe, NM. (63)
- 2010 Planning workshop for “Cyberinfrastructure Day for New Mexico Business and Industry” held June 15, 2010 in Albuquerque, NM. (62)
- 2010 DataONE All Hands Meeting, held May 24-27, 2010 at Hyatt Regency Tamaya, Santa Ana Pueblo. (61)
- 2010 Tri-State EPSCoR Meeting of Idaho, Nevada, and New Mexico, held April 6-8, 2010 at Lake Tahoe, NV. (60)
- 2010 DataONE Sustainability and Governance Working Group, held March 23-25, 2010 in Oakland, CA. (59)
- 2010 National meeting of EPSCoR Project Directors and Project Administrators, held January 18-20, 2010 at Tamaya Resort, Albuquerque, NM. (58)
- 2010 EPSCoR External Advisory Committee Workshop, held January 11-13, 2010 at Albuquerque, NM and Jemez Springs, NM. (57)
- 2010 Faculty Leadership Program, held January 5-7, 2010 at Santa Fe Institute, Santa Fe, NM. (56)
- 2006 Training: Ecoinformatics and Geographic Information Systems for the Organization for Biological Field Stations, held October 15-29, 2006 at La Selva Biological Station, Costa Rica. (55)
- 2006 Scientific assessments as upstarts in ecology: ethical considerations for ecologists. Symposium organized by D.E. Wickland and W.K. Michener and held at 91st Annual Meeting of the Ecological Society of America in Memphis, Tennessee on August 6-11, 2006. (54)
- 2006 NEON: at the starting line. Symposium organized by D. Kirschtel, J. Goldman, B. Hayden, and W. Michener and held at 91st Annual Meeting of the Ecological Society of America in Memphis, Tennessee on August 6-11, 2006. (53)
- 2006 5th International Conference on Ecological Informatics (ISEI5), held December 4-7, 2006 at Santa Barbara, CA, USA. (Program Committee) (52)
- 2006 Ecosystem informatics education and research. A workshop organized by J. Jones, J. Cushing, W. Michener, K. Vanderbilt, and A. Ellison and held at the 2006 LTER All Scientists Meeting, September 20-23, 2006, Estes Park, Colorado. (51)
- 2006 Status of emerging environmental observatories and opportunities for LTER collaboration. A workshop organized by W. Michener and T. Cowl and held at the 2006 LTER All Scientists Meeting, September 20-23, 2006, Estes Park, Colorado. (50)
- 2006 2006 LTER All Scientists Meeting, September 20-23, 2006, Estes Park, Colorado. (Program Committee) (49)
- 2006 2006 Science Environment for Ecological Knowledge All Hands’ Meeting I. Organized by W. Michener and held April 30-May 4, 2006 in Albuquerque, New Mexico. (48)
- 2006 2006 Science Environment for Ecological Knowledge All Hands’ Meeting II. Organized by W. Michener and held December 10-15, 2006 in Santa Barbara, CA. (47)
- 2006 NEON Sensor Specification Workshop. Organized by W. Michener and the NEON Project Office staff and held Jan 18-19, 2006 at the Center for Embedded Networked Sensing, UCLA, Los Angeles, CA. (46)
- 2006 NEON Sensor Platform Specification Workshop. Organized by W. Michener and the NEON Project Office staff and held Jan 18-19, 2006 at the Center for Embedded Networked Sensing, UCLA, Los Angeles, CA. (45)

- 2006 NEON Cyberinfrastructure Workshop I. Organized by W. Michener and the NEON Project Office staff and held Feb 6-7, 2006 at the University of California, San Diego. (44)
- 2006 NEON Cyberinfrastructure Workshop II. Organized by W. Michener and the NEON Project Office staff and held March 14-15, 2006 at the University of California, San Diego. (43)
- 2006 NEON National Network Design Committee. Organized by W. Michener and the NEON Project Office staff and held Feb 20-23, 2006 at the University of California, San Diego. (42)
- 2006 NEON National Network Design Committee. Organized by W. Michener and the NEON Project Office staff and held April 3-5, 2006 in Washington, DC. (41)
- 2006 NEON Red Team Review of Integrated Science and Education Plan. Organized by W. Michener and held April 6-7, 2006 in Washington, DC. (40)
- 2006 NEON Red Team Review of NEON Request for Information. Organized by Alan Knapp and W. Michener and held May 10-11, 2006 in Denver, CO. (39)
- 2006 NEON Technical Standards, QA/QC, and Commissioning and Acceptance Workshop. Organized by W. Michener and B. Hayden and held March 20-24, 2006 at the University of Virginia, Charlottesville, VA. (38)
- 2006 Ecoinformatics: a training workshop. Held November 10, 2005 at the University of Wyoming. (37)
- 2005 Building an Ecological Observatory Network for Regional- to Continental-Scale Research (a Featured Symposium). 90th Annual Meeting of the Ecological Society of America. Montreal, Canada. 10 August 2005. (36)
- 2005 Cyberinfrastructure for Managing, Analyzing and Sharing Ecological Data and Information (a day-long training workshop). 90th Annual Meeting of the Ecological Society of America. Montreal, Canada. 7 August 2005. (35)
- 2005 Sensor Array Cyberinfrastructure and Informatics; Identifying Generic Solutions for Environmental Observatories. Funded by NSF. Los Angeles, CA. 20-22 June 2005. (34)
- 2004 Ecological Informatics: Managing Data and Information for Projects, Laboratories and Observatories. 89th Annual Meeting of the Ecological Society of America. Portland, OR. 1 August 2004. (33)
- 2004 Ecological Metadata: Software Tools and Approaches for Documenting and Discovering Biological and Environmental Data. 89th Annual Meeting of the Ecological Society of America. Portland, OR. 2 August 2004. (32)
- 2003 A Future Vision for Enabling Information Technologies for LTER Science. LTER All Hands' Meeting, Seattle, WA. Funded by NSF and LTER Network Office. 21 September 2003. (31)
- 2003 Biological and Environmental Infrastructure: Science Needs, Infrastructure Opportunities, and Political Challenges and Realities. LTER All Hands' Meeting, Seattle, WA. Funded by NSF and LTER Network Office. 20 September 2003. (30)
- 2003 Environmental Cyberinfrastructure Needs for Distributed Sensor Networks. Scripps Institute of Oceanography, La Jolla, CA. Funded by NSF. 12-14 August 2003. (29)
- 2002 Ecological Informatics Training Workshop for the Organization of Biological Field Stations. Sevilleta Research Station, New Mexico. Funded by NSF. 20 October – 2 November 2002. (28)
- 2002 International LTER Information Management Workshop for the Environmental Long-Term Observatories Network of Southern Africa. Eduardo Mondlane University, Maputo, Mozambique. Funded by NSF. 25-26 July 2002. (27)
- 2002 LTER and USGS-NBII Collaboration Workshop. University of New Mexico. Funded by USGS. 20-22 August 2002. (26)
- 2001 Scalable Information Networks for the Environment. San Diego Supercomputer Center, San Diego, CA. Funded by NSF. 29-31 October 2001. (25)

- 2001 Scalable Information Systems: From Laboratories to NEONs. 86th Annual Meeting of The Ecological Society of America, Monona Terrace, Madison, WI. Supported by Long-Term Studies Section of ESA, OBFS, SDSC & LTER Network Office. 4 August 2001. (24)
- 2001 Perspectives on Biocomplexity. American Institute of Biological Sciences Washington, DC. 25 March 2001. (23)
- 2000 National Ecological Observatory Network (NEON II) Planning Workshop and Information Technological Frontiers Symposium. San Diego Supercomputer Center, San Diego, CA. Funded by NSF. 9-11 March 2000. (22)
- 2000 NSF Funding Opportunities Workshop. University of New Mexico. (21)
- 2000 NSF Funding Opportunities Workshop. Entomological Society of America, Atlanta, GA. (20)
- 1999 Frontiers in Ecology Workshop. National Science Foundation, Arlington, VA. Funded by NSF. 6-8 December 1999. (19)
- 1999 NSF Funding Opportunities Workshop. University of Mississippi. (18)
- 1999 Interdisciplinary Synthesis of Recent Natural and Managed Floods: Workshop II. National Center for Ecological Analysis and Synthesis, Santa Barbara, CA. Funded by National Center for Ecological Analysis and Synthesis. 13-19 November 1999. (17)
- 1999 Interdisciplinary Synthesis of Recent Natural and Managed Floods: Workshop I. National Center for Ecological Analysis and Synthesis, Santa Barbara, CA. Funded by National Center for Ecological Analysis and Synthesis. 1-7 May 1999. (16)
- 1998 Interdisciplinary Synthesis of Recent Natural and Managed Floods: A Planning Workshop. Ecological Society of America, Washington, DC. Funded by National Center for Ecological Analysis and Synthesis. 14-16 September 1998. (15)
- 1997 Data and Information Management in the Ecological Sciences: Follow-up on the ESA Workshop. Organization of Biological Field Stations Meeting, Oregon Institute of Marine Biology, University of Oregon, Coos Bay, OR. 17-21 September 1997. (14)
- 1997 Data and Information Management in the Ecological Sciences: A Training Workshop. University of New Mexico, Albuquerque, NM. Funded by NSF. 8-9 August 1997. (13)
- 1997 Flooding: Managed versus Natural Disturbances. Annual Meeting of the Ecological Society of America, Albuquerque, NM. (12)
- 1995 Computational Ecology: Key Research Topics and Methods for a Predictive Science. San Diego Supercomputer Center, San Diego, CA. Sponsored by the National Center for Ecological Analysis and Synthesis and the National Center for Supercomputing Applications; funded by NSF. 22-23 September 1995. (11)
- 1993 Second International Conference/Workshop on Integrating Geographic Information Systems and Environmental Modeling. Breckenridge, Colorado. Funded by numerous federal agencies and coordinated by the National Center for Geographic Information and Analysis. 26-30 September 1993. (10)
- 1993 Environmental Information Management and Analysis: Ecosystem to Global Scales. University of New Mexico, Albuquerque, New Mexico. Funded by NSF. 20-22 May 1993. (9)
- 1992 Design and Development of a Scientific Information System for Ecological Research. Beijing, China. Funded by the Chinese Academy of Sciences. 22-23 September 1992. (8)
- 1991 High Precision Global Positioning System Training Workshop and Field Campaign. Boulder, Colorado. Funded by NSF. 30 September - 5 October 1991. (7)
- 1991 Annual Long-Term Ecological Research Data Management Workshop. San Antonio, Texas. Funded by NSF. 1-3 August 1991. (6)

- 1990 Data Accessibility. Workshop held in conjunction with the Long-Term Ecological Research All Scientists Meeting, Estes Park, Colorado. Co-organized with J. Meyer and S. Stafford. Funded by NSF. 25-30 September 1990. (5)
- 1990 Annual Long-Term Ecological Research Data Management Workshop. Snowbird, Utah. Funded by NSF. 26-28 July 1990. (4)
- 1990 Data Management in the Long-Term Ecological Research Network. Workshop held in conjunction with the Long-Term Ecological Research All Scientists Meeting, Estes Park, Colorado. Co-organized with J. Brunt and S. Stafford. Funded by NSF. 25-30 September 1990. (3)
- 1990 Global Positioning System Technology: Incorporation Into Ecological Research. Training workshop held in conjunction with the Long-Term Ecological Research All Scientists Meeting, Estes Park, Colorado. Funded by NSF. 25-30 September 1990. (2)
- 1984 Research Data Management in the Ecological Sciences. Georgetown, SC. Funded by NSF. 4-6 November 1984. (1)

II. Invited Professional Workshops, Board Meetings, Conferences, etc. (184)

- 2019 Florida International University (FIU) NSF CREST Center for Aquatic Chemistry and Environment External Advisory Board (member) and All Hands Meeting, March 19, 2019, FIU, Miami, FL (virtual attendee) (184)
- 2019 Whole Tale (NSF DIBBS) External Advisory Board Meeting, February 21, 2019, University of Illinois, Champaign-Urbana (participated virtually). (183)
- 2018 NSF EPSCoR Project Directors and Project Administrators Meeting, Oct 31-Nov 1, 2018, Charleston, WV (182)
- 2018 Interoperability of Metadata Standards in Cross-Domain Science, Health, and Social Science Applications Workshop, October 1-5, 2018, Schloss Dagstuhl - Leibniz Center for Informatics, Wadern, Germany. (181)
- 2018 AAAS Review of Florida State University Data and High-Performance Computing Program, September 4-7, 2018, Tallahassee, FL (180)
- 2018 EPSCoR Coalition and Foundation Board of Directors Meeting, June 5, 2018, Washington, DC (179)
- 2018 NSF EPSCoR Project Directors and Project Administrators Meeting: Expanding Networked Communities to Advance Research Competitiveness, May 21-22, 2018, Washington, DC (178)
- 2018 GLOBIS-B Research Infrastructures Meeting, University of Amsterdam, May 8-9, 2018, Amsterdam, The Netherlands (177)
- 2017 Coalition for Networked Information, December 11-12, 2017, Washington, DC (176)
- 2017 NSF EPSCoR National Meeting, November 5-8, 2017, Missoula, Montana (175)
- 2017 Earth Science Information Partnership, July 26-28, 2017, Bloomington, IN (174)
- 2017 DataONE Users Group Meeting, July 24-25, 2017, Bloomington, IN (173)
- 2017 EPSCoR Coalition and Foundation Meeting, July 12-14, 2017, Reno, NV (172)
- 2017 Exploiting the Digital Revolution: Developing Capacity and Integrating Data Across the Disciplines of Science: A Workshop, June 19-21, 2017, ICSU & CoData Headquarters, Paris, France (171)
- 2017 SciTS: Science of Team Science, June 12-14, 2017, Clearwater Beach, FL (170)

- 2017 NSF EPSCoR Project Directors and Project Administrators Meeting, May 15-16, 2017, Washington, DC (169)
- 2017 Research Data Alliance, April 3-8, 2017, Barcelona, Spain (168)
- 2017 Organization for Economic and Collaborative Development (OECD) and CODATA Workshop on Sustainable Business Models for Data Repositories, March 28-29, 2017, European Commission, Brussels, Belgium (167)
- 2017 GLOBIS-B: Third Workshop on Essential Biodiversity Variables, March 20-22, 2017, University of Amsterdam, Amsterdam, The Netherlands (166)
- 2017 EU Biodiversity Observation Network Final Meeting, March 14-16, 2017, Royal Belgian Institute of Natural Sciences, Brussels, Belgium (165)
- 2017 Florida International University (FIU) NSF CREST Center for Aquatic Chemistry and Environment External Advisory Board (member) and All Hands Meeting, March 9-10, 2017, FIU, Miami, FL (virtual attendee) (164)
- 2017 Organization for Economic and Collaborative Development (OECD) 2nd Expert Group meeting on “Sustainable Business Models for Data Repositories,” March 6, 2017, OECD, Paris, France (163)
- 2017 CODATA and International Council for Scientific Unions (ICSU) Planning Workshop for 2017-2018 Cross-Domain Data Interoperability Project, January 30-February 3, 2017, CODATA and ICSU Headquarters, Paris, France (162)
- 2016 Whole Tale (NSF DIBBS) External Advisory Board Meeting, University of Illinois, Champaign-Urbana (participated virtually). (161)
- 2016 Coalition for Networked Information, December 12-13, 2016, Washington, DC. (160)
- 2016 EPSCoR Coalition/Foundation Board Meeting, December 6, 2016, Washington, DC. (159)
- 2016 Research Data Alliance (Organization Delegate), September 15-17, Marriott, Denver, CO. (158)
- 2016 CoData General Assembly, September 11, 2016, Marriott, Denver, CO. (157)
- 2016 Dryad Board of Directors Meeting, September 9-10, 2016, Auraria Library, Denver, CO. (156)
- 2016 How to Stand Out as a Supercommunicator (NSF workshop), August 2-3, 2016, Albuquerque, NM. (155)
- 2016 Federation of Earth Science Information Partners, July 19-22, 2016, Durham, NC. (154)
- 2016 Earth Science Information Partnership Strategic Planning Meeting, July 17-18, 2016, Durham, NC. (153)
- 2016 iUtah Annual Symposium and All Hands Meeting, July 15, 2016, The University of Utah, Salt Lake City, UT. (152)
- 2016 iUtah External Advisory Board Meeting, July 14, 2016, The University of Utah, Salt Lake City, UT. (151)
- 2016 Cornell Lab of Ornithology Board Meeting, June 2-4, 2016, Ithaca, NY. (150)
- 2016 Organization for Tropical Studies Board of Directors’ Meeting, March 7-12, 2015, LaSelva Biological Station, Costa Rica. (149)
- 2016 Federation of Earth Science Information Partners (ESIP) Foundation Board Meeting, January 5, 2016, Washington, DC (attended remotely via Webex). (148)
- 2015 Addressing Biological Informatics Workforce Needs (workshop hosted by AIBS and funded by numerous sponsors), December 8, 2015, Washington, DC. (147)

