

Beverly J. Brown

Biology Department
Nazareth College of Rochester
4245 East Avenue
Rochester, NY 14618

bjbrown@naz.edu
(716) 389-2555
FAX (716) 586-2452

Education:

Doctorate, 1999. Kent State University, Ecology.
Master of Science, 1993. The University of Akron, Biology.
Master of Arts, 1981. Antioch University/West, Urban Studies and Planning,
Natural Hazard Management.
Bachelor of Arts, 1978. The Evergreen State College, Biology/Literature.

Academic Positions:

Assistant Professor, Fall 1999- present, Nazareth College of Rochester, Biology Department
Courses taught: Biological Principles I and Lab, Plant Biology with Lab, Microbiology with Lab, Contemporary Biology, Ethnobotany, Biology of Women, Human and Contemporary Biology Laboratory
Teaching Fellow, Fall 1998-Spring 1999, Kent State University, Department of Biological Sciences, Kent, Ohio. Courses taught: Ecology, Evolution and Society Lecture
Teaching Assistant, Fall 1996-1998, Kent State University, Department of Biological Sciences, Kent, Ohio. Courses taught: Ecology, Evolution and Society Lecture, Principles of Biology I Laboratory - Honors, Principles of Biology II Laboratory. Other duties: microbiology preparation.
Teaching Fellow, Summer 1998, Orienting New Teaching Assistants Program, Kent State University, Kent, Ohio.
Teaching Fellow, Summer 1997, Orienting New Teaching Assistants Program, Kent State University, Kent, Ohio.
University Fellow, Spring 1997, Kent State University, Department of Biological Sciences, Kent, Ohio.
Research Assistant, 1995-1996. Kent State University, Department of Biological Sciences, Kent, Ohio.
Teaching Assistant, 1993-1994. Kent State University, Department of Biological Sciences, Kent, Ohio. Coordinator, Principles of Biology II Laboratory, Courses taught: Principles of Biology II Laboratory, Principles of Biology II Honors Laboratory. Other duties: microbiology preparation.
Teaching Assistant, 1991-1993. The University of Akron, Department of Biology, Akron, Ohio. Courses taught: Biological Principles Laboratory I and II, Biology for Non-Majors, Tropical Field Biology Laboratory.

Refereed Publications: (7 total)

Brown, B.J. and R.J. Mitchell. In press. The impact of an invasive species, *Lythrum salicaria*, on seed in a native species (*L. alatum*): the importance of proximity. Ecology

Brown, B.J. and R.J. Mitchell. 2001. Competition for pollination: effects of pollen of an invasive plant on seed set of a native congener. *Oecologia* 129:43-49.

Leff, L.G., **B.J. Brown**, and M.J. Lemke. 1999. Spatial and temporal changes in bacterial assemblages of the Cuyahoga River. *Ohio J. Sci.* 99:44-48.

Brown, B.J. and C.E. Wickstrom. 1997. Adventitious root production and survival of purple loosestrife (*Lythrum salicaria*) shoot sections. *Ohio J. Sci.* 97:2-4.

Lemke, M.J., **B.J. Brown**, and L.G. Leff. 1997. The response of three bacteria populations to pollution in a stream. *Microb. Ecol.* 34:224-231.

Brown, B.J. and L.G. Leff. 1996. Comparison of fatty acid methyl ester analysis with the use of API 20E and NFT strips for the identification of aquatic bacteria. *Appl. Environ. Microbiol.* 62:2183-2185.

Brown, B.J. and J.H. Olive. 1994. Diatom communities in the Cuyahoga River (USA): Changes in species composition between 1974 and 1992 following renovation in wastewater management. *Ohio Journal of Science.* 95(2):254-260.

Other Publications

Brown, B.J. In preparation. Pollination to Seed Set in *The Seed Handbook* edited by A. Basra, Haworth Press.

Brown, B.J. 2001. The complex world of invasive species. *Ecology.* 82(8):2376-2377.

Brown, B.J. 1997. Women inventors receive recognition. *AWIS Magazine* 26:28-29

Brown, B.J. 1997. Meet the Invasives: Problem Umbels. *Volunteers!*, Ohio Chapter, The Nature Conservancy, Columbus, Winter 1997.

Brown, B.J. and C. E. Wickstrom. 1996. Shoot remnant rejuvenation in *Lythrum salicaria*: Unplanned Parenthood, p. 92-94. *IN* S. Colvin (ed.), *Proceedings of Five Regional Citizen Education Workshops on Lake Management.* The North American Lake Management Society, Environmental Communications, Inc., Aitkin, MN. 100 pp.

