COMMITTEE ON NATURAL RESOURCES
114th Congress Disclosure Form
As required by and provided for in House Rule XI, clause 2(g)(5)

Legislative Hearing on H.R. 5032, H.R. 5430, H.R. 5468, and Discussion Draft of H.R. ___

For Individuals:

Name: David L. Strayer
Address: Cary Institute of Ecosystem Studies, P.O. Box AB, 2801 Sharon Turnpike, Millbrook, NY 12545
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Phone Number: (845) 677-5343

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For Witnesses Representing Organizations:

Name:
Name of Organization(s) You are Representing at the Hearing:
Business Address:
Business Email Address:
Business Phone Number:

* * * * *

For Nongovernment Witnesses ONLY:

1. Please attach/include current curriculum vitae or resume. Appended below.

2. Please list any federal grants or contracts (including subgrants or subcontracts) related to the subject matter of the hearing that were received in the current year and previous two calendar years by you or the organization(s) you represent at this hearing, including the source and amount of each grant or contract.

(lead PI with Jon Cole, Stuart Findlay, Mike Pace, Emma Rosi-Marshall) "LTREB: Long-term effects of a species invasion on an aquatic ecosystem", National Science Foundation, $450,000, 2011-2016

(co-PI with Martin Doyle and Dean Urban) "Habitat and connectivity for mussel populations: Dam and dam removal impacts", US Fish and Wildlife Service (subcontract from Duke University), $48,623 (Cary share), 2011-2016

"OPUS: Developing a synthetic understanding of suspension-feeders, master switches in freshwater ecosystems", National Science Foundation, $163,027, 2015-2017.

(lead PI with Jon Cole, Stuart Findlay, Mike Pace, Emma Rosi-Marshall, Chris Solomon) "Long-term effects of a species invasion on an aquatic ecosystem", National Science Foundation, $450,000, 2016-2021

3. Please list any contracts or payments originating with a foreign government related to the subject matter of the hearing that were received in the current year and previous two calendar years by you or the organization(s) you represent at this hearing, including the amount and country of origin of each contract or payment.

"Long-term effects of invasive species in novel communities: comparative analyses of population dynamics, and phenotypic and genetic changes", Mercator Fellowship, Deutsche Forschungemeinschaft (Germany), €26,025, 2015-2017

CURRICULUM VITAE

David L. Strayer
Distinguished Senior Scientist
Cary Institute of Ecosystem Studies
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ORCID: 0000-0002-6767-4486

RESEARCH INTERESTS

Freshwater ecology; distribution and roles of freshwater invertebrates, especially bivalves; ecology of biological invasions; conservation ecology; shore zone ecology.

EDUCATION

B.S. Zoology, Michigan State University, East Lansing, MI, 1976 (with high honor)

Ph.D. Ecology and Evolutionary Biology, Cornell University, Ithaca, NY, 1984

PROFESSIONAL EXPERIENCE

Distinguished Senior Scientist (2013-), Senior Scientist (2004-2013), Scientist (1997-2004), Associate Scientist (1991-97), Assistant Scientist (1985-91), Postdoctoral Associate (1983-85), Cary Institute of Ecosystem Studies, Millbrook, NY.

Mercator Fellow, Deutsche Forschungsgemeinschaft, Free University of Berlin and Institut für Gewässerökologie und Binnenfischerei, 2015-2016

Adjunct member of graduate faculty, Wright State University, Dayton, OH, 2014-2019

Visitor, Laboratoire d'Écologie des Hydrosystèmes Fluviaux, Université de Lyon 1, France (Fall 2005)

Visiting Professor, Bard College, Annandale, NY (Spring 2004, Fall 2010)

Adjunct Professor, University at Albany, State University of New York (1997-)

Visiting Scholar, Ohio Northern University, Ada, OH (Fall 1996).

Associate Member of the Graduate Faculty in Ecology, Rutgers University, New Brunswick, NJ (1988-).