- 2015 Organization for Tropical Studies Board of Directors' Meeting, November 12-14, 2015, Athens, GA. (146)
- 2015 Cornell Lab of Ornithology Board Meeting, November 5-7, 2015, Ithaca, NY. (145)
- 2015 NSF EPSCoR Project Directors and Project Administrators Meeting, November 4, 2015, Portsmouth, NH. (144)
- 2015 EPSCoR Coalition/Foundation Board Meeting, November 1, 2015, Portsmouth, NH. (143)
- 2015 DataCite Symposium, September 21, 2015, Paris, France. (142)
- 2015 Dryad Board Meeting, September 18-19, 2015, Paris, France. (141)
- 2015 iUtah Annual Meeting and External Advisory Board Meeting, July 17-17, 2015, Midway, UT. (140)
- 2015 Federation of Earth Science Information Partners (ESIP) and ESIP Board Meeting, July 14-15, 2015, Asilomar Conference Center, Pacific Grove, CA. (139)
- 2015 NSF EPSCoR Track 2 All Hands Meeting, June 2, 2015, Boise, ID. (138)
- 2015 Cornell Lab of Ornithology Board Meeting, May 28-30, 2015, Ithaca, NY. (137)
- 2015 NSF EPSCoR Project Directors and Project Administrators Meeting, May 18-19, 2015, Washington, DC. (136)
- 2014 IODE Science Advisory Task Force for the Oceanographic Biodiversity Information System (funded by UNESCO's Intergovernmental Oceanographic Commission), December 9-12, Oostende, Belgium. (135)
- 2014 Changing Data Practices in Data Publication (workshop hosted by AIBS and funded by NSF), December 3, 2014, Washington, DC. (134)
- 2014 Integrating Domain Repositories into the National Data Infrastructure (workshop funded by the Sloan Foundation), November 20-21, 2014, Ann Arbor, MI. (133)
- 2014 Cornell Laboratory of Ornithology Board Meeting, November 6-8, 2014, Ithaca, NY. (132)
- 2014 Organization for Tropical Studies Board of Directors' Meeting, October 25-26, 2014, Durham, NC (attended virtually via GoToMeeting). (131)
- 2014 CReATIVE-B Final Project and High-Level Steering Group Meeting, September 24-25, 2014, Brussels, Belgium. (130)
- 2014 Research Data Alliance Technical Advisory Board Meeting, September 23-24, 2014, Amsterdam, The Netherlands. (129)
- 2014 Dryad Developers' Meeting, July 28-29, 2014, Durham, NC. (128)
- 2014 iUtah Symposium and External Advisory Board, July 10-11, 2014, Logan, UT. (127)
- 2014 DataNet PI Meeting, June 25, 2014, Ann Arbor, MI. (126)
- 2014 SEAD (Sustainable Environment Actionable Data) Advisory Board Meeting, June 19, 2014, Ann Arbor, MI. (125)
- 2014 Cornell Laboratory of Ornithology Board Meeting, May 29-31, 2014, Ithaca, NY. (124)
- 2014 Working Together on Data Discovery, Access and Reuse: the 2014 Dryad & Dataverse Community Meeting, May 28, 2014, Harvard University, Boston, MA. (123)
- 2014 NSF EPSCoR Project Directors and Project Administrators Meeting, May 19-20, 2014, Arlington, VA. (122)
- 2014 Sustaining Biological Infrastructure: Curriculum Review Meeting, March 31, 2014, Ecological Society of America, Washington, DC. (121)

- 2014 Belmont Forum E-Infrastructure & Data Management: Work Package 4 (Data Sharing), March 24-25, 2014, Croke Park Conference Center, Dublin, Ireland. (120)
- 2014 Organization for Tropical Studies Board of Directors Meeting, March 11-13, 2014, Las Cruces Biological Station, San Vito, Costa Rica. (119)
- 2014 Managing Biodiversity Data for Scientific Synthesis, January 15-17, 2014, CESAB, Aix-en-Provence, France. (118)
- 2014 Citizen Science Association Planning Workshop, January 9-10, 2014, Woodrow Wilson Center, Washington, DC. (117)
- 2013 Cornell Laboratory of Ornithology Board Meeting, November 8-9, 2013, Ithaca, NY. (116)
- 2013 EPSCoR National Meeting, November 4-6, 2013, Nashville, TN. (115)
- 2013 EPSCoR CI-WATER (Track 2) Advisory Board, October 10-11, 2013, Salt Lake City, UT. (114)
- 2013 Research Data Alliance Second Plenary: Building Global Partnerships, September 16-18, 2013, National Academy of Sciences, Washington, DC. (113)
- 2013 5th Workshop of the TRY Initiative: Quantifying and Scaling Global Plant Trait Diversity, September 3-6, 2013, German Centre for Integrative Biodiversity Research, Leipzig, Germany. (112)
- 2013 Computational Thinking in STEM Professionals, August 23, 2013, Albuquerque, NM. (111)
- 2013 iUtah (innovative Urban Transitions and Aridregion Hydro-sustainability) Annual Meeting and Advisory Board, July 19, 2012, Salt Lake City, UT (110)
- 2013 Tropical Biodiversity Initiative, June 16-23, 2013, Las Cruces Biological Station, San Vito, Costa Rica. (109)
- 2013 Coastal Hazards Collaboratory, June 13-14, 2013, Mobile, AL. (108)
- 2013 Cornell Laboratory of Ornithology Board Meeting, May 31-June 1, 2013, Ithaca, NY. (107)
- 2013 Joint Dryad/ORCiD Symposium, May 23, 2013, St. Anne's College, Oxford, UK. (106)
- 2013 "Data Management Practices for Early Career Scientists" Workshop at the NASA Terrestrial Ecology Science Team Meeting, May 2, 2013, San Diego, CA. (105)
- 2013 Big Data and Extreme-Scale Computing (NSF), April 30-May 1, 2013, Charleston, SC. (104)
- 2013 Organization for Tropical Studies Board of Directors Meeting, April 12-13, 2013, Durham, NC (participated remotely). (103)
- 2013 Third Global Workshop "Community Engagement" of CReATIVE-B (a international biodiversity initiative), April 8-10, 2013, Kunming, China. (102)
- 2013 Research Data Alliance Launch Event, March 18-20, Gothenburg, Sweden. (101)
- 2013 DataONE NSF Reverse Site Visit, Feb. 28-Mar. 1, 2013, NSF, Washington, DC. (100)
- 2013 NSF EPSCoR Project Directors, Project Administrators, and Education/Outreach/Diversity Officers, Jan. 23-25, 2013, Embassy Suites, Newark, DE. (99)
- 2012 Digital Information Management in the Research University: Strategic Directions and Approaches, December 9, 2012, Capital Hilton, Washington, DC. (98)
- 2012 Cornell Laboratory of Ornithology Board Meeting, November 8-10, 2012, National Geographic Headquarters, Washington, DC. (97)
- 2012 Living on Earth III, An NSF EPSCoR Workshop, October 23-26, 2012, St. Thomas, US Virgin Islands. (96)
- 2012 Research Data Alliance Planning Meeting (NSF), October 1-3, 2012, Washington, DC. (95)

- 2012 UNM Economic Development Summit: Growing the Regional Economy, September 21, 2012, University of New Mexico, Albuquerque, NM. (94)
- 2012 Managing Water in an Uncertain Future: Harnessing New Computational Power, 1st Annual CI-Water Symposium, September 5-6, 2012, Natural History of Museum, Salt Lake City, UT. (93)
- 2012 Library of Congress Science at Risk: Toward a National Strategy for Preserving Online Science, June 26-27, 2012, Library of Congress, Washington, DC. (92)
- 2012 Coastal Hazards Collaboratory – 2012 Annual Meeting, May 29-30, 2012, Hyatt Regency, New Orleans, LA. (91)
- 2012 Science: Becoming the Messenger (A communications skill-building workshop sponsored by the National Science Foundation), April 19-20, 2012, Albuquerque, NM. (90)
- 2012 National Science Foundation Experimental Program to Stimulate Competitive Research (EPSCoR) Project Directors' and Project Administrators' Meeting, March 21-22, 2012, NSF, Washington, DC. (Moderated panel discussion on "Expanding EPSCoR Connections to National Priorities") (89)
- 2012 Information, Academic and Research Technology Retreat, May 18, 2012, University of New Mexico, Albuquerque, NM. (88)
- 2012 Collaboration between DataONE and the U.S. Global Change Research Program, March 14, 2012, U.S. Global Change Research Program Headquarters, Washington, DC. (87)
- 2012 Informal Science Education PI Meeting 2012, March 15-16, 2012, Center for Advancement of Informal Science Education, Washington, DC. (86)
- 2012 Trends in Ecological Analysis and Synthesis, March 21-22, 2012, National Center for Ecological Analysis and Synthesis, Santa Barbara, CA. (85)
- 2012 Becoming the Messenger, an NSF workshop hosted by New Mexico EPSCoR, April 18-19, 2012, Albuquerque, NM. (84)
- 2012 Coordination of Research e-Infrastructure Activities Towards an International Virtual Environment for Biodiversity (CReATIVE-B), February 27-29, 2012, Rio de Janeiro, Brazil. (83)
- 2012 Data 2012 Coming Together Around Data, a PI Meeting for Datanet/Interop, January 25-27, 2012, Indianapolis, IN. (82)
- 2012 Data Management Planning Tool workshop, January 23-24, 2012, Berkeley, CA. (81)
- 2011 IDCC11 Pre-Conference Workshop: Data Management Planning, December 5, 2011, Marriott Royal Hotel, Bristol, UK. (80)
- 2011 A Community Capability Model Framework for Data-Intensive Research – Evaluation Workshop (sponsored by UKOLN and Microsoft Research), December 5, 2011, Bristol, UK. (79)
- 2011 Organization for Tropical Studies Board Meeting, October 14-15, 2011, Raleigh, NC. (78)
- 2011 Dryad Consortium Board Meeting, held July 7-9, 2011 at the University of British Columbia, Vancouver, Canada. (77)
- 2011 Building TCU, EPA & Tribal Partnerships, held June 28-30, 2011 at the National Indian Programs Training Center, Albuquerque, NM. (76)
- 2011 University Libraries Strategic Planning Retreat, held June 15, 2011 in Albuquerque, NM. (75)
- 2011 Cornell Laboratory of Ornithology Board Meeting, held June 3-4, 2011 at Ithaca, NY. (74)
- 2011 Citizen Science Project Design Workshop, held May 24-27, 2011 at Minnowbrook, NY. (73)
- 2011 EPSCoR Project Directors and Project Administrators National Meeting, May 5-6, 2011 at New Orleans, LA. (72)

- 2011 Arizona Scholarly Data Summit, held April 26, 2011 at the University of Arizona Libraries, Tucson, AZ. (71)
- 2011 JISC Managing Research Data International Programme Workshop, held March 28-29, 2011 at the Aston Business School Conference Centre in Birmingham, UK. (70)
- 2011 Data Repositories in Environmental Sciences Workshop: Concepts, Definitions, Technical Solutions, and User Requirements, held February 28-March 1, 2011 at Rauischholzhausen in Marburg, Germany. (69)
- 2011 Organization of Tropical Studies Board of Directors and Assembly of Delegates Meeting, held March 10-11, 2011 at Palo Verde Biological Station, Costa Rica. (68)
- 2011 Organization of Tropical Studies Tropical Forestry Research Coordination Networking Advisory Board Meeting, held March 9, 2011 at La Selva Biological Stations, Costa Rica. (67)
- 2010 6th International Digital Curation Conference “Participation and Practice: Growing the curation community through the data decade” (served as session chair), held December 6-8, 2010 in Chicago, IL. (66)
- 2010 Research Data Workforce Summit, held December 6, 2010 in Chicago. IL. (65)
- 2010 Scaling-up to Integrated Research Data Management, workshop held December 6, 2010 in Chicago, IL. (64)
- 2010 NSF Workshop on “Strategies for Sustainability of Biological Infrastructure” (served as session facilitator), held November 29-30, 2010 in Washington, DC. (63)
- 2010 CI and Dimensions of Biodiversity. An NSF-sponsored workshop held October 13-15, 2010 in Madison, WI. (62)
- 2010 NSF EPSCoR Cyberinfrastructure Assessment Workshop, held October 6-8, 2010 in Washington, DC. (61)
- 2010 NSF Data Task Force Workshop, held September 29-30, 2010 at the Microsoft Campus in Redmond, WA. (60)
- 2010 Workshop on Interoperability/Technology and Education/Outreach aspects of Geoinformatics – working towards a National Geoinformatics Community, held September 23-24, 2010 at the USGS – Denver Federal Center in Denver, CO. (59)
- 2010 Department of Energy Review of New Mexico EPSCoR, held May 20, 2010 in Albuquerque, NM. (58)
- 2010 EPSCoR National Meeting of Project Directors and Project Administrators, held May 17-18, 2010 in Washington, DC. (57)
- 2010 Data Intensive Research Symposium and Workshop, held March 15-19, 2010 in Edinburgh, Scotland. (56)
- 2010 Cyberinfrastructure External Advisory Committee for EPSCoR, held February 24-25, 2010 in Las Vegas, NV. (55)
- 2010 Community Engagement and Education Workshop, held February 2-4, 2010, University of Tennessee, Knoxville, TN. (54)
- 2006 Indo-US IndoFlux Workshop, held July 10-14, 2006 in Chennai, India. (53)
- 2006 Data Centers for Ecology, Evolution, and Organismal Biology. Workshop organized by ESA and held December 8-9, 2006 in Santa Barbara, CA. (52)
- 2006 Workshop on integrating social science into NSF observatories. Workshop held January 24-25, 2007. (51)