Brown, B.J. 1996. Meet the Invasives: Russian Olive (*Elaeagnus angustifolia*) & Autumn Olive (*Elaeagnus umbellata* Thunberg). *Volunteers!*, Ohio Chapter, The Nature Conservancy, Columbus, Autumn 1996.

Brown, B.J. 1996. Meet the Invasives: Invasive grasses. *Volunteers!*, Ohio Chapter, The Nature Conservancy, Columbus, Summer 1996.

Brown, B.J. 1996. Meet the Invasives: Garlic mustard (*Alliaria petiolata*). *Volunteers!*, Ohio Chapter, The Nature Conservancy, Columbus, Spring 1996.

Abstracts (published, 12 total):

Brown, B.J., S. Fan, L.T. Isaacs and M.-K. Liao. 2002. Web-based introduction to microbial phylogeny. American Society for Microbiology Conference, Salt Lake City, Utah.

Brown, B.J., R.J. Mitchell, and J.L. Thompson. 1999. The impact of distance from an invasive species, *Lythrum salicaria*, on seed set in the native *L. alatum*. Proceedings of the XVI International Botanical Congress, St. Louis, pg. 409.

Brown, B.J. and R.J. Mitchell. 1998. The impact of an invasive species (*Lythrum salicaria*) on seed set and pollinator visitation rate in a native *Lythrum* (*L. alatum*). Amer. J. Bot. 85:30.

Brown, B.J., S.G. Graham and R.J. Mitchell. 1998. The effect of heterostylous pollen from an invasive species (*Lythrum salicaria*) on seed set in a native *Lythrum* (*L. alatum*). Annual Meeting of the Ohio Academy of Science, Ohio J. Sci. 98:15.

Brown, B.J. and L.G. Leff. 1996. Comparison of bacterial assemblages along a spatio-temporal gradient in a river. Annual Meeting of the North American Benthological Society, Kalispell, Montana. Bull. N. Amer. Benthol. Soc. 13:122.

Lemke, M.J., **B.J. Brown**, and L.G. Leff. 1996. The effect of anthropogenic disturbance on bacteria in South Carolina Streams. Annual Meeting of the North American Benthological Society, Kalispell, Montana. Bull. N. Amer. Benthol. Soc. 13:123.

Brown, B.J. and L.G. Leff. 1995. Comparing environmental bacterial assemblages using molecular and physiological approaches. General Meeting, American Society for Microbiology, Washington, D.C. (poster)

Brown, B.J. and L.G. Leff. 1995. Comparison of bacterial assemblages along spatio-temporal gradients in a river. Annual Meeting of the North American Benthological Society, Keystone, Colorado. Bull. N. Amer. Benthol. Soc. 12:145.

Brown, B.J. and L.G. Leff. 1995. Comparison of bacterial communities within the Cuyahoga River. Annual Meeting of the Ohio Academy of Science, Westerville, Ohio. Ohio J. Sci. 95:18.

Brown, B.J. and C.E. Wickstrom. 1995. Vegetative reproduction in *Lythrum salicaria* and its implications for management. Annual Meeting of the Ohio Academy of Science, Westerville, Ohio. Ohio J. Sci. 95:36.

M.D. Johnson, L.K. Mataraza, K. Givens, J. Abercrombie, and **B.J. Brown**. 1995. Aquatic ecological survey for the Riverview Trail, Akron, Ohio. Annual Meeting of the Ohio Academy of Science, Westerville, Ohio. (poster) Ohio J. Sci. 95:53.

Brown, B.J. and J.H. Olive. 1994. Diatom communities in the Cuyahoga River (USA): Changes in species composition between 1974 and 1992 following renovation in wastewater management. Annual Meeting of the Ohio Academy of Science, Toledo, Ohio. Ohio J. Sci. 94:20.

Other Presentations :

Brown, B.J. 2002. Investigative labs: hands-on field experiences in pollination ecology. Botany 2002, Annual Meeting of the Botanical Society of America, Madison, Wisconsin.

Brown, B.J. and P. Gibson. 2002. Integrating research into labs: Opportunities with opportunistic species. Botany 2002 Forum, Botany in the Curriculum, Integrating Teaching and Research, Madison, Wisconsin.

Brown, B.J., S. Fan, L.T. Isaacs and M.-K. Liao. 2002. Web-based introduction to microbial phylogeny. American Society for Microbiology Education Conference, Salt Lake City, Utah.

Brown, B.J. 2001. Competition for pollination between the invasive *Lythrum salicaria* and a native species, *Echinocystis lobata*. Rochester Academy of Science, Nazareth College, Rochester, New York.

