

# Morgan L. Vis

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**Current Address:**

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**Education:**

B.A. Biology, Kalamazoo College 1989  
Senior project "The effect of phosphorus limitation on hair cells of *Audouinella violacea* (Rhodophyta)"  
M.S. Botany, University of Rhode Island 1991  
"Systematics of the freshwater red algal family Lemnaneaceae in North America"  
Ph.D. Biology, Memorial University of Newfoundland 1995  
"Systematics and biogeography of the freshwater red algal genus *Batrachospermum* section *Batrachospermum* in North America"

**Experience:**

Professor: Ohio University, September 2008-present  
Associate Professor: Ohio University, September 2002-2008  
Assistant Professor: Ohio University, September 1996-2002  
Postdoctoral Research Position- University of Guelph, Aug. 1995- Aug. 1996, Molecular biology of freshwater red algae.  
Postdoctoral Research Position- Memorial University of Newfoundland, Nov. 1994- June 1995, Molecular biology of Greenland halibut.  
Lecturer Position- University of Rhode Island, Summer 1992, Biology of Plants for Non-majors.  
Research Assistant- University of Rhode Island, Summer 1990.

**Ongoing Professional Activities:**

Chair, Department of Environmental & Plant Biology January-July 2009  
Editorial Board Member – *European Journal of Phycology* 1999-present  
Graduate Chair, Department of Environmental & Plant Biology July 2004-January 2009  
Faculty Mentor Ohio University Genomics Facility Fall 2006-present  
Elected Editorial Board Member – *Journal of Phycology* 2009-2011

**Honors:**

2006 President of the Phycological Society of America  
2004 Delivered Graduate Commencement Address; an honor given to the person who was the Outstanding Graduate Faculty Member in the previous year  
2003 Awarded Outstanding Graduate Faculty Member at Ohio University by the Graduate Student Senate (one award for the university per year)  
2003 Arts & Sciences Dean's Outstanding Teacher Award  
1997 Elected to Sigma Xi  
1994 Fellow of the School of Graduate Studies; Hoshaw Travel Award, Phycological Society of

America

- 1993 British Phycological Society Travel Scholarship, Northeast Algal Society Book Award
- 1992 Hoshaw Travel Award, Phycological Society of America
- 1991 Hoshaw Travel Award, Phycological Society of America
- 1990 Eagle Hill Biological Station Scholarship, awarded on merit to students exhibiting an interest in a particular field of study.

#### Patents:

“Enhanced Practical Photosynthetic CO<sub>2</sub> Mitigation,” 60/218,871 (with D. Bayless & G. Kremer), issued 12/23/2003, Patent Number 6667171.

“Apparatus and Method for Growing Biological Organisms for Fuel and Other Uses,” 60/799,440 (with D. Bayless, G. Kremer and B. Stuart), May 10, 2006 (pending).

“Flow Controlling Header for Delivering Fluid,” 60/938,517 (with S. Switzer, D. Bayless, G. Kremer and B. Stuart), May 17, 2007 (pending).

#### Grants:

##### External Funding:

1. 2009. National Science Foundation (NSF), “Collaborative Research, RedToL - Phylogenetic and Genomic Approaches to Reconstructing the Red Algal (Rhodophyta) Tree of Life,” \$3,000,000 total \$362,424 to OU (PI-Vis) 9/1/09-8/31/12 (collaborative grant with HS. Yoon, J. Lopez-Bautista, D. Bhattacharya).
2. 2009. National Science Foundation (NSF), “REVSYS: Systematics of the batrachospermalean *Contorta* clade (Rhodophyta),” REU supplement M.L. Vis \$7,000.
3. 2008. National Science Foundation (NSF), “REVSYS: Systematics of the batrachospermalean *Contorta* clade (Rhodophyta),” REU supplement M.L. Vis \$7,000.
4. 2008. Ohio Biological Survey, “The Role of Algal Diversity in Ecosystem Functions of Acid Mine Drainage Impaired and Remediated Streams”, PIs M. Vis & N. Smucker, \$500.
5. 2007. National Science Foundation (NSF), “REVSYS: Systematics of the batrachospermalean *Contorta* clade (Rhodophyta),” PI M.L. Vis & CoPI O. Necchi Jr., \$150,696. (3/15/07-2/29/10).
6. 2006. National Science Foundation (NSF), “Acquisition of equipment for a core genomics facility at Ohio University,” PI S. Wyatt & CoPI M. Vis, \$448,509.
7. 2005. Ohio Biological Survey, “Autecology of *Batrachospermum helminthosum* (Rhodophyta) in a small woodland stream of southeastern Ohio, PIs M. Vis & J. Zalack, \$500.
8. 2005. National Science Foundation (NSF), “A robust phylogeny of the Batrachospermales (Rhodophyta),” REU Supplement. M.L. Vis \$6,000.
9. 2004. Environmental Protection Agency (EPA), “Development of Watershed Classification systems for diagnosis of biological impairment in watershed and their receiving water bodies.” PI – Ed Rankin, Co-PIs J. Dyer, K. Johnson, D. Lopez, G. Springer, M. Stoertz, B. Stuart, M. Vis, C. Yoder \$869,440.

10. 2004. National Science Foundation (NSF), "A robust phylogeny of the Batrachospermales (Rhodophyta)," REU Supplement. M.L. Vis \$6,004.
11. 2003. National Science Foundation (NSF), "A robust phylogeny of the Batrachospermales (Rhodophyta)," M.L. Vis \$151,164.
12. 2001-2004. U.S. Department of Energy (DOE), "Adaptive, Full-Spectrum Solar Energy Systems," PI D. Bayless, CoPIs M. Vis & G. Kremer, \$133,000 (sub-contract).
13. 2000. U.S. Department of Energy (DOE), "Enhanced Practical Photosynthetic CO<sub>2</sub> Mitigation", PI D. Bayless, CoPIs M. Vis & G. Kremer, \$1.07 Million. Supplement of \$50,000 received in 2004.
14. 2000. Cacapon Institute, "Periphyton Identification & Quantification," Contract to M.L. Vis, \$2,600.
15. 1999. Ohio Biological Survey Institutional Grant, "Aquatic Algal Flora of Deep Woods Farm, Hocking County, OH", M. Vis \$500.
16. 1999. U.S. Department of Energy (DOE), "Carbon Dioxide Mitigation through Controlled Photosynthesis," \$50,000, PI D. Bayless & CoPI M. Vis.
17. 1998. Ohio Biological Survey Institutional Grant, "The Bryoflora of Dysart Woods, an Ohio Old Growth Forest," M. Vis \$500.
18. 1998. Ohio Biological Survey. "All Taxa Survey of Deep Woods, Hocking County, OH," PI M. Vis, CoPIs S. Moody & B. McCarthy \$2,500.
19. 1997. Ohio Biological Survey Institutional Grant, "Aquatic Flora of the Hocking River Drainage Basin," M. Vis \$500.
20. 1997. Ohio Board of Regents Eisenhower Professional Development Program, "The Environment for the Next Millennium." K. Albertson (P.I.), J.P. Braselton (Science Coordinator), M.L. Vis & I.K. Smith (Workshop coordinators) \$45,070.

Internal Funding:

1. 2009. Program to Aid Career Exploration (PACE), "Research Assistant in Phycology," \$1,800; Program to Aid Career Exploration (PACE), "Research Assistant in Stream Ecology," \$1,800.
2. 2009. International Travel Fund, "Research trip to China," \$500.
3. 2008. Program to Aid Career Exploration (PACE), "Research Assistant in Phycology," \$1,800; Program to Aid Career Exploration (PACE), "Research Assistant in Stream Ecology," \$1,800.
4. 2007. International Travel Fund, "Research trip to Guam, Palau & Chuuk," \$210.
5. 2007. Baker Fund, "Phylogeography of *Batrachospermum gelatinosum* (Rhodophyta) in North America," \$7,500.
6. 2007. Program to Aid Career Exploration (PACE), "Research Assistant in Phycology," \$1,800.