- 2006 NEON Conceptual Design Review. Organized by NSF and held November 6-9, 2006 at the University of California, San Diego. (50)
- 2003 Infrastructure for Biology at Regional to Continental Scales (IBRCS), A project of the American Institute of Biological Sciences (NSF). Held 28 February – 1 March at Dulles Hyatt, VA. (49)
- 2003 Biodiversity and Ecosystem Informatics Workshop. (NSF) Held 10-11 February 2003 at the National Science Foundation, Arlington, VA. (48)
- 2003 Organization for Tropical Studies Informatics Committee. Held 11-14 January 2003 at La Selva Biological Station, Costa Rica. (47)
- 2002 E-science Planning Workshop. National Science Foundation. 25-26 November 2002. (46)
- 2002 Ecological Informatics Workshop. Held 29 October 2002 at the University of California Davis, Davis, CA. (45)
- 2002 Ecological Informatics Workshop. Held 28 October 2002 at the University of California Berkeley, Berkeley, CA. (44)
- 2002 Organization for Tropical Studies Informatics Committee. Held 26-27 August 2002 at the North American Office in Durham, NC. (43)
- 2002 Sixth workshop on the development of a National Ecological Observatory Network (NEON): Information management. (NSF) Held 16-18 September 2002 at the National Center for Ecological Analysis and Synthesis, University of California Santa Barbara, Santa Barbara, CA. (42)
- 2002 Environmental Long-Term Observatories Network of Southern Africa: Regional Planning Workshop. (NSF) Inhaca Island, Mozambique. 21-24 July 2002. (41)
- 2002 Fourth workshop on the development of a National Ecological Observatory Network (NEON): Standard measurements and infrastructure needs. The Millenium Hotel, Boulder, Colorado. 4-5 June 2002. (40)
- 2002 LTER Net Primary Production Methods Workshop. Sevilleta Research Station. May 2002. (39)
- 2002 International LTER Meeting and Workshop. Ottawa Canada. 9-14 April 2002. (38)
- 2002 Partnership for Biodiversity Informatics Information Technology Workshop. Juneau, Alaska. 1-6 March 2002. (37)
- 2002 Nalbadnov Symposium on Biocomplexity. University of Illinois Urbana-Champaign. 6-9 February 2002. (36)
- 2002 Scalable Remote Information Sensing and Communication. A workshop sponsored by the Multi-Sector Crisis Management Center. ACCESS Center, Arlington VA. (35)
- 2002 LTER Metadata Workshop. Phoenix, AZ. 7-8 January 2002. (34)
- 2001 Land Ocean Interfaces in the Coastal Zone (an IGBP-UNESCO workshop). Fortaleza, Brazil. 30 April – 8 May 2001. (33)
- 2001 Managing Troubled Data: Partnerships Smooth Data Integration. 2001 EMAP Symposium, Pensacola Beach, FL. 24-27 April 2001. (32)
- 2000 Organization for Tropical Studies Information Management Workshop. Held 11-13 December 2000 at La Selva Biological Station, Costa Rica. (31)
- 1999 Large Rivers Workshop. Water Environment Research Foundation, Chicago, IL. (30)
- 1999 Southwest Georgia Water Leadership Summit. Southwest Georgia Water Resource Task Force, Albany, GA. (29)
- 1998 Data Management and the Organization of Biological Field Stations. National Center for Ecological Analysis and Synthesis, Santa Barbara, CA. (28)

- 1997 Data Archiving and Sharing. (NSF) National Center for Ecological Analysis and Synthesis, Santa Barbara, CA. (27)
- 1997 Data Archiving and Sharing. (NSF) Conducted at the 1997 Annual Meeting of the Ecological Society of America, Albuquerque, NM. (26)
- 1997 Data Management and Architecture Standards. Ecological Society of America (Vegetation Classification Panel) and the Federal Geographic Data Committee (FGDC). ESA office, Washington, DC. (25)
- 1997 Advanced Technologies for the Ecological Sciences. (NASA) Conducted at the 1997 Annual Meeting of the Ecological Society of America, Albuquerque, NM. (24)
- 1996 Geographic Information Systems Workshop. (USDA) Southeast Watershed Research Laboratory, Tifton, GA. (23)
- 1996 *Science* Focus Group Meeting. (AAAS, ESA) Conducted at the 1996 Annual Meeting of the Ecological Society of America, Providence, RI. (22)
- 1996 Restoration Ecology. (NSF) National Center for Ecological Analysis and Synthesis, Santa Barbara, CA. (21)
- 1996 International Long-Term Ecological Research Data/Information Management Training Workshop. (NSF) Albuquerque, NM. (20)
- 1996 Scientific Opportunities: Merger of the U.S.G.S. and N.B.S. Appointed to scientific committee and workshop sponsored by the USGS, The Geological Society of America, and the Keystone Center. Washington, DC. (19)
- 1995 Climate Change in the Southeastern US. (EPA) Charleston, SC. (18)
- 1995 Future of Long-Term Ecological Data III. (Mellon Foundation) San Diego, California. (17)
- 1994 Future of Long-Term Ecological Data II. (Mellon Foundation) Hickory Corners, Michigan. (16)
- 1994 Intergovernmental Panel on Climate Change. (EPA) Research Triangle Park, NC. (15)
- 1994 Long-Term Ecological Research Symposium and Workshop: The Management of Spatial Data and Inter-Site Data Access in the Ecological Sciences. (NSF) University of Washington, Seattle, WA. (14)
- 1994 Longleaf Pine Ecosystem Restoration: Toward a Regional Strategy. (USDA Forest Service) Atlanta, GA. (13)
- 1994 Data Management and GIS Technology Transfer. (NSF) Kempton, PA. (12)
- 1993 Future of Long-Term Ecological Data I. (Mellon Foundation) Washington, DC. (11)
- 1992 The Future of Long-term Data Sets for Ecological Research. (Co-sponsored by the Ecological Society of America and Mellon Foundation) St. Louis, Missouri. (10)
- 1992 Watershed Modeling Workshop. (USGS, NSF LTER) USGS National Training Center, Denver, Colorado. (9)
- 1992 National Center for Ecological Synthesis and Analysis. (NSF, Ecological Society of America and the Association of Ecosystem Research Centers) Santa Fe, New Mexico. (8)
- 1992 Long-Term Ecological Research Data Management Workshop. (NSF) Honolulu, Hawaii. (7)
- 1989 LTER Wide Area Networking Conference. (Sponsored by NSF, National Center for Supercomputing Applications, and NSF Network Service Center) Champaign, Illinois. (6)
- 1989 Geographic Information System and Remote Sensing Applications in Long-Term Ecological Research. (NSF) Fort Collins, Colorado. (5)

- 1987 Intersite Research on Drought Response of Selected Southeastern Ecosystems. (NSF) Georgetown, SC. (4)
- 1987 Scientific Information/Data for Charleston Harbor Watershed: Availability and Access, Needs, Databases, GIS. (S.C. Sea Grant Consortium) Charleston, SC. (3)
- 1986 Joint International Workshop for Collaborative Estuarine Ecosystem Studies Between the University of South Carolina and the Netherlands Institute for Sea Research. Texel Holland. (2)
- 1982 Data Management at Biological Field Stations. (NSF) W.K. Kellogg Biological Station, Michigan State University. (1)

III. Invited Talks (212)

- 2018 DataONE Accomplishments and Impacts in Session “DataONE: from DataNet project to engaged global community in the contemporary data landscape. December 11, 2018, Presented at the Coalition for Networked Information, Washington DC (212)
- 2018 Managing data throughout the research life cycle to enable new science and support decision-making. November 30, 2018, Presented at Yale Day of Data, Yale University, New Haven CT (211)
- 2018 Past, present and future of ecological informatics. November 29, 2018, Presented at the Max Planck Institute, Yale University, New Haven CT (210)
- 2018 Ecological Informatics: History, Current Scope and Future Directions. September 24, 2018, Presented at the International Conference for Ecological Informatics, Jena, Germany (keynote address co-presented with Frederick Recknagel) (209)
- 2018 Lessons Learned from Successful PIs. August 29, 2018, Presented at NSF Day, University of New Mexico, Albuquerque, NM (208)
- 2018 DataONE Overview and Progress. July 16, 2018, Presented at the DataONE Users Group Meeting, Albuquerque, NM (206)
- 2018 Data as a resource: the emerging paradigm. April 11, 2018. Presented at the Symposium on Advancing Ecology by Integrating Data Across the Globe. Fondation pour la Recherche sur la Biodiversité, Paris, France. (205)
- 2017 Ecological Data Standardization Initiatives. November 14, 2017. Presented at the ICSU/CODATA Inter-Union Workshop: Data Standards and Integration. November 13-15, 2017, Royal Society, London, UK (204)
- 2017 Managing, Sharing, and Sustaining EPSCoR Research Data. November 7, 2017. Presented at the NSF EPSCoR National Meeting, November 5-8, 2017, Missoula, Montana (203)
- 2017 EPSCoR Report to the Council of University Presidents. October 9, 2017. Presented at the Council of University Presidents Fall Meeting, Executive Boardroom, Science and Technology Park, Albuquerque, NM (202)
- 2017 DataONE Federation and Data Life Cycle Solutions. October 5, 2017, Presented at the Biomedical Informatics Seminar Series, Health Sciences Library and Informatics Center, University of New Mexico, Albuquerque, NM (201)
- 2017 DataONE Overview. October 4, 2017, Presented at NOAA’s IOOS/MBON/OBIS/NCEI Partnership Meeting, VTC (200)
- 2017 DataONE Past, Present and Future. August 31, 2017, Presented at the DataONE All Hands Meeting, Albuquerque, NM (199)
- 2017 DataONE Overview and Progress. August 29, 2017, Presented at the DataONE All Hands

- Meeting, Albuquerque, NM (198)
- 2017 Helping Researchers Share Data: DataONE. April 11, 2017, Public Access Working Group, American Association of Universities and Association of Public and Land-grant Universities, Washington, DC. (197)
- 2017 Best Practices for Data Discovery. April 5, 2017, Research Data Alliance: Data Discovery Interest Group, Barcelona, Spain. (196)
- 2017 DataONE: Supporting Data Discovery, Sharing and Reproducibility to Enable New Science. April 4, 2017, International Council for Science and Technology Information, Barcelona, Spain. (195)
- 2017 Data Sharing, Archiving and Discovery: Tools and Tips, March 8, 2017, CNRS, Centre d'Ecologie Fonctionnelle et Evolutive, Montpellier, France (194)
- 2016 Data archiving and sharing. Presented at the Quebec Centre for Biodiversity Science Symposium, McGill University, December 15-16, 2016, Montreal, Quebec. (193)
- 2016 DataONE: enabling discovery, access and use of environmental data. Presented at the Directorate for Computer & Information Science & Engineering, National Science Foundation, December 9, 2016, Washington, DC. (192)
- 2016 DataONE: enabling discovery, access and use of environmental data. Presented at the Directorate for Biological Sciences, National Science Foundation, December 7, 2016, Washington, DC. (191)
- 2016 DataONE: enabling discovery, access and use of environmental data. Presented at the Directorate for Geological Sciences, National Science Foundation, December 7, 2016, Washington, DC. (190)
- 2016 Overview of DataONE. Presented at DataONE Users Group Meeting, July 17-18, 2016, Durham, NC. (189)
- 2015 Dryad Data Repository: Lessons Learned from an Evolving Digital Archive. Project briefing presented at the Coalition for Networked Information Meeting, December 14-15, 2015, Washington, DC. (188)
- 2015 DataONE's experience with training offerings. (Presented at “Addressing Biological Informatics Workforce Needs” a workshop hosted by AIBS and funded by numerous sources), December 8, 2015, Washington, DC. (187)
- 2015 New Mexico Council of University Presidents (presented annual state of EPSCoR report), November 19, 2015, Albuquerque, NM. Open Science for Sustainable Solutions (Plenary address presented at the Joint Meetings of the Agronomy Society of America, Canadian Society of Agronomy, Soil Science Society of America, Entomology Society of America), November 16, 2015, Minneapolis, Minnesota. (186)
- 2015 Data Management Incentives, Mandates and Best Practices. Presented at the Region VI & VII Fall Meeting of National Council of University Research Administrators, October 4, 2015, Salt Lake City, UT. (185)
- 2015 DataONE: Facilitating discovery, access and use of scientific data. Presented at the “Research Data Infrastructure for Environmental-related Challenges” Research Data Alliance Workshop, September 22, 2015, Paris, France. (184)
- 2015 DMPTool: Creating credible and high quality plans for managing data. Presented at the NSF Advisory Committee for Cyberinfrastructure (ACCI) working group for Data and Code Access and Reproducibility, September 11, 2015, NSF Virtual Conference, Washington, DC. (183)
- 2015 DataONE: Providing solutions to complex science and data challenges. Presented at the DataONE Users’ Group Meeting, July 12-13, 2015, Asilomar Conference Center, Pacific Grove, CA. (182)

- 2015 *Ecological Archives* data review: process, assessment, and future of data sharing. Presented at the Dryad Community Meeting, May 27, 2015, American Geophysical Union, Washington, DC. (181)
- 2015 Dryad strategic plan (2015-2019). Presented at the Dryad Community Meeting, May 27, 2015, American Geophysical Union, Washington, DC. (180)
- 2015 Changing paradigms for data management, publication and sharing. Presented at the Australian National University, April 23, 2015, Canberra, Australia. (179)
- 2015 Changing paradigms for data management, publication and sharing. Presented at the Australian National Data Service and webcast to 18 locations in Australia and New Zealand, April 23, 2015, Canberra, Australia. (178)
- 2015 New paradigms for data management, publication and sharing. Presented at the University of Queensland, April 13, 2015, Brisbane, Australia. (177)
- 2015 Managing, sharing and publishing research data. Presented at the USDA Forest Service, January 26, 2015, Hilo, Hawaii. (176)
- 2014 Data Management, Sharing and Publication. Presented at the IODE Science Advisory Task Force for the Oceanographic Biodiversity Information System (funded by UNESCO's Inter-government Oceanographic Commission), December 9-12, Oostende, Belgium. (175)
- 2014 DataONE: Providing Solutions to Complex Data and Science Challenges. Presented at "Changing Data Practices in Data Publication" (workshop hosted by AIBS and funded by NSF), December 3, 2014, Washington, DC. (174)
- 2014 Ecological Data Sharing. Presented at the International Conference for Ecological Informatics, October 20-23, 2014, Nanjing, China. (173)
- 2014 DataONE in Support of the Data Life Cycle. Presented at the ESIP Federation, July 8-11, 2014, Copper Mountain, CO. (172)
- 2014 DataONE Progress and Update. Presented at DataONE Users Group, July 6-7, 2014, Copper Mountain, CO. (171)
- 2014 A Research Data Crisis. Presented at "Working Together on Data Discovery, Access and Reuse: the 2014 Dryad & Dataverse Community Meeting," May 28, 2014, Harvard University, Cambridge, Mass. (170)
- 2014 Data Sharing and Accessibility: DataONE and Dryad. Presented at the Annual Meeting of the Council of Science Editors, May 2-5, 2014, San Antonio, TX. (169)
- 2014 DataONE. Presented at the CESAB workshop on "Managing Biodiversity Data for Scientific Synthesis," January 15-17, 2014, aix-en-Provence, France. (168)
- 2014 Using Logic Models as a Framework for Planning, Implementing and Evaluating Research. Presented January 9, 2014 at the ESIP Federation Meeting, Washington, DC. (167)
- 2013 DataONE. Presented at the Coalition for Networked Information, December 9-10, 2013, Washington, DC. (166)
- 2013 The Research Data Alliance Metadata Standards Registry Working Group: Objectives, Organization and Accomplishments. Presented at the EUDAT Conference, October 28-30, 2013, Rome, Italy. (165)
- 2013 Data Federation via Metadata. Presented at the EUDAT Conference, October 28-30, 2013, Rome, Italy. (164)
- 2013 DataONE. Presented at the EUDAT Conference, October 28-30, 2013, Rome, Italy. (163)
- 2013 Back to the Future: Preserving and Using Data for Decades. Presented at a Symposium entitled "Sustaining Digital Content: Planning for Its Future" organized by the Rio Grande Chapter of the

