



Scientific Publications, Technical Reports, and Presentations



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Scientific Publications (*= peer reviewed)

2009

- *Ács, É.; **E. A. Morales**, K. T. Kiss, B. Bolla; A. Plenković-Moraj; M. N. Reskóné, & L. Ector. 2009. *Stausosira grigorszkyi* nom. nov. (Bacillariophyceae) an araphid diatom from Lake Balaton, Hungary, with notes on *Fragilaria hungarica* Pantocsek. Nova Hedwigia 89(3-4): 469-483. DOI [10.1127/0029-5035/2009/0089-0469](https://doi.org/10.1127/0029-5035/2009/0089-0469).
- ***Enache, M. D.** & B. F. Cumming. 2009. Extreme fires under warmer and drier conditions inferred from sedimentary charcoal morphotypes from Opatcho Lake, central British Columbia, Canada. The Holocene 19:835-846. DOI [10.1177/0959683609337357](https://doi.org/10.1177/0959683609337357).
- ***Enache, M. D.**, & **M. Potapova**. 2009. A new species of *Sellaphora* (Sellaphoraceae) from Hannaberry Lake, Arkansas, U.S.A. Acta Botanica Croatica 68(2): 231-237 [[pdf](#)].
- Morales, E. A.**, R. Lücking, & R. Anze. 2009. Una introducción al estudio de los líquenes de Bolivia [An introduction to the study of the lichens from Bolivia]. Universidad Católica Boliviana San Pablo. Serie Ecología No. 1. 58 pp. ISSN 2076-779X.
- ***Morales, E. A.**, E. Fernández, & P. J. Kociolek. 2009. Epilithic diatoms (Bacillariophyta) from cloud forest and alpine streams in Bolivia, South America 3: Diatoms from Sehuenas, Carrasco National Park, Department of Cochabamba. Acta Botanica Croatica 68(2): 263-283 [[pdf](#)].
- ***Morales, E. A.**, & K. M. Manoylov. 2009. *Mayamaea cahabaensis* sp. nov. (Bacillariophyceae), a new freshwater diatom from streams in the United States. Proceedings of the Academy of Natural Sciences of Philadelphia 158: 49-59. DOI [10.1635/053.158.0103](https://doi.org/10.1635/053.158.0103).
- ***Ren, L.**, N. N. Rabalais, R. E. Turner, W. Morrison, & W. Mendenhall. 2009. Nutrient limitation on phytoplankton growth in the Upper Barataria Basin, Louisiana: Microcosm bioassays. Estuaries and Coasts. 32: 958-974. DOI [10.1007/s12237-009-9174-8](https://doi.org/10.1007/s12237-009-9174-8).

2008

- ***Morales, E. A.**, E. Fernández, C. Fernandez, D. Lizarro & P. Alcoreza. 2008. Algal studies in Bolivia: A compilation and preliminary analysis of existing phycological literature. Gayana Botánica 65(1): 93-108. DOI [10.4067/S0717-66432008000100009](https://doi.org/10.4067/S0717-66432008000100009).
- ***Ponader, K. C.**, **D. F. Charles**, T. J. Belton, & **D. M. Winter**. 2008. Total phosphorus inference models and indices for coastal plain streams based on benthic diatom assemblages from artificial substrates. Hydrobiologia 610: 139-152. DOI [10.1007/s10750-008-9429-6](https://doi.org/10.1007/s10750-008-9429-6).

*Siver, P. A., P. B. Hamilton, & **E. A. Morales**. 2008. *Brevilinea pocosinensis* Siver, Hamilton & Morales gen. et sp. nov., a new diatom (Bacillariophyceae) genus from North Carolina. Phycological Research 56: 141-148. DOI [10.1111/j.1440-1835.2008.00495.x](https://doi.org/10.1111/j.1440-1835.2008.00495.x).

2007

***Morales, E. A.** & F. R. Trainor. 2007. The role of phenotypic plasticity in the interpretation of ecological data. In: J. Feyen, L. F. Aguirre & R. M. Moraes (Eds.). Congreso internacional sobre desarrollo y medio ambiente y recursos naturales: sostenibilidad a múltiples niveles y escalas/Internacional congress on development, environment and natural resources: Multi-level and multi-scale sustainability. Vol. II., pp. 1150-1157. Universidad Mayor de San Simón. Talleres Gráficos Kipus. Cochabamba, Bolivia.

***Morales, E. A.** & M. Vis. 2007. Epilithic diatoms (Bacillariophyceae) from cloud forest and alpine streams in Bolivia, South America. Proceedings of the Academy of Natural Sciences of Philadelphia 156(1): 123-155. DOI [10.1635/0097-3157\(2007\)156\[123:EDBFCF\]2.0.CO;2](https://doi.org/10.1635/0097-3157(2007)156[123:EDBFCF]2.0.CO;2).

***Potapova, M.** & P. B. Hamilton. 2007. Morphological and ecological variation within the *Achnantheidium minutissimum* (Bacillariophyceae) species complex. Journal of Phycology 43: 561-575. DOI [10.1111/j.1529-8817.2007.00332.x](https://doi.org/10.1111/j.1529-8817.2007.00332.x).

***Potapova, M.** & **D. F. Charles**. 2007. Diatom metrics for monitoring eutrophication in rivers of the United States. Ecological Indicators 7(1): 48-70. DOI [10.1016/j.ecolind.2005.10.001](https://doi.org/10.1016/j.ecolind.2005.10.001).

***Ponader, K. C., D. F. Charles** & T. J. Belton. 2007. Diatom-based TP and TN inference models and indices for monitoring nutrient enrichment of New Jersey streams. Ecological Indicators 7(1): 79-93. DOI [10.1016/j.ecolind.2005.10.003](https://doi.org/10.1016/j.ecolind.2005.10.003).

***Ponader, K. C.** & **M. G. Potapova**. 2007. Diatoms from the genus *Achnantheidium* in flowing waters of the Appalachian Mountains (North America): Ecology, distribution and taxonomic notes. Limnologia 37: 227-241. DOI [10.1016/j.limno.2007.01.004](https://doi.org/10.1016/j.limno.2007.01.004).

*Siver, P. A., P. B. Hamilton, & **E. A. Morales**. 2007. Notes on the genus *Nupela* (Bacillariophyceae) including the description of a new species, *Nupela scissura* sp. nov. and an expanded description of *Nupela paludigena*. Phycological Research 55(2): 125-134. DOI [10.1111/j.1440-1835.2007.00455.x](https://doi.org/10.1111/j.1440-1835.2007.00455.x).

2006

*Edlund, M. B., **E. A. Morales** & S. A. Spaulding. 2006. The type and taxonomy of *Fragilaria elliptica* Schumann, a widely misconstrued taxon. In: Witkowski, A. (Ed.). Proceedings of the 18th International Diatom Symposium, Miedzyzdroje, Poland 2nd - 7th September 2004. pp 53-59. Biopress Limited, Bristol, England.