7. 2006. International Travel Fund, "Research trip to Malaysia," \$500.
8. 2006. 1804 Fund Award, "Biodiesel production from algal biomass feedstocks," PIs B. Stuart, G. Riefler, M. Vis, G. Kremer & D. Bayless, \$26,281.
9. 2006. Office of the Vice President for Research, "Construction of a Biodiesel Production and Analysis Laboratory" PIs D. Bayless, B. Stuart, G. Kremer & M. Vis, \$50,000.
10. 2006. Program to Aid Career Exploration (PACE), "Research Assistant in Phycology," \$1,800.
11. 2005. Program to Aid Career Exploration (PACE), "Research Assistant in Phycology," \$1,800.
12. 2004. Program to Aid Career Exploration (PACE), "Research Assistant in Phycology," \$1,800.
13. 2003. Program to Aid Career Exploration (PACE), "Research Assistant in Phycology," \$1,800.
14. 2002. Program to Aid Career Exploration (PACE), "Research Assistant in Phycology," \$1,800.
15. 2001. 1804 Fund, "Greenhouse Gas and Nitrogen Emissions Bioremediation using Applications of Translating Slug Flow," PI B. Stuart, CoPIs D. Bayless, G. Kremer, M. Prudich, M. Vis \$32,000.
16. 2001. Program to Aid Career Exploration (PACE), "Research Assistant in Bryology & Phycology," \$1,620.
17. 2001. Summer Incentives Pool, "Neotropical Rainforest Ecology," M. Vis & H. Ballard \$2,400.
18. 2001. Summer Incentives Pool, "Island Biology," M. Vis & H. Ballard \$8,214.
19. 2000. 1804 Fund, "Integrating Undergraduate Natural Science Education Research Training and International Experience in a New Global Studies in Plant Biology Program," H.E. Ballard (P.I.) & M.L. Vis (Co. P.I.) \$44,955.
20. 2000. Baker Fund, "A better understanding of *Batrachospermum helminthosum* (Rhodophyta) population biology through detailed analysis of ITS sequence data," \$10,000.
21. 2000. Program to Aid Career Exploration (PACE), "Research Assistant in Bryology & Phycology," \$1,620.
22. 1999. Arts and Sciences Faculty Development Committee, "One-Week Bryophyte Workshop," \$865.
23. 1999. 1804 Fund, "Reducing Greenhouse Gas Emissions through Controlled Photosynthesis," PI G. Kremer, CoPIs D. Bayless & M. Vis \$27,000.
24. 1999. Program to Aid Career Exploration (PACE), "Research Assistant in Bryology & Phycology," \$1,620.
25. 1998. Program to Aid Career Exploration, "Research Assistant in Bryology & Phycology." \$1,620.

26. 1998. Ohio University Research Committee, "A Phylogeography of a freshwater red alga, *Batrachospermum helminthosum*." \$7,000.
27. 1998. Arts and Sciences Faculty Development Committee, "Attendance of a National Grant Writing Seminar in order to Create Outstanding Proposals," \$393.
28. 1998. 1804 Fund, "An Automated DNA Sequencing Facility for Increased Research Productivity," PI M. Vis, CoPI H. Ballard \$86,050.
29. 1997. Arts and Sciences Faculty Development Grant. "Field Course on Moss, Liverwort, & Sphagnum Moss Identification." \$1,005.
30. 1997. Program to Aid Career Exploration. "Research Assistant in Phycology." \$1,620.

#### Publications in Refereed Journals:

**Graduate student advisees in *italics*, undergraduate advisees underlined.**

1. *Smucker, N.J.*, DeForest, J.L. & **Vis, M.L.** Improving consistency: Comparing methods for measuring epilithic extracellular enzyme activities in lotic biofilms and storage duration effects. *Hydrobiologia* (in press September 2009).
2. Necchi, O. Jr., **Vis, M.L.** & Oliveira, M.C. 2010. Phylogenetic relationships in *Kumanoa* (Batrachospermales, Rhodophyta) species in Brazil with the proposal of *Kumanoa amazonensis* sp. nov. *Phycologia* (in press March issue).
3. *Zalack, J.T.*, *Smucker, N.J.* & **Vis, M.L.** Development of a diatom index of biotic integrity for acid mine drainage impacted streams. *Ecological Indicators* (in press June 2009).
4. *Smucker, N.J.* & **Vis, M.L.** 2009. Using diatoms to assess agricultural and coal mining impacts on streams, and a multi-assemblage case study. *Journal of the North American Benthological Society* 28: 659-675.
5. Stancheva, R. & **Vis, M.L.** 2009. Notes on distribution of *Batrachospermum arcuatum* and *B. gelatinosum* (Batrachospermales, Rhodophyta) in Bulgaria. – In: Ivanova, D. (ed.), Plant, fungal and habitat diversity investigation and conservation. *Proceedings of IV Balkan Botanical Congress*, Sofia, 20–26 June 2006. Pp. 128–133. Institute of Botany, Sofia. ISBN 978-954-9746-14-3.
6. **Vis, M.L.** & Kapustin D.A. 2009. *Batrachospermum keratophytum* Bory emend. R.G. Sheath, M.L. Vis et K.M. Cole, A new freshwater red algal species for Ukraine. *Algologia* 19: 226-229.
7. Entwisle, T.J., **Vis, M.L.**, Chiasson, W.B., Necchi, O. Jr. & Sherwood, A.R. 2009. Systematics of the Batrachospermales – A Synthesis. *Journal of Phycology* 45: 704-715.
8. Sherwood, A.R., **Vis, M.L.**, Entwisle, T.J., Necchi, O. Jr. & Presting, G.G. 2008. Contrasting intra- versus inter-species variation for representatives of the Batrachospermales (Rhodophyta): considerations for DNA barcoding of red algae. *Phycological Research* 56: 269-279.
9. Morales, E.A., **Vis, M.L.**, Fernández, E., Kocielek, J.P. 2008. Epilithic diatoms (Bacillariophyta) from cloud forest and alpine streams in Bolivia, South America II: A preliminary report on the

- diatoms from Sorata, Department of La Paz. *Acta Nova* 3: 680-696.
10. Smucker, N.J., Edlund, M.B. & Vis, M.L. 2008. The distribution, morphology, and ecology of a non-native species, *Thalassiosira lacustris* (Bacillariophyceae), from benthic stream habitats in North America. *Nova Hedwigia* 87: 201-220.
  11. Vis, M.L., Hodge, J.C. & Necchi, O. Jr. 2008. Phylogeography of *Batrachospermum macrosporum* (Batrachospermales, Rhodophyta) from North and South America. *Journal of Phycology* 44: 882-888.
  12. House, D.L., Sherwood, A.R. & Vis, M.L. 2008. Comparison of three organelle markers for phylogeographic inference in *Batrachospermum helminthosum* (Batrachospermales, Rhodophyta) from North America. *Phycological Research* 56: 69-75.
  13. Morales, E.A. & Vis, M.L. 2007. Epilithic diatoms (Bacillariophyceae) from cloud forest and alpine streams in Bolivia, South America. *Proceedings of the Philadelphia Academy of Science* 156: 123-155.
  14. Stewart, S.A. & Vis, M.L. 2007. Investigation of two species complexes in *Batrachospermum* Section *Batrachospermum* (Batrachospermales, Rhodophyta). *Phycologia* 46: 380-385.
  15. Chiasson, W.B., Johanson, K.G., Sherwood, A.R. & Vis, M.L. 2007. Phylogenetic affinities of the form taxon *Chantransia pygmaea* (Rhodophyta) specimens from the Hawaiian Islands. *Phycologia* 46: 257-262.
  16. Vis, M.L., Harper, J.T. & Saunders, G.W. 2007. Does the combination of large subunit rDNA and *rbcl* gene sequence data provide more resolution among taxa of the Batrachospermales (Rhodophyta)? *Phycological Research* 55: 103-112.
  17. Necchi, O. Jr., Vis, M.L. & Oliveira, M.C. 2007. Phylogenetic relationship of *Sirodotia* species (Batrachospermales, Rhodophyta) in North and South America. *Cryptogamie Algologie* 28: 117-127.
  18. Zalack, J.T., Casamatta, D.A., Verb, R.G. & Vis, M.L. 2006. A two year survey of the algal community in a woodland stream from southeastern Ohio. *Northeast Naturalist* 13: 301-318.
  19. Verb, R.G., Vis, M.L. & Stuart, B.J. 2006. Analysis of diatom communities in an acid mine drainage impacted subwatershed. *Kirtlandia* 55: 43-50.
  20. Verb, R.G., Bixby, R.J., Casamatta, D.A., Chiasson, W.B., Filkin, N.R., Hall, M.M., Hamsher, S.E., Taylor, D.A. & Vis, M.L. 2006. Checklist of algal taxa from Ohio's unglaciated Western Allegheny Plateau exclusive of the Ohio River. Ohio Biological Survey Miscellaneous Contribution No. 11.
  21. Vis, M.L., Entwisle, T.J., West, J.A. & Ott, F.D. 2006. *Ptilothamnion richardsii* (Rhodophyta) is a chantransia stage of *Batrachospermum*. *European Journal of Phycology* 41: 125-130.
  22. Vis, M.L., Chiasson, W.B. & Sheath, R.G. 2005. Phylogenetic relationships of *Batrachospermum* species (Batrachospermales, Rhodophyta) from coastal streams in French Guiana. *Phycologia* 44: 441-446.