Lecturer, Cornell University, Ithaca, NY (Spring 1983).

PROFESSIONAL ACTIVITIES

Editorial boards

Ecology and *Ecological Monographs*, 1991-94
Journal of the North American Benthological Society, 1996-2005, 2006-2010
Malacological Review, 1993-99
Northeastern Naturalist, Guest Editor, 2002, 2014
Freshwater Biology, Special Issues Editor, 2008-
Conservation Letters, 2010-2013
Freshwater Mollusk Biology and Conservation (Walkerana), 2011-

Memberships

Ecological Society of America
    Judge, Buell Award (several years)
Association for the Sciences of Limnology and Oceanography
Society for Freshwater Science (North American Benthological Society)
    Program Committee, 1987
    Annual Bibliography Committee, 1985-1989
    Judge, Student Awards (many years)
    Awards Committee, 1999-2002, 2015-2016 (chair 2001-2002, 2013-2014)
    Plenary Speaker, 2005
    JNABS Strategic Planning Committee (co-chair), 2008-2009
    Expert on Mollusca, NABS Taxonomic Certification Committee, 2011-
    President-Elect (2013-2014), President (2014-2015), Past President (2015-2016)
    Elections and Place Committee, 2015-2017 (chair 2015-2016)
American Association for the Advancement of Science
    Elected AAAS Fellow, 2002
International Society of Limnology
Hudson River Environmental Society
    Member of Board, 1995-98
International Association of Meiobenthologists
    Board of Correspondents, 1986-92
Freshwater Mollusk Conservation Society

Committees

Scientific Committee, Second International Meeting on Biology and Conservation of Freshwater Bivalves, Buffalo, NY, 2015
Steering Committee, Lower Hudson Partnership for Invasive Species Management (PRISM), 2014
Taxonomic Expert Team (Mollusks), Species of Greatest Conservation Need, New York State Department of Environmental Conservation, 2013-2014
Interdisciplinary Invasive Species Scientific and Education Advisory Network, NY Invasive Species Clearinghouse and Cornell Cooperative Extension Statewide Invasive Species Outreach Education Program, 2011-
Conservation Advisory Committee, Town of Washington, 2010-2013
Member, Executive Committee, New York State Biodiversity Research Institute, 2010-2012
Coordinating Committee, Sustainable Shorelines Initiative, Hudson River National Estuarine Research Reserve, 2009-
Fisheries Subcommittee of the Hudson River Estuary Management Advisory Committee, New York State Department of Environmental Conservation, 2009-
New York State Invasive Species Research Institute, Advisory Board, 2008-
Comprehensive Plan Update Committee, Town of Washington, 2007-2012
Invasive Species Program Work Team, Cornell Cooperative Extension, 2006-

NSF-NEON Invasive Species Subcommittee, 2005
The Nature Conservancy, "Conservation of Biological Diversity in the Hudson River Estuary" (steering committee), 2005
Hudson River Foundation, "Workshop to Develop a Research Agenda on Hudson River Key Species" (co-convener), 2005
Scientific Peer Review panel, 2005 South Florida Environmental Report, South Florida Water Management District, 2004
Habitat Subcommittee of the Hudson River Estuary Management Advisory Committee, New York State Department of Environmental Conservation, 2003-
Advisory Board to the New York City Department of Environmental Protection Stream Management Program, 2002-2003
Technical Advisory Committee, Lower Columbia River Aquatic Nonindigenous Species Project, Portland State University, 2002-2004
Freshwater Gastropods of North America Editorial Committee, 1999-2001
NCEAS Working Group on The Ecological Consequences of Altered Hydrological Regimes, 2000-2001
Delaware River NAWQA Liaison Committee, United States Geological Survey, 1998-2000
The Nature Conservancy, Committee for Bioregional Planning, Lower New England-Northern Piedmont Ecoregion, 1999-2001
SCOPE Committee on Soil and Sediment Biodiversity and Ecosystem Functioning, 1997-99
American Fisheries Society Endangered Species Committee (Freshwater Mollusks Subcommittee), 1995-98
U.S. Army Corps of Engineers, Technical Advisory Committee on Habitat Restoration in the Hudson River, 1995-98
Environmental Oversight Committee for zebra mussel control, New York City Department of Environmental Protection, 1992-1995
Conservation Advisory Committee, Town of New Paltz, 1987-89
Nuclear Lake Management Committee, National Park Service, 1984-89