***Morales, E. A.** & I. M. Manoylova. 2006. *Staurosirella incognita* Morales et Manoylov sp. nov., a non-spiny species from North America, with an emended description of *Staurosirella* Williams et Round (Bacillariophyceae). In: Proceedings of the 18th International Diatom Symposium, Miedzyzdroje, Poland 2nd - 7th September 2004. pp 53-59. Biopress Limited, Bristol, England.

***Morales, E. A.**. 2006. *Staurosira incerta* (Bacillariophyceae) a new fragilarioid taxon from freshwater systems in the United States with comments on the structure of girdle bands in *Staurosira* Ehrenberg and *Staurosirella* Williams et Round. In: Manoylov, K. & N. Ognjanova (Eds.). Fossil and Recent Phycological studies. Festschrift in honour of Dr. Dobrina Temniskova-Topalova, pp. 133-145. Pensoft, Sofia-Moscow, Russia. ISBN: 978-9546422606.

***Potapova, M.** & **D. Winter**. 2006. Use of nonparametric multiplicative regression for modeling diatom habitat: a case study of three *Geissleria* species from North America. Advances in Phycological Studies, Festschrift in Honour of Prof. Dobrina Temniskova-Topalova, pp. 319-332. Pensoft, Sofia-Moscow, Russia.

***Sprouffske, K., D. Mellott, D. F. Charles, & M. Potapova**. 2006. Phyco-AIDE: Algal Indicators and Data Exploration. Version 2.0. Phycology Section, Patrick Center for Environmental Research, Academy of Natural Sciences, Philadelphia, PA (computer program)

***Sprouffske, K., D. F. Charles, E. A. Morales, M. Potapova, K. C. Ponader, D. M. Winter, C. Bell, P.**

Cotter, R. McCourt, D. Mellott, C. Ratnayaka & D. Waterman. 2006. Academy of Natural Sciences Online Algae Image Resources. In: Proceedings of the 18th International Diatom Symposium, Międzyzdroje, Poland.

2005

***Morales, E. A. & M. Le.** 2005. The taxonomy of the diatom *Lacunicula sardiniensis* Lange-Bertalot, Cavacini, Tagliaventi et Alfinito and its relationship with the genus *Craticula* Grunow (Bacillariophyceae). Proceedings of the Academy of Natural Sciences of Philadelphia 154: 155-161. DOI [10.1635/0097-3157\(2004\)154\[0155:TTOTDL\]2.0.CO;2](https://doi.org/10.1635/0097-3157(2004)154[0155:TTOTDL]2.0.CO;2).

***Morales, E. A. & M. Le.** 2005. A new species of the diatom genus *Adlafia* (Bacillariophyceae) from the United States. Proceedings of the Academy of Natural Sciences of Philadelphia 154:149-154. DOI [10.1635/0097-3157\(2004\)154\[0149:ANSOTD\]2.0.CO;2](https://doi.org/10.1635/0097-3157(2004)154[0149:ANSOTD]2.0.CO;2).

***Morales, E. A.** 2005. Observations of the morphology of some known and new fragilarioid diatoms (Bacillariophyceae) from rivers in the USA. Phycological Research 53(2): 113-133.

***Morales, E. A.,** L. L. Bahls & W. R. Cody. 2005. Morphological studies of *Distrionella incognita* (Reichardt) Williams (Bacillariophyceae) from North America with comments on the taxonomy of *Distrionella* Williams. Diatom Research 20(1): 115-135.

***Potapova, M.G. & D.F. Charles.** 2005. Choice of substrate in algae-based water quality assessment. Journal of the North American Benthological Society, 24(2): 415-427. Stable URL: <http://www.jstor.org/stable/4095551>. Download [.pdf](#) of article.

***Potapova, M.G.,** J. F. Coles, E. M. Giddings, & H. Zappia. 2005. A comparison of the influences of urbanization in contrasting environmental settings on stream benthic algal assemblages. In: Effects of urbanization on stream ecosystems. American Fisheries Society Symposium 47: 333-359.

*Thomson, J.R., D.D. Hart, **D. F. Charles**, T.L. Nightengale, & **D. M. Winter.** 2005. Effects of removal of a small dam on downstream macroinvertebrate and algal assemblages in a Pennsylvania stream. Journal of the North American Benthological Society 24: 192-207. DOI [10.1899/0887-3593\(2005\)024<0192:FOROAS>2.0.CO;2](https://doi.org/10.1899/0887-3593(2005)024<0192:FOROAS>2.0.CO;2). Download [pdf](#) of article.

2004

*Ector L., J.C. Kingston, **D.F. Charles**, L. Denys, M.S.V. Douglas, K. Manoylov, N. Michelutti, F. Rimet, J.P. Smol, R.J. Stevenson & J. G. Winter. 2004. Workshop report. Freshwater diatoms and their role as ecological indicators. Pages 469-480 in M. Poulin, editor, Proceedings of the 17th International Diatom Symposium, Ottawa, Canada. Biopress Limited, Bristol.

***Potapova, M. G. and D. F. Charles.** 2004. Potential use of rare diatoms as environmental indicators in USA rivers. Pages 281-295 in M. Poulin, editor, Proceedings of the 17th International Diatom Symposium. Ottawa, Canada. Biopress Limited, Bristol.

***Potapova, M., D. F. Charles, K. C. Ponader and D. M. Winter.** 2004. Quantifying species indicator values for trophic diatom indices: a comparison of approaches. Hydrobiologia 517: 25-41.

***Potapova M. G. & K. C. Ponader.** 2004. Two common North American diatoms, *Achnantheidium rivulare* sp. nov. and *A. deflexum* (Reimer) Kingston: Morphology, ecology and comparison with related species. Diatom Research 19(1) 33-57.

***Winter, D. M.,** J. Arney & S. W. Wise Jr. 2004. Upper Miocene to Pleistocene diatom biostratigraphy, ODP Leg 191 in the Northwest Pacific. In: Kanazawa, T., Sager, W.W., Escutia, C., et al., 2001. Proceedings of the Ocean Drilling Program, Sci. Results, 191. Available online as [HTML](#) or [pdf](#).

2003

*Hession, W. C., T. E. Johnson, **D. F. Charles**, R. J. Horwitz, D. A. Kreeger, D. J. Velinsky, J. E. Pizutto, B. D. Marshall & J. D. Newbold. 2003. Ecological benefits of riparian reforestation in urban watersheds. Proceedings of the ASCE-EWRI World Water & Environmental Congress, Protection & Restoration of Urban & Rural Streams, Philadelphia, PA, June 2003. 10 pp.

*Manoylova, K. M., **E. A. Morales** & E. F. Stoermer. 2003. *Staurosira stevensonii* (Bacillariophyta) a new species from Florida, USA. European Journal of Phycology 38:65-71. [\[pdf\]](#)

***Morales, E. A.** 2003. On the taxonomic position of the *Belonastrum* and *Synedrella*, two new fragilarioid genera described by Round and Maidana (2001). Cryptogamie Algologie 24:277-288.

***Morales, E. A.** & M. B. Edlund. 2003. Studies in selected fragilarioid diatoms (Bacillariophyceae) from Lake Hovsgol, Mongolia. Phycological Research 54:225-239.