23. Necchi, O. Jr. & **Vis, M.L.** 2005. Reproductive ecology of the freshwater red alga, *Batrachospermum delicatulum* (Rhodophyta, Batrachospermales) in three tropical streams. *Phycological Research* 53: 194-200.
24. *Casamatta, D.A.*, Johansen, J.R., **Vis M.L.** & Broadwater, S.T. 2005. Molecular and morphological characterization of ten polar and near-polar strains within the Oscillatoriales (Cyanobacteria). *Journal of Phycology* 41: 421-438.
25. Chiasson, W.B., Sabo, N.J. & **Vis, M.L.** 2005. Molecular and morphological analysis of putative chantransia specimens (Rhodophyta). *Phycologia* 44: 163-168.
26. *Verb, R.G.* & **Vis, M.L.** 2005. Periphyton assemblages as bioindicators of mine-drainage in unglaciated Western Allegheny Plateau lotic systems. *Water, Air, and Soil Pollution* 161: 227-265.
27. Sherwood, A.R., **Vis, M.L.** & Sheath, R.G. 2004. Phenology and phylogenetic positioning of the Hawaiian endemic freshwater alga, *Batrachospermum spermatiophorum* (Rhodophyta, Batrachospermales). *Phycological Research* 52: 193-203.
28. *Hamsher, S.E.*, Verb, R.G. & **Vis, M.L.** 2004. Analysis of acid mine drainage impacted streams using a periphyton index. *Journal of Freshwater Ecology* 19: 313-324.
29. **Vis, M.L.**, Sheath, R.G. & Chiasson, W.B. 2004. A survey of the Rhodophyta and associated macroalgae from coastal streams in French Guiana. *Cryptogamie Algologie* 25: 161-174.
30. *Filkin, N.R.* & **Vis, M.L.** 2004. Phenology of *Paralemanea annulata* (Lemaneaceae, Rhodophyta) in an Ohio woodland stream. *Hydrobiologia* 518: 159-168.
31. Entwisle, T.J., **Vis, M.L.** & McPherson, H. 2004. *Batrachospermum pseudogelatinosum* (Batrachospermales, Rhodophyta), a polyecious, paraspecies from Australia and New Zealand. *Australian Journal of Botany* 17: 17-28.
32. *Casamatta, D.A.* & **Vis, M.L.** 2004. Current velocity and nutrient level effects on the morphology of *Phormidium retzii* (Cyanobacteria) in artificial stream mesocosms. *Algological Studies* 113: 87-99.
33. Chiasson, W.B., Machesky, N.J. & **Vis, M.L.** 2003. Phylogeography of a freshwater red alga, *Batrachospermum helminthosum*, (Rhodophyta) in North America. *Phycologia* 42: 654-660.
34. *Casamatta, D.A.*, **Vis, M.L.** & Sheath, R.G. 2003. Cryptic species in cyanobacterial systematics: a case study of *Phormidium retzii* (Oscillatoriales) using 16S rDNA and RAPD analyses. *Aquatic Botany* 77: 295-309.
35. *Casamatta, D.A.* & **Vis, M.L.** 2003. Ecological role of *Phormidium retzii* (Cyanobacteria) in a small Ohio woodland stream. *Journal of Freshwater Ecology* 18: 395-404.
36. *Filkin, N.R.*, Sherwood, A.R. & **Vis, M.L.** 2003. Macroalgae from 23 stream segments in the Hawaiian Islands. *Pacific Science* 57: 421-432.
37. McClintic, A.M., *Casamatta, D.A.* & **Vis, M.L.** 2003. A survey of algae from montane cloud forest and alpine streams in Bolivia: Macroalgae and associated soft-bodied microalgae. *Nova*

*Hedwigia* 76: 363-379.

38. Casamatta, D.A., Verb, R.G., Beaver, J.R. & Vis, M.L. 2002. An investigation of the cryptobiotic community from sandstone cliffs in Southeast Ohio. *International Journal of Plant Sciences* 163: 837-845.
39. Hall, M.M. & Vis, M.L. 2002. Genetic variation in *Batrachospermum helminthosum* (Rhodophyta) among and within stream reaches using inter-simple sequence repeat (ISSR) molecular markers. *Phycological Research* 50: 155-162.
40. Rubino, D.L. & Vis, M.L. 2001. Bryophyte flora of Dysart Woods, An Ohio old growth forest. *Castanea* 66: 327-335.
41. Verb, R.G., Casamatta, D.A. & Vis, M.L. 2001. Effects of different vegetative substrates on algal composition in vernal mesocosms. *Hydrobiologia* 445: 111-120.
42. Verb, R.G. & Vis, M.L. 2001. An examination of macroalgal communities from an acid mine drainage impacted watershed. *Aquatic Botany* 71: 93-107.
43. Stevens, A.E., McCarthy, B.C. & Vis, M.L. 2001. Metal content of *Klebsormidium*-dominated (Chlorophyta) algal mats from acid mine drainage waters in southeastern Ohio. *The Journal of the Torrey Botanical Society* 128: 226-233.
44. Vis, M.L., Miller, E.J. & Hall, M.M. 2001. Biogeographic analyses of *Batrachospermum helminthosum* (Batrachospermales, Rhodophyta) in North America using molecular and morphological data. *Phycologia* 40: 2-9.
45. Vis, M.L. & Entwisle, T.J. 2000. Insights into Batrachospermales (Rhodophyta) phylogeny from *rbcl* sequence data of Australian taxa. *Journal of Phycology* 36: 1175-1182.
46. Verb, R.G. & Vis, M.L. 2000. Comparison of benthic diatom communities from streams draining abandon mines, reclaimed mines and non-impacted sites. *Journal of the North American Benthological Society* 19: 274-288.
47. Entwisle, T.J., Vis, M.L. & Foard, H.J. 2000. Systematics and biogeography of *Psilosiphon* (Psilosiphonaceae, Rhodophyta) in Australia and New Zealand. *Cryptogamie Algologie* special issue 21: 133-148.
48. Hambrook, J.A., Armitage, B.J. & Vis, M.L. 1999. Algal and macroinvertebrate assemblages of selected Ohio springs. *Ohio Biological Survey Notes* 2: 1-24.
49. Edlund, M.B., Soninkhishig N., Vis, M.L. 1999. Distribution, taxonomy, and conservation value of *Batrachospermum* (Batrachospermaceae, Rhodophyta) in Mongolia. *Proceedings of the Mongolian Academy of Sciences* 3: 47-54.
50. Rintoul, T., Sheath, R.G. & Vis, M.L. 1999. Systematics and biogeography of the Compsopogonales (Rhodophyta) with emphasis on freshwater genera in North America. *Phycologia* 38: 517-527.
51. Vis, M.L. 1999. The applicability of inter- Simple Sequence repeats (inter- SSR) to distinguish individuals of *Batrachospermum boryanum* (Batrachospermales, Rhodophyta). *Phycologia* 38:

70-73.

52. Verb, R.G., Vis, M.L., Ott, D.W. & Wallace, R.L. 1999. New records of *Vaucheria* species (Xanthophyceae) with associated *Proales werneckii* (Rotifera). *Cryptogamie Algologie* 20: 67-73.
53. Vis, M.L. & Sheath, R.G. 1999. Systematics of *Sirodotia* species (Batrachospermales, Rhodophyta) in North America based on molecular data. *Phycologia* 38: 261-266.
54. Vis, M.L., Saunders, G.W., Sheath, R.G., Dunse, K. & Entwisle, T.J. 1998. Phylogeny of the Batrachospermales (Rhodophyta) as inferred from *rbcL* and 18S ribosomal RNA gene DNA sequences. *Journal of Phycology* 34:341-350.
55. Müller, K.M., Sheath, R.G., Vis, M.L. Crease, T.J. & Cole, K.M. 1998. Biogeography and systematics of *Bangia* (Bangiales, Rhodophyta) based on the RuBisCo spacer, *rbcL* gene and 18S rDNA gene sequences and morphometric analyses I. North America. *Phycologia* 37: 195-207.
56. Vis, M.L. & Sheath, R.G. 1998. A molecular and morphological investigation of the relationship between *Batrachospermum spermatoinvolucrum* and *B. gelatinosum* (Batrachospermales, Rhodophyta). *European Journal of Phycology* 33: 231-240.
57. Müller, K.M., Vis, M.L., Chiasson, W.B., Whittick, A. & Sheath, R.G. 1997. Phenology of a *Batrachospermum* population in a boreal pond and its implications for the systematics of section *Turfosa* (Batrachospermales, Rhodophyta) *Phycologia*. 36: 68-75.
58. Vis, M.L., Carr, S.M., Bowring, R., & Davidson, W. 1997. Greenland halibut (*Reinhardtius hippoglossoides*) in the North Atlantic are genetically homogenous. *Canadian Journal of Fisheries and Aquatic Sciences* 54: 1813-1821.
59. Vis, M.L. & Sheath, R.G. 1997. Biogeography of *Batrachospermum gelatinosum* (Batrachospermales, Rhodophyta) in North America based on molecular and morphological data. *Journal of Phycology* 33: 520-526.
60. Sheath, R.G., Vis, M.L., Hambrook, J. A. and Cole, K.M. 1996. Tundra stream macroalgae of North America: composition distribution and physiological adaptations. Biogeography of Freshwater Algae. (ed. by J. Kristiansen). Invited contributions. *Hydrobiologia* 336: 67-82.
61. Vis, M.L. & Sheath, R.G. 1996. Distribution and systematics of *Batrachospermum* (Batrachospermales, Rhodophyta) in North America. 9. Section *Batrachospermum*: Descriptions of five new species. *Phycologia* 35: 124-34.
62. Vis, M.L., Sheath, R.G. & Cole, K.M. 1996. Distribution and systematics of *Batrachospermum* (Batrachospermales, Rhodophyta) in North America. 8b. Section *Batrachospermum*: excluding *B. gelatinosum*. *European Journal of Phycology* 31: 189-199.
63. Vis, M.L., Sheath, R.G. & Cole, K.M. 1996. Distribution and systematics of *Batrachospermum* (Batrachospermales, Rhodophyta) in North America. 8a. Section *Batrachospermum*: *B. gelatinosum*. *European Journal of Phycology* 31:31-40.
64. Sheath, R.G., Müller, K.M., Vis, M.L. & Entwisle, T.J. 1996. A re-examination of the