Brown, B.J. and S. Kohn. 2001. Technology in the Classroom: The effective use of PowerPoint. Faculty Development Committee, Nazareth College.

Brown, B.J. 2001. Invasive species: thieves in your backyard, Monroe County Parks Department, Rochester, New York.

Brown, B.J. 2001. The impact of *Lythrum salicaria* on the pollination and seed set of a native congener. 57th Northeast Fish and Wildlife Conference, Saratoga Springs, New York, Invited Speaker.

Brown, B.J. 2001. Purple loosestrife and other invasive plants: thieves in your backyard! Faculty Colloquium Series, Nazareth College of Rochester.

Brown, B.J. 2001. Purple loosestrife and its impact on the pollination of a native congener. Biology Department Seminar Series, SUNY Brockport, Brockport, New York, Invited Speaker.

Brown, B.J. 2000. Plants and Pollinators. Science Saturday Series, Rochester Museum and Science Center, Rochester, New York.

Brown, B.J. and E.J. Andersen. 2000. Competition for pollination and the effect of plant height on pollinator visitation to *Lythrum salicaria* (purple loosestrife) and *Lythrum alatum* (winged loosestrife). Rochester Academy of Science, Rochester, New York.

Brown, B.J., G. Brooks and P. Moyer. 2000. PowerPoint Presentations in the Classroom, Faculty Development Colloquium, Nazareth College of Rochester, Rochester, New York.

Brown, B.J. 1999. Biodiversity, invasive species, and pollination: A case study.
Bridgewater State College, Bridgewater, Massachusetts, Invited Speaker
Georgia College and State University, Milledgeville, Georgia, Invited Speaker
Nazareth College of Rochester, Rochester, New York, Invited Speaker

J. L. Thompson, **B.J. Brown**, and R.J. Mitchell. 1999. Summary of Undergraduate Research-in-Progress: Competitive interaction between purple loosestrife (*Lythrum salicaria*) and winged loosestrife (*Lythrum alatum*). Annual Meeting of the Ohio Academy of Science, 1999.

Brown, B.J. 1998. Invasive species: Testing their impact on the pollination of native plants. Department of Biological Sciences, Kent State University, Kent, Ohio, Invited Speaker.
Department of Biology, The University of Akron, Invited Speaker.

Brown, B.J. 1998. An unexpected threat from purple loosestrife. Ohio Division of Natural Areas and Preserves and The Ohio Society for Ecological Restoration, Workshop on Improving Awareness of the Threats of Non-Native Plants. Invited Speaker.

Brown, B.J. 1998. Principles of Biology I, Honors Section, Department of Biological Sciences, Kent State University, Guest Lecturer.

Brown, B.J., D.W. Kline and C.J. Woolverton. 1998. PowerPoint Plus. Department of Biological Sciences, Kent State University, Kent, Ohio, Invited Speaker.

Brown, B.J. 1998. The importance of plants and pollinators. Introduction to Zoology and Introduction to Botany, University of Akron. Invited Lecturer.

Brown, B.J. 1998. Health and the Environment. Adult Issues Class, Kent Presbyterian Church. Invited Speaker.

Brown, B.J. 1997. Principles of Biology I, Honors Section, Department of Biological Sciences, Kent State University, Guest Lecturer.

Walker, W., and **B.J. Brown.** 1997. Ecology 101. God's Earth: Our Home, Eco-Justice Workshop, National Council of Churches, Estes Park. Invited Speaker.

B.J. Brown. 1997. "Working with Middle Judicatories" . God's Earth: Our Home, Eco-Justice Workshop, National Council of Churches, Estes Park. Panelist.

Brown, B.J. 1997. The biblical basis for caring about creation. Forest Hill Church, P.C.U.S.A., Cleveland Heights. Invited Speaker.

Brown, B.J. 1997. Live simply and preserving God's creation. First Presbyterian Church, P.C.U.S.A., Warren. Invited Speaker.

Brown, B.J. 1997. Putting Faith First, Church Women United, Kent Presbyterian Church, P.C.U.S.A., Kent. Invited Speaker.

Brown, B.J. 1997. Global Warming: Our Call as Christians to Respond, Men's Fellowship Group, Northminster Presbyterian Church, Cuyahoga Falls. Invited Speaker.

Brown, B.J. 1996. Voluntary Simplicity. Kent Presbyterian Church, P.C.U.S.A. Invited Speaker.

Brown, B.J. 1996. Christians and Water: Called to Conserve. Adult Forum, First Presbyterian Church, Youngstown, Ohio.