***Morales, E. A.** 2003. *Fragilaria pennsylvanica*, a new diatom (Bacillariophyceae) species from the United States of America with comments on the taxonomy of the genus *Synedra* Ehrenberg. Proceedings of the Academy of Natural Sciences of Philadelphia 153:155-166.

***Potapova, M. & D. F. Charles.** 2003. Distribution of benthic diatoms in U.S. rivers in relation to conductivity and ionic composition. Freshwater Biology 48:1311-1328. [\[pdf\]](#)

***Potapova M. G., K. C. Ponader**, R.L. Lowe, T.A. Clason & L.L. Bahls. 2003. Small-celled *Nupela* species from North America. Diatom Research 18(2):293-306.

2002

*Bushaw-Newton, K. L. , D. D. Hart, J. E. Pizzuto, J. R. Thomson, J. Egan, J. T. Ashley, T. E. Johnson, R. J. Horwitz, M. Keeley, J. Lawrence, **D. F. Charles**, C. Gatenby, D. A. Kreeger, T. Nightengale, R. L. Thomas & D. J. Velinsky. 2002. An integrative approach towards understanding ecological responses to dam removal: The Manatawny Creek Study. Journal of the American Water Resources Association 38(6):1581-1599.

*Hart, D. D., T. E. Johnson, K. L. Bushaw-Newton, R. J. Horwitz, A. T. Bednarek, **D. F. Charles**, D.A. Kreeger & D.J. Velinsky. 2002. Dam removal: Challenges and opportunities for ecological research and river restoration. BioScience 52:669- 681.

*Iwai, M. & **D. M. Winter.** 2002. Data report: taxonomic notes of Neogene diatoms from the western Antarctic peninsula: Ocean Drilling Program Leg 178. In P. F. Barker, A. Camerlenghi, G. D. Acton, & A.T.S. Ramsay, editors. Proc. ODP, Sci. Results, 178, http://www-odp.tamu.edu/publications/178_SR/chap_35/chap_35.htm.

***Morales, E. A.** 2002. Studies in selected fragilarioid diatoms of potential indicator value from Florida (USA) with notes on the genus *Opephora* Petit (*Bacillariophyceae*). Limnologia 32:102-113. [\[pdf\]](#)

***Morales, E. A.**, F. R. Trainor & C. Schlichting. 2002. Phenotypic plasticity in the algae: ecological and evolutionary implications. Constancea 83, http://ucjeps.berkeley.edu/constancea/83/morales_et_al/plasticity.html.

***Ponader, K.**, R. Pienitz, W. Vincent & K. Gajewski. 2002. Limnological conditions in a subarctic lake (northern Quebec, Canada) during the late Holocene: analyses based on fossil diatoms. Journal of Paleolimnology. 27(3):353-366.

***Potapova, M. & D. F. Charles.** 2002. Benthic diatoms in USA rivers: distribution along spatial and environmental gradients. Journal of Biogeography 29:167-187. [\[pdf\]](#)

*Snoeijs, P., S. Busse & **M. Potapova.** 2002. The importance of diatom cell size in community analysis. Journal of Phycology 38:265-281.

***Winter, D. M.** & M. Iwai. 2002. Data report: Neogene diatom biostratigraphy, Antarctic Peninsula Pacific margin, ODP Leg 178 rise sites. In P. F. Barker, A. Camerlenghi, G. D. Acton, & A.T.S. Ramsay, editors. Proc. ODP, Sci.

Results, 178, http://www-odp.tamu.edu/publications/178_SR/chap_35/chap_35.htm.

1999-2001

*Battarbee, R. W., **D. F. Charles**, S. S. Dixit & I. Renberg. 1999. Diatoms as indicators of surface water acidity. Pages 85-127 in: E. F. Stoermer & J. P. Smol, editors. The diatoms: applications for the environmental and earth sciences. Cambridge University Press, Cambridge.

Camburn, K. E. & **D. F. Charles**. 2000. Diatoms of low-alkalinity lakes in the Northeastern United States. (A Photographic iconograph illustrating nearly 1000 specimens). Special Publication 18, The Academy of Natural Sciences of Philadelphia, Philadelphia, PA. 152 pp.

*Dixit, S. S., J. P. Smol, **D. F. Charles**, R. M. Hughes, S. G. Paulsen & G. B. Collins. 1999. Assessing water quality changes in the lakes of the northeastern United States using sediment diatoms. Canadian Journal of Fisheries and Aquatic Sciences 56:131-152.

Hession, W. C., T. E. Johnson, **D. F. Charles**, D. D. Hart, R. J. Horwitz, D. A. Kreeger, J. E. Pizzuto, D. J. Velinsky, J. D. Newbold, C. Cianfrani, T. Clason, A. M. Compton, N. Coulter, L. Fuselier, B. D. Marshall, and J. Reed. 2000. Ecological benefits of riparian reforestation in urban watersheds: study design and preliminary results. Environmental Monitoring and Assessment 63 (1):211-222.

***Morales, E. A.** 2001. Morphological studies in selected fragilarioid diatoms (Bacillariophyceae) from Connecticut waters, USA. Proceedings of the Academy of Natural Sciences of Philadelphia 151:39-54.

***Morales, E. A.**, P. A. Siver & F. R. Trainor. 2001. Identification of diatoms during ecological assessments: comparison between light and scanning electron microscopy. Proceedings of the Academy of Natural Sciences of Philadelphia 151:29-37.

***Morales, E. A.** & F. R. Trainor. 2001. Las algas, conceptos críticos en la evaluación de su diversidad. [The algae, critical concepts for the evaluation of their diversity] Page 77 in R. Primack, R. Rozzi, P. Feisinger, R. Dirzo & F. Massardo, editors. Fundamentos de Conservación Biológica. Fondo de Cultura Económica, México.

*Sullivan, T. J., **D. F. Charles**, J. A. Bernert, B. McMartin, K. B. Vaché & J. Zehr. 1999. Relationship between landscape characteristics, history, and lakewater acidification in the Adirondack Mountains, New York. Water, Air and Soil Pollution 112: 407-427.

***Winter, D. M.** 2001. Data report: diatom biostratigraphic data and plates from ODP Leg 172, Hole 1063D, with brief discussion of present ecological affinities of taxa. In L. D. Keigwin, D. Rio, G. D. Acton, & E. Arnold, editors. Proc. ODP, Sci. Results, 172, http://www-odp.tamu.edu/publications/172_SR/chap_08/chap_08.htm.

***Winter, D. M.** & S. W. Wise Jr. 2001. Calcareous nanofossils from Leg 178, Antarctic peninsula, Pacific continental margin: Sites 1096 and 1101. In P. F. Barker, A. Camerlenghi, G. D. Acton, & A.T.S. Ramsay, editors. Proc. ODP, Sci. Results, 178, http://www-odp.tamu.edu/publications/178_SR/chap_26/chap_26.htm

Technical Reports and Other Publications

2009

Enache, M. D. 2009. Diatom-based paleolimnological investigation of New England lakes with taxonomic notes on *Aulacoseira*, *Discostella*, and *Achanathidium* species. Final Report for the New England Interstate Water Pollution Control Commission, Contract # M83158201. PCER, ANSP.