Reviews

Manuscripts: *Ecology, Journal of Freshwater Ecology, Journal of the North American Benthological Society, Limnology and Oceanography, American Midland Naturalist, Evolution, Internationale Revue der gesamten Hydrobiologie, Freshwater Biology, Oecologia, Canadian Journal of Fisheries and Aquatic Sciences, Malacological Review, Hydrobiologia, Aquatic Conservation, Maryland Naturalist, Ecological Applications, North American Journal of Fisheries Management, Estuaries, Northeastern Naturalist, Biofouling, Archiv für Hydrobiologie, Journal of Great Lakes Research, Science, Nature, Regulated Rivers, Oikos, Nautilus, Conservation Biology, Journal of Natural History, American Malacological Bulletin, Canadian Journal of Zoology, BioScience, Walkerana, Aquatic Ecology, Proceedings of the Biological Society of Washington, Journal of Animal Ecology, Biological Invasions, Landscape Ecology, Biodiversity and Conservation, Acta Oecologica, Ecography, Polish Journal of Environmental Studies, Annales de Limnologie, Ecosystems, Ecological Modelling, Southeastern Naturalist, Fragmenta Faunistica, The Veliger, Diversity and Distributions, Biological Conservation, Environmental Management, Trends in Ecology and Evolution, Proceedings of the Royal Society Series B, Western North American Naturalist, Proceedings of the National Academy of Sciences, Southwestern Naturalist, Limnologica, Animal Biodiversity and Conservation, Diversity, Aquatic Sciences, Oceanologia, Journal of Molluscan Studies, Global Ecology and Biogeography, Transactions of the American Fisheries Society, Journal of Environmental Engineering, Journal of Ecology, Central European Journal of Biology, Marine and Freshwater Behaviour and Physiology, Animal Conservation, Endangered Species*

Research, Ethology, Ecology and Evolution; Canadian Field Naturalist; New Phytologist; Geochimica et Cosmochimica Acta; Journal of the American Water Resources Association, Environmental Engineering Science, Journal of Biogeography, Freshwater Science, Acta Zoologica Bulgarica, Management of Biological Invasions, BioInvasions Records, Freshwater Mollusk Biology and Conservation, Environmental Science: Processes and Impacts, Functional Ecology, Ecology of Freshwater Fish; various book chapters, conference proceedings, book proposals, and books.

Proposals: National Science Foundation (Ecosystems, Ecology, Systematic Biology, Population Biology, Geomorphology, Science and Technologies Center); Hudson River Foundation; CUNY Research Award Program; Research Corporation; The Nature Conservancy; National Research Council; Sea Grant, NERC (UK), USGS Species-at-Risk Program, National Geographic Society, Austrian Science Fund, NSERC, Wisconsin Water Resources Institute, Agence Nationale de la Recherche (France), Netherlands Organisation for Scientific Research.

Documents: US Environmental Protection Agency

Tenure or promotion reviews for 24 faculty at US or foreign universities through March 2016

Cary Institute committees

Retreat committee (chair), 1989-
Long-term financial management and planning committee, 2003-2004
Steering or advisory committee for Cary Conferences: 1987, 1989 (chair), 1995, 1997, 2001, 2003
Environmental monitoring committee, 1988-
Grievance committee, 1994-2007
Discussion group committee (chair), 2001-
Library committee, 2004-2007
Postdoctoral training committee (chair), 2005-2006, 2010-
Committee on joint Cornell-IES graduate program, 1994-1999
Affirmative action or workplace diversity committee, 1992-93, 2002-
Long-term studies committee, 1984-88
Several search committees