- Special Libraries Association and held October 4, 2013 at the Albuquerque Museum of Art and History, Albuquerque, NM. (162)
- 2013 Empowering the Discovery, Management, and Analysis of Biological and Environmental Data. Invited seminar presented October 3, 2013 at the School of Life Sciences, BYU, Provo, UT. (161)
- 2013 Supporting the Research Data Life Cycle. Presented at a workshop entitled “The Role of Universities and Libraries in Enabling Research Data Management,” October 2, 2013, BYU Library, Provo, UT. (160)
- 2013 DataONE. Presented at the Annual Meeting of the Organization of Biological Field Stations: How Biodiversity is Shaping the Evolution of Research and Education at Field Stations, September 19-22, 2013, Southwestern Research Station, Portal, AZ. (159)
- 2013 DataONE: Empowering the Discovery and Management of Environmental Data. Presented at the 5th Workshop of the TRY Initiative: Quantifying and Scaling Global Plant Trait Diversity, September 3-6, 2013, German Centre for Integrative Biodiversity Research, Leipzig, Germany. (158)
- 2013 DataONE. Presented at DataNet: Demonstrations of Data Discovery, Access, and Sharing Tools, A Special Session at the Ecological Society of America’s Annual Meeting, August 6, 2013, Minneapolis, Minnesota. (157)
- 2013 The value of Research Experiences for Undergraduates. Leadoff talk presented at the Climate Change and Water in New Mexico 2013 Summer Research Program, August 2, 2013, Northern New Mexico College, El Rito, NM. (156)
- 2013 Promoting Data Discovery and Use. Keynote address presented at the RCN-UBE Incubator Workshop: Enhancing Data Discovery and Usability for Inquiry in Biology Education, July 25-26, 2013, University of Michigan, Ann Arbor, Michigan (workshop planning committee) (155)
- 2013 State of DataONE. Presented at the DataONE Users Group Meeting, July 7-8, 2013, University of North Carolina, Chapel Hill, NC (154)
- 2013 Big Data: A Data Life Cycle Perspective* (*Is there a role for libraries?). Keynote address presented at the “Big Data Summit” held May 28-30, Kansas City, MO. (153)
- 2013 What are the challenges facing data publication? Presented at a symposium entitled “Now and Future of Data Publishing” held May 22, 2013, St. Anne’s College, Oxford, UK. (152)
- 2013 Elements of a Data Management Plan. Presented as part of a training workshop entitled “Data Management Practices for Early Career Scientists” at the NASA Terrestrial Ecology Science Team Meeting, May 2, 2013, San Diego, CA. (151)
- 2013 Introduction to DataONE. Presented as part of symposium entitled “Cross-Discipline Data Management” at the Los Alamos National Laboratory, April 15, 2013, Los Alamos, NM. (150)
- 2013 DataONE Perspective on Research Data. Presented as a video at the “Making Data Count; Research Data and Research Assessment Knowledge Exchange Workshop, April 11-12, 2013, Berlin, Germany. (149)
- 2013 Elements of a Data Management Plan. Presented at the “Data Management Practices for Early Career Scientists Workshop, held at the North American Carbon Program All Investigators Meeting, Feb. 3, 2013, Albuquerque, NM. (148)
- 2013 Big Team Science: Managing Communication and Collaboration. Presented as part of a symposium at the Annual Meeting of the NSF EPSCoR Project Directors, Project Administrators and Education/Outreach/Diversity Officers, January 23-25, 2013, Newark, DE. (147)
- 2012 New Paradigms for Ecological Research and Data Management. Presented at the International Society for Ecological Informatics, December 3-7, 2012, Brasilia, Brazil. (146)

- 2012 Data Observation Network for Earth (DataONE), Office of Science and Technology Policy, November 30, 2012, Washington, DC. (145)
- 2012 Data Life Cycle Support: Tools and Concepts. November 15, 2012, E-Science Institute National Webinar, web-based seminar streamed internationally. (144)
- 2012 DataONE: A Global Data Access, Management, and Preservation Network for Earth and Environmental Scientists. Presented as part of a Symposium entitled Beyond File Cabinets and Field Notes: Extending the Lifecycle and Utility of Agronomic Data at the ASA, CSSA, and SSSA Annual Meetings, October 21-24, 2012, Cincinnati, OH. (143)
- 2012 Data Life Cycle Challenges and Solutions. Presented in a Symposium entitled Scientific Data: the Current Landscape, Challenges, and Solutions at the Microsoft eScience Workshop 2012, October 8-9, 2012, Chicago, IL. (142)
- 2012 Educating Scientists about the Data Life Cycle. Presented in a Symposium entitled Data Scientists I at the Microsoft eScience Workshop 2012, October 8-9, 2012, Chicago, IL. (141)
- 2012 Transforming Ecological Research through Data, Information, and Knowledge Management. Presented in Ecoinformatics Tools Assisting in Sustainable Ecosystem Management, a Symposium held at EcoSummit 2012, October 1, 2012, Columbus, OH. (140)
- 2012 Introduction to the Data Life Cycle. Presented at CI2012: New Mexico Cyberinfrastructure Day, September 28, 2012, Hyatt Regency Albuquerque, NM. (139)
- 2012 Data Management Planning Tool. Presented at CI2012: New Mexico Cyberinfrastructure Day, September 28, 2012, Hyatt Regency Albuquerque, NM. (138)
- 2012 DataONE: Supporting Scientific Data Preservation, Discovery, and Innovation. Presented at a Session entitled Beyond Documents: The Archivist's Role in Research Data Curation at the Society of American Archivists, August 10, 2012, San Diego, CA. (137)
- 2012 LTER Science 2050: Challenges, Constraints and Opportunities. Presented in a Session entitled Ecological Research from a Truly Long-Term Perspective: What Needs to be Done Today to Support Ecological Analysis in 2100? at the 2012 Long-Term Ecological Research All Scientists' Meeting, September 12, 2012, YMCA of the Rockies, Estes Park, CO. (136)
- 2012 DataONE: Supporting Scientific Data Preservation, Discovery, and Innovation. Presented at a cybercommons for Ecological Forecasting, Third Annual Meeting and Symposium, September 7, 2012, Kansas State University, Manhattan, KS. (135)
- 2012 Creating Effective Data Management Plans. Presented in a Workshop entitled Managing Ecological Data for Effective Use and Re-use: A Workshop for Early Career Scientists at the 97th Annual Meeting of the Ecological Society of America, August 5, 2012, Oregon Convention Center, Portland, OR. (134)
- 2012 Grand Challenges and Big Data: Implications for Public Participation in Scientific Research. Presented at the National Workshop on Public Participation in Scientific Research, August 4, 2012, Oregon Convention Center, Portland, OR. (133)
- 2012 Data Observation Network for Earth (DataONE). Presented at the National Information Standards Organization's Symposium entitled Tracking it Back to the Source: Managing and Citing Research Data, September 24, 2012, Brown Palace, Denver, CO. (132)
- 2012 Scientific Discovery and Innovation in an Era of Data-Intensive Science, National Science Foundation, July 19, 2012. (131)
- 2012 Overview of DataONE Progress. Presented at the DataONE Users Group Meeting, July 15-16, 2012, University of Wisconsin, Madison, WI. (130)
- 2012 The Research Perspective. Presented at the Information, Academic and Research Technology Retreat, May 18, 2012, University of New Mexico, Albuquerque, NM. (129)

- 2012 New Research Paradigms for Science and Academia. Presented at the 10th International Bielefeld Conference, April 24-26, 2012, Bielefeld, Germany. (128)
- 2012 New Mexico's NSF EPSCoR Program, Presented at Becoming the Messenger, an NSF workshop hosted by New Mexico EPSCoR, April 18-19, 2012, Albuquerque, NM. (127)
- 2012 DataONE: Supporting the Data Life Cycle and Transforming Ecological Research and Conservation. Presented at the Annual Meeting of the Terrestrial Ecosystem Research Network, March 27-29, 2012, University of Adelaide, Adelaide, Australia. (126)
- 2012 From Data to Knowledge: The Ecoinformatics Perspective. Presented at Trends in Ecological Analysis and Synthesis, March 21-22, 2012, National Center for Ecological Analysis and Synthesis, Santa Barbara, CA. (125)
- 2012 Valles Caldera A Grand Land Experiment: Communicating Climate Change Research to Public Audiences, ISE PI Meeting 2012, March 15-16, 2012, Center for Advancement of Informal Science Education, Washington, DC. (124)
- 2012 DataONE Integration with the Research Enterprise. Coordination of Research e-Infrastructure Activities Towards an International Virtual Environment for Biodiversity (CReATIVE-B), February 27-29, 2012, Rio de Janeiro, Brazil. (123)
- 2012 DataONE (Observation Network for Earth): Enabling New Science by Supporting the Management of Data Throughout its Life Cycle, Data2012 Meeting of DataNet and INTEROP Projects, January 26-27, 2012, Indianapolis, IN. (122)
- 2012 INTEROP: Creation of a Virtual Data Center for the Biological, Ecological, and Environmental Sciences, Data2012 Meeting of DataNet and INTEROP Projects, January 26-27, 2012, Indianapolis, IN. (121)
- 2011 Five New Paradigms for Science and Academia and an Introduction to DataONE. Presented December 13, 2011 at the Fall 2011 Meeting of the Coalition for Networked Information, Arlington, VA. (120)
- 2011 International Sharing of Data: Why and How? Presented December 9, 2011 at the Institute for Physical Geography, J.W. Goethe University Frankfurt am Main, Frankfurt, Germany. (119)
- 2011 Summary of the Data Management Planning Workshop and Future Opportunities. Presented at IDCC11 Pre-Conference Workshop: Data Management Planning, December 5, 2011, Marriott Royal Hotel, Bristol, UK. (118)
- 2011 Community Exemplar: DataONE. Presented at A Community Capability Model Framework for Data-Intensive Research – Evaluation Workshop (sponsored by UKOLN and Microsoft Research), December 5, 2011, Bristol, UK. (117)
- 2011 DataONE Introduction and Status. Presented December 2, 2011 at the Max Planck Institute, Nijmegen, The Netherlands. (116)
- 2011 New Mexico EPSCoR Update and Next Steps. Presented November 8, 2011 at the New Mexico Council of University Presidents, in Albuquerque, NM. (115)
- 2011 DataONE and the DataNet Partnership. Presented November 1, 2011 at the Digital Library Federation Annual Meeting, in Washington, DC. (114)
- 2011 Seven Water and Environment Take-away Messages. Presented at the 22nd National NSF EPSCoR Conference, October 24-27, 2011, Coeur d'Alene, Idaho. (113)
- 2011 Shifting Roles in a Changing Culture: Five New Paradigms for Science and Academia. Presented at the 2011 Symposium on Scholarly Communication, October 17, 2011 at the University of New Mexico, Albuquerque, NM. (112)
- 2011 DataONE and OBFS. Presented at the Organization of Biological Field Stations Annual Meeting, September 22-25, 2011 at Bodega Bay Marine Laboratory, Bodega Bay, CA. (111)

- 2011 DataONE and USGS. Presented at the USGS Community for Data Integration Workshop 2011, August 17-18, 2011 at Denver Federal Center, Lakewood, CO. (110)
- 2011 Metadata Management. Presented at Special Session 3: Creating Effective Data Management Plans for Ecological Research. August 8, 2011 at the Ecological Society of America Annual Meeting, Austin, TX. (109)
- 2011 Data Management Planning. Presented at Workshop 17: How to Manage Ecological Data for Effective Use and Re-use: A Workshop for Early Career Scientists, August 7, 2011 at the Ecological Society of America Annual Meeting, Austin, TX. (108)
- 2011 DataONE: Data Life Cycle Management. Presented at the Workshop on Research Data Lifecycle Management, July 18-20, 2011 at Princeton University, Princeton, NJ. (107)
- 2011 Enhancing the quality of ecological and environmental data: Lessons learned from LTER and DataONE. Presented at the Federation of Earth Science Information Partners, July 12-15, 2011 at La Fonda Hotel, Santa Fe, NM. (106)
- 2011 Introduction to DataONE. Presented at the DataONE Users Group Meeting, July 11-12 at La Fonda Hotel, Santa Fe, NM. (105)
- 2011 DataONE: Changing Community Practice and Transforming Science Through Access to Data and Tools. Presented at the CUAHSI Conference on Hydrologic Data and Information Systems, June 22-24, 2011 at Utah State University, Logan, Utah. (104)
- 2011 DataONE. Presented at the Citizen Science Project Design Workshop, held May 24-27, 2011 at Minnowbrook, NY. (103)
- 2011 Enabling New and More Transparent Science via DataONE: A Virtual Data Observation Network for Earth. Presented at USGS Headquarters, May 18, 2011 at Reston, VA. (102)
- 2011 DataONE: Supporting Data Management, Enabling Research, and Educating the Science Workforce. Presented at the Arizona Scholarly Data Summit, April 26, 2011 at The University of Arizona Libraries, Tucson, AZ. (101)
- 2011 DataONE: National and International Infrastructure Initiatives. Presented March 28, 2011 at the JISC Managing Research Data International Programme Workshop at the Aston Business School Conference Centre in Birmingham, UK. (100)
- 2011 DataONE: Changing Community Practice and Transforming the Environmental Sciences Through Access to Data and Tools. Presented March 1, 2011 at the Data Repositories in Environmental Sciences Workshop in Marburg, Germany. (99)
- 2011 DataONE (Observation Network for Earth): Past, Present, and Future. Presented January 28, 2011 to HP Foundation at Mesa del Sol Research Complex, Albuquerque, NM. (98)
- 2011 DataONE (Observation Network for Earth). Presented as part of the Biomedical Informatics Seminar Series, January 13, 2011 at the Health Sciences Center, Albuquerque, NM. (97)
- 2010 Enabling New and More Transparent Science via DataONE: A Virtual Data Observation Network for Earth. American Geophysical Union, held December 12-17 in San Francisco, CA. (96)
- 2010 DataONE: Project Overview. Presented at DataONE Users Group Inaugural Meeting, held December 9-10, 2010 at Holiday Inn Mart Plaza, Chicago, IL. (95)
- 2010 DataONE: An Overview. Research Data Workforce Summit, held December 6, 2010 in Chicago, IL. (94)
- 2010 DataONE. Presented at "Scaling-up to Integrated Research Data Management", a workshop held December 6, 2010 in Chicago, IL. (93)
- 2010 Cyberinfrastructure and the Environmental Sciences. Keynote at eResearch New Zealand, held October 26-27, 2010 at the University of Auckland, Auckland, New Zealand. (92)