Ren, L., F. Acker, & D. F. Charles. 2009. 19th USGS NAWQA Workshop on Harmonization of Algal Taxonomy: Soft-algae of Northeast and Atlantic US. PCER Report No. 09-05. ANSP, Philadelphia, PA.

2008

Charles, D. F., & A. Tuccillo. 2008. Report on diatom metrics for New Mexico rivers and streams. Prepared for the New Mexico Environment Department.

Enache, M. D., D. F. Charles, T. Belton, & C. Callinan. 2008. Paleolimnological analysis of nutrient enrichment for criteria development in New Jersey and New York lakes. Final Report to the U.S. Environmental Protection Agency, Region 2. 25 pages plus figures and appendices.

Potapova, M. et al. 2008. Eighteenth NAWQA Workshop on Harmonization of Algal Taxonomy. Report No. 08-07. PCER, ANSP, Philadelphia, PA. 56 pp.

Tuccillo, A., R.J. Horwitz, D.F. Charles, & T. Belton. 2008. Application of an index of nutrient status based on macroinvertebrate assemblages to New Jersey streams. Report to the NJ Department of Environmental Protection. PCER, ANSP. 35 pp.

2007

***Charles, D. F., S. Hamsher,** & **J. Zalack.** 2007. Analysis of periphyton data to support development of nutrient criteria for streams in the Mid-Atlantic Piedmont. Final Draft, Report No. 07-02, submitted to the Maryland Department of the Environment. April 2007.

Charles, D. F. & J. Zalack. 2007. Report on diatom indicators for New Mexico rivers and streams. Prepared for the New Mexico Environment Department.

Mantell, J. M., M. Potapova, D. T. Mellott, S. J. Mays, D. H. Keller, **E. A. Morales, D. F. Charles, K. M. Sprouffske,** & **J. A. Collins.** 2007. Procedures for making additions to the Academy of Natural Sciences of Philadelphia Diatom Herbarium's New Species File. Protocol No. 13-67 Rev. 1. PCER, ANSP, Philadelphia, PA. 41 pp.

Mantell, J. M., M. Potapova, D. T. Mellott, S. J. Mays, D. H. Keller, **E. A. Morales, D. F. Charles, K. M. Sprouffske,** & **J. A. Collins.** 2007. Procedures for making additions to the Academy of Natural Sciences of Philadelphia Diatom Herbarium's Bibliography File. Protocol No. 13-68 Rev. 0. PCER, ANSP, Philadelphia, PA. 41 pp.

Ren, L., F. Acker & D. F. Charles. 2007. Seventeenth NAWQA Workshop on Harmonization of Algal Taxonomy. Report No. 07-09. Patrick Center for Environmental Research, ANSP, Philadelphia, PA. 237 pp.

2006

Morales, E. A. (Ed.). 2006. Twelfth NAWQA Workshop on Harmonization of Algal Taxonomy. Report No. 06-03. Patrick Center for Environmental Research, Academy of Natural Sciences, Philadelphia, PA. 193 pp.

Morales, E. A. 2006. Fifteenth NAWQA Workshop on Harmonization of Algal Taxonomy. Report No. 06-07. Patrick Center for Environmental Research, Academy of Natural Sciences, Philadelphia, PA. 271 pp.

2005

Morales, E. A. and **D. F. Charles** (Eds.). 2005. Tenth NAWQA Taxonomy Workshop on Harmonization of Algal Taxonomy. Report No. 05-1F. Patrick Center for Environmental Research, ANSP, Philadelphia, PA. 121 pp.

2004

Ponader, K. & D. F. Charles. 2004. Understanding the relationship between natural conditions and loadings on eutrophication: Algal indicators of eutrophication for New Jersey streams. Final Report Year 3. PCER, ANSP, Philadelphia, PA. 56 pp.

Ponader, K. & D. F. Charles. 2004. Understanding the relationship between natural conditions and loadings on eutrophication: Algal indicators of eutrophication for New Jersey streams. Final Report Year 4. PCER, ANSP,

Philadelphia, PA. 46 pp.

Ponader, K. & D. F. Charles. 2004. Relationships between periphyton and chemical-physical characteristics of the West Branch Susquehanna River and the influence of acid mine drainage. Analysis of periphyton samples from AMD study of West Branch Susquehanna river. Final Report. PCER, ANSP, Philadelphia, PA. 35 pp.

Ponader, K. & D. Winter. 2004. Field sampling procedures for the New Jersey Algae Indicators project: Sampling method for collection of qualitative diatom samples and algal biomass samples from epipsammic/epipellic habitat in the field. PCER Procedure No. P-13-67, PCER, ANSP, Philadelphia, PA. 7pp.

Potapova, M.G. 2004. Preliminary results of ecological analysis of the algal (non-diatom) NAWQA national dataset. Unpublished report prepared for the USGS NAWQA program.

2003

Bouchard, R., **F. Acker**, J. Jackson, R. Horwitz, & R. Davis. 2003. 2001 Savannah River biological surveys for Westinghouse Savannah River Company. Report No. 03-08F. PCER, ANSP, Philadelphia, PA. 265 pp.

Charles, D., K. Sprouffske, E. Morales, F. Acker & M. Schadler. 2003. Documentation for algal data submitted by The Academy of Natural Sciences to the NAWQA Bio-TDB in April 2003. Report No. 03-06. PCER, ANSP, Philadelphia, PA. 15 pp.

Morales, E. A. 2003. Eighth NAWQA Taxonomy workshop on harmonization of algal taxonomy. Report No. 03-12. PCER, ANSP, Philadelphia, PA. 24 pp. (contains two plates).

Morales E. A. & M. Potapova. 2003. Taxonomical studies on selected fragilarioid taxa from the United States. Page 25 in 42nd Northeast Algal Symposium. Saratoga Springs, NY, USA.

Morales, E. A. & M. L. Vis. 2003. New diatom taxa from South America. Page 25 in 42nd Northeast Algal Symposium. Saratoga Springs, NY, USA.

Ponader, K. & D. F. Charles. 2003. Understanding the relationship between natural conditions and loadings on eutrophication: Algal indicators of eutrophication for New Jersey streams. Final Report Year 2. Report No. 03-04. PCER, ANSP, Philadelphia, PA. 80 pp. <http://www.state.nj.us/dep/dsr/wq/wq.htm>

Ponader, K., D. Winter & D. Charles. 2003. Field sampling procedure for the New Jersey algae indicators project: use of diatometer artificial substrates. Patrick Center for Environmental Research Procedure No. P-16-66. PCER, ANSP, Philadelphia, PA. 32 pp.

Sprouffske, K. & D. Charles. 2003. Requirements for Algal Data Aggregation and Analysis (ADAA), Version 2. PCER, ANSP, Philadelphia, PA. 11 pp.

2002

Acker, F. 2002. 1998-1999 White River Diatometer Studies. Report No. 02-23F. PCER, ANSP, Philadelphia, PA.