TEACHING EXPERIENCE

Ecology of the Hudson River, Bard College, 2004, 2010
Aquatic Ecology, Ohio Northern University, 1996
Limnology, Cornell University, 1983
Fundamentals of Ecosystem Ecology, Rutgers University, course coordinator (1989, 2003, 2007, 2010, 2016 [co-leader]) and participant (1989-2016)
Natural History and Identification of Freshwater Mollusks (1-day workshop), Cornell University, New York State Museum, American Museum of Natural History, New York State Department of Environmental Conservation, 1981-2008
Guest lectures in courses at various colleges and universities

POSTDOCTORAL ASSOCIATES ADVISED

Nils Carlsson, 2007-2008
Jonathan Jeschke, 2003-2005

STUDENTS SUPERVISED

Rita Grunberg, Ph.D. student, Rutgers University (minor member), 2015-
Nathaniel Marshall, Ph.D. student, University of Toledo (minor member), 2015-
Michael Smircich, M.S. student, University of Connecticut (minor member), 2014-2016

Stacey Wensink, M.S. student, Oakland University, 2014-2015 (minor member)
Hannah Voss Fazekas, Ph.D. student, Wright State University, 2013- (minor member)
Pearl Seidman, Ph.D. student, Fielding Graduate University, 2011-2015 (external examiner)
Matthew Fuller, Ph.D. student, Duke University, 2012- (member of committee)
Cornelia Harris, M.S. student, SUNY-Albany, 2010-2011 (co-chair)
Astrid Schwalb, Ph.D. student, University of Guelph, 2009 (external examiner)
Jonathan Jeschke, Ludwig-Maximilians-Universität, 2009-2011, (Habilitation Committee)
Sarah Roley, Ph.D. student, University of Notre Dame, 2009- 2012 (minor member)
James Fawcett, Ph.D. student, Griffith University, 2009 (external examiner)
Jane Catford, Ph.D. student, University of Melbourne, 2008 (external examiner)
Denise Mayer, Ph.D. student, SUNY-Albany, 2007-2011 (minor member)
John Wimbush, M.S. student, SUNY-Albany, 2008-09 (co-chair)
Angela Slagle, Ph.D. student, Columbia University, 2007 (minor member)
Martin Österling, Ph.D. student, Karlstad University, 2006 (faculty opponent)
Elena Traister, Ph.D. student, University of New Hampshire, 2006-2010 (minor member)
Nicole Maher, Ph.D. student, SUNY-Stony Brook, 2004-06 (minor member)
Nils Carlsson, Ph.D. student, Lund University, 2004 (faculty opponent)
Catherine Corey, M.S. student, SUNY-Albany, 1997-2003 (co-chair)
Dennis Skalla, M.S. student, Bard College, 2001-03 (minor member)
Mary Pat Budd, M.S. student, Bard College, 1996-98 (minor member)
Anneke Veenstra-Quah, Ph.D. thesis, Deakin University, 2000 (external examiner)
Margo Chase, Ph.D. thesis, University of Western Ontario, 1996 (external examiner)
Larry C. Boles, M.S. student, Virginia Institute of Marine Sciences, 1995-96 (minor member)
Eric Mellina, M.S. thesis, McGill University, 1993 (external examiner)
William Walton, M.S. thesis, Rutgers University, 1993 (minor member)
Richard D'Ermilio, senior thesis, SUNY-Purchase, 1985
Twenty-eight undergraduate summer fellows, 1988-2012
Several high school students