- 2010 Enabling New and More Transparent Science via DataONE: A Virtual Data Observation Network for Earth. USGS, Reston, Virginia, September 28, 2010. (91)
- 2010 Biological Data. Wolfram Data Summit 2010, held September 8-10, 2010 in Washington, DC. (90)
- 2010 DataONE: A Virtual Data Center for the Environmental Science. TeraGrid 2010, held August 2-56, 2010 in Pittsburgh, PA. (89)
- 2010 Environmental Data Management. Microsoft Faculty Summit. Redmond, WA. July 12, 2010. (88)
- 2010 DataONE: A Virtual Data Center for the Biological, Ecological, and Environmental Sciences. INTEROP Education Workshop, Santa Fe, NM. June 28, 2010. (87)
- 2010 Plans for Data Citation in DataONE, Dryad, and the University of California Curation Center. DataCite International Meeting, Hanover, Germany. June 8, 2010. (86)
- 2010 DataONE, the Avian Knowledge Network, and e-bird: Advancing Data-intensive Research. Cornell University, Ithaca, NY. June 4, 2010. (85)
- 2010 DataONE: A Virtual Data Center for the Biological, Ecological, and Environmental Sciences. Data Conservancy All Hands Meeting, Johns Hopkins University, Baltimore MD. June 2, 2010. (84)
- 2010 DataONE: Progress in Building a Virtual Data Center for the Biological, Ecological, and Environmental Sciences. DataONE Joint CE-CI Meeting, Albuquerque, NM, May 25, 2010. (83)
- 2010 Dryad (A DataONE Member Node) and the Ecological Society of America. Cornell University, Ithaca, NY. May 13, 2010. (82)
- 2010 DataONE: A Virtual Data Center for the Biological, Ecological, and Environmental Sciences. Syracuse University, Syracuse, NY, May 12, 2010. (81)
- 2010 Data Intensive Research in the Environmental Sciences. Presented at the Data Intensive Research Symposium and Workshop, held March 15-19, 2010 in Edinburgh, Scotland. (80)
- 2010 DataONE: A Virtual Data Center for the Biological, Ecological, and Environmental Sciences. CyberInfrastructure Day at the University of New Mexico, University of New Mexico, Albuquerque, NM. April 22, 2010. (79)
- 2010 Building a virtual data center for the biological, ecological and environmental sciences. Program Directors and Science Coordinators at the National Science Foundation. April 14, 2010. (78)
- 2010 DataONE: A Virtual Data Center for the Biological, Ecological, and Environmental Sciences. ASIST Summit, Phoenix, AZ. April 9-10, 2010. (77)
- 2010 "Tri-state Collaborations and Project Synergies." Tri-State Meeting of Idaho, Nevada, and New Mexico EPSCoR Projects, Incline Village, NV. April 6-8, 2010. Plenary Presentation. (76)
- 2010 Building a virtual data center for the biological, ecological and environmental sciences. Tri-State Meeting of Idaho, Nevada, and New Mexico EPSCoR Projects, Incline Village, NV. April 6-8, 2010. (75)
- 2010 DataONE: a virtual data center for the biological, ecological and environmental sciences. Workshop entitled "Data-Intensive Research: how should we improve our ability to use data" that was held at the e-Science Institute, Edinburgh, Scotland. March 15-19, 2010. Poster presentation. (74)
- 2010 Building a virtual data center for the biological, ecological and environmental sciences. Workshop entitled "Data-Intensive Research: how should we improve our ability to use data" that was held at the e-Science Institute, Edinburgh, Scotland. March 15-19, 2010. Plenary presentation. (73)

- 2010 Patterns in Bird Migration Phenology Explored through Data Intensive Analysis and Visualization. Workshop entitled “Data-Intensive Research: how should we improve our ability to use data” that was held at the e-Science Institute, Edinburgh, Scotland. March 15-19, 2010. Poster presentation (Steve Kelling, Daniel Fink, Suresh Santhana Vannan, Kevin Webb, Robert Cook, William Michener, Jeff Morisette, Claudio Silva, Tom Dietterich, Patrick O’Leary, Alyssa Rosemartin, and Damian Gessler) (72)
- 2008 Building ecological informatics solutions for multi-decadal research. Presented at the Organization of Fish and Wildlife Information Managers Annual Conference, held October 16-17, 2008 in Arlington, VA. (71)
- 2008 A case study in E-Science: Building ecological informatics solutions for multi-decadal research. Presented at the Association of Research Libraries Fall Forum (Reinventing Science Librarianship: Models for the Future), held October 16-17, 2008 in Arlington, VA. (70)
- 2008 Ecological informatics: Building solutions for multi-decadal research. Presented at the SLA Conference, held June 17, 2008 in Seattle, WA. (69)
- 2006 Building collaborative research networks. Presented at the Indo-US IndoFlux Workshop, held July 10-14, 2006 in Chennai, India. (68)
- 2006 LTER and NEON data center approaches. Presented at the Data Centers for Ecology, Evolution, and Organismal Biology Workshop that was organized by ESA and held December 8-9, 2006 in Santa Barbara, CA. (67)
- 2006 The National Ecological Observatory Network. Presented at ESCC/Internet2 Joint Techs Workshop: an international conference of networking engineers. Held February 5-8, 2006 at Albuquerque, NM. (66)
- 2006 The United States National Ecological Observatory Network (NEON): Science, Education and Enabling Infrastructure. Presented at the Spring 2006 Internet2 Member Meeting in a special plenary session (Sensor Networks, Studying our World through Networks), April 26, 2006, Washington, DC. (65)
- 2006 Ecosystem informatics education and research. A workshop organized by J. Jones, J. Cushing, W. Michener, K. Vanderbilt, and A. Ellison and held at the 2006 LTER All Scientists Meeting, September 20-23, 2006, Estes Park, Colorado. (64)
- 2006 Design of the United States National Ecological Observatory Network (NEON): Science, Education and Enabling Infrastructure. Presented January 23, 2006 at the University of Mississippi. (63)
- 2006 Ecoinformatics: managing data from the sensor to the desktop to the public. University of Wyoming. November 10, 2005. (62)
- 2006 NEON. Presented at the annual meeting of the Organization for Biological Field Stations, September 14-17, 2006, Flathead Lake Biological Station, Montana. (61)
- 2003 “Ecoinformatics: Managing Data, Rescuing Data and Changing the Scientific Culture.” Keynote Address at the International Meeting of the Pelagic Fisheries Research Program. Honolulu, Hawaii; 9-11 December 2003. (60)
- 2003 “Cyberinfrastructure, Distributed Environmental Sensor Networks and LTER Synthesis.” Western Regional NEON Planning Meeting, Sevilleta Research Station, NM. 1-2 December 2003. (59)
- 2003 “Environmental Cyberinfrastructure Needs for Distributed Sensor Networks.” Biological Directorate Advisory Committee, NSF, Arlington, VA. 13 November 2003. (58)
- 2003 “Seeking Informatics Solutions for Science.” Biological Directorate Advisory Committee, NSF, Arlington, VA. 13 November 2003. (57)

- 2003 "Cyberinfrastructure Planning for LTER Science." Biological Directorate Advisory Committee, NSF, Arlington, VA. 13 November 2003. (56)
- 2003 "Environmental Cyberinfrastructure Needs for Distributed Sensor Networks." Geosciences Advisory Committee. NSF, Arlington, VA. 12 November 2003 (55)
- 2003 "A Future Vision for Enabling Information Technologies for Ecology and the Environmental Sciences." Building Cyberinfrastructure for the Geosciences: A Workshop and Symposium. NSF, Arlington, VA. 11 November 2003 (54)
- 2003 "Informatics: From Science to Solutions." Matt Jones & William Michener (joint presentation). Advisory Meeting of the Environmental Research and Education Program (NSF). Santa Barbara, CA. 23 October 2003. (53)
- 2003 "Biological and Environmental Infrastructure: Science Needs, Infrastructure Opportunities, and Political Challenges and Realities." Triennial LTER All Scientists' Meeting, Seattle, WA. 19-21 September 2003 ASM. (52)
- 2003 "A Future Vision for Enabling Information Technologies for LTER Science." Triennial LTER All Scientists' Meeting, Seattle, WA. 19-21 September 2003 ASM. (51)
- 2003 "The Science Environment for Ecological Knowledge (SEEK): Enabling Ecology and Biodiversity Science Through Information Technology." Triennial LTER All Scientists' Meeting, Seattle, WA. 19-21 September 2003 ASM. (50)
- 2003 "The Science Environment for Ecological Knowledge (SEEK) and the Resource Discovery Initiative for Field Stations." Annual meeting of the LTER Information Managers Committee. Seattle, WA. 22 September 2003. (49)
- 2003 "Resource Discovery Initiative for Field Stations." Organization of Biological Field Stations Annual Meeting, Kananaskis Field Station, Canada. 11-14 September 2003. (48)
- 2003 "Environmental Cyber-Infrastructure Needs for Distributed Sensor Networks: Introduction to the Symposium." Scripps Institution of Oceanography, La Jolla, CA. 12-14 August 2003. (47)
- 2003 "Cyber-Infrastructure Challenges: An Ecologist's Perspective." Cyberinfrastructure Needs for the Biological Sciences: An NSF Workshop. Alexandria, VA. 13-15 July 2003. (46)
- 2003 "The Science Environment for Ecological Knowledge." Biodiversity and Ecological Analysis and Modeling Meeting. Cozumel, Mexico. 6-8 August 2003. (45)
- 2003 "Ecological Informatics: An LTER Perspective." Mesa del Sol Energy and Environment Center Planning Meeting, The University of New Mexico, Albuquerque, NM. 24 July 2003. (44)
- 2003 "Role of Databases and Information Technology in Research Coordination Networks." Research Coordination Networks: An NSF Workshop. NSF, Arlington, VA. 12 May 2003. (43)
- 2003 "The Science Environment for Ecological Knowledge (SEEK): Understanding change through information technology." Keynote Address at the Rhode Island Natural History Survey's 8th Annual Conference: Assessing Change in Rhode Island's Ecosystems. Rhodes On-the-Pawtuxet, Cranston, RI. 7 March 2003. (42)
- 2003 "Metadata standardization efforts in ecology." Sixth International Open Forum on Metadata Registries, La Fonda Hotel, Santa Fe, NM. 20-24 January 2003. (41)
- 2002 The Science Environment for Ecological Knowledge: Enabling ecology and biodiversity science through information technology. University of California Davis, Davis, CA. 29 October 2002. (40)
- 2002 The Science Environment for Ecological Knowledge: Enabling ecology and biodiversity science through information technology. University of California Berkeley, Berkeley, CA. 28 October 2002. (39)

- 2002 "OBFS database development and training activities." Annual Meeting of the Organization of Biological Field Stations, Kellogg Biological Station, Kalamazoo, MI. 19-22 September 2002. (38)
- 2002 "The Science Environment for Ecological Knowledge: Enabling ecology and biodiversity science through information technology." University of New Mexico, Department of Biology, Albuquerque, NM. (37)
- 2002 "Database Development in the Long-Term Ecological Research Network: Some Lessons learned." Kruger National Park, South Africa. 29 July 2002. (36)
- 2002 "Information management and policy." International Workshop on Ecology and Biodiversity in Southern Africa, Inhaca Island, Mozambique. 21-24 July 2002. (35)
- 2000 "Successful synergistic partnerships between scientists and information managers." Catalyst speaker at the LTER All Scientists' Meeting. (34)
- 2000 "Co-evolving ecology and ecoinformatics." Oak Ridge National Laboratory Environmental Sciences Division, Oak Ridge, TN. 9 June 2000. (33)
- 2000 "Natural disturbance dynamics in a highly fragmented longleaf pine ecosystem." University of Maryland. (32)
- 2000 "Co-evolving ecology and ecoinformatics." University of New Mexico. (31)
- 1999 "Robust ecological databases: taking the surprise out of serendipity." In: "Planning for Serendipity: Ecological Breakthroughs from Long-term Data," a symposium organized by R.J. Olson. 84th Annual Meeting of the Ecological Society of America, Spokane, WA. (30)
- 1999 "Disturbance in the longleaf pine ecosystem." National Science Foundation, Arlington, VA. (29)
- 1999 "Altering Coastal Plain landscapes for fun and profit: some ecological implications." Carlsbad Environmental Monitoring & Research Center, New Mexico State University, Carlsbad, NM. (28)
- 1999 "Information management and new directions in ecological research." Archbold Biological Station, Lake Placid, FL. (27)
- 1998 "The role of data and metadata archives in environmental monitoring and research programs." North American Symposium on Toward a Unified Framework for Inventorying and Monitoring Forest Ecosystem Resources, Guadalajara, Mexico. (26)
- 1998 "Information management challenges to integrated inventory and monitoring of forest ecosystem resources." {Invited Keynote Address.} North American Symposium on Toward a Unified Framework for Inventorying and Monitoring Forest Ecosystem Resources, Guadalajara, Mexico. (25)
- 1998 "The paradox of flood control." Albany Rotary Club, Albany, GA. (24)
- 1998 "Natural floods." [Congressional policy forum sponsored by the Ecological Society of America and the American Institute of Biological Sciences.] Capitol Hill, Washington, DC. (23)
- 1998 "Disturbances in the longleaf pine ecosystem: multiple scales of impacts and interactions." Kansas State University, Manhattan, KS. (22)
- 1998 "Flooding: natural and managed disturbances." University of Georgia, Institute of Ecology, Athens, GA. (21)
- 1998 "Pocket gophers to floods: a hierarchical view of disturbances." New Mexico State University, Carlsbad, NM. (20)
- 1997 "Advances in information management and metadata development for ecological data." {Invited Keynote Address.} Special Session ("Cross-site collaborations for the future" organized by the Association for Ecosystem Research Centers, Long-Term Studies Section of ESA, Organization

- of Biological Field Stations, and the Chairman of the LTER Network), Ecological Society of America Annual Meeting, Albuquerque, NM. (19)
- 1997 "Metadata." Workshop ("Data and Information Management in the Ecological Sciences: A Training Workshop"; 8-9 August 1997) funded by NSF. University of New Mexico, Albuquerque, NM. (18)
- 1996 "Biological issues in the Southeastern Coastal Plains." Florida Biotic Information Consortium, Tall Timbers Research Station, Tallahassee, FL. (17)
- 1996 "Quantitatively evaluating restoration "experiments": research design, statistical, and data management considerations." Restoration Ecology Workshop, National Center for Ecological Analysis and Synthesis, Santa Barbara, CA. (16)
- 1996 "Ecological disturbances in the southeastern US: patch, landscape, and regional perspectives." University of New Mexico, Albuquerque, NM. (15)
- 1995 "Scientific data and information challenges in ecology." National Center for Ecological Analysis and Synthesis, Santa Barbara, CA. 22 September 1995. (14)
- 1995 "Global change, hurricanes and tropical storms, and implications for conservation." University of Georgia, School of Ecology, Athens, GA. 8 November 1995. (13)
- 1995 "A hierarchical view of natural disturbances." Auburn University, Department of Zoology and Wildlife, Auburn, AL. (12)
- 1994 "Ecological knowledge for a sustainable biosphere: Technological considerations." Joseph W. Jones Ecological Research Center, Newton, GA. 6 October 1994. (11)
- 1994 "Spatial metadata for the environmental sciences." Long-Term Ecological Research Symposium and Workshop: The Management of Spatial Data and Inter-Site Data Access in the Ecological Sciences, University of Washington, Seattle, WA. 23-24 September 1994. (10)
- 2000 "Ecological impact of hurricanes." The Georgia Conservancy, Moultrie, GA. 26 October 1993. (9)
- 1992 "Utilization of Geographic Information System technology for estuarine research and resource management." North American Benthological Society, Louisville, KY. 29 May 1992. (8)
- 1991 "Geographic information system research at North Inlet, South Carolina." University of Virginia. 20 July 1991. (7)
- 1990 "Factors affecting shellfish recruitment, status of shellfishery model development throughout the world, and perceived needs." {Invited Keynote Address.} International Council for the Exploration of the Sea Special Symposium: Shellfish Life Histories and Shellfishery Models. Moncton, New Brunswick, Canada. 25-29 June 1990. (6)
- 1989 "Data administration." Co-authored with K. Haddad. Dahlem Conference on Data Management, W.K. Kellogg Biological Station, Michigan State University. (5)
- 1989 "Geographic Information System administration." Co-authored with K. Haddad. Dahlem Conference on Data Management. W.K. Kellogg Biological Station, Michigan State University. (4)
- 1988 "Climatic variability and salt marsh ecosystem response: relationship to scale." Co-authored with D.M. Allen, E.R. Blood, T.A. Hiltz, B. Kjerfve, and F.H. Sklar. Climatic Variability and Ecosystem Response Workshop, Boulder, Colorado. 21-23 August 1988. (3)
- 1985 "Development, management, and analysis of a long-term ecological research information base: example for marine macrobenthos." Co-authored with R.J. Feller and D.G. Edwards. Symposium on Long-Term Monitoring of Aquatic Ecosystems (sponsored by ASTM Committee E-47 on Biological Effects and Environmental Fate and by the Applied Ecology Section of the Ecological Society of America), Minneapolis, Minnesota. 17-21 June 1985. (2)