Charles, D. F., C. A. Knowles & R. S. Davis, editors. 2002. Protocols for the analysis of algal samples collected as part of the U.S. Geological Survey National Water-Quality Assessment Program. Report No. 02-06. PCER, ANSP, Philadelphia, PA. 124 pp. <http://diatom.ansp.org/nawqa/pdfs/ProtocolPublication.pdf>

Morales, E. A. 2002. Sixth NAWQA workshop on harmonization of algal taxonomy. Report No. 02-10. PCER, ANSP, Philadelphia, PA. 37 pp. (contains 17 plates)

Morales, E. A. & P. B. Hamilton. 2002. Seventh NAWQA Workshop on harmonization of algal taxonomy. Report No. 02-21. PCER, ANSP, Philadelphia, PA. 52 pp. (contains 17 plates)

Ponader, K. & D. Winter. 2002. Procedure for semi-quantitative analysis of soft-algae and diatoms. Procedure

No. P-13-65. PCER, ANSP, Philadelphia, PA. 6 pp.

Sprouffske, K. 2002. Subcontractor soft algae database guide. PCER, ANSP, Philadelphia, PA. 10 pp.

Sprouffske, K. & D. Charles. 2002. Requirements for algal data aggregation and analysis (ADAA), Version 1. PCER, ANSP, Philadelphia, PA. 13 pp.

Sprouffske, K. & C. Ratnayaka. 2002. BioTDB Export User's Guide. PCER, ANSP, Philadelphia, PA. 8 pp.

Sprouffske, K., D. Winter & D. F. Charles. 2002. DPDC Data Entry Instruction Manual. PCER, ANSP, Philadelphia, PA. 32 pp.

2001-1999

Bouchard, R., **F. Acker, D. Charles**, T. Nightengale, R. Horwitz, D. Velinsky, R. Davis, R. Thomas & J. McNair. 2001. 2000 Sabine River studies for the Eastman Chemical Company, Texas Operations. Report No. 01-8F. PCER, ANSP, Philadelphia, PA. 249 pp.

Bouchard, R., **F. Acker, D. Charles**, T. Nightengale, R. Horwitz, D. Velinsky, R. Davis & R. Thomas. 2001. Biological and chemical studies of the Guadalupe River, 2000. Report No. 01-10F. PCER, ANSP, Philadelphia, PA. 136 pp.

Bouchard, R., **F. Acker**, R. Grant, Jr., J. Jackson, R. Horwitz, R. Davis & R. Thomas. 2001. Progress Report on 1999-2000 river quality surveys conducted by the Academy of Natural Sciences of Philadelphia on the Savannah River. Reporty No. 01-03. PCER, ANSP, Philadelphia, PA. 9 pp.

Bouchard, R., **F. Acker**, R. Grant, Jr., J. Jackson, R. Horwitz, R. Davis, R. Thomas & J. McNair. 2001. 2000 Savannah River biological surveys for Westinghouse Savannah River Company. Reporty No. 01-16F. PCER, ANSP, Philadelphia, PA. 261 pp.

Charles, D. F. 2001. Distribution of riffles, runs, pools and aquatic macrophytes in the Jackson River from Covington to Clifton Forge, VA: observations made during a canoe trip, 12-13 October 2000. Report No. 00-22. PCER, ANSP, Philadelphia, PA. 13 pp.

Charles, D. F. 2000. Further evaluation of diatom periphyton as indicators of cultivation and grazing impairment in Montana wetlands. Report No. 00-10R. PCER, ANSP, Philadelphia, PA. 40 pp.

Charles, D. F. 1999. An evaluation of diatom periphyton as indicators of cultivation and grazing impairment in Montana wetlands. Report 99-1F. PCER, ANSP, Philadelphia, PA. 50 pp.

Charles, D., D. Winter & M. Hoffman. 2000. Field Sampling procedures for the New Jersey Algae Indicators project. PCER Procedure P-13-64. PCER, ANSP, Philadelphia, PA. 11 pp.

Clason, T. A. & **D. F. Charles.** 2000. Second NAWQA taxonomy workshop on harmonization of algal taxonomy, November 1999. Report No.00-7. PCER, ANSP, Philadelphia, PA.

Clason, T. A. & **D. F. Charles.** 1999. First NAWQA taxonomy workshop on harmonization of algal taxonomy, May 1999. Report No.99-14. PCER, ANSP, Philadelphia, PA. 20 pp.

Cotter, P. Tabulator installation and users guide. 2001. PCER, ANSP, Philadelphia, PA. 24 pp.

Cotter, P., **K. Sprouffske, D. Charles, F. Acker**, C. Knowles & **E. A. Morales.** 2001. Procedure of entry of 1991- and 1994-Start NAWQA algae data into ANSP data into ANSP databases and transfer to the Bio-TDB in August 2001. PCER, ANSP, Philadelphia, PA. 66 pp.

Morales, E. A. 2001. On the adoption of new diatom genera names for the Savannah Diatometer Study. Pages 47-55 in Academy of Natural Sciences of Philadelphia. 2000 Savannah River biological surveys for Westinghouse

Savannah River Company. Appendix A-1, Report No. 01-16F. PCER, ANSP, Philadelphia, PA. 261 pp.

Morales, E. A. 2001. Fourth NAWQA workshop on harmonization of algal taxonomy. October 2000. Report No. 00-21F. PCER, ANSP, Philadelphia, PA. 40 pp. (contains 12 plates).

Morales, E. A. 2001. Fourth NAWQA taxonomy workshop. 16-18 October 2000. Diatom Analysis Laboratory. PCER, ANSP, Philadelphia, PA. (electronic version)

Morales, E. A. 2001. Fifth NAWQA workshop on harmonization of algal taxonomy. Report No. 02-09. PCER, ANSP, Philadelphia, PA. 59 pp. (contains 7 plates)

Morales, E. A. 1999-2001. First, second, third, fourth, and fifth NAWQA taxonomy workshops. PCER, ANSP, Philadelphia, PA. (electronic version)

Morales, E. A. & M. Potapova. 2000. Third NAWQA workshop on harmonization of algal taxonomy, May 2000. Report No.00-8. PCER, ANSP, Philadelphia, PA. 52 pp.

Ponader, K. & D. Charles. 2001. Understanding the relationship between natural conditions and loadings on eutrophication: algal indicators of eutrophication for New Jersey streams. Final Report Year 1. Report No. 01-26. PCER, ANSP, Philadelphia, PA. 23 pp.

Sprouffske, K., F. Acker, D. F. Charles & M. Schadler. 2001. Reconciliation of University of Louisville and ANSP cell density calculations. Addendum to: procedure of entry of 1991- and 1994-Start NAWQA algae data into ANSP data into ANSP databases and transfer to the Bio-TDB in August 2001. PCER, ANSP, Philadelphia, PA. 32 pp.

Presentations

2009

Charles, D. F. 2009. Diatoms as ecological indicators: Acid lakes to nutrient enriched streams. Celebration of 100 Years of Limnology at Cornell. Cornell University, Ithaca, NY, April 17-19, 2009. (Invited speaker).

Charles, D. F. 2009. Documentation of undescribed diatom taxa in survey and monitoring programs. 20th North American Diatom Symposium, Iowa Lakeside Lab, Milford, IA, September 23-27, 2009.