- morphology, ultrastructure and classification of genera in the Lemnaceae (Batrachospermales, Rhodophyta). *Phycological Research* 44: 233-246.
65. Sheath, R.G., **Vis, M.L.** & Cole, K.M. 1995. Distribution and systematics of *Batrachospermum* (Batrachospermales, Rhodophyta) in North America. 7. Section *Hybrida*. *Phycologia* 34: 431-438.
66. **Vis, M.L.**, Entwisle, T.E. & Sheath, R.G. 1995. Morphometric analysis of *Batrachospermum* Section *Batrachospermum* type specimens. *European Journal of Phycology* 30: 35-55.
67. Sheath, R.G., **Vis, M.L.** & Cole, K.M. 1994. Distribution and systematics of *Batrachospermum* (Batrachospermales, Rhodophyta) in North America. 5. Section *Aristata*. *Phycologia* 33: 404-414.
68. Sheath, R.G., **Vis, M.L.** & Cole, K.M. 1994. Distribution and systematics of *Batrachospermum* (Batrachospermales, Rhodophyta) in North America. 6. Section *Turfosa*. *Journal of Phycology* 30: 872-884.
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1. Vis, M.L., Feng, J., Chiasson, W.B., Xie, S-L., Stancheva, R., Entwisle, T.J., Chou, J-Y. & Wang, W-L. Phylogeography of *Batrachospermum arcuatum* from locations worldwide (Batrachospermales, Rhodophyta). *Phycologia* (submitted January 2009).
2. Hollingsworth, E.K. & Vis, M.L. The spatial heterogeneity of diatoms in eight southeastern Ohio streams: how far does a single riffle reach? *Freshwater Biology* (submitted June 2009).

**Technical Reports & Popular press (un-refereed):**

1. Bayless, D.J., Kremer, G.G., Prudich, M.E., Stuart, B.J., **Vis-Chiasson, M.L.**, Cooksey, K. & Muhs, J. 2001. Enhanced practical photosynthetic CO<sub>2</sub> mitigation. Proceedings of the 1<sup>st</sup> National Conference on Carbon Sequestration 5A4: 1–14.
2. Smucker, N.J. & Vis, M.L. 2007. What can algae tell us about Leading Creek? Leading Creek News (a newsletter by the watershed group). October-December issue.

**Papers Presented:**

1. **Vis, M.L.**, Necchi, O. Jr. & Chiasson, W.B. Molecular systematics of the freshwater red algal genus, *Kumanoa* (Batrachospermales, Rhodophyta). International Phycological Congress, Tokyo, Japan, August 2009.
2. **Vis, M.L.**, Entwisle, T.J., Chiasson, W.B., Necchi, O. Jr. & Sherwood, A.R. Systematics of the Batrachospermales – A Synthesis. Phycological Society of America, New Orleans, LA July 2008.
3. **Vis, M.L.**, Chiasson, W.B., Stancheva, R., Chou, J.-Y. Phylogeographic relationships among *Batrachospermum arcuatum* (Rhodophyta) collections throughout its distribution. Phycological Society of America, Warwick, RI August 2007.
4. **Vis, M.L.**, Entwisle, T.J., Necchi, O. Jr. & Sheath R.G. Phylogenetic relationships among *Batrachospermum* species (Rhodophyta) based on molecular data from Southern Hemisphere specimens,” 8<sup>th</sup> International Phycological Congress, Durban, South Africa August 2005.
5. **Vis, M.L.**, Chiasson, W.B. & Sheath, R.G. Phylogenetic affinities of *Batrachospermum* specimens from French Guiana. Phycological Society of America, Williamsburg, VA August 2004.
6. **Vis, M.L.**, Chiasson, W.B. & Sheath, R.G. *rbcl* analysis of eight *Batrachospermum* species from French Guiana. Southeastern Phycological Colloquy, Beaufort, NC October 2003.
7. Chiasson, W.B., Machesky, N.J. & **Vis, M.L.** Phylogeography of *Batrachospermum helminthosum* (Rhodophyta) in North America. Phycological Society of America, Madison, WI August 2002.
8. **Vis, M.L.**, Hall, M.M., Machesky, N.J. & Miller E.J. Synthesis of molecular research on *Batrachospermum helminthosum* (Rhodophyta) from stream reaches in eastern North America.

- Phycological Society of America, Estes Park, CO June 2001.
9. **Vis, M.L.** & McClintic, A.S. Macroalgal taxa from montane cloud forest and alpine streams in Bolivia," Northeast Algal Symposium, Plymouth, MA April 2001.
  10. **Vis, M.L.**, Miller, E.M. & Hall, M.M. Biogeography of *Batrachospermum helminthosum* (Batrachospermales, Rhodophyta) in North America using molecular and morphological data. Phycological Society of America, San Diego, CA July 2000.
  11. **Vis, M.L.** & Entwisle, T.J. Insights into Batrachospermales (Rhodophyta) phylogeny from *rbcl* sequence data of Australian taxa. 38<sup>th</sup> Northeast Algal Symposium, Plymouth, MA April 1999.
  12. **Vis, M.L.**, Harper, T.J. & Saunders, G.W. Phylogenetic relationships among taxa of Batrachospermales (Rhodophyta) based on large subunit rDNA sequence data. International Botanical Congress, St. Louis, MO August 1999.
  13. **Vis, M.L.** The applicability of inter- Simple Sequence repeats (inter- SSR) to distinguish individuals of *Batrachospermum boryanum* (Batrachospermales, Rhodophyta). 37<sup>th</sup> Northeast Algal Symposium, Plymouth, MA. April 1998.
  14. **Vis, M.L.** & Sheath, R.G. A molecular investigation of the systematic relationship among *Sirodotia* species (Batrachospermales, Rhodophyta) in North America. Phycological Society of America, Flagstaff, AZ, August 1998.
  15. **Vis, M.L.** Floristic Algal Studies in Southeastern Ohio. 2<sup>nd</sup> Annual Ohio Algae Meeting, November 1998.
  16. **Vis, M.L.**, Chiasson, W.B. & Sheath, R.G. A survey of the splash zone macroalgae in the Great Lakes. Pennsylvania Natural History Conference, Powder Mill Biological Station, PA. April 1997.
  17. **Vis, M.L.** & Sheath, R.G. A molecular and morphological investigation of the relationship between *Batrachospermum spermatoinvolucrum* and *B. gelatinosum* (Batrachospermales, Rhodophyta). 6<sup>th</sup> International Phycological Congress, Leiden, The Netherlands. August 1997.
  18. **Vis, M.L.** & Sheath, R.G. Phylogeny of the Batrachospermaceae (Rhodophyta) based on *rbcl* and ribosomal LSU sequences. Golden Anniversary Meeting of the Phycological Society of America, University of Santa Cruz, CA. July 1996.
  19. **Vis, M.L.** & Sheath, R.G. Systematics and Biogeography of *Batrachospermum* section *Batrachospermum* (Rhodophyta, Batrachospermales) in North America. Annual meeting of the Phycological Society of America, Miami, FL. June 1994.
  20. **Vis, M.L.**, Sheath, R.G. & Cole, K.M. Stream macroalgae of the Hawaiian Islands: a preliminary study. British Phycological Society, University of Wales, Swansea, January 1993.
  21. **Vis, M.L.**, Sheath, R.G., Hambrook, J.A. & Cole, K.M. Stream macroalgae of the Hawaiian Islands: a preliminary study. 32<sup>nd</sup> Northeast Algal Symposium, Woods Hole, MA. April 1993.
  22. **Vis, M.L.** & Sheath, R.G. Distribution and systematics of *Chroodactylon* (Porphyridiales, Rhodophyta) from freshwater streams in North America. 31<sup>st</sup> Northeast Algal Symposium, Woods Hole, MA. April 1992.

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24. **Vis, M.L.** & Sheath, R.G. Systematics of the freshwater red algal family Lemnaceae in North America. 4th International Phycological Congress, Duke University, NC August 1991. *Journal of Phycology* 27 Suppl. p.74.
25. **Vis, M.L.**, Carlson, T.A., Korch, J.E. & Sheath, R.G. The phenology of *Lemanea fucina* (Rhodophyta) in a Rhode Island River, USA. 29<sup>th</sup> Northeast Algal Symposium, Woods Hole, MA. April 1990.