- 1984 “Data management and long-term ecological research.” Symposium on Research Data Management in the Ecological Sciences (sponsored by NSF), Georgetown, SC. 4-6 November 1984. (1)

IV. Contributed Paper Sessions Organized (7)

- 2014 Tools for Working with Ecological Data (Ignite Session Organizers: William Michener and Amber Budden), August 10-15, 2014, Ecological Society of America Annual Meeting, Sacramento, CA. (7)
- 2014 Creating Effective Data Management Plans for Ecological Research (Special Session Organizers: William Michener, Amber Budden, and Carly Strasser), August 10-15, 2014, Ecological Society of America Annual Meeting, Sacramento, CA. (6)
- 1995 “Importance of Long-Term Studies in Ecology”. (Co-organized with K. Gross). Annual Ecological Society of America Meeting, Snowbird, Utah. (5)
- 1993 “Hydrology and Spatial Modeling.” (plenary session). Second International Conference/Workshop on Integrating Geographic Information Systems and Environmental Modeling, Breckenridge, Colorado. 26-30 September 1993. (4)
- 1993 “Climate and Response to Climate Change.” Second International Conference/Workshop on Integrating Geographic Information Systems and Environmental Modeling, Breckenridge, Colorado. 26-30 September 1993. (3)
- 1989 “Spatial statistics and statistical ecology.” 74th Annual Ecological Society of America Meeting, University of Toronto, Toronto, Ontario, 6-10 August 1989. (2)
- 1988 “Ecological Analysis 1.” 73rd Annual Ecological Society of America Meeting, University of California, Davis, California, 14-19 August 1988. (1)

V. Contributed Presentations (95)

- 2019 “Milestones in Addressing Research and Digital Data Challenges in the Biodiversity and Ecological Sciences.” Talk presented at the 14th International Digital Curation Conference, February 4-7, 2019, Melbourne, Australia. (95)
- 2018 “Failing to Plan is Planning to Fail.” Talk presented at Inspire Session: Skills and Knowledge for Data-Intensive Ecological Research across the Data Lifecycle, Ecological Society of America, August 5, 2018, New Orleans, LA. (94)
- 2018 “Data Preservation.” Talk presented at Managing Ecological Data for Effective Use and Re-use: A Workshop for Early Career Scientists, Ecological Society of America, August 5, 2018, New Orleans, LA. (93)
- 2018 “Quality Assurance and Quality Control.” Talk presented at Managing Ecological Data for Effective Use and Re-use: A Workshop for Early Career Scientists, Ecological Society of America, August 5, 2018, New Orleans, LA. (92)
- 2018 “Data Management Planning.” Talk presented at Managing Ecological Data for Effective Use and Re-use: A Workshop for Early Career Scientists, Ecological Society of America, August 5, 2018, New Orleans, LA. (91)
- 2017 “Tools for Supporting Data Replication in Ecology.” Talk presented in Ignite session entitled Replication in Ecology, Ecological Society of America, August 8, 2017, Portland, OR. (90)
- 2017 “Failure to Plan is Planning to Fail.” Talk presented in Ignite session entitled Beyond the Data Life Cycle: Tips and Techniques for Working with Ecological Data, Ecological Society of America, August 8, 2017, Portland, OR. (89)

- 2017 “Creating Effective Data Management Plans.” Talk presented at Managing Ecological Data for Effective Use and Re-use: A Workshop for Early Career Scientists, Ecological Society of America, August 6, 2017, Portland, OR. (88)
- 2017 “Quality Assurance and Quality Control.” Talk presented at Managing Ecological Data for Effective Use and Re-use: A Workshop for Early Career Scientists, Ecological Society of America, August 6, 2017, Portland, OR. (87)
- 2017 “Data Discovery.” Talk presented at Managing Ecological Data for Effective Use and Re-use: A Workshop for Early Career Scientists, Ecological Society of America, August 6, 2017, Portland, OR. (86)
- 2017 “Evaluating the Effectiveness of Data Management Training: DataONE’s Survey Instrument” W. Michener and the DataONE CEO Working Group. Talk presented at the International Digital Curation Conference, February 22, 2017, Edinburgh, Scotland. (85)
- 2016 "DataONE Search: Discovering online data." W. Michener. Talk presented at the Ecological Society of America Meeting, August 10, 2016, Ft. Lauderdale, CO. (84)
- 2016 “Evaluating sustainability models for interoperability through brokering software.” J. Pearlman, K. Benedict, M. Best, S. Fyfe, C. Jacobs, W. Michener, S. Nativi, L. Powers, and A. Turner. Talk presented at the European Geophysical Union, April 17-22, 2016, Vienna, Austria [see Geophysical Research Abstracts, Vol. 18, EGU2016-PREVIEW, EGU General Assembly 2016] (83)
- 2015 “Staying in the Light: Evaluating Sustainability Models for Brokering Software.” L. Powers, K. Benedict, M. Best, S. Fyfe, S. Habtezion, C. Jacobs, W. Michener, S. Nativi, J. Pearlman, A. Turner. Talk presented at the American Geophysical Union, December 12-16, 2015, San Francisco, CA. (82)
- 2015 “Western Consortium for Watershed Analysis, Visualization and Exploration.” L. Fenstermaker, K. Benedict, G. Dana, M.J. Daniel, P. Goodwin, F. Harris, J. McNamara and W. Michener. Poster presented at: NSF EPSCoR National Conference (Steering Committee and Meeting Facilitator), November 1-3, 2015, Portsmouth, NH. (81)
- 2015 “DataONE: Saving the Planet One Byte at a Time.” W. Michener. Ignite talk presented at the Faculty Club at the University of New Mexico, September 30, 2015, Albuquerque, NM. (80)
- 2015 “An overview of DataONE (Observation Network for Earth).” W. Michener. Ignite talk presented in: DataNet Tools and Services (Ignite Session Organizers: A. Budden, T.A. Kugler and D. Akmon), August 9-14, 2015, Ecological Society of America Annual Meeting, Baltimore, MD. (79)
- 2015 “DataONE: Enhancing discovery and use of earth and environmental science data through education.” W. Michener, Y. Wang, A. Budden, V. Hutchison, and C. Strasser. Poster presented in: Advancing Ecological Understanding Using Network-Level Science (Poster Session Organizers: A.M. Fox and S. Henderson), August 9-14, 2015, Ecological Society of America Annual Meeting, Baltimore, MD. (78)
- 2015 “Creating an Effective Data Management Plan for Ecological Research.” W. Michener. Talk presented in: Creating Effective Data Management Plans for Ecological Research (Special Session Organizer: A. Budden), August 9-14, 2015, Ecological Society of America Annual Meeting, Baltimore, MD. (77)
- 2015 “DataONE.” W. Michener. Talk presented in: Population and Ecological Data Tools and Services: An Introduction to Working with Terra Populus and DataONE (Workshop Organizers: T.A. Kugler and A. Budden), August 9-14, 2015, Ecological Society of America Annual Meeting, Baltimore, MD. (76)

- 2014 “Data Discovery Using ONEMercury.” W. Michener. Talk presented in: Tools for Working with Ecological Data (Ignite Session Organizers: William Michener and Amber Budden), August 10-15, 2014, Ecological Society of America Annual Meeting, Sacramento, CA. (75)
- 2014 “Data Management Planning Tips and Techniques.” W. Michener. Talk presented in Creating Effective Data Management Plans for Ecological Research (Special Session Organizers: William Michener, Amber Budden, and Carly Strasser), August 10-15, 2014, Ecological Society of America Annual Meeting, Sacramento, CA. (74)
- 2014 “Failure to Plan is Planning to Fail.” W. Michener. Talk presented in Tips and Techniques for Working with Ecological Data (Ignite Session Organizers: Amber Budden and Sandra Chung), August 10-15, 2014, Ecological Society of America Annual Meeting, Sacramento, CA. (73)
- 2013 “DataONE.” W. Michener, A.E. Budden, R.B. Cook, R. Koskela, and D. Vieglais. Poster presented by W. Michener at the Tri-State EPSCoR Workshop on “Climate Change Science for Effective Resources Management and Public Policy in the Western United States,” March 27-28, 2013, University of Nevada Las Vegas, Las Vegas, NV. (72)
- 2013 “DataONE: Data Observation Network for Earth.” W. Michener, A.E. Budden, R. Koskela, D. Vieglais, and the DataONE Team. Presented by W. Michener at the 8th International Digital Curation Conference, held January 14-16, 2013 at Amsterdam, The Netherlands. (71)
- 2012 “Data Observation Network for Earth (DataONE): Enabling New Science by Supporting the Management of Data Throughout its Life Cycle.” Presented July 9-12, 2012 at The 7th International Conference on Open Repositories, Edinburgh, Scotland. (70)
- 2012 “DataONE: A Distributed Environmental and Earth Science Data Network Supporting the Full Data Life Cycle.” R. Cook, W. Michener, D. Vieglais, A. Budden, and R. Koskela. Presented by R. Cook at the European Geosciences Union General Assembly 2012, held April 22-27, 2012 at Vienna, Austria. (69)
- 2012 “DataNet: DataONE Observation Network for Earth): Enabling New Science by Supporting the Management of Data Throughout its Life Cycle.” W. Michener, A. Budden, R. Koskela, D. Vieglais, and the DataONE Team. Poster and talk presented by W. Michener at Data 2012 Coming Together Around Data, a PI Meeting for Datanet/Interop, held January 25-27, 2012 at Indiana University, Indianapolis, IN. (68)
- 2012 “INTEROP: Creation of a Virtual Data Center for the Biodiversity, Ecological, and Environmental Sciences.” W. Michener. Talk presented at Data 2012 Coming Together Around Data, a PI Meeting for Datanet/Interop, held January 25-27, 2012 at Indiana University, Indianapolis, IN. (67)
- 2011 “Trends in Use of Scientific Workflows: Insights from a Public Repository and Guidelines for Best Practices.” R. Littauer, B. Ludaescher, W. Michener, K. Ram, and R. Koskela. Talk presented at the 7th International Digital Curation Conference, held December 5-7, 2011 at Bristol, UK. (66)
- 2011 “DataONE (Observation Network for Earth): Enabling New Science by Supporting the Management of Data Throughout its Life Cycle.” W. Michener, A. Budden, R. Koskela, and D. Vieglais. Poster presented at the 7th International Digital Curation Conference, held December 5-7, 2011 at Bristol, UK. (65)
- 2011 “DataONE: A Virtual Data Center for the Biological, Ecological and Environmental Sciences.” Poster presented at the Federation of Earth Science Information Partners, July 12-15, 2011 at La Fonda Hotel, Santa Fe, NM. (64)
- 2006 “Ecological niche modeling with the Kepler Workflow System.” D. Pennington, W.K. Michener, D. Higgins, and A.T. Peterson. Presented at the 5th International Conference on Ecological Informatics (ISEI5), held December 4-7, 2006 at Santa Barbara, CA, USA. (63)

- 2004 "The Science Environment for Ecological Knowledge (SEEK): A Distributed, Ontologically-Driven Environment for Ecological Modeling and Analysis." (Pennington, D., Berkley, C., Bowers, S., Higgins, D., Jones, M.B., Ludaescher, B., Michener, W.K., Rajasekar, A., and Schildhauer, M.). GIScience '04, University of Maryland. 20-23 Oct. 2004. (62)
- 2004 "Science environment for ecological knowledge: providing cyberinfrastructure for ecologists." (Romanello, S.J., D. Pennington, W.K. Michener, M. Jones, B. Ludaescher and M. Schildhauer) 89th Annual Meeting of the Ecological Society of America. Portland, OR. 3 August 2004. (61)
- 2004 "Ecological Niche Modeling with the Science Environment for Ecological Knowledge (SEEK) Infrastructure." (Pennington, D., Michener, B., Beach, J., Jones, M., Ludaescher, B., Schildhauer, M.) Symposium of the US Regional Assoc. International Assoc. for Landscape Ecology, Las Vegas, NV. 31 March – 2 April 2004. (60)
- 2004 "Science Environment for Ecological Knowledge: providing distributed data and computational resources for ecologists (poster)." (Romanello, S. J., Pennington, D., Michener, W. K., Beach, J.H., Jones, M. B., Ludaescher, B. and Schildhauer, M.) Symposium of the US Regional Assoc. International Assoc. for Landscape Ecology, Las Vegas, NV. 31 March – 2 April 2004. (59)
- 2004 "Enabling the Science Environment for Ecological Knowledge (SEEK) (poster)." (Michener, W., J. Beach, M. Jones, B. Ludaescher, A. Rajasekar, M. Schildhauer) ITR PI Meeting, Washington, DC. 9-11 June 2004. (58)
- 2004 "Enabling the Science Environment for Ecological Knowledge (SEEK) (poster)." (Michener, W., J. Beach, M. Jones, B. Ludaescher, A. Rajasekar, M. Schildhauer) International Symposia on Long-Term Ecological Studies, Manaus, Brazil. July 1-11, 2004 (57)
- 2002 "Novel in-situ environmental sensor instruments." (Bonito, G.M. and W.K. Michener) 87th Annual Meeting of the Ecological Society of America, Tucson, AZ. 4-9 August 2002. (56)
- 2002 "*Ecological Archives*: ESA's electronic data archive." (Bain, J.L. and W.K. Michener)) 87th Annual Meeting of the Ecological Society of America, Tucson, AZ. 4-9 August 2002. (55)
- 1999 "Landscape ecology of the northern bobwhite quail." (Hollister, J.W., and W.K. Michener) International Association for Landscape Ecology World Congress, Snowmass Village, CO. 29 July-3 August 1999. (54)
- 1999 "Home range and cohabitation patterns of a population: estimating gopher tortoise area requirements." (Ott, J.A., W.K. Michener, and C. Guyer) 1999 Joint Meeting of the American Society of Ichthyologists and Herpetologists, American Elasmobranch Society, the Herpetologists' League, and the Society for the Study of Amphibians and Reptiles. Pennsylvania State University, State College, PA. 25-30 June 1999. (53)
- 1999 "Wetland changes associated with irrigating a Coastal Plain watershed." (Blood, E.R., and W.K. Michener) 84th Annual Meeting of the Ecological Society of America, Spokane WA. 8-12 August 1999. (52)
- 1998 "Fire and microsite soil disturbance in longleaf pine ecosystems: influence of microclimate on plant recruitment." (Simkin, S.M., W.K. Michener, and R. Wyatt) Ecological Society of America, Baltimore, MD. 2-6 August 1998. (51)
- 1998 "Gopher tortoise (*Gopherus polyphemus*) movement patterns in large and small habitats: How much land is enough?" (Ott, J.A., W.K. Michener, and C. Guyer) Ecological Society of America, Baltimore, MD. 2-6 August 1998. (50)
- 1998 "The importance of ecological metadata." (Michener, W.K.) Ecological Society of America, Baltimore, MD. 2-6 August 1998. (49)
- 1997 "Gopher tortoise social dynamics." (Boglioli, M, W. Michener, and C. Guyer) Gopher Tortoise Council, Laura S. Walker State Park, Waycross, GA. 17-19 October 1997. (48)
- 1997 "Soil disturbance in the longleaf pine ecosystem." (Simkin, S., M. Dills, C. Guyer, K. Kirkman, W. Michener, R. Mitchell, and R. Wyatt) Gopher Tortoise Council, Laura S. Walker State Park, Waycross, GA. 17-19 October 1997. (47)