Charles, D. F. 2009. Using diatoms to monitor ecological conditions in New Jersey rivers and streams. 7th Water Monitoring and Education Summit. November 18, 2009, Rutgers Eco-Complex, Bordentown, NJ. (Keynote Speaker).

Chávez, V. S., & **E. A. Morales.** 2009. Interfase amigable para el registro e identificación de diatomeas (Bacillariophyta). [A friendly interface for registering and identifying diatoms (Bacillariophyta)]. 1er Congreso Boliviano de Botánica. October 29-30, 2009. Cochabamba, Bolivia.

Chávez, G, & **E. A. Morales.** 2009. Diversidad de diatomeas (Bacillariophyta) epipélicas de la región de Sajama, Oruro-Bolivia e implicaciones en la conservación de los ecosistemas acuáticos [Epipellic diatom diversity (Bacillariophyta) from the Sajama region, Oruro-Bolivia and implications for aquatic habitat conservation]. First National Congress on Biodiversity Conservation Based on its Use. November 23-25, 2009. Sucre, Bolivia. p. 18.

Enache, M. D., D. F. Charles, & A. Tuccillo. 2009. Diatom-based transfer functions developed within the National Lake Assessment project, U.S.A.: Comparing the predictive power of WA and WAPLS models developed at national and regional scales. 11th International Paleolimnology Symposium, Guadalajara, Mexico, December 16, 2009.

Enache, M. D., D. F. Charles, & A. Tuccillo. 2009. Diatom-based transfer functions developed within the National Lake Assessment project, U.S.A.: Inferring post-industrial changes at national and regional scales. North American

Lake Management Society, 29th International Symposium, Hartford, CT, October 27-31, 2009.

Enache, M. D., D. Velinsky, **D. F. Charles**, C. Sommerfield, et al. 2009. Diatom-based reconstruction of past environmental changes in the Delaware River tidal region along a north-south transect. 20th Biennial Conference of the Coastal and Estuarine Research Federation, Portland, OR, November 1-5, 2009. (Presented by DFC)

Fernández, E., **E. A. Morales**, G. Chávez, & P. Hamilton. 2009. Estudio preliminar de diatomeas epilíticas (Bacillariophyta) de los Valles Secos de Omereque and Pasorapa, Cochabamba, Bolivia [A preliminary study of epilithic diatoms (Bacillariophyta) from the Andean Dry Valleys of Omereque and Pasorapa, Cochabamba, Bolivia]. 1er Congreso Boliviano de Botánica. October 29-30, 2009. Cochabamba, Bolivia. p. 53.

Kamman, N., S. Holdsworth, T. Olsen, S. Paulsen, R. Mitchell, J. Stoddard, A. Herlihy, **D. F. Charles, M. D. Enache**, K. Loftin, D. Peck, C. Peterson, E. Tarquinio, J. Vansickle, S. Peterson, & H. Walker. 2009. Just how good are the Nation's lakes? The 2007 National Lake Assessment: Design, Water Quality, Recreational Suitability, and Historical Change. 29th International Symposium of the North American Lake Management Society, October 27-31, Hartford, CT.

Manoylov, K., **E. A. Morales**, & L. Bahls. 2009. Four new araphid diatoms from rivers in North America. 20th North American Diatom Symposium. September 23-27, 2009. Milford, IA.

Mitchell, R., **M. D. Enache, D. F. Charles**, N. Kamman, J. Stevenson, & J. Wolin. 2009. A nationally consistent approach to evaluate the Nation's lakes using diatom and littoral-riparian habitat indicators. 29th International Symposium of the North American Lake Management Society, October 27-31, 2009. Hartford, CT.

Morales, E. A. 2009. Estudios de diatomeas (Bacillariophyta) Bolivianas, estado actual y perspectivas futuras [Studies on Bolivian diatoms (Bacillariophyta), current state and future perspectives]. 1er Congreso Boliviano de Botánica. October 29-30, 2009. Cochabamba, Bolivia.

Morales, E. A. 2009. La sexta extinción: el papel del biólogo en la problemática ambiental Boliviana y mundial. Jornadas Académicas UCB, Diciembre 2009. Cochabamba, Bolivia.

Morales, E. A. 2009. Sobre las diatomeas (Bacillariophyta) del río Rocha, Cochabamba-Bolivia y su potencial en la conservación y manejo de ecosistemas acuáticos urbanos [On the diatoms from the Rocha River, Cochabamba-Bolivia and their potential in the conservation and management of urban aquatic ecosystems]. First National Congress on Biodiversity Conservation Based on its Use. November 23-25, 2009. Sucre, Bolivia. p. 22.

Morales, E. A., V. S. Chávez, & E. Fernández. 2009. Diatomeas (Bacillariophyta): ¿Por qué debemos incorporarlas en estudios de la biodiversidad Boliviana?. Simposio XXX Aniversario Instituto de Ecología, Universidad Mayor de San Andrés. March 4-6, 2009. La Paz, Bolivia. p. 6.

Morales, E. A., & E. Fernández. 2009. Estudios ficológicos en Bolivia: vacíos de información y base para trabajos futuros [Phycological studies in Bolivia: information gaps and a basis for future research]. 1er Congreso Boliviano de Botánica. October 29-30, 2009. Cochabamba, Bolivia.

Morales, E. A., E. Fernández, & R. Lücking. 2009. Estudio preliminar de hongos liquenizados de las localidades de Pasorapa y Omereque, Provincia Campero, Departamento de Cochabamba, Bolivia [A preliminary study of lichenized fungi from the localities of Pasorapa and Omereque, Campero Province, Department of Cochabamba, Bolivia]. 1er Congreso Boliviano de Botánica. October 29-30, 2009. Cochabamba, Bolivia.

Morales, E. A., & I. Trujillo. 2009. Diatomeas epilíticas (Bacillariophyta) del río Rocha, Departamento de Cochabamba, Bolivia. [Epilithic diatoms (Bacillariophyta) from the Rocha River, Department of Cochabamba, Bolivia]. 1er Congreso Boliviano de Botánica. October 29-30, 2009. Cochabamba, Bolivia.

Nierzwicki-Bauer, S. A., **F. A. Acker**, R. Bombard, **D. F. Charles**, R. Daniels, L. W. Eichler, J. Farrell, J. P. Harrison, B. Momen, S. Percent, W. H. Shaw, J. W. Sutherland, D. Winkler, & C. W. Boylen. 2009. A fifteen year dataset on chemistry and biota in Adirondack lakes: trends and future directions. NYSERDA Environmental Monitoring, Evaluation, and Protection Conference, Albany, NY, Oct 14-15, 2009.

Ren, L., & **M. Potapova**. 2009. Representatives of the genus *Proschkinia* from the Chihuahuan Desert, New

Mexico (poster). 20th North American Diatom Symposium, Iowa Lakeside Lab, Milford, IA, September 23-27, 2009.