**Published Abstracts and presentations, which were presented by other authors:**

Graduate student advisees in *italics*, undergraduate advisees underlined.

1. Stuart B., Bayless D., Kremer G., **Vis M.** & Riefler G. Carbon recycling via membrane-based photobioreactor. Institute for Biological Engineering, Santa Clara, CA, March 2009.
2. *Smucker N.J.* & **Vis M.L.** Acid mine drainage and remediation impacts on biofilm structure and extracellular enzyme activities during succession. North American Benthological Society, Grand Rapids, MI, May 2009.
3. Drerup S.A. & **Vis M.L.** Phenology of *Batrachospermum gelatinosum* (Rhodophyta) in two Southeast Ohio streams. North American Benthological Society, Grand Rapids, MI, May 2009.
4. *Pool, J.R.*, & **Vis, M.L.** Phenology of *Batrachospermum helminthosum* (Rhodophyta). North American Benthological Society, Grand Rapids, MI, May 2009.
5. Verb R.G., Fuelling L.J., Bixby R.J., Adams J.A., Chiasson W.B. & **Vis M.L.** An occurrence of epizooic chantransia on rusty crayfish. North American Benthological Society, Grand Rapids, MI, May 2009.
6. *Rambani, A.* & **Vis, M.L.** Phylogeographic study of *Tuomeya americana* (Rhodophyta) in eastern North America. Northeast Algal Society, Amherst, MA, April 2009.
7. *Pool, J.R.*, **Vis, M.L.**, Verb, R.G., Zalack, J., Verb, M., *Smucker, N.J.* Phenology of *Batrachospermum helminthosum* (Rhodophyta). Northeast Algal Society, Amherst, MA, April 2009.
8. *Smucker, N.J.* & **Vis, M.L.** Using diatom data from different sampling protocols in stream biomonitoring: Potential for integration. Northeast Algal Society, Amherst, MA, April 2009.
9. VandenBroek, A. & **Vis, M.L.** Desiccation tolerance of various types of cells in the freshwater red alga, *Batrachospermum gelatinosum*. Northeast Algal Society, Amherst, MA, April 2009.
10. *Smucker N.J.* & **Vis M.L.** Using reference site diatom communities for measuring the severity of human impacts on stream ecosystems. Phycological Society of America, New Orleans, LA, July 2008.

11. *Smucker N.J. & Vis M.L.* Impacts of spatial and temporal variation on stream diatom community dynamics and bioassessments in southeastern Ohio. North American Benthological Society, Salt Lake City, UT, May 2008.
12. *House D.L. & Vis M.L.* Genetic variation in *Batrachospermum gelatinosum* (Batrachospermales, Rhodophyta) from eastern North America. Northeast Algal Symposium, Durham, NH, April 2008.
13. *Smucker N.J. & Vis M.L.* Acid mine drainage and agricultural impacts on stream diatom communities. Northeast Algal Symposium, Durham, NH. April 2008.
14. *Drerup S.A. & Vis M.L.* Preliminary phylogeographic data suggest *Batrachospermum boryanum* (Rhodophyta) is a species complex. Northeast Algal Symposium, Durham, NH, April 2008.
15. *Smucker N.J. & Vis M.L.* Natural and human impacts on stream diatom communities. Geological Society of America North-central section, Evansville, IN, April 2008.
16. *Smucker, N.J. & Vis, M.L.* Determining chemical, physical, and landscape impacts on the structure of stream diatom communities. North American Diatom Symposium, September 2007.
17. *House, D.L., Sherwood, A.R. & Vis, M.L.* Comparison of three organelle markers for phylogeographic inference in *Batrachospermum helminthosum* (Batrachospermales, Rhodophyta) from North America. Phycological Society of America Annual Meeting, Warwick, RI, August 2007.
18. *Necchi, O. Jr., Vis, M.L., Oliveira, M.C.* Systematics of *Batrachospermum* section *Contorta* (Batrachospermales, Rhodophyta) in Brazil based on molecular and morphological data. 4<sup>th</sup> European Congress 4th European Phycological Congress, in Oviedo, Spain, July 2007.
19. *Hollingsworth, E.K. & Vis, M.L.* The spatial heterogeneity of periphyton in eight southeastern Ohio streams: how far can one sample take you? 55<sup>th</sup> Annual Meeting of the North American Benthological Society, Columbia, SC June 2007.
20. *Smucker, N.J. & Vis, M.L.* Use of a Diatom Community Model as an Index for assessing stream impairment in Southeastern Ohio. 55<sup>th</sup> Annual Meeting of the North American Benthological Society, Columbia, SC June 2007.
21. *Johnson, K.A, Vis, M.L. & Johnson, K.S.* The effect of acid mine drainage on the grazing of periphyton by invertebrates. 55<sup>th</sup> Annual Meeting of the North American Benthological Society, Columbia, SC June 2007.
22. *House, D.L., Sherwood, A.R. & Vis, M.L.* Comparison of three organelle markers for phylogeographic inference in *Batrachospermum helminthosum* (Batrachospermales, Rhodophyta) from North America. Northeast Algal Symposium Narragansett, RI, April 2007.
23. *Hollingsworth, E.K. & Vis, M.L.* The spatial heterogeneity of periphyton in eight southeastern Ohio streams: how far can one sample take you? Northeast Algal Symposium Narragansett, RI, April 2007.

24. *Smucker, N.J. & Vis, M.L.* Attaining finer bioassessment resolution: The use of ecoregional and reference-based diatom indices for assessing stream health in Southeast Ohio, USA. International Symposium: Use of Algae for Monitoring Rivers. Balatonfured, Hungary September 2006.
25. *Zalack, J.T. & Vis, M.L.* Development and evaluation of a diatom based index of biotic integrity for acid and metal impacted streams. Phycological Society of America. Juneau, AK July 2006.
26. *Stewart, S.A., Vis, M.L. & Entwisle, T.J.* Phylogenetic affinities of Australasian *Batrachospermum* specimens (Batrachospermales, Rhodophyta) inferred from molecular and morphological data. Phycological Society of America. Juneau, AK July 2006.
27. *Stancheva, R. & Vis, M.L.* Notes on distribution of *Batrachospermum arcuatum* and *B. gelatinosum* (Batrachospermales, Rhodophyta) in Bulgaria. Fourth Balkan Botanical Congress. Sofia Bulgaria June 2006.
28. *Smucker, N.J., Hollingsworth, E.K., Verb, R.G. & Vis, M.L.* Comparison of two algal indices for use in Biomonitoring of southeastern Ohio streams. Phycological Society of America. Juneau, AK July 2006.
29. *Smucker, N.J., Edlund, M.B. & Vis, M.L.* Morphology and distribution of *Thalassiosira lacustris* (Grunow) Hasle: an exotic diatom in southeastern Ohio streams. Phycological Society of America. Juneau, AK July 2006.
30. *Zalack, J.T. & Vis, M.L.* Comparison of diatom and macroinvertebrate indices in acid mine drainage impacted streams. Northeast Algal Symposium. Poughkeepsie, NY April 2006.
31. *Stewart, S.A., Vis, M.L. & Entwisle, T.J.* Phylogenetic affinities of Australasian specimens of *Batrachospermum* (Batrachospermales, Rhodophyta) inferred from molecular and morphological data. Northeast Algal Symposium. Poughkeepsie, NY April 2006.
32. *Snyder, K.F., Brown, K.J. & Vis, M.L.* In-stream and riparian characterization of four New Zealand stream segments containing *Batrachospermum* species (Rhodophyta). Northeast Algal Symposium. Poughkeepsie, NY April 2006.
33. *Smucker, N.J., Hollingsworth, E.K., Verb, R.G. & Vis, M.L.* Comparison of two algal indices for use in Biomonitoring of southeastern Ohio streams. Northeast Algal Symposium. Poughkeepsie, NY April 2006.
34. *Morales, E.A., Fernandez, E. & Vis, M.L.* Nuevas diatomeas (Bacillariophyta) de la zona de los Yungas, Bolivia," Bolivian Ecological Congress. LaPaz, Boliva March 2006.
35. *Zalack, J.T., Casamatta, D.A., Verb, R.G. & Vis, M.L.* A two year survey of the algal community in a woodland stream from southeastern Ohio," North American Diatom Symposium. Mobile, AL: November 2005.
36. *Chiasson, W.B., Sherwood, A.R. & Vis, M.L.* *Audouinella pygmaea* collections are the chntransia of a previously unreported *Batrachospermum* species in the Hawaiian Islands. 8<sup>th</sup> International Phycological Congress Durban, South Africa August 2005.
37. *Necchi, O. Jr., Vis, M.L. & Oliveira, M.C.* Systematics of *Sirodotia* (Batrachospermales,