HONORS AND AWARDS

- Mercator Fellow, Deutsche Forschungsgemeinschaft, Free University of Berlin and Institut für Gewässerökologie und Binnenfischerei (2015-2016)
- G.W. Minshall Lecturer, Idaho State University (2014)
- G.E. Hutchinson Chair in Ecology, Cary Institute of Ecosystem Studies (2013-2016)
- Elected President of the Society for Freshwater Science (2014-2015)
- Keynote speaker, International Meeting on the Biology and Conservation of Freshwater Bivalves, Braganza, Portugal, (2012)
- Opening keynote speaker, Second World Conference on Biological Invasions and Ecosystem Functioning, Mar del Plata, Argentina (2011)
- "Teacher's Choice Award" for River Ecology: Investigating the Effect of Zebra Mussels on the Hudson River project done in collaboration with the American Museum of Natural History (2011)
- Invited guest of graduate student associations at University of Georgia (Odum School of Ecology, 2010), University of North Carolina (Curriculum in Ecology, 2008), University of Notre Dame (Biological Sciences, 2006)
- L. Floyd Clarke Memorial Lecturer, University of Wyoming (2009)
- Kaeser Visiting Scholar (chosen by graduate students), University of Wisconsin (2007)
- Brown and Williamson Distinguished Speaker, University of Louisville (2006)
- Plenary speaker, annual meeting of NABS/AGU (2005)
- Elected as Fellow, American Association for the Advancement of Science (2002)

- Outstanding Environmental Researcher of the Year, Hudson River Environmental Society (2000)
- *Parvidrilus strayeri*, the first known representative of a new family of oligochaete worm, named in my honor by Christer Erséus (see Proc. Biol. Soc. Wash. 112: 327-337, 1999)
- New York State Library Research Resident (1988)
- Elected to full membership in Sigma Xi (1982)
- Sage Graduate Fellowship, Cornell University (1981-82)
- National Science Foundation Graduate Fellowship (1977-81)

GRANTS

"The unionid mussels of the Clinton River basin," $800, Endangered Species Program of the Michigan Department of Natural Resources, 1978.

"The invertebrate fauna of groundwater discharges in the mid-Hudson Valley," $47,830, Hudson River Foundation, 1985-86.
"The freshwater mollusks of the Hudson River basin: a historical and ecological survey," $13,200, Hudson River Foundation, 1985-86.

"Land and freshwater Mollusca of New York: revision and publication of a hitherto unpublished monograph by Henry Pilsbry," $12,353, Hudson River Foundation, 1986.

(co-PI with G.E. Likens) "The Third Cary Conference: Comparative analyses of ecosystems: patterns, mechanisms, and theories," $30,000, National Science Foundation, 1989.

"Rare and endangered freshwater mussels in New York," $5,500, New York Natural Heritage Program, 1990.

"Ecology and zoogeography of groundwater invertebrates," $160,000, National Science Foundation, 1990-92.

"The zoobenthos of the freshwater tidal Hudson River prior to the invasion of the zebra mussel, *Dreissena polymorpha*," $168,895, Hudson River Foundation, 1990-93.

"The ecology of the dwarf wedge mussel," $8,500, New York Natural Heritage Program, 1992.

(co-PI with S. Findlay) "Methods for conducting ecological surveys of large rivers," $27,260, United States Geological Survey, 1992.

(co-PI with E. Mills and J. Carlton) "Biological invasions in the Hudson River: an historical analysis and assessment of faunal and floral changes due to anthropogenic activities," $39,943, Hudson River Foundation, 1992-93.

"The zebra mussel: its spread and impact on benthic animals in the freshwater tidal Hudson River", Hudson River Foundation, $212,584, 1993-96.

"The freshwater mussels of the Passaic River basin in New York", New York Natural Heritage Program, $865, 1994.

"Range-wide assessment of populations of the dwarf wedgemussel (*Alasmidonta heterodon*), U.S. Fish and Wildlife Service, $18,182, 1994.

"Developing predictive models of clam distribution in running waters", The Nature Conservancy, $100,000, 1995-98.

(lead PI with N. Caraco, J. Cole, S. Findlay, and M. Pace) "Response and compensation to a bivalve invasion by an aquatic ecosystem", National Science Foundation, $900,000, 1995-98.