Thomas, R. L., D. J. Velinsky, **D. F. Charles**, & C. K. Sommerfield. 2009. Tidal marshes in the Delaware Estuary: Historical reconstruction of chemical loadings and ecosystem effects. 20th Biennial Conference of the Coastal and Estuarine Research Federation, Portland, OR, November 1-5, 2009. (Poster)

Trujillo, I., & **E. A. Morales**. 2009. Utilización de diatomeas epilíticas (algas, Bacillariophyta) como indicadores de eutrofización en el río Rocha, Cochabamba [Use of epilithic diatoms (algae, Bacillariophyta) as indicators of eutrophication in the Rocha River, Cochabamba]. 1er Congreso Boliviano de Botánica. October 29-30, 2009. Cochabamba, Bolivia. p. 29.

2008

Charles, D. F., F. A. Acker, P. A. Bukaveckas, W. H. Shaw, C. W. Boylen, & S. A. Nierzwicki-Bauer. 2008. Phytoplankton assemblage response to decreasing acidic deposition in Adirondack Mountain lakes. Northeast Natural History Conference X, Albany, NY, April 17-18, 2008. (Presented by C. Boylen)

***Charles, D. F.**, J. K. Crawford, **S. E. Hamsher** & **J. T. Zalack**. 2008. Diatom-based approaches to develop nutrient criteria for streams in the Mid-Atlantic region of the eastern USA. 20th International Diatom Symposium, Dubrovnik, Croatia, September 7-13, 2008.

Charles, D. F., A. Tuccillo, & T. Belton. 2008. Tiered Aquatic Life Use (TALU) evaluation of New Jersey's Diatom Trophic Index (TDI). NJ DEP workshop on development of NJ TALU using diatoms, Trenton, NJ, December 11, 2008.

Enache, M. D., D. F. Charles, T. J. Belton & C. W. Callinan. 2008. Diatom-based paleolimnological reconstruction of European settlement impact on lakes in New York and New Jersey, USA. 20th International Diatom Symposium, Dubrovnik, Croatia, September 7-13, 2008.

Enache, M. D., E. A. Morales, & **M. Potapova**. 2008. New and rare diatoms (Bacillariophyceae) from lakes in the U.S.A. International Diatom Symposium, September 7-13, 2008. Dubrovnik, Croatia. Poster.

Fernández, E., & **E. A. Morales**. 2008. Estudios ficológicos en Bolivia: Vacíos de información y bases para trabajos futuros. VIII Congreso de Ficología de América Latina y El Caribe/VI Reunión Iberoamericana de Ficología. August 25-29, 2008. Lima, Peru.

Horwitz, R. J., **D. Velinsky**, & **D. Charles**. The Manatawny Creek Dam removal study. Invited presentation at symposium on dam removal. State College, PA. May 2008.

Maldonado, M., M. Pouilly, J. Camacho, F. Acosta, C. Fernandez, M. Cadima, & **E. A. Morales**. 2008. Caracterización ecológica de ambientes acuáticos de la cuenca del río Iténez (Bolivia) [Ecological characterization of aquatic habitats in the Iténez River watershed (Bolivia)]. II Congreso Boliviano de Ecología. April 17-19, 2008. Cochabamba, Bolivia.

Mays, S. J., D. F. Charles, & **P. Palmer**. 2008. The Academy of Natural Sciences on-line phycological resources. 47th Northeast Algal Symposium, April 18 - 20, 2008, Durham, NH.

Morales, E. A., V. Chávez, & I. Trujillo. 2008. Exploraciones preliminares de la diversidad de diatomeas (Bacillariophyta) en Bolivia. VIII Congreso de Ficología de América Latina y El Caribe/VI Reunión Iberoamericana de Ficología. August 25-29, 2008. Lima, Peru.

Morales, E. A., & L. Ector. 2008. Exploration de la diversité et de la taxinomie des Fragilariales en Amérique du Nord. 27^{ème} Colloque de l'Association des Diatomistes de langue Française. September 1-4, 2008. Dijon, France.

Morales, E. A., M. B. Edlund, & S. A. Spaulding. 2008. Small fragilarioid diatoms (*Bacillariophyceae*) morphologically similar to *Pseudostaurosira (Fragilaria) elliptica*. 20th International Diatom Symposium. September 7-13, 2008. Dubrovnik, Croatia.

Morales, E. A., E. Fernández, & P. Kociolek. 2008. Estudio preliminar de las diatomeas (Bacillariophyta) de Sehuencas, Parque Nacional Carrasco, Departamento de Cochabamba, Bolivia. VIII Congreso de Ficología de América Latina y El Caribe/VI Reunión Iberoamericana de Ficología. August 25-29, 2008. Lima, Peru.

Morales, E. A., J. P. Kociolek, & E. Fernández. 2008. A preliminary assessment of the diversity of epilithic diatoms (*Bacillariophyceae*) from Bolivian cloud forests, South America. 20th International Diatom Symposium. September 7-13, 2008. Dubrovnik, Croatia.

Rioual, P., & **E. A. Morales**. 2008. Araphid diatom (*Bacillariophyta*) diversity in Lake Sihailongwan, Jilin Province, Northeast China. 20th International Diatom Symposium. September 7-13, 2008. Dubrovnik, Croatia.

Tuccillo, A., R. Horwitz, & **D. F. Charles**. 2008. Application of a benthic macroinvertebrate nutrient biotic index (NBI) to New Jersey streams and a comparison to benthic diatom indices. North American Benthological Society 56th Annual Meeting, Salt Lake City, UT, May 25-30, 2008.

2007

Charles, D. F., **S. Hamsher** & **J. Zalack**. 2007. Diatom indicators of nutrients in the Mid-Atlantic region. 8th Annual Mid-Atlantic NPS/TMDL/WQS/WQM Training Workshop, Ocean City, MD, May 21-24, 2007.

Charles, D. F., **F. A. Acker**, P. A. Bukaveckas, W. H. Shaw, C. W. Boylen, & S. A. Nierzwicki-Bauer. 2007. Response of phytoplankton assemblages to decreasing acidic deposition in Adirondack mountain lakes (New York, USA). 30th Congress of the International Association of Theoretical and Applied Limnology (SIL), Montreal, Quebec, Canada, August 12-18, 2007.

Charles, D. F., **D. Mellott** & **M. Potapova**. 2007. Computer applications and electronic resources for diatom research at the Academy of Natural Sciences. North American Diatom Symposium, University of Michigan Biological Station, Douglas Lake, MI, September 12-16, 2007.

Charles, D. F. 2007. New approaches for using diatoms as indicators of nutrient conditions in rivers and streams. Biology Department seminar. The Ohio University, Athens, OH, March 8-10, 2007. Invited and hosted by Dr. Morgan Vis. Also had several meeting with honors and undergraduate students.

Charles, D. F. 2007. The science of nutrients: Diatoms as nutrient indicators in rivers and streams. Nutrient Forum. Sponsored by the US EPA and the PA Department of Environmental Protection. Philadelphia Visitor's Center, October 4, 2007.

Charles, D. F. Presentation to Academy Board of Trustees. Phycology / ANSP Diatom research, April 18.