- Rhodophyta) in Brazil based on *rbcl* and SSU rDNA sequences. 8<sup>th</sup> International Phycological Congress. Durban, South Africa August 2005.
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  39. *Stewart, S.A. & Vis, M.L.* A preliminary investigation of the *Batrachospermum pseudogelatinosum-B. campyloclonum* complex (Batrachospermales, Rhodophyta) from Australia and New Zealand. Northeast Algal Symposium, Rockport, ME: April 2005.
  40. *Hodge, J.C., Necchi, O. & Vis, M.L.* Phylogeography of *Batrachospermum macrosporum* (Batrachospermales, Rhodophyta) in North and South America. Phycological Society of America, Williamsburg, VA August 2004.
  41. *Taylor, D.A., Bixby, R., Casamatta, D.A., Chiasson, W.B., Filkin, N.R., Hall, M.M., Hamsher, S.E., Vis, M.L. & Verb, R.G.* Survey of algal taxa from the unglaciated Western Allegheny plateau exclusive of the Ohio river. Ohio Academy of Science April 2004.
  42. *Chiasson, W.B. Sabo, N.J. & Vis, M.L.* Molecular and morphological analysis of *Audouinella/chantransia* specimens. Southeastern Phycological Colloquy, Beaufort, NC October 2003.
  43. *Vis, M.L., Sheath, R.G. & Chiasson, W.B.* A survey of the Rhodophyta and associated macroalgae from Coastal streams in French Guiana. Phycological Society of America, Gleneden Beach, OR June 2003.
  44. *Shea, T.B., Vis, M.L., Sheath, R.G. & Müller, K.M.* Distribution and invasion of *Bangia atropurpurea* (Rhodophyta) in the Laurentian Great Lakes. Phycological Society of America Annual Meeting, Gleneden Beach, OR June 2003.
  45. *Sherwood, A.R., Vis, M.L. & Sheath, R.G.* Phylogenetic systematics and phyenology of the Hawaiian endemic freshwater red alga, *Batrachospermum spermatiophorum*. Phycological Society of America, Gleneden Beach, OR June 2003.
  46. *Filkin, N.R. & Vis, M.L.* Phenology of *Paralemanea annulata* in a low-order Ohio woodland stream. Phycological Society of America, Gleneden Beach, OR June 2003.
  47. *Hamsher, S.E. & Vis, M.L.* Utility of the Periphyton index of biotic integrity (PIBI) as an indicator of acid mine drainage impacts in southeastern Ohio. Phycological Society of America, Gleneden Beach, OR June 2003.
  48. *Morales, E.A. & Vis, M.L.* New diatom taxa from South America. Northeast Algal Symposium, Saratoga Springs, NY April 2003.
  49. *Verb, R.G., Vis, M.L. & Stuart, B.G.* Analysis of diatom communities from an acid mine drainage impacted subwatershed. Ohio Academy of Science, Findlay, OH April 2003. Ohio Journal of Science 103 p. A-29.
  50. *Casamatta, D.A., Vis, M.L. & Sheath, R.G.* *Phormidium retzii* (Oscillatoriales): genotypic variation and phenotypic plasticity. Phycological Society of America, Madison, WI August 2002.

51. *Filkin, N.R.*, Sherwood, A.R. & **Vis, M.L.** Macroalgae of the Hawaiian Islands: 23 additional stream segments. Phycological Society of America, Madison, WI August 2002.
52. *Hamsher, S.E.*, *Casamatta, D.A.*, *Filkin, N.R.*, *McClintic, A.M.*, Chiasson, W.B., Verb, R.G. & **Vis, M.L.** A new method for studying nutrient limitation of periphyton: a case study from acid mine drainage streams. Phycological Society of America, Madison, WI August 2002.
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57. Chiasson, W.B., *Machesky, N.J.* & **Vis, M.L.** Phylogeography of *Batrachospermum helminthosum* (Rhodophyta) in North America. Ohio Academy of Science, Columbus, OH, April 2002.
58. *Casamatta, D.A.* & **Vis, M.L.** Population Genetics of *Phormidium retzii* (Cyanobacteria) in a low-order woodland stream using RAPD analysis. 15<sup>th</sup> International Association for Cyanophyte Research, Barcelona, Spain September 2001.
59. *Verb, R.G.*, Keiper, J.B. & **Vis, M.L.** Patterns of macroalgal and periphytic assemblages from coal mine impacted lotic systems within the unglaciated Western Allegheny Plateau. North American Benthological Society, La Crosse, WI June 2001.
60. *Verb, R.G.*, Keiper, J.B. & **Vis, M.L.** Patterns of macroalgal and periphytic assemblages from coal mine impacted lotic systems within the unglaciated Western Allegheny Plateau. Phycological Society of America, Estes Park, CO June 2001.
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62. *Machesky, N.J.* & **Vis, M.L.** Assessing the utility of a mitochondrial marker for studies of specific and intraspecific relationships within the Batrachospermales (Rhodophyta). Ohio Academy of Science, Alliance, OH March 2001.
63. *Casamatta, D.A.* & **Vis, M.L.** Ecology and phenology of the cyanobacterium *Phormidium retzii* in a low-order woodland stream. Ohio Academy of Science, Alliance, OH March 2001.
64. *Verb, R.G.*, Keiper, J.B. & **Vis, M.L.** Patterns of macroalgal and periphytic assemblages from coal mine impacted lotic systems within the unglaciated Western Allegheny Plateau. Ohio Academy of Science, Alliance, OH March 2001.

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66. Casamatta, D.A. & Vis, M.L. Some phylogenetic relationships within the Oscillatoriales (Cyanobacteria) clade using 16S rDNA gene sequence data. Phycological Society of America, San Diego, CA July 2000.
67. Hall, M.M. & Vis, M.L. Phylogeography and within-stream genetic variation of *Batrachospermum helminthosum* (Rhodophyta) using inter-simple sequence repeats. Phycological Society of America, San Diego, CA July 2000.
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69. Casamatta, D.A., Verb, R.G. & Vis, M.L. A survey of cliff and cave algae from southeastern Ohio. Ohio Academy of Science, Ada, OH April 2000.
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72. Casamatta, D.A. & Vis, M.L. Preliminary investigation of the Oscillatoriales (Cyanobacteria) clade using 16S rDNA gene sequence data. International Botanical Congress, St. Louis, MO August 1999.
73. Entwisle, T.J. & Vis, M.L. Freshwater red algae: a timely perspective on Southern Hemisphere biogeography. International Botanical Congress, St. Louis, MO August 1999.
74. Verb, R.G. & Vis, M.L. Seasonal variation of macroalgae from streams draining abandoned and reclaimed coal mines and non-impacted sites. International Botanical Congress, St. Louis, MO August 1999.
75. Verb, R.G. & Vis, M.L. A comparison of algal diversity among polluted, restored and non-polluted streams in southeastern Ohio. Phycological Society of America, Flagstaff, AZ, August 1998.
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77. Müller, K.M., Vis, M.L. & Sheath, R.G. Biogeography and systematics of the genus *Bangia* (Bangiales, Rhodophyta) using morphology and comparative sequence analysis. 48th American Institute of Biological Sciences, Botanical Society of America. August 1997.

#### Invited Book Reviews:

- Entwisle, T.J., Sonneman, J.A. & S.H. Lewis, *Freshwater Algae in Australia* (Sainty & Associates 1997), in *European Journal of Phycology* 33, no. 1 (1998), p. 94.
- Kumano, S., *Freshwater red algae of the world* (Biopress Publications 2002), in *Journal of Phycology* 38, no. 4 (2002), p. 834.
- Wehr, J.D. & Sheath R.G. (Eds.), *Freshwater Algae of North America: Ecology and Classification* (Academic Press 2003), in *Journal of the Torrey Botanical Society* 132, no. 3 (2005), p. 533-34.
- Entwisle, T. J., Skinner, S., Lewis, S. H. & Foard, H. J. *Algae of Australia: Batrachospermales, Thoreaales, Oedogoniales and Zygnemaceae*. (Australian Biological Resources Study/CSIRO Publishing 2007), in *Journal of Phycology* 43, no. 6 (2007), p. 1348-9.

### Invited Seminars:

- Department of Biology, John Carroll University, University Heights, OH, "*Batrachospermum* (Rhodophyta): Insights from Southern Hemisphere studies." February 17, 2005.
- Botany Department, São Paulo University, São Paulo, Brazil, "Synopsis of research on freshwater red algae." August 15, 2004.
- Department of Botany, University of Tennessee, Knoxville, TN, "Phylogeny and biogeography of freshwater red algae." February 4, 2002.
- Biological Sciences Department, Ohio University, Athens, OH, "Phylogeny and biogeography of freshwater red algae: more questions than answers." January 12, 2000.
- Department of Biology, Kalamazoo College, Kalamazoo, MI, "Integrating traditional and molecular approaches in algal studies," February 23, 1999.
- Department of Biology, Heidelberg College, Tiffin, OH, "Integrating traditional and molecular approaches in algal studies," January 26, 1999.
- Department of Biology, The University of Akron, Akron, OH, "Integrating traditional and molecular studies of stream macroalgae," October 11, 1998.
- Molecular and Cell Biology Program, Ohio University, Athens, OH, "Integrating traditional and molecular approaches in algal studies," September 1998.
- Department of Plant Sciences, The Ohio State University, Columbus, OH, "Integrating traditional and molecular approaches in algal studies," May 21, 1998.
- Botany and Plant Pathology Department, Purdue University, West Lafayette, IN, "Integrating traditional and molecular approaches in algal studies," April 5, 1998.
- Biological Sciences Department, Ohio University, Athens, OH, "Macroalgae: From tundra to tropical streams." January 22, 1997.
- Department of Botany, Miami University, Oxford, OH, "Freshwater macroalgae: Tundra to tropics." September 27, 1996.