- 1997 "Influence of dominance structure on gopher tortoise movement." (Ott, J., C. Guyer, and W. Michener) Gopher Tortoise Council, Laura S. Walker State Park, Waycross, GA. 17-19 October 1997. (46)
- 1997 "Gopher tortoise trapping success." (Birkhead, R., W. Michener, D. Fussell, and J. Ott) Gopher Tortoise Council, Laura S. Walker State Park, Waycross, GA. 17-19 October 1997. (45)
- 1997 "Gopher tortoise population responses to a major flood." (Fussell, D., W. Michener, P. Houhoulis, and R. Birkhead) Gopher Tortoise Council, Laura S. Walker State Park, Waycross, GA. 17-19 October 1997. (44)
- 1997 "Habitat selection by northern bobwhite quail: a landscape perspective." (Michener, W.K., J.B. Atkinson, P.F. Houhoulis, P.M. Johnson, R.N. Smith, and D.G. Edwards) International Quail IV Symposium, Tallahassee, FL. (43)
- 1997 "Flood disturbance in a southeastern U.S. coastal plain landscape." (Michener, W.K., E.R. Blood, J. Brim Box, C.A. Couch, S.W. Golladay, D.J. Hippe, L.K. Kirkman, R.J. Mitchell, and B.J. Palik) Ecological Society of America, Albuquerque, NM. 10-14 August 1997. (42)
- 1997 "Managed and natural floods: implications for management, policy, and research." (Haeuber, R.A., W.K. Michener, and F.J. Swanson) Ecological Society of America, Albuquerque, NM. 10-14 August 1997. (41)
- 1997 "Habitat selection and modification by the gopher tortoise." (Dills, M.D., W.K. Michener, C. Guyer, L.K. Kirkman, and R.J. Mitchell) Ecological Society of America, Albuquerque, NM. 10-14 August 1997. (40)
- 1997 "Landscape ecology of northern bobwhite quail in a longleaf pine ecosystem." (Johnson, P.M., W.K. Michener, J.B. Atkinson, D.G. Edwards, P.F. Houhoulis, and R.N. Smith) Ecological Society of America, Albuquerque, NM. 10-14 August 1997. (39)
- 1997 "Landscape-scale responses of a longleaf pine ecosystem to drought and flooding." (Houhoulis, P.F. and W.K. Michener) Ecological Society of America, Albuquerque, NM. 10-14 August 1997. (38)
- 1997 "Variation in soil CO₂ flux within and among sites in longleaf pine-wiregrass communities." (Pecot, S.D., R.J. Mitchell, J. Vose, W.K. Michener, and J.J. Hendricks) Ecological Society of America, Albuquerque, NM. 10-14 August 1997. (37)
- 1997 "Habitat selection by northern bobwhite quail: a landscape ecology perspective." (Michener, W.K., J.B. Atkinson, D.G. Edwards, P.F. Houhoulis, P.M. Johnson, and R.N. Smith) International Association for Landscape Ecology, Durham, NC. (36)
- 1997 "Drought and flood impacts on a longleaf pine ecosystem." (Houhoulis, P.F. and W.K. Michener) International Association for Landscape Ecology, Durham, NC. (35)
- 1997 "Differential landscape-scale responses to floods and droughts." (Houhoulis, P.F. and W.K. Michener) ACSM/ASPRS, Seattle, Washington. 7-10 April 1997. (34)
- 1996 "Remotely sensed vegetation changes associated with extensive flooding in a longleaf pine-wiregrass ecosystem." (Michener, W.K. and P.F. Houhoulis) International Association for Landscape Ecology, Galveston, Texas. (33)
- 1996 "Restoration of the longleaf pine-wiregrass ecosystem: Challenges and opportunities." (Mitchell, R.J., L.K. Kirkman, L.R. Boring, and W.K. Michener) Ecosystem Restoration Workshop (sponsored by the Society for Ecological Restoration), Lakeland, FL. (32)
- 1996 "Burrow dispersion and social dynamics of gopher tortoise." (Dills, M., C. Guyer, and W.K. Michener) Gopher Tortoise Council, Wekiwa Springs, FL. (31)
- 1996 "Landscape-scale responses to flooding in a longleaf pine-wiregrass ecosystem." (Michener, W.K. and P.F. Houhoulis) Ecological Society of America, Providence, RI. (30)

- 1996 "Detection of vegetation changes associated with Tropical Storm Alberto in a longleaf pine-wiregrass ecosystem." (Houhoulis, P.F. and W.K. Michener) ASPRS, Baltimore, MD. (29)
- 1995 "Disturbance identification and assessment via ecological change detection analysis of long-term, broad-scale data." (Michener, W.K. and P.F. Houhoulis) Ecological Society of America, Snowbird, Utah. (28)
- 1995 "Effects of flooding associated with Tropical Storm Alberto on the longleaf pine-wiregrass ecosystem." (Houhoulis, P.F., W.K. Michener, E.R. Blood, L.R. Boring, S.W. Golladay, L.K. Kirkman, R.J. Mitchell, and B.J. Palik) Ecological Society of America, Snowbird, Utah. (27)
- 1995 "Gopher tortoise research at Ichauway." (Dills, M., C. Guyer, and W.K. Michener) Gopher Tortoise Council, George T. Bagby State Park, Fort Gaines, Georgia. 13-15 October 1995. (26)
- 1995 "Effects of flooding on the longleaf pine-wiregrass ecosystem." (Michener, W.K.) Georgia Water Resources Conference, The University of Georgia, Athens, Georgia. 11-12 April 1995. (25)
- 1994 "Impact of habitat fragmentation and shrub-hardwood invasion on an Eastern Fox Squirrel population." (Michener, W.K., R.N. Smith, P.F. Houhoulis, and J.L. Landers) Ecological Society of America, Knoxville, TN. (24)
- 1993 "Coastal geographic information systems." Symposium: Sustainable Development in the Southeastern Coastal Zone, Myrtle Beach, SC. 2-5 March 1993. (23)
- 1992 "An integrated geographic information system, global positioning system, and spatio-statistical approach for analyzing ecological patterns at landscape scales." (Michener, W.K., W.H. Jefferson, D.A. Karinshak, and D. Edwards) Geographic Information Systems/Land Information Systems Annual Meeting, San Jose, California. 10-12 November 1992. (22)
- 1991 "Developing GIS data layers for estuarine resource management." (Jefferson, W.H., W.K. Michener, D.A. Karinshak, W. Anderson, and D.E. Porter) Geographic Information Systems/Land Information Systems, Atlanta, Georgia. 28 October – 1 November 1991. (21)
- 1991 "GIS assessment of large-scale ecological disturbances (Hurricane Hugo, 1989)." (Michener, W.K., E.R. Blood, L.R. Gardner, B. Kjerfve, M. Cablk, C. Coleman, W.H. Jefferson, D.A. Karinshak, and F.D. Spoon) Geographic Information Systems/Land Information Systems, Atlanta, Georgia. 28 October – 1 November 1991. (20)
- 1991 "Design and implementation of a coastal resource geographic information system: administrative considerations." (Haddad, K. and W.K. Michener) Seventh Symposium on Coastal and Ocean Management/ASCE. Long Beach, California. 8-12 July 1991. (19)
- 1991 "Incorporating global positioning system technology into coastal mapping and research efforts." (Michener, W.K., W.H. Jefferson, D.A. Karinshak, and C. Gilbert) Seventh Symposium on Coastal and Ocean Management/ASCE, Long Beach, California. 8-12 July 1991. (18)
- 1991 "Impacts of urbanization on high salinity estuaries in the southeastern United States: a comparative ecosystem study." (Vernberg, F.J., and co-authored with W.B. Vernberg, E. Blood, A. Fortner, M. Fulton, H. McKellar, W. Michener, G. Scott, and T. Siewicki) European Marine Biology Symposium, Middelburg, The Netherlands. (17)
- 1991 "Geomorphological and ecological impacts of Hurricane Hugo on a coastal landscape: North Inlet, South Carolina, USA." (Gardner, L.R., W.K. Michener, T.M. Williams, E.R. Blood, B. Kjerfve, L.A. Smock, and D.J. Lipscomb) European Marine Biology Symposium, Middelburg, The Netherlands. (16)
- 1991 "The importance of scale in assessing the impact of hurricanes on ecosystems." (Lawrence, W.T., D.R. Foster, B. Kjerfve, and W.K. Michener) Ecological Society of America, San Antonio, Texas. (15)

- 1991 "Ecological impacts of Hurricane Hugo on a coastal landscape." (Michener, W.K., L.R. Gardner, E.R. Blood, B. Kjerfve, W.H. Jefferson, D.A. Karinshak, and C.H. Coleman) Ecological Society of America, San Antonio, Texas. (14)
- 1990 "A six-year GIS analysis of the distribution and abundance of White Ibises feeding in a South Carolina salt marsh." (Michener, W.K., K.L. Bildstein, and A.H. Barnard) Ecological Society of America, Snowbird, Utah. 29 July – 2 August 1990. (13)
- 1990 "Patchiness and zonation in southeastern US intertidal communities." (Michener, W.K., W.H. Jefferson, and J.W. Brunt) Ecological Society of America, Snowbird, Utah. 29 July – 2 August 1990. (12)
- 1990 "Spatial settlement patterns of oysters in South Carolina." (Michener, W.K., A.H. Barnard, W.H. Jefferson, P.D. Kenny, and J.W. Brunt) National Shellfisheries Association, Williamsburg, Virginia. 1-5 April 1990. (11)
- 1990 "*Crassostrea virginica* (American oyster) recruitment in the intertidal zone." (Michener, W.K., W.H. Jefferson, and J.W. Brunt) International Council for the Exploration of the Sea Special Symposium: Shellfish Life Histories and Shellfishery Models, Moncton, New Brunswick, Canada. 25-29 June 1990. (10)
- 1989 "Geographic information systems and remotely sensed data for coastal research and resource management." (Michener, W.K., D. Cowen, and W.L. Shirley) Sixth Symposium on Coastal and Ocean Management/ASCE, Charleston, SC. 11-14 July 1989. (9)
- 1989 "Spatial settlement patterns of oysters and barnacles in two southeastern estuaries." (Michener, W.K. and W.H. Jefferson) 10th Biennial International Estuarine Research Federation Conference, Baltimore, Maryland. 8-12 October 1989. (8)
- 1988 "Long-term ecological research on the North Inlet forest-wetlands-marine landscape, Georgetown, SC." (Vernberg, F.J., W.K. Michener, et al.) Seminar Series on Diagnosis and Prognosis - Barrier Island/Salt Marsh Estuaries, Southeast Atlantic Coast: Issues, Resources, Status and Management, Washington, DC. 17 February 1988. (7)
- 1988 "Factors affecting settlement of the American oyster (*Crassostrea virginica*) in North Inlet, SC." (Michener, W.K., P.D. Kenny, and D.M. Allen) Ecological Society of America Meeting, Davis, California. 14-19 August 1988. (6)
- 1988 "A multi-dimensional exploration of zooplankton and macrobenthos temporal dynamics in a coastal estuary." (Edwards, D.G., R.J. Feller, W.K. Michener, and S.E. Stancyk) Ecological Society of America, Davis, California. 14-19 August 1988. (5)
- 1984 "Gonadal condition of hard clams in a South Carolina estuary." (Eversole, A.G., P.J. Eldridge, and W.K. Michener) Annual Conf. Southeast. Assoc. Fish and Wildlife Agencies. (4)
- 1983 "Age, growth, and sex ratio of American eels in Charleston Harbor, South Carolina." (Michener, W.K. and A.G. Eversole) Annual Conf. Southeast. Assoc. Fish and Wildlife Agencies. {Best Student Paper Award.} (3)
- 1983 "Short term and seasonal dynamics of zooplankton and motile epibenthos in a southeastern U.S. estuary." (Allen, D.M., W.K. Michener, and S.E. Stancyk) Seventh Biennial International Research Conference. Virginia Beach, Virginia. 22-26 October 1983. (2)
- 1980 "Reproductive response to increased density: some observations from Molluscs." (Eversole, A.G., W.K. Michener, and P.J. Eldridge) National Shellfisheries Association. Hyannis, Massachusetts. 9-12 June 1980. (1)

Teaching (University of New Mexico, Albuquerque, NM)

- 2014 INFO 530: Walter E. Dean Environmental Information Management Institute, June 2-6, 2014 (Developed course and taught: (1) Data Life Cycle; and (2) Data Management Planning.
- 2013 INFO 530: Walter E. Dean Environmental Information Management Institute, June 3-7, 2013 (Developed course and taught: (1) Data Life Cycle; and (2) Data Management Planning.
- 2013 New Mexico Faculty Leadership Program: Creating the Next Generation of Academic Leaders, January 7-9, 2013 at Valles Caldera Science and Education Center, Jemez Springs, NM. (Developed 3-day program and taught: (1) "Planning and Writing Effective Proposals"; (2) "Increasing Your Productivity: Concepts and Tools"; (3) "Professional Ethics"; and (4) "Communicating Science to Decision-makers")
- 2012 INFO 530: Walter E. Dean Environmental Information Management Institute, May 28-June 8, 2012 (Developed course and taught: (1) Data Life Cycle; and (2) Data Management Planning.
- 2012 New Mexico Faculty Leadership Program: Creating the Next Generation of Academic Leaders, January 4-6, 2012 at Valles Caldera Science and Education Center, Jemez Springs, NM. (Developed 3-day program and taught: (1) "Planning and Writing Effective Proposals; (2) "Increasing Your Productivity: Concepts and Tools"; and (3) "Professional Ethics.")
- 2011 New Mexico Faculty Leadership Program: Creating the Next Generation of Academic Leaders, January 4-6, 2010 at Valles Caldera Science and Education Center, Jemez Springs, NM. (Developed 3-day program and taught: (1) "Planning and Writing Effective Proposals; (2) "Increasing Your Productivity: Concepts and Tools"; and (3) "Professional Ethics.")
- 2010 New Mexico Faculty Leadership Program: Creating the Next Generation of Academic Leaders, January 5-7, 2010 at Santa Fe Institute, Santa Fe, NM. (Developed 3-day program and taught: (1) "Planning and Writing Effective Proposals; and (2) "Increasing Your Productivity: Concepts and Tools.")
- 2001 Using a Knowledge Network to Explore Scale-Dependent Relationships Between Species Richness and Productivity – Guest lecturer.

Teaching (Ecological Society of America)

- 2014-2018 Strategic Planning and Project Management. Ecological Society of America's Sustaining Biological Infrastructure Program, Baltimore, MD (also Ft Collins, CO in October 2018).

Teaching (University of South Carolina, Columbia, SC)

- 1991 Estuarine Oceanography - Guest lecturer.
- 1991 Geology and Geochemistry of Salt Marshes - Organized field trip and class project.
- 1991 Oceans and Man - Guest lecturer.
- 1991 Special Problems in Marine Science - Taught principles of Geographic Information Systems and supervised independent research projects.
- 1989-1990 Analytical Concepts for Environmental Health Sciences - Guest lecturer.
- 1989 Special Topics in Marine Science - Guest lecturer.
- 1986 Physical-Chemical Oceanography - Taught laboratory component.

