

STEVEN N. HANDEL

Rutgers University

Degrees

B.A. Columbia College, Major in Biological Sciences, 1969.

M.S. Cornell University, Field of Ecology & Evolutionary Biology, 1974.

Ph.D. Cornell University, Field of Ecology & Evolutionary Biology, 1976.

Institutional Affiliations

1996 - present. Professor of Ecology, and Director, Center for Urban Restoration Ecology; Director, Hutchison Memorial Forest Center.
Rutgers University, New Brunswick, NJ.

1985 - 1996. Associate Professor of Biology, Rutgers University.

1979 - 1985. Assistant, then Associate Professor of Biology, Yale University.
Director, Yale University Botanical Garden.

1976 -1979. Assistant Professor of Biology, University of South Carolina.

Additional Academic Positions

2012 Visiting Professor of Landscape Architecture, Harvard University,
Graduate School of Design

2006 - 2012. Adjunct Professor of Ecology, University of California, Irvine

2009 Visiting Professor of Ecology, Stockholm University, Sweden.

1989; 1993. Visiting Research Scholar, School of Biological Sciences,
Macquarie University, Sydney, Australia

1987 Summer Faculty, Mountain Lake Biological Station, University of
Virginia, Blacksburg, VA. Course: Plant-Animal Interactions.

1985 Summer Faculty, Rocky Mountain Biological Laboratory, Crested Butte,
CO. Course: Plant-Animal Interactions

Additional Appointments:

2010 – present Editor, *ECOLOGICAL RESTORATION*

2012 – present Fulbright Specialist Roster, Council for International Exchange of
Scholars (U.S. Department of State)

1983 -- present. Certified Senior Ecologist, Ecological Society of America

2000 – 2012 “Distinguished Advisor,” Board of Trustees, Brooklyn Botanic Garden

2004 – 2010. Member, State of New Jersey Invasive Species Council.

2001 – 2008. Instructor, U. S. Environmental Protection Agency (EPA), Ecological
Restoration Principles, annual meetings of Natl. Assoc. of Remedial
Project Managers (RPM's), and of the On-Site Coordinators (OSC's)

2002 - 2006. Editor, *URBAN HABITATS*

1992 - 2004. Associate editor, *RESTORATION ECOLOGY*

1997 - 2001. Elected member, Board of Directors, Society for Ecological Restoration.

1987 - 1990. Associate Editor, *EVOLUTION*

Professional Organizations

Society for Ecological Restoration International (Board of Directors, 1997-2000)

Ecological Society of America (Aldo Leopold Leadership Fellow;
Chair, Plant Population Section, 1986)

British Ecological Society
 Botanical Society of America (Chair, Genetics Section, 1984)
 Torrey Botanical Society (President, 1995)
 Society for Conservation Biology
 Natural Areas Association
 American Association for the Advancement of Science (Fellow)
 Australian Institute of Biology (Fellow)
 American Society of Landscape Architects (Honorary Member)

Research Grants (Representative)

U.S. National Park Service. "Restoration of Jamaica Bay fringing habitats: post-Sandy status and new approaches for a resilient future." 2014-2016.

Duke Farms Foundation. Restoration ecology planning and environmental stewardship public outreach programming for the Duke Farms property. 2006-2013.

Grantee, National Science Foundation, Restoration and Conservation Biology Competition. For studies on the ecology of woodland restoration on landfills. 1993-2003.

U.S. Environmental Protection Agency (EPA). "Terrestrial studies: vegetation dynamics on coal strip mines in West Virginia." 1999-2001.

Awards (Representative)

Society for Ecological Restoration, Board of Directors Service Award, 2000.

Ecological Society of America, Aldo Leopold Leadership Fellow, 2001.

American Society of Landscape Architects, National Award of Honor for Planning and Analysis, (Orange County Great Park Master Plan). 2008.

American Society of Landscape Architects, National Award of Honor for Research, (Ecological restoration processes to advance landscape design), 2009.

American Planning Association (APA). National Planning Excellence Award, for Innovation in Regional Planning, (Comprehensive Master Plan of the Orange County Great Park), 2009.

American Institute of Architects (AIA), International Institute Honor Award for Regional and Urban Design, (Orange County Great Park), 2009.

American Society of Landscape Architects, National Award of Honor for Analysis and Planning, (Brooklyn Bridge Park design team), 2009.

Rutgers University School of Environmental and Biological Sciences, Research Excellence Award for Sustained Research and Impact, 2010.

American Society of Landscape Architects, National Award of Honor for Communication, (member of Safari7 website team. SCAPE, lead), 2010.