### Papers Refereed:

- 1 *Northeast Naturalist*, 1999
- 6 *Journal of Phycology*, 1999, 2000, 2001, 2003, 2006, 2007
- Chapter 5 for "*Freshwater Algae in North America*," 1999
- 4 *Phycological Research*, 1999, 2000, 2005, 2008
- 2 *Australian Journal of Systematic Botany*, 1998
- 6 *Phycologia*, 1998, 2001, 2002 (2), 2006 (2)
- 5 *European Journal of Phycology*, 1998, 2000, 2001, 2002, 2005
- 4 *Canadian Journal of Botany*, 1993, 2001, 2003, 2006
- 1 *American Journal of Botany*, 2000
- 1 *Archiv fur Hydrobiologie*, 2000
- 2 *Cryptogamie Algologie*, 2001, 2005

- 1 *Molecular Phylogenetics and Evolution*, 2001  
 1 *Bishop Museum Occasional Papers Series*, 2003  
 1 *New Zealand Journal of Botany*, 2003  
 Chapter 18 Algae for "Introduction to Botany," 2003  
 1 *Marine Biology*, 2004  
 1 *Brazilian Journal of Botany*, 2004  
 1 *Ohio Journal of Science*, 2005  
 4 *Nova Hedwigia*, 2005, 2006, 2007, 2008 (2)  
 2 *Pacific Science*, 2005, 2006  
 1 *Castanea*, 2005  
 1 *Botanical Studies*, 2006  
 1 *Water Research*, 2006  
 1 *Rhodora*, 2007  
 1 *Acta Phytotaxonomica Sinica*, 2007  
 1 *Fottea*, 2007  
 1 *Water, Air & Soil Pollution*, 2008  
 1 *Aquatic Invasions*, 2009  
 Chapter – Mosses and Liverworts in the Vermilion River Drainage Basin in 'Vermilion River Watershed Book', 2007  
 Red Algal submission - Phylonyms: A Companion to the PhyloCode, edited by K. de Queiroz, P. D. Cantino, and J. Gauthier, 2008  
 1 *Maejo International Journal of Science and Technology (MIJST)*  
 Chapter – Taxonomic revisions or emendations of freshwater Rhodophyta in recent years in 'Red Algae in the Genomic Age' (J. Seckbach and D. Chapman ed.), 2008

### Grant Proposals Refereed:

- 2 Ohio University Research Committee, 1999, 2000  
 1 Baker Fund Proposal, 2001  
 1 Ohio Sea Grant Proposal, 1999  
 10 National Science Foundation (NSF), 1998, 2002, 2003 (2), 2004, 2005, 2006, 2007 (3), 2008 (1)  
 1 American Philosophical Society, 2000  
 1 Nederlandse Organisatie voor Wetenschappelijk, 2003  
 1 Ohio Plant Biotechnology Consortium, 2006  
 • Served on a National Science Foundation, Systematics panel 2006 (19 proposals critiqued; 5 proposals wrote the committee summary)  
 • Served on a National Science Foundation, Biotic Surveys panel 2007 (17 proposals critiqued; 5 proposals wrote the committee summary)  
 • Served on a National Science Foundation, Systematics Doctoral Dissertation Improvement Grant panel 2008 (16 proposals critiqued; 6 proposals wrote the committee summary)

### Courses Taught:

#### Undergraduate:

- PBIO 103 Plants and People (Economic Botany for non-majors; ~80 students/section), 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2005, 2007  
 PBIO 307 Algal & Bryophyte Morphology 12 students, 1999, 8 students 2001, 6 students 2003, 1 student 2006

PBIO369F Ecology of the Andes 2000  
 PBIO369S Island Biology 2001  
 PBIO369K Neotropical Ecology 2001, 2002  
 PBIO369D/569D Bryology 2008  
 PBIO385 Global Studies in Plant Biology: New Zealand 2005 (co-taught with Kim Brown)  
 PBIO405 Undergraduate Seminar, 2000, 2001, 2002  
 PBIO 420 Freshwater Algae- 17 students, 1997, 11 students 1998, 13 students 2000, 5 students 2002, 2 students 2005, 4 students 2007

Graduate:

PBIO 507 Algal & Bryophyte Morphology 2 students, 1999, 2 students 2001, 4 students 2006  
 PBIO 520 Phycology 2 students, 2002, 3 students 2005, 2 students 2007  
 PBIO 654 Phycology- 1 student, 1997  
 PBIO 696 Organismal Biology- 1 student, 1997, 1998, 1999  
 PBIO 691 Seminar - Molecular Ecology - 10 students, 1998  
 PBIO 691 Seminar - Ecology of the Andes - 6 students, 2000  
 PBIO 691 Seminar - Island Biology - 6 students, 2001  
 PBIO 691 Seminar - Neotropical Rainforest Ecology – 2 students, 2001  
 PBIO 691 Seminar – Ecology, systematics & development of Bryophytes – 4 students, 2006  
 PBIO 693 Phycology for Engineers – 2 students, 2007  
 PBIO 791 Seminar - Aquatic Botany - 6 students, 1997

**Teaching Evaluation:**

1. Student Evaluations - My student evaluations have been high each quarter. For the large non-major's course I teach, the most recent score was a mean of 4.26 out of 5 points for all questions and 4.53 for me as an instructor. For my upper division courses in algae and mosses the scores have consistently been in the range of 3.8 to 4.8. (available upon request)
2. Faculty Evaluations - I have been evaluated by colleagues from my department. All the letters have been positive about my teaching style and lecture content (the letters are available upon request)

**Major Professor/Advisor for Graduate Students:**

1. **Nathan Smucker**, PhD Botany candidate. "Comparison of water quality indices using algae in acid mine drainage impacted streams." Garnered numerous grants including one from the Ohio Biological Survey, and internal ones totaling \$7000. Won outstanding graduate presentation at the Northeast Algal Symposium and the Indiana Water Resources Association student award for his presentation at the regional Geological Society of America meeting.
2. **Justin Pool**, MS Botany candidate. "Biomonitoring using diatoms for acid mine drainage."
3. **Aditi Rambani**, MS Botany candidate. "Phylogeography of *Tuomeya* in eastern North America."
4. **Denise House**, MS Botany June 2008. "Phylogeography of *Batrachospermum gelatinosum* in North America." Obtained during degree OU Graduate student senate travel grant. Employed immediately after graduation as a research technician at Ohio University College of Osteopathic Medicine.
5. **Emily Hollingsworth**, MSES November 2007. "The spatial heterogeneity of periphyton in eight

