

William K. Michener

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Professional Preparation:

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

Appointments:

2007-present	Director, New Mexico EPSCoR State Program, University of New Mexico
2000-present	Associate Director (LTER Network Office) and Research Professor (Department of Biology), University of New Mexico
1999-2000	Program Director (Ecology and Biocomplexity), National Science Foundation
1993-1999	Associate Scientist, J.W. Jones Ecological Research Center
1993-2002	Baruch Associate, Baruch Institute, University of South Carolina
1996-2001	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
1984-1993	Director, Coastal Geographic Information Systems & Research Database Facility, Baruch Institute, University of South Carolina
1982-1984	Statistician, Baruch Institute, University of South Carolina
1980-1982	Research Associate, Baruch Institute, University of South Carolina

Publications:

(i) Publications Most Relevant to Proposed Project

- National Research Council. In press. *Integrated Observations for Hydrologic and Related Sciences: Pursuing New, Complementary Spaceborne, Sub-orbital, and Ground-based Observations for Advancing Hydrologic and Related Sciences*. National Academy Press, Washington, DC.
- Peters, D., P. Groffman, K. Nadelhoffer, N.B. Grimm, S. Collins, W. Michener, M. Huston. In press. Living in an increasingly connected world: a framework for continental-scale environmental science. *Frontiers in Ecology and the Environment*.
- Sundareshwar, P.V., ..., W. K. Michener, et al. 2007. Environmental monitoring network for India. *Science* 316:204-205.
- 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.
- Porter, J., P. Arzberger, H. Braun, P. Bryant, S. Gage, T. Hansen, P. Hanson, F. Lin, C. Lin, T. Kratz, W. Michener, S. Shapiro, and T. Williams. 2005. Wireless sensor networks for ecology. *BioScience* 55:561-572.

(ii) Five Other Significant Publications

- 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.
- Michener, W.K. and J.W. Brunt. 2000. *Ecological Data: Design, Management and Processing*. Blackwell Science, Oxford, UK. 180 pp.
- 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.
- 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.
- 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.

Synergistic Activities:

- Recent large grants administration and project management—Associate Director of the NSF-supported Long Term Ecological Research Network Office (2000-present) at the University of New

Mexico; Director of the Ecology and Biocomplexity Programs at the National Science Foundation (1999-2000); Project Science Management Training (2002-2006)

- Teaching and broadening participation—organized week-long ecoinformatics training workshops for new faculty (2003-2007) and field station personnel (2002-2006), focusing on under-represented groups
- Databases—coordinated development of multiple research, education and administrative databases for the Organization of Biological Field Stations as part of an NSF-funded RCN project
- Software—managed an NSF large-ITR project that created a variety of open source software tools including the Kepler Scientific Workflow System and EarthGrid
- Editorial service—Editor of Ecological Society of America's data journal *Ecological Archives* (2001 to present); Associate Editor for *Journal Ecological Informatics* (2005 to present)

Collaborators and Other Affiliations:

Collaborators

D. Agarwal (LBNL)
I. Altintas (SDSC)
D. Baldocchi (Berkeley)
C. Baru (SDSC)
K.K. Baruah (Tezpur U.)
J. Beach (U. Kansas)
F. Berman (SDSC)
E. Blood (NSF--COI)
S. Bowers (UC-Davis)
C. Brewer (U. Montana)
J. Brunt (U. New Mexico)
G.R. Chowdhury (RRL, India)
S. Collins (UNM)
R. Cook (ORNL)
B. Dancik (U. Alberta)
V.K. Dadhwal (Gov't of India)
M. Destro (ESA)
C. Duke (ESA)
C.B.S. Dutt (ISRO, India)
D. Estrin (UCLA)
C. Fox (U. Kentucky)
J. Franklin (U. Washington)
M. Freeman (USGS)
J. Fuentes (U. Virginia)
S. Gage (Michigan State)
S. Gauch (U. Kansas)
J. Goldman (UCLA)
N. Grimm (Arizona State U.)
P. Groffman (IES)
P.K. Gupta (NPL, India)
W.W. Hargrove (USDA-FS)
B. Hayden (U. Virginia)
M. Howard (Texas A&M)
M. Huston (U. Texas)
E. Jager (SDSC)
C.S. Jha (NRSA, India)
M. Jones (NCEAS)
J. Kennedy (Napier University)
L. Krishtalka (U. Kansas)
S. Lal (PRL, India)
H. Lapp (NESCent)

D. Leslie (USGS)
B. Ludaescher (UC-Davis)
J. MacMahon (Utah State)
P. McCartney (NSF)
A.P. Mitra (NPL, India)
T. Moritz (Getty Res. Inst.)
J.T. Morris (U. South Carolina)
R. Murtugudde (U. Maryland)
R.R. Myneni (Boston U.)
K. Nadelhoffer (U. Michigan)
M. Naja (RIOS, India)
R. Nemani (NASA)
R. Peet (U. North Carolina)
R. Pereira (U. Kansas)
D. Pennington (U. New Mexico)
D. Peters (NMSU)
T. Peterson (U. Kansas)
J. Porter (U. Virginia)
R. Purvaja (Anna U., India)
S. Raha (Bose Inst., India)
A. Rajasekar (SDSC)
K.J. Ramesh (Government of India)
R. Ramesh (Anna U., India)
J. Reichman (NCEAS)
H. Saarenmaa (GBIF)
S.K. Santhana Vanan (ORNL)
M. Sharma (IIT, India)
A. Subramaniam (Columbia U.)
R. Sukumar (IIS, India)
P.V. Sundareshwar (S. Dakota SMT)
M. Schildhauer (NCEAS)
S. Shapiro (San Diego Cty. Foundation)
S. Singh (Gov't of India)
G. Srinivasan (Gov't of India)
D. Stockwell (SDSC)
M. Stromberg (Berkeley)

R.R. Twilley (LSU)
P. Uhlir (NRC)
K. Vanderbilt (UNM)
S.B. Verma (U. Nebraska)
D. Vieglais (U. Kansas)
F. Villa (U. Vermont)
T. Vision (NESCent)
R. Waide (UNM)
T. Williams (Consultant)
T. Yaters (U. New Mexico)
P.R. Zimmerman (S. Dakota SMT)

Graduate and Postdoctoral Advisors

Thomas.J. Hilbish (USC)
Don Edwards (USC)
Bjorn Kjerve (USC)
David Cowen (USC)
John Vernberg (USC)
Thesis Advisor (5);
Postgraduate-Scholars (2)
Roger Birkhead (Auburn Univ.)
Melissa Boglioli (Consultant)
Paula Gagon (TNC)
Jeannine Ott (Auburn Univ.)
Samantha Romanello (AIBS)
Sam Simkin (Cornell)
Jianting Zhang (UC-Davis)