"Freshwater mussels of the upper Susquehanna River basin in New York", New York State Department of Environmental Conservation, $2,235, 1997.

"Freshwater mussels of Tonawanda Creek, New York", New York Natural Heritage program, $2,000, 1998.

(co-PI with Stuart Findlay) "Ground-truthing and functional assessment of submersed aquatic vegetation", New York State Department of Environmental Conservation, $357,266, 2000-2006.

(lead PI with K. Hattala and A. Kahnle) "Effects of the zebra mussel invasion on fish communities in the Hudson River", Hudson River Foundation, $57,213, 2000-2001.

(lead PI with N. Caraco, J. Cole, S. Findlay, and M. Pace) "LTREB: Developing a long-term perspective on the response of an aquatic ecosystem to a bivalve invasion", National Science Foundation, $300,000, 2000-2005.

"Combining geophysical and biological information to define benthic habitats in the Hudson River", New York State Department of Environmental Conservation, $100,000, 2001-2002.

"Effects of the rusty crayfish invasion on freshwater mussels", The Nature Conservancy, $7,258, 2001.

"Freshwater mussels of the Shawangunk Kill", New York Natural Heritage Program, $1,800, 2001.

"Using species invasions to test the accuracy of bioclimatic models", National Science Foundation, $224,633, 2003-2005.

(lead PI with N. Caraco, J. Cole, S. Findlay, and M. Pace) "LTREB: Long-term response of an ecosystem to an invasive species", National Science Foundation, $300,000, 2005-2010

(lead PI with N. Caraco, J. Cole, S. Findlay, and M. Pace) "Freshwater flow and benthic grazing as controls on the Hudson River food web: a synthesis of long-term data", Hudson River Foundation, $92,982, 2005-2006

(co-PI with A. Berkowitz and S. Findlay) Web-based tools linking students' and scientists' investigations of the Hudson River estuary", New York State Department of Environmental Conservation, $105,000, 2006-2008

"Aquatic macroinvertebrate monitoring in Hudson River submerged aquatic vegetation", New York State Department of Environmental Conservation, $14,768, 2006-2007

"Extent, timing, and causes of reproductive failure in freshwater mussels", Allan and Julie Shope, $81,250, 2007-2012

(lead PI with S. Findlay) "Ecological functions of Hudson River shorelines", Hudson River Foundation, $211,616, 2007-2009

"Ecology of non-marine shorelines", New York State Department of Environmental Conservation, $25,000, 2007-2008

"Extent, timing, and causes of reproductive failure in freshwater mussels in southeastern New York", New York State Department of Environmental Conservation, $99,121, 2008-2010

"Determining ecological flow needs of the federally endangered dwarf wedgemussel", US Geological Survey, $84,967, 2008-2010

(co-PI with Stuart Findlay), "Submerged aquatic vegetation change in the tidal freshwater Hudson River – linking function with fluctuation", Hudson River Foundation, $68,622, 2009-2013

(co-PI with Stuart Findlay) "Sustainable shorelines", NOAA, $40,000, 2009-2011

"Surveys for the dwarf wedgemussel in the Ten Mile River basin, New York", USFWS, $5,436, 2010

"Effects of nutrients on freshwater mussels", Hudson Valley Foie Gras Company, $50,000, 2010-2012

(co-PI with Alan Berkowitz, Charlie Canham, Stuart Findlay), "Data explorations in ecology project (DEEP)", National Science Foundation, $450,000, 2010-2013

(co-Investigator with Betsy Blair and nine others), "Sustainable shorelines along the Hudson River estuary: promoting resilient shorelines and ecosystem services in an era of rapid climate change" NOAA, $814,155, 2010-2015

(lead PI with K. Hattala and A. Kahnle), "Recovery of the Hudson River fish community from the zebra mussel invasion", Hudson River Foundation, $69,396, 2011-2013

(lead PI with Jon Cole, Stuart Findlay, Mike Pace, Emma Rosi-Marshall) "LTREB: Long-term effects of a species invasion on an aquatic ecosystem", National Science Foundation, $450,000, 2011-2016