Brown, B.J. 1996. Water warnings: Making peace with the earth's water. Peacemaking Subcommittee, Eastminster Presbytery and Justice Ministry, Western Reserve Presbytery, Invited Workshop Facilitator.

Brown, B.J. 1996. Watch those wetland invaders! U.S. National Park Service, Naturalist Gathering, Cuyahoga River National Recreation Area, Invited Speaker.

Brown, B.J. and L.G. Leff. 1995. Comparing environmental bacterial assemblages using molecular and physiological approaches. Research Conference, Water Resources Research Institute, Kent State University. (poster)

Brown, B.J. and C. E. Wickstrom. 1995. Post-cutting survival and growth of *Lythrum salicaria*: Shoot and roots. Research Conference, Water Resources Research Institute, Kent State University. (poster)

Brown, B.J. 1994. *Lythrum salicaria*: The purple menace. The Ohio Lake Management Society, Eighth Annual Symposium on Lake and Reservoir Management, Invited speaker.

Brown, B.J. and L.G. Leff. 1994. *Burkholderia (Pseudomonas) cepacia* abundance in streams. Joint Meeting of the Allegheny and Ohio Branches of the American Society for Microbiology, Bethany, West Virginia.

Brown, B.J. and J.H. Olive. 1994. Diatoms as indicators of water quality in the Cuyahoga River. Research Conference, Water Resources Research Institute, Kent State University. (poster)

Brown, B.J. 1994. Principles of Biology I, Honors Section, Department of Biological Sciences, Kent State University, Guest Lecturer.

Brown, B.J. 1992. Wetlands, the Army Corps of Engineers, and You. Ecology Lunch Series, Department of Biology, The University of Akron.

Plus 6 presentations to community, church and other organizations.

Grants:

The effect of distance on competition for pollination between invasive and native plant species, Faculty Development Grant, Nazareth College of Rochester, Awarded \$1900.00, May 2001.

Competition for pollination between invasive and native plant species, Faculty Development Grant, Nazareth College of Rochester, Awarded \$1980.00, May 2000.

The Effect of an invasive species (*Lythrum salicaria*) on seed set in a native *Lythrum (L. alatum)*, Sigma Xi. Awarded \$500.00, May 1998.

The Effect of an invasive species (*Lythrum salicaria*) on seed set in a native *Lythrum (L. alatum)*, Sigma Xi. Awarded \$700.00, May 1997.

Vegetative reproduction in *Lythrum salicaria*, Ohio Biological Survey. Awarded \$150.00, August 1, 1994.

Awards and Honors:

Reader: Advanced Placement: Biology, Educational Testing Service, Princeton, New Jersey
Undergraduate Conference Travel Grant Recipient, American Society for Microbiology's Undergraduate Microbiology Education Conference, Salt Lake City, 2002

Honorable Mention for Oral Presentation, Ecological Section of the Botanical Society of America, 1998

One of top four paper in The Ohio Journal of Science, 1997

Peacemaker Award, Eastminster Presbytery, 1997

University Fellowship, Kent State University, 1996-1997

Chairs' Award, Graduate Student Senate, Kent State University, 1996
Research Award, Graduate Student Senate, Kent State University, 1996
George A. and Edith Duncan Bowman Foundation Scholarship, Kent State University, 1994-95.
One of top seven papers in The Ohio Journal of Science, 1994
Meritorious Achievement Award in Environmental Microbiology, Ohio Branch American Society for Microbiology, 1994.
Student Member, Water Resources Research Institute
Dr. Kevin E. Kelleher Memorial Fund Scholarship in Ecology, The University of Akron, Department of Biology, 1992-1993.
Teaching Assistant of the Year, The University of Akron, Department of Biology, 1992-1993.

Undergraduate Advising/Supervision:

Julie Dill. Diatoms as indicators of water quality, 2002
Ann Rossi, Ethnobotanical capabilities of Black Cohosh (*Cimicifuga racemosa*), 2002
Emily Anderson. The impact of pollen from *Phragmites australis* on native plants, 2000-2001
Nadia Fedoriw. Zebra mussels as enhanced substrate for *Cladophora* growth, 2000-2001
Kristi Maroni. The impact of tongue rings on diversity and abundance of microbial flora in the mouth, 2000-2001
Jamie Pritchard. PCB's and their ability to enhance growth of three species of algae, 2000-2001
Ron Skipp. Alleopathic potential of *Lythrum salicaria* (purple loosestrife), 2000-2001.
Duree, N. Relative efficacy of over the counter and prescription medication for acne treatment. 1999-2000
Franklin, R. Bacterial colonization of a variety of contact lens materials, 1999-2000
Frye, P. Bacterial adhesion to dental enamel, 1999-2000
Northrup, M. The influence of road salt on growth of select ornamental plants, 1999-2000
Odegaard, K. Does salt stress influence the production of ethylene in plants, 1999-2000
Joel Thompson: The impact of *Lythrum salicaria* on growth of *Lythrum alatum* seedlings, 1998-present
Michelle Warrene: The impact of distance from an invasive species (*Lythrum salicaria*) on seed set in a native species (*L. alatum*), 1998-present
Jamilla Harris: Measuring nectar of *Lythrum* species. 1998
Sierjie Lash: Seed size variation in *Lythrum salicaria* and *L. alatum*, 1997
Melissa Luker, lab and field assistant 1997

Service:

Co- Chair, Legal Advocacy Fundraiser, American Association of University Women, Rochester Chapter, Summer 2002
Legal Advocacy Fund Representative, American Association of University Women, Rochester Chapter, 1999- present
Member, Campus Ministry Action Team, Nazareth College, Rochester, New York
Co-Founder, Zen Meditation Group, Nazareth College, Rochester, New York
Member, International Circle, Nazareth College, Rochester, New York
Local Chairperson, Annual Meeting of New York State American Association of University Women, 2000-2001
Judge, Science and Technology EXPO, Akron, Public Schools, Akron, Ohio 1999

Registrar, Midwest Ecology and Evolution Conference, Kent State University, 1998-1999
Advisory Committee Member, Crown Point Ecology Learning Center, 1998
Lay Pastor Trainee, Eastminster Presbytery, 1997-1999
Evergreen Emissary, The Evergreen State College, 1997-present
Editor, NEOSWA-L, e-mail list for the Northeast Ohio Science Writers Association, 1997-1999
Editor, OHPETE-L, e-mail list for the Ohio PETE Environmental Education Information Exchange, 1996-1999
Editor, AWISNEOC, e-mail list Northeastern Ohio Chapter, Association for Women in Science, 1995-1999
Restoring Creation Enabler, Committee on Social Justice and Peacemaking, Eastminster Presbytery, Youngstown, Ohio, 1995-1999.
Greenhouse Tour Guide, Experience Kent, Kent State University, 1998
Moderator, 13th Annual Graduate Research Colloquium, Kent State University, 1998
Greenhouse Tour Guide, Wall Elementary Kindergarten Visitation Day, 1998
Nominating Committee Chairperson, Northeastern Ohio Chapter, Association for Women in Science, 1997-1998
Graduate Student Representative, Department of Biological Sciences, Graduate Student Senate, Kent State University, 1997-1998
Northeastern Ohio Chapter, Association for Women in Science: Nominating committee Chairperson, 1997-98, President 1996-1997, President- Elect 1995-1996, Interim President 1994-1995, Charter Member, 1994.
Judge, Ohio State Science Fair, Columbus, Ohio, 1997
Moderator, 12th Annual Graduate Research Colloquium, Kent State University, 1997
Alternate Representative, Graduate Student Senate, Kent State University, 1995-1997
Student Representative, Wetlands Ecologist Search Committee, 1997
Member, Pastor Nominating Committee, Firestone Park Presbyterian Church, Akron, Ohio, 1995-96.
Student Representative, Plant Molecular Systematics Search Committee, 1994-95.
Portage Trail Group, Sierra Club: Volunteer Coordinator 1991-1992, President, 1990-1991.

Non-Academic Positions:

Project Manager, ACRT, Inc., Kent, Ohio 1994. Managed multi-county environmental assessment team which included coordinating efforts of two consulting firms and final report preparation.

Consultant, ACRT, Inc., Kent, Ohio. 1992-1993. Responsible for all aspects of bridge replacement assessments including analysis of water quality using macroinvertebrates, statistical analysis of data and report preparation.

Office Manager/Data Management, 1986-1991, Clampco Products, Inc. Wadsworth, Ohio. Responsibilities included serving as Hazards Compliance Coordinator and Purchasing Manager for portions of that time period.

Prior to 1986 I served in a variety of increasingly responsible administrative positions including Office Manager for a boat repair yard and research interviewer for Battelle Memorial Institute.

Miscellaneous:

Photographic credits in Abercrombie, J. 1996. Walks and Rambles in Ohio's Western Reserve, Backcountry Press, Woodstock.

Professional Societies:

American Association of University Women
American Society for Microbiologists
Botanical Society of America
Ecological Society of America
Sigma Xi
Society of Economic Botany