Special Training:

- 2012 Science: Becoming the Messenger (NSF), Albuquerque, NM, 18-19 April 2012
- 2003-2006 Project Science—Managing Large Science Projects, Aspen, CO. Week-long training.
- 2001 National Science Foundation Program Directors Training: 21-24 September 1999
- Miscellaneous software training: ARC/INFO, ERDAS, SAS, FORTRAN, BASIC

Editorial Positions:

- 2005 – Associate Editor, *Journal of Ecological Informatics*
- 2001 – Editor, *Ecological Archives*
- 2001 – Board of Editors, *Ecological Monographs*
- 2001 – Board of Editors, *Ecology*

International Service:

- 2018 Reviewer for Belmont Forum (2 proposals).
- 2018 Reviewer for Norway Science Board, Norway.
- 2017 Reviewer for “INFuture2017: Integrating ICT in Society,” University of Zagreb, Croatia.
- 2016 Reviewed “CODATA-RDA Principles and Guidelines for Legal Interoperability of Research Data” for CODATA Organization and the Research Data Alliance.
- 2015 Appointed to the Strategic Planning Taskforce for the Organization for Tropical Studies.
- 2014 Appointed to the IODE Science Advisory Task Force for OBIS (sponsored by UNESCO’s Intergovernmental Oceanographic Commission).
- 2013 Reviewer for The International Journal of Digital Curation.
- 2012, 2013 Reviewer for King Abdullah University of Science and Technology (KAUST) Office of Competitive Research Funds (OCRF) Competitive Research Grant (CRG) Program, Kingdom of Saudi Arabia.
- 2011-2012 International Scientific Committee for the 8th International Conference on Ecological Informatics ISEI 2012 (U.S. representative)
- 2010 – 2016 Board of Directors for the Organization for Tropical Studies
- 2010 – 2012 Elected Co-Chair for the Science Committee for the Organization for Tropical Studies
- 2009 Consulted with PI of Virgin Islands’ EPSCoR Project at the University of the Virgin Islands in St. Thomas, VI. November 30, 2009.
- 2004-2008 Organization for Tropical Studies Informatics Committee – Member
- 2002-2003 Organization for Tropical Studies Informatics Committee – Chair
- 1996 Instructor at “International Long-Term Ecological Research Data/Information Management Workshop” (NSF)
- 1994-1995 Reviewer for Intergovernmental Panel on Climate Change
- 1992 Chinese Academy of Sciences Advisory Committee
- 1991 World Bank Advisory Committee for Chinese Ecological Research Network (CERN)

National Service:

- 2019 Reviewer for *PLoS Computational Biology*
- 2018 Reviewer for *TREE* (3), *PLoS Computational Biology* (2), NSF HBCU Program (2 proposals), eos, The University of Arizona School of Information Tenure & Promotion candidates (2), Dryad Board of Directors, Dryad Executive Director Search Committee, Dryad and California Digital Library Integration Task Force, Dryad Governance Committee
- 2016 – Served on External Advisory Board for Florida International University's CREST Center for Aquatic Chemistry and the Environment (CACE), Miami, FL.
- 2016-2019 Served on External Advisory Board for University of Illinois' Whole Tale NSF DIBBS Project, Urbana-Champaign, IL.
- 2014-2017 Served on Board of Directors for ESIP
- 2011-2016 Served on Board of Directors for Organization for Tropical Studies
- 2013 – Served on the Ecological Society of America's Advisory Board for "Sustaining Biological Infrastructure: Strategies for Success (A Short Course for NSF Project Directors).
- 2013-2015 Served on the SEAD Advisory Board (Feb. 5, 2013), University of Michigan, Ann Arbor, MI.
- 2011-2016 Served on Administrative Board for Cornell Lab of Ornithology
- 2012 Reviewer for *BioScience*
- 2012 Reviewer for National Science Foundation Office of Cyberinfrastructure (Strategic Technologies for CI Program)
- 2012-2015 Elected Chairperson of Dryad Board of Directors.
- 2012 – Served as a reviewer for the Promotions & Tenure Committee of Purdue University Libraries.
- 2012 – Appointed to and served on External Advisory Board for the Coastal Hazards Collaboratory, an NSF EPSCoR Track II Project for Louisiana, Alabama, and Mississippi.
- 2012 Reviewer of special feature (Macrosystems Ecology) of *Frontiers in Ecology and the Environment*
- 2012 Reviewer for *Trends in Ecology and Evolution*
- 2012 Reviewer for NSF Informal Science Education Panel
- 2012 – Appointed to and served on External Advisory Board for CI-WATER: Cyberinfrastructure to Advance High Performance Water Resource Modeling, an NSF EPSCoR Track II Project for Utah and Wyoming.
- 2011 – Appointed to and served on External Advisory Board for Utah EPSCoR program entitled iUtah.
- 2011 – Appointed to and served on External Advisory Board for Wyoming EPSCoR program
- 2011 – Appointed to Ecological Society of America's Advisory Committee for ESA's Sustaining Biological Infrastructure Short Course
- 2011 – Appointed to SEAD (Sustainable Environment – Actionable Data) Advisory Board at the University of Michigan
- 2011-2012 Appointed to Arizona State University Advisory Board for Planning Archaeological Infrastructure for Integrative Science

- 2011 Reviewer for Frontiers in Earth Systems Dynamics, Division of Atmospheric and Geospace Sciences, NSF.
- 2011 Reviewer for Experimental Program to Stimulate Competitive Research, NSF.
- 2011 Reviewer for Field Stations and Marine Laboratories Program, Division of Biological Infrastructure, NSF.
- 2011 NSF Informal Science Education Panel, June 16-17, 2011, Washington, DC.
- 2010-2011 Served on Program Committee for 22nd NSF EPSCoR National Conference in 2011.
- 2010-2014 Elected to and served on NSF EPSCoR National Executive Committee
- 2010 Served on Department of Energy Peer-Review Panel for “Scientific Data Management and Analysis at Extreme Scale.” Panel held May 4-5, 2010 at Rockville, Md.
- 2010 Served on Planning Committee for ASIST Summit that was held April 9-10, 2010 in Phoenix, AZ.
- 2010 Served on Planning Committee for a series of three “Open Access Repository” workshops that were funded by NSF and held at the Council on Library and Information Resources, Washington, DC during January and February 2010.
- 2010-2013 Served on Cornell Lab of Ornithology Board of Directors (2010-2013).
- 2009 – Served on Hawk Mountain Sanctuary Advisory Board (2009-present).
- 2009 Served on Dryad Executive Committee and Dryad Management Board at the National Evolutionary Synthesis Center, Durham, NC.
- 2005-2007 Elected to Board of Professional Certification, Ecological Society of America (Chair, 2006-2007)
- 2005-2006 CUAHSI Hydrologic Information System Advisory Committee member
- 2006-2007 CLEANER National Advisory Board member
- 2006-2007 Citizen Science Toolkit Advisory Board, Cornell Laboratory of Ornithology
- 2006-2007 National Research Council Committee on Integrated Observations for Hydrologic and Related Sciences
- 2006 NSF EPSCoR Review Panel
- 2006-2007 Senior Advisor to NEON, Inc. Board of Directors
- 2005-2007 Member National Advisory Board for Wyoming EPSCoR Program
- 2006-2008 Member National Advisory Board for Citizen Science Toolkit Research Program at Cornell Laboratory of Ornithology
- 2003 National Review Panel for the National Oceanic and Atmospheric Administration’s Centralized Data Management Office of the National Estuarine Research Reserve System
- 2003-2006 Long Term Ecological Research Network Committee: Major Biological and Environmental Infrastructure, Chair
- 2002-2003 American Institute for Biological Sciences Infrastructure for Biology at Regional to Continental Scales (IBRCS) Working Group, member.
- 2003- Board of Advisors for Acopian Center for Conservation Learning and Hawk Mountain Sanctuary
- 2002 Nominations Committee, Organization for Biological Field Stations
- 1999-2001 National Science Foundation representative for the Biological Data Working Group (Inter-Agency activity for the Federal Geographic Data Committee)

- 1999-2001 National Science Foundation representative for the Biodiversity and Ecosystem Informatics Working Group (Inter-Agency planning committee)
- 1999 American Institute of Biological Sciences Peer Advisory Panel (Chair) for “Biological Profile of the Content Standard for Digital Geospatial Metadata”
- 1998-1999 Science Advisory Board, Carlsbad Environmental Monitoring & Research Center, New Mexico State University (independent center funded by DOD and established to monitor WIPP)
- 1996-1997 Vegetation Classification (Metadata Standards) Committee, Ecological Society of America and the Federal Geographic Data Committee
- 1995-1998 Data and Archiving Committee, Ecological Society of America
- 1995 National Science Foundation Committee of Visitors (Division of Biological Instrumentation and Resources)
- 1993-1995 Future of Long-Term Ecological Data (FLED) Committee, Ecological Society of America
- 1995-1996 Ecological Society of America Program Committee - member.
- 1994-1996 Long-Term Studies Section of the Ecological Society of America, Chair (elected office)
- 1994 National Science Foundation, scientific review team for the Palmer LTER site, Antarctica (February 1994)
- 1988-1993 Long-Term Ecological Research Data Management Committee (Co-Chair)
- 1988-1993 Long-Term Ecological Research Network's Data Management Steering Committee
- 1991-1993 Ecological Society of America Statistical Ecology Section, Vice-chairman (elected)
- 1990-1993 Long-Term Ecological Research GIS Committee
- 1989-1993 Long-Term Ecological Research Climate Committee
- 1993 National Science Foundation, scientific review team for the Andrews LTER site, Oregon (15-16 June 1993)
- 1992 NSF Postdoctoral Research in Computational Biology review panel
- 1991-1992 NSF Facilities and Instrumentation review panel
- 1991-1992 University of New Mexico scientific advisory board for the Department of Biology
- 1991 National Academy of Sciences Delegation (reviewed and established collaborative research efforts with the Chinese Ecological Research Network; 30 August – 21 September)
- 1991 NSF scientific review team for the Arctic Tundra LTER site, Alaska
- 1991 NSF scientific review team for the Bonanza Creek Experimental Forest LTER site, Alaska
- 1990 NOAA scientific review panel “Mapping of emergent wetlands, administration workshop” Columbia, SC, 29-31 May 1990
- 1990 LTER Coordinating Committee (Special Guest) - April 1990, San Juan, Puerto Rico

New Mexico Service:

- 2003 Organized review of New Mexico’s biodiversity database activities for NSF EPSCoR Program in New Mexico. 3-4 December 2003.

South Carolina Service:

- 1991-1992 Charleston Harbor Project GIS and Database Committee, South Carolina Coastal Council
1991 Joint South Carolina/Georgia Coastal Boundary Layer Working Group, South Carolina Sea Grant Consortium

University of New Mexico:

- 2018 UNM CUL&LS, Merit Review Committee
2017 Data Curation Librarian Search Committee for CUL&LS
2016-2018 UNM IT Research Technologies Advisory Board
2016- Associate Deans' for Research/Center Directors Meeting (ADR/RC) for the Office of the Vice President for Research
2015 Review panel for Office of the Vice President for Research review of EPSCoR Track 2 proposal submissions.
2015 Research Center Directors, Advisory Group for the Vice President for Research (monthly meetings).
2014 College of University Libraries & Learning Sciences: Chair of Search Committee for Director of Research Data Services.
2011-2014 University Libraries Dean's Cabinet
2013- UNM OVPR Center Directors Board
2013 Facilitated OVPR Strategic Planning Retreat for Center Directors
2010 Represented UNM as part of Hewlett Packard Campus Visit and presented talk on "DataONE." August 24, 2010 at Mesa del Sol, Albuquerque, NM.
2010-2016 Founded and served on UNM Research Storage Consortium (monthly meetings).
2010 Represented UNM as part of Sandia National Laboratories Visit and presented talk on "DataONE." August 24, 2010 at UNM.

University of South Carolina Service:

- 1989-1993 Chair of Baruch Institute's Data Management Steering Committee.
1989-1993 Baruch Institute's Coastal Facilities Committee
1990-1993 College of Public Health's NOAA (USES) Steering Committee
1989-1993 Administrator for Baruch Institute's Geographic Information System and Staff
1982-1993 Administrator for Baruch Institute's Data Management System and Staff

J.W. Jones Ecological Research Center Service Activities (1993-1999):

Geographic Information Systems Committee, Chair and member.
Computer Operations and Network Management Committee, Chair and member.
Executive Committee, Member.
Restoration Committee, Member.
Search Committee for Geographic Information Systems Manager, Chair.
Search Committee for Computer Operations and Network Manager, Chair.
Conservation Committee, Member.
Master Planning Committee, Member.
Technology Planning Committee, Chair.

Search Committee for Wildlife Ecologist Position, Chair.
Search Committee for Forest Ecologist Position, Member.

Scholarly or Peer Reviews:

Advances in Biometry
Biological Conservation (2013, 2016)
BioScience
Blackwell Science (Methods in Ecology Series)
Conservation Biology (2013)
Current Biology (2013)
Ecology
Ecological Applications
Environmental and Ecological Statistics
IFLA Journal (2016; 2 papers)
Inland Waters (2015)
International Digital Curation Conference (2013, 2014: Program Committee for IDCC 2014)
International Journal of Remote Sensing
Journal of Experimental Marine Biology and Ecology
Journal of the Marine Biological Association of the United Kingdom
Journal of Vegetation Science
Landscape Ecology
Photogrammetric Engineering & Remote Sensing
Remote Sensing of Environment
Trends in Ecology and Evolution (2013, 2015)

Proposal Reviews:

National Science Foundation (primarily, Division of Environmental Biology)
 Climate Dynamics (Division of Atmospheric Sciences)
 EarthCube (2015)
 Ecology
 Ecosystem Studies
 Population Biology
 Biological Databases and Informatics
 Biological Database Activities (Division of Biological Instrumentation and Resources, BIR)
 Computational Biology Activities (BIR)
 Instrumentation and Instrument Development Program (BIR)
 Long Term Studies
 Ocean Technology and Interdisciplinary Coordination (Division of Ocean Sciences)
 Office of Science and Technology Infrastructure
 Division of International Programs
 Field Station and Marine Laboratory Program
 Small Business Innovation Research Program
 Database and Expert Systems Program (Division of Information, Robotics, and Intelligent Systems)
National Oceanic and Atmospheric Administration
 Saltonstall-Kennedy Grants Program, National Marine Fisheries Service
 Sea Grant
US Department of Agriculture
 Sustainable Agriculture Research and Education Program
 Cooperative State Research, Education, and Extension Service Fund for Rural America
US Department of Energy
National Environmental Education and Training Foundation
The Conservation Fund

Kaust Foundation, Saudi Arabia (2013)

Consulting:

1986 - present. Miscellaneous data and information management consulting services for Australian Terrestrial Ecosystem Network, U.S. Geological Survey, USDA Forest Service, National Park Service, Smithsonian Institution, Organization of Biological Field Stations, Organization for Tropical Studies, World Bank, and various colleges and universities.

1994-1995. Consultant to the Environmental Protection Agency for thematic synthesis and manuscript preparation.

1993-1994. Consultant to the World Bank for international GIS and database development.

1984-1986. Consultant for the National Marine Fisheries Service (through a sub-contract granted to Air and Water Research, Inc., Gainesville, FL). Performed 50+ environmental impact assessments.

Graduate Advisors & Colleagues:

Ph.D.: T.J. Hilbish, D. Edwards, B. Kjerfve, D. Cowen

M.S.: A.G. Eversole, L. Grimes, J. Schindler

Graduate Students:

Auburn University (MS): Melissa Boglioli (Spring 1999), Jeannine Ott (Fall 1999), Roger Birkhead (Spring 2000)

University of Georgia (MS): Samuel Simkin (Fall 1998), Paula Johnson (Spring 2000)

Post Doctoral Associates:

University of New Mexico: Deana Pennington (2002-2006), Samantha Romanello (2003-2006), Jianting Zhang (2004-2006), Andrea Wiggins (2012-2014)

American Institute of Biological Sciences: Kit Batten (2004-2005), Jeff Hollister (2004-2005), David Kirschtel (2004-2006), Rand Knight (2004-2006), Meeko Oishi (2004-2005), Brian Wee (2004-2006)

Personal Information:

Birth Date: 25 January 1955; Birthplace: Newark, Ohio; Citizenship: United States