(co-PI with Martin Doyle and Dean Urban) "Habitat and connectivity for mussel populations: Dam and dam removal impacts", US Fish and Wildlife Service, $48,623 (Cary share), 2011-2016

"Decision-support tools to improve shore zone management", Hudson River Foundation, $35,711, 2013-2015

(co-PI with Eric Schultz) "Zebra mussel effects on diet of early-stage fishes in the Hudson River", Hudson River Foundation, $16,383 (Cary share), 2013-2015

(Collaborator with Robert Newton and Elisa Bone) "A Standard Protocol for Assessing the Habitat Quality of Ecologically Enhanced Urban Shorelines", New York/New Jersey Harbor Estuary Program, $10,248 (Cary share), 2014-2015

"OPUS: Developing a synthetic understanding of suspension-feeders, master switches in freshwater ecosystems", National Science Foundation, $163,027, 2015-2017.

(lead PI with Jon Cole, Stuart Findlay, Mike Pace, Emma Rosi-Marshall, Chris Solomon) "Long-term effects of a species invasion on an aquatic ecosystem", National Science Foundation, $450,000, 2016-2021

PUBLICATIONS

Monographs and books

Strayer, D. 1985. The benthic micrometazoans of Mirror Lake, New Hampshire. Archiv für Hydrobiologie Supplementband 72:287-426.

Strayer, D. 1987. Ecology and zoogeography of the freshwater mollusks of the Hudson River basin. Malacological Review 20:1-68.

Mills, E.L., J.T. Carlton, M.D. Scheuerell, and D.L. Strayer. 1997. Biological invasions in the Hudson River: an inventory and historical analysis. New York State Museum Circular 57: 1-51.

Strayer, D.L., and K.J. Jirka. 1997. The pearly mussels of New York state. Memoirs of the New York State Museum 26: 1-113 + 27 plates.

Strayer, D.L., and L.C. Smith. 2001. The zoobenthos of the freshwater tidal Hudson River and its response to the zebra mussel (*Dreissena polymorpha*) invasion. Archiv für Hydrobiologie Supplementband 139: 1-52.

Strayer, D.L., and D.R. Smith. 2003. A guide to sampling freshwater mussel populations. American Fisheries Society Monograph 8: 1-103.

Waldman, J.R., K.E. Limburg, and D.L. Strayer (editors). 2006. Hudson River fishes and their environment. American Fisheries Society Symposium 51. 365 pp.

Strayer, D.L. 2008. Freshwater mussel ecology: a multifactor approach to distribution and abundance. University of California Press. 204 pp.

Strayer, D.L. 2012. The Hudson primer: the ecology of an iconic river. University of California Press. 207 pp.

Weathers, K.C., Strayer, D.L., and G.E. Likens (editors). 2013. Fundamentals of ecosystem science. Academic Press. 312 pp. (Published in Portuguese in 2015)

Journal Articles and Book Chapters

Strayer, D. 1979. Some recent collections of mussels from southeastern Michigan. Malacological Review 12:93-95.

Strayer, D. 1980. The freshwater mussels (Bivalvia: Unionidae) of the Clinton River, Michigan, with comments on man's impact on the fauna, 1870-1978. The Nautilus 94:142-149.

Strayer, D.L. 1981. Notes on the microhabitats of unionid mussels in some Michigan streams. American Midland Naturalist 106:411-415.

Strayer, D.L., Cole, J.J., Likens, G.E., and D.C. Buso. 1981. Biomass and annual production of the freshwater mussel *Elliptio complanata* in an oligotrophic softwater lake. Freshwater Biology 11:435-440.

Cole, J.J., Likens, G.E., and D.L. Strayer. 1982. Photosynthetically-produced dissolved organic matter: an important carbon source for planktonic bacteria. Limnology and Oceanography 27:1080-1090.