- southeastern Ohio streams: How far can one sample take you?" PSA Croasdale Fellowship for attending a field course, OU Graduate student senate travel grant. Currently employed as a periphyton specialist for the State of South Carolina.
6. **Sarah Stewart**, MS Botany August 2006. "Phylogenetic affinities of Australasian specimens of *Batrachospermum* (Batrachospermales, Rhodophyta) inferred from molecular and morphological data." PSA Hoshaw Travel Award 2006. Started immediately after graduation as a **PhD student** in Genomics, Station Biologique de Roscoff, France.
  7. **Jason Zalack**, MS Botany August 2006. "Development of a diatom based index of biotic integrity for acid mine drainage impacted streams." CoPI Ohio Biological Survey Grant, PSA Hoshaw Travel Award 2006. Employed immediately after graduation as a **research assistant (diatom analyst)** at the Philadelphia Academy of Science in the water quality division.
  8. **Sarah Hamsher**, MS Botany August 2003. "Analysis of acid mine drainage impacted streams using a periphyton index." Houk Research Award, 2002. PSA Hoshaw Travel Award 2002, 2003. PSA Croasdale Fellowship 2002. Employed immediately after graduation as a **biological technician** for the USDA-ARS-SDRU (USDA-agricultural research service-soil drainage research unit).
  9. **Nanda Filkin**, MS Botany June 2003. "Phenology of *Paralemanea annulata* (Lemaneaceae, Rhodophyta) in an Ohio woodland stream." Houk Research Award, 2002. PSA Hoshaw Travel Award 2002, 2003. Employed immediately after graduation as a **research technician** in the Department of Biological Sciences, Ohio University.
  10. **Dale A. Casamatta**, PhD Biological Sciences August 2002. "Systematics, phenotypic plasticity and biogeography of taxa from the Oscillatoriales (Cyanobacteria)." Hoshaw Travel Award 1999, 2000, 2001, PSA Grant-in-aid of Research, 1999. Ohio Biological Survey Grant 1999, 2000. Clippinger Fellow Academic Year 2000/2001. Student Enhancement Award 2001, Ohio University \$4,000. Employed after graduation as a **postdoctoral fellow** in the Department of Biology, John Carroll University for 2 years and an assistant professor at University of Northern Florida after postdoc.
  11. **Robert G. Verb**, PhD Biological Sciences August 2001. "Comparison of algal diversity among polluted, restored and non-polluted streams in southeastern Ohio." Houk Research Award, 1997, 1998. PSA Hoshaw Travel Award, 1998, 1999, 2001, PSA Grant-in-aid of Research, 1999. Wilce Award for the best student presentation at the Northeast Algal Symposium, 1999. Student Enhancement Award, Ohio University \$6,000. Employed after graduation as tenure track **assistant professor** in the Department of Biology, Ohio Northern University.
  12. **Melissa M. Hall**, MS Botany August 2000. "Phylogeography, intra-population genetic variation and phenology of *Batrachospermum helminthosum* (Rhodophyta)." Hoshaw Travel Award 1999, 2000, Houk Research Award, 2000. Employed immediately after graduation with the Indiana Department of Environment as an **aquatic specialist**.
  13. **Rachele G. Kovar**, MS Environmental Science August 1999. "A characterization of *Sphagnum* dominated wetlands from acid mine drainage in southeastern Ohio." Employed after graduation with BSA Environmental Consultants as an **environmental consultant**.
  14. **Amy E. Stevens**, MS Environmental Science August 1998. "Uptake of metals by

*Klebsormidium* in acid mine drainage polluted streams." Houk Research Award, 1997.  
Continued education with an MA in Education and taught as a **high school science teacher**.

### Advising:

1. Graduate Students (other than my own) who have finished degrees
  - Thesis/dissertation committees –
    - 9 PhD (Greer, Williams, Rubino, Dunn, Tomescu, Feng, Hartman, Sanders, Havran),
    - 17 MS (Reese, Railing, Cortes, Segovia, Hernandez-Castillo, Hill, Christensen, Peirson, Ma, Calwell, Burdick, Martin, Kinney, Gidugu, Alexander, Mears, Csavina)
  - PhD Comprehensive Examination Committees - 8 (Williams, Dunn, Tomescu, McCauley, Pai, Feng, Sanders, Schori)
2. Undergraduate Research Projects Supervised
  - a. **Emily Johnston**, 2009, "Understanding the relationship of Australasian freshwater red algae using partial LSU gene sequence data."
  - b. **Alex VandenBroek**, 2009, "Desiccation tolerance in freshwater red algae", "Investigation of cryptic species in *Batrachospermum boryanum* using *cox2-3* spacer and *rbcl* gene regions", and "Phylogeography of *Batrachospermum gelatinosum* in eastern North America."
  - c. **Sam Drerup**, 2008, "Phenology of *Batrachospermum gelatinosum* in two streams and preliminary phylogeographic analyses of *Batrachospermum boryanum* using mitochondrial markers."
  - d. **Jason Bonham**, 2008 (summer), "Investigation of cryptic species in *Batrachospermum boryanum* using *cox2-3* spacer and *rbcl* gene regions."
  - e. **Kelli Johnson**, 2007, "The effect of acid mine drainage on the interaction between benthic algae and invertebrate grazers." Awarded the Jeanette Grasselli Brown Undergraduate Research Award for \$1,000 from the College of Arts & Sciences. Awarded Voinovich Fellow for summer 2006. Awarded best undergraduate poster at OU Research Fair by Sigma Xi. Elected associate member of Sigma Xi. Pursued MS degree in aquatic ecology immediately following graduation.
  - f. **Katie Snyder**, 2006, "In-stream and riparian characterization of four New Zealand stream segments containing *Batrachospermum* species (Rhodophyta)." Presented research at a regional meeting (see above).
  - g. **Katie Johanson**, 2005, "Utilization of the SSU gene to evaluate genetic species boundaries between morphological similar sister taxa" and "Geographic and phylogenetic affinities of *Chantransia pygmaea* (Rhodophyta) from the Hawaiian Islands." Research published in *Phycologia* 2007.
  - h. **Kevin Snyder** 2005, "Phylogeography of *Batrachospermum arcuatum* from North America." Ohio University. Awarded a Provost Undergraduate Research Fund grant for \$1,500.
  - i. **J. Cameron Hodge** 2004-2005, "Phylogeography of *Batrachospermum macrosporum* from

- tropical/subtropical regions of North and South America.” Research ‘in press’ in *Journal of Phycology*. Ohio University. Awarded a Provost Undergraduate Research Fund grant for \$1,392. Awarded the Jeanette Grasselli Brown Undergraduate Research Award for \$1,000 from the College of Arts & Sciences. Immediately after graduation, he was accepted into a Summer Undergraduate Research Fellowship (SURF) and then has the opportunity to go to Medical School.
- j. **Nick Sabo** 2003, “Morphometrics of *chantransia/Audouinella* specimens from streams in coastal French Guiana.” Ohio University. Research published in *Phycologia* 2005.
- k. **Amy McClintic** 2001, "Macroalgal Survey of Bolivian Streams." Ohio University. Research published in *Nova Hedwigia* 2003.
- l. **Nick Machesky** 2001, "Assessing the utility of a mitochondrial marker for studies of specific and intraspecific relationships within the *Batrachospermales* (Rhodophyta)." Ohio University; Student awarded Provost Undergraduate Research Award \$1180. Research published in *Phycologia* 2003.
- m. **Emily J. Miller** 1999, "Biogeography of *Batrachospermum helminthosum* in North America." Ohio University; Research published in *Phycologia* 2001.
- n. **Nanda R. Filkin**, 1998, "Genetic variation among individuals of *Batrachospermum helminthosum* from Spring Brook, Kalamazoo, Michigan." Kalamazoo College Senior Project.

### Service:

#### Ohio University Departmental Service:

Library representative Fall 1996-Fall 2000  
 Chemical Hygiene committee Fall 1996-Fall 1999  
 Undergraduate Honors committee Fall 1996-Spring 1997  
 Colloquium coordinator Fall 1997-Spring 1999  
 Graduate committee Fall 1997-Fall 2003  
 Curriculum committee Fall 1997-Spring 1998  
 Evolution & Environmental Biology steering committee Fall 1997-Spring 1998  
 Organization for Tropical Studies (OTS) representative Fall 1997-Spring 1998  
 Director of Study for Honors Tutorial Program Summer 2003-Fall 2007  
 Graduate Chair Fall 2004-present

#### Ohio University Service:

Special Library Endowments Committee 1998-2001  
 Faculty Senator 2000-2003  
 Professional Relations Committee 2000-2002  
 Faculty Senate - Chair, Professional Relations Committee academic year 2002-03  
 Intercollegiate Athletics Committee academic year 2004-present  
 1804 Research Grant Committee 2000  
 Director of Ohio University DNA Analysis Facility Fall 1998- Fall 2006  
 Perspective research Magazine advisory board 2002-2004  
 College of Arts and Sciences P&T Committee (2003, 2005-2007, 2008-2011)  
 Ohio University Budget Planning Council Fall 2006-Spring 2008  
 College of Arts and Sciences Staffing Committee Spring 2008-present

**Scientific Society Service:**

Co-convenor for the 2007 meeting of the Northeast Algal Symposium  
Immediate Past President, Phycological Society of America 2007 (executive committee position)  
President, Phycological Society of America 2006  
Vice President/President Elect, Phycological Society of America 2005  
Communications Director for Phycological Society of America, Executive Committee  
appointed position 1999-2004 (responsible for the bi-annual newsletter, website and listserver)  
Web master, Phycological Society of America (ad hoc executive committee member 1998-99)  
PSA Newsletter Co-editor Summer/Fall 2000 issue  
PSA Newsletter Editor Winter/Spring 2001, 2002 Summer/Fall 2001 issues  
Phycological Society of America Membership Committee 1998-2000  
Editorial Board of *European Journal of Phycology* 1999 – present  
Co-convenor for the 2000 meeting of the Northeast Algal Symposium (100 attendees)  
Organizer for the 2001 Intermittent Great Lakes Algal Foray (45 attendees)  
Elected Editorial Board of *Journal of Phycology* 2009-2011

**Community Service:**

District Science Day, Judge, March 1997, 1998, 1999, 2000, 2001, 2003, 2005, 2006, 2008  
Plant Biology Volunteer for Public TV phonathon, March 1999  
Volunteer Women in Science Day, April 1997, 1998, 1999, 2000, 2001, 2006  
Communication via email with K-12 schoolteachers, university professors, parents, journalist and others to answer questions about algae and to allow use of my algal image collection at <http://vis-pc.plantbio.ohiou.edu/algaeindex.htm>