Society for Ecological Restoration, Theodore M. Sperry Award (“for significant advancements to the science or techniques used in restoration practices”). Cited “...for pioneering work in the restoration of urban areas.” 2011.

American Society of Landscape Architects, NJ chapter. Merit Award for Landscape Architectural Communication, 2014. (For development of the ecological landscape interpretive program for Duke Farms Foundation.)

Media Publications (Representative)

Planning Magazine, April, 2009 issue, page 34. “A Truly Great Park in Orange County,” by Marya Morris, AICP.

Christian Science Monitor Online, June 17, 2009 issue, Environment Section. “When nature gets a second chance,” by Elizabeth Ginsburg. (csmonitor.com/environment)

Landscape Architecture, August 2009 issue, page 103. “Restoration ecology processes to advance natural landscape design,” by S. Stubbs.

The Economist Magazine, January 3, 2008. “American pastoral.”

Sierra Club Magazine, Nov./Dec. 2005. “Let a billion flowers bloom” by Heather Millar

The New York Times, November 10, 2002. “A Well-Traveled Ecologist” by Elisabeth Ginsburg

The Economist magazine, August 10, 2002. “Science and Technology: Restoration Drama” p.65-66.

The Wall Street Journal, January 23, 2002. “Where Trash Reigns, Trees Sprout” by Jim Carlton

Scientific Papers (Representative)

Robinson, G.R., and S.N. Handel. 1993. Forest restoration on a closed landfill: rapid addition of new species by bird dispersal. *Conservation Biology* 7:271-278.

Robinson, G.R., M.E. Yurlina, and S.N. Handel. 1994. A century of change in the Staten Island flora: patterns of species loss and additions. *Bulletin of the Torrey Botanical Club* 121:119-129.

Handel, S.N., G.R. Robinson, and A.J. Beattie. 1994. Biodiversity resources for restoration ecology. *Restoration Ecology* 2:230-241.

Handel, S. N. 1997. The role of plant-animal mutualisms in the design and restoration of natural communities. Pages 111-132 in: *Restoration Ecology and Sustainable*

Development. K. M. Urbanska, N. R. Webb, and P. J. Edwards, editors. Cambridge University Press, Cambridge.

Robinson, G.R., and S. N. Handel. 2000. Directing spatial patterns of recruitment during an experimental urban woodland reclamation. *Ecological Applications* 10: 174-188.

Clemants, S. E., and S. N. Handel. 2005. Restoring urban ecology: the New York – New Jersey metropolitan area experience. Pages 127-140 in: *The humane metropolis: people and nature in the 21st century city*. R. H. Platt, editor. University of Massachusetts Press, Amherst.

Galbraith-Kent, S. L., and S. N. Handel. 2007. Lessons from an urban lakeshore restoration in New York City. *Ecological Restoration* 25: 123-128.

Galbraith-Kent, S. L., and S. N. Handel. 2008. Invasive *Acer platanoides* inhibits native sapling growth in forest understorey communities. *Journal of Ecology* 96:293-302.

Maslo, B., S. N. Handel, and T. Pover. 2011. Restoring beaches for Atlantic Coast piping plovers (*Charadrius melodus*): a classification and regression tree analysis of nest-site selection. *Restoration Ecology* 19:194-203.

Karpati, A. S., S. N. Handel, J. Dighton, and T. R. Horton. 2011. *Quercus rubra*-associated ectomycorrhizal fungal communities of disturbed urban sites and mature forests. *Mycorrhiza* 21:537-547.

Aronson, M. F. J., and S. N. Handel. 2011. Deer and invasive plant species suppress forest herbaceous communities and canopy tree regeneration. *Natural Areas Journal* 31:400-407.

Handel, S. N. 2013. Ecological restoration foundations to designing habitats in urban areas. Pages 169-186 in: *Designing Wildlife Habitats*. J. Beardsley, editor. Garden and Landscape Studies, Dumbarton Oaks Research Library, Washington, D.C.

Handel, S. N., O. Saito, and K. Takeuchi. 2014. Restoration ecology in an urbanizing world. Pages 665-698 in: *Urbanization, Biodiversity and Ecosystem Services – Challenges and Opportunities, A Global Assessment*. T. Elmqvist, M. Fragkias, et al., editors. Springer Science, Dordrecht.

Conferences/Symposia

Over 200 presentations at universities, science, and design conferences throughout the world, addressing modern aspects of restoration ecology and urban ecology.

Contact

Office 848-932-4516
Email snhandel@gmail.com

Center for Urban Restoration Ecology
1 College Farm Road, Rutgers University
New Brunswick, NJ 08901-1582