Strayer, D. 1983. The effects of surface geology and stream size on freshwater mussel distribution in southeastern Michigan, USA. Freshwater Biology 13:253-264.

Strayer, D. 1983. *Piguetiella blanci*, a naidid oligochaete new to North America, with notes on its relationships to *Piguetiella michiganensis* and *Specaria josinae*. Transactions of the American Microscopical Society 102:349-354.

Strayer, D.L. 1984. The benthic micrometazoans of Mirror Lake, New Hampshire. Ph.D. Thesis, Cornell University, Ithaca, New York. 348 pp.

Strayer, D.L. 1985. Benthic microinvertebrates. pp. 228-234 In: Likens, G.E. (ed.). An ecosystem approach to aquatic ecology: Mirror Lake and its environment. Springer-Verlag, New York.

Moeller, R.E., Walter, R.A., Strayer, D.L., and B.J. Peterson. 1985. The littoral region. p. 311-317 In: Likens, G.E. (ed.). An ecosystem approach to aquatic ecology: Mirror Lake and its environment. Springer-Verlag, New York.

Walter, R.A., Moeller, R.E., Strayer, D.L., and J.J. Cole. 1985. The profundal region. pp. 317-322 In: Likens, G.E. (ed.). An ecosystem approach to aquatic ecology: Mirror Lake and its environment. Springer-Verlag, New York.

Strayer, D., and G.E. Likens. 1986. An energy budget for the zoobenthos of Mirror Lake, New Hampshire. Ecology 67:303-313.

Strayer, D. 1986. The size structure of a lacustrine zoobenthic community. Oecologia 69:513-516.

Strayer, D., Glitzenstein, J.S., Jones, C.G., Kolasa, J., Likens, G.E., McDonnell, M.J., Parker, G.G., and S.T.A. Pickett. 1986. Long-term ecological studies: an illustrated account of their design, operation, and importance to ecology. Occasional Publication of the Institute of Ecosystem Studies 2: 38 pp. (translated in part into Chinese in Advances in Ecology 5:51-55).

Strayer, D., Pletscher, D.H., Hamburg, S.P., and S.C. Nodvin. 1986. The effects of forest disturbance on land gastropod communities in northern New England. Canadian Journal of Zoology 64:2094-2098.

Strayer, D. 1986. An essay on long-term ecological studies. Bulletin of the Ecological Society of America 67:271-274.

Likens, G.E., Cole, J.J., Kolasa, J., McAninch, J.B., McDonnell, M.J., Parker, G.G., and D.L. Strayer. 1987. Status and future of ecosystem science. Occasional Publication of the Institute of Ecosystem Studies 3:23 pp.

Kolasa, J., Strayer, D., and E. Bannon-O'Donnell. 1987. Microturbellarians from interstitial waters, streams, and springs in southeastern New York. Journal of the North American Benthological Society 6:125-132.

Strayer, D. 1988. Life history of a lacustrine ostracod. Hydrobiologia 160:189-191.

Strayer, D. 1988. Crustaceans and mites (Acari) from hyporheic and other underground waters in southeastern New York. Stygologia 4:192-207.

Strayer, D. 1988. New and rare copepods (Cyclopoida and Harpacticoida) from freshwater interstitial habitats in southeastern New York. Stygologia 4:279-291.

Lodge, D.M., Barko, J.W., Strayer, D., Melack, J., Mittelbach, G.G., Howarth, R.W., Menge, B., and J.E. Titus. 1988. Spatial heterogeneity and habitat interactions in lake communities. pp. 181-208 In: Carpenter, S.R. (ed.). Complex interactions in lake communities. Springer-Verlag, New York. 283 pp.

Strayer, D., and E. Bannon-O'Donnell. 1988. Aquatic microannelids (Oligochaeta and Aphanoneura) of underground waters of southeastern New York. American Midland Naturalist 119:327-335.

Kolasa, J., and D. Strayer. 1988. Patterns of species abundance: a comparison of two hierarchical models. Oikos 53:235-241.

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