Charles, D. F., **F. A. Acker**, P. A. Bukaveckas, W. H. Shaw, C. W. Boylen, & S. A. Nierzwicki-Bauer. 2007. Response of phytoplankton assemblages to decreasing acidic deposition in Adirondack mountain lakes. (Poster). EMAP Conference - Environmental Monitoring, Evaluation, and Protection in New York: Linking Science and Policy, NYSERDA (New York State Energy Research and Development Authority), November 15-16.

Flinders, C. A., **D. F. Charles**, **O. Gibb**, **D. D. Hart**, **R. J. Horwitz**, **R. L. Thomas**, **D. J. Velinsky** & **J. Zalack**. 2007. Controlling lotic periphyton using pulsed flows in the Jackson River: Spatial effects of a planned and natural pulsed flow event on biomass. North American Benthological Society 55th Annual Meeting, June 3-8, 2007, Columbia, SC.

Hart, D. D., **J. Ashley**, **A. Bednarek**, **R. Brown**, **K. Bushaw-Newton**, **D. F. Charles**, **R. J. Horwitz**, **J. Pizzuto** & **D. J. Velinsky**. 2007. Dam removal: Research needs for guiding effective conservation strategies. Same meeting as above.

Hondula, K., **D. F. Charles** & **M. Potapova**. 2007. An investigation of the freshwater diatom genus *Reimeria*: Distinctions between *Reimeria sinuata* and *Reimeria uniseriata*. North American Diatom Symposium, University of Michigan Biological Station, Douglas Lake, MI, September 12-16, 2007.

Horwitz, R. J., **D. F. Charles**, **C. A. Flinders**, **D. D. Hart**, **D. H. Keller**, **R. L. Thomas**, **D. J. Velinsky** & **J. Zalack**. 2007. Controlling lotic periphyton using pulsed flows in the Jackson River: Effects of high flow refuges on

periphyton biomass during a pulsed flow experiment. North American Diatom Symposium, University of Michigan Biological Station, Douglas Lake, MI, September 12-16, 2007.

Potapova, M. 2007. A new diatom genus based on *Achnanthes kriegei* Krasske. 19th North American Diatom Symposium. Douglas Lake, MI, September 12-16, 2007.

Potapova, M. & K. Ponader. 2007. The diversity of Sellaphoraceae in rivers and springs of the Southeastern United States. 19th North American Diatom Symposium. Douglas Lake, MI, September 12-16, 2007.

Potapova, M. 2007. River algae: Taxonomy and use for environmental assessments. Association of Mid-Atlantic Aquatic Biologists, Cacapon State Park. Berkeley Springs, WV, April 4-5, 2007.

Spaulding, S. A., D. Lubinski, **M. Potapova**, J. Thompson, J. Kinsey, & **M. Edlund.** 2007. Developing a web-based identification guide and ecological resource for diatoms of western North America. 19th North American Diatom Symposium. Douglas Lake, MI, September 12-16, 2007.

Thomas, R. L., D. F. Charles, C. A. Flinders & D. J. Velinsky. 2007. A multi-year study of periphyton dynamics in the Jackson river: Patterns of biomass and community structure and the relationship to physico-chemical conditions. 19th North American Diatom Symposium. Douglas Lake, MI, September 12-16, 2007.

Zalack, J. T. & D. F. Charles. 2007. Changes in the Jackson River, VA: Effects of management techniques on algal biomass and taxonomic composition. Same NADS meeting as above.

2005

Morales, E. A. & S. E. Hamsher. 2005. Girdle band structure in the fragilarioid genera *Staurosira* and *Staurosirella* (Bacillariophyceae). 44th North East Algal Society Symposium, Rockport, ME. Pages 25-26.

Potapova, M. G. 2005. What can and what cannot be done with the NAWQA algal dataset? 14th NAWQA Taxonomy Workshop, ANSP, Philadelphia, PA, January, 2005.

Potapova, M. G. & D. F. Charles. 2005. Diatom metrics for monitoring eutrophication in US rivers. American Society of Limnology and Oceanography 2005 Aquatic Sciences Meeting, Salt Lake City, Utah, February 20-25, 2005.

2004

Boylen, C.W., J.W. Sutherland, D.A. Winkler, **D.F. Charles, F. W. Acker**, J.A. Bloomfield, S.O. Quinn, and S.A. Nierzwicki-Bauer. 2004. Changing nutrient chemistries in Adirondack lakes prompt changes in phytoplankton. American Society of Limnology and Oceanography, Savannah, GA, June 13-18, 2004.

Brown, R.L., D. Hart, D. Velinsky, J. Pizzuto, **D. Charles**, R. Horwitz, T. Johnson, K. Skalak, **D. Winter**, T. Nightengale, J. Carr & J. McNair. 2004. Prioritizing sites for dam removal: how dam size translates to ecological impact. Ecological Society of America, Portland OR, August 1-6, 2004.

Charles, D.F., F.W. Acker, D.D. Hart, & C.W. Reimer. 2004. Regional-scale variation in diatom-water chemistry relationships in the eastern U.S. North American Benthological Society, Vancouver, BC, June 6-10, 2004

Charles, D. F., K. Sprouffs, E. A. Morales, M. Potapova, K. C. Ponader, D. M. Winter, C. Bell, P. Cotter, R. McCourt, D. Mellott, C. Ratnayaka, & D. Waterman. 2004. Academy of Natural Sciences online algae image resources. 18th International Diatom Symposium, Międzyzdroje, Poland, 2-7 September, 2004. p. 69.

Edlund, M. B., **E. A. Morales** & S. A. Spaulding. 2004. The type and taxonomy of *Fragilaria elliptica* Schumann, a widely misconstrued taxon. 18th International Diatom Symposium, Międzyzdroje, Poland, 2-7 September, 2004. p. 36.

Hamilton, P. & **E. A. Morales.** Fragilariales: On *Ulnaria* and its relationship to *Synedra* and *Fragilaria*. 13th NAWQA

Taxonomy Workshop on Harmonization of Algal Taxonomy. December 2004. ANSP, Philadelphia, PA.

Manoylov, K. M. & **E. A. Morales**. 2004. *Staurosirella incognita* Morales et Manoylov sp. nov., a non-spiny species from North America, with an emended description of *Staurosirella* Williams et Round (Bacillariophyceae). 18th International Diatom Symposium, Międzyzdroje, Poland, 2-7 September, 2004. p. 127.

Morales, E. A. & M. Le. 2004. Taxonomía de la diatomea *Lacunicula sardiniensis* Lange-Bertalot, Cavacini, Tagliaventi et Alfinito y su relación con el género *Craticula Grunow* (Bacillariophyceae) [Taxonomy of the diatom *Lacunicula sardiniensis* Lange-Bertalot, Cavacini, Tagliaventi et Alfinito an its relationship with the genus *Craticula Grunow* (Bacillariophyceae)]. First Peruvian Phycological Congress/First South American Phycological Congress. Lima, Peru. p. 61.

Morales, E. A., D. F. Charles, K. Sprouffske, M. Potapova, K. C. Ponader, D. M. Winter, C. Bell, P. Cotter, R. McCourt, D. Mellott, C. Ratnayaka, & D. Waterman. 2004. Bases de datos en línea conteniendo fotografías electrónicas pertenecientes a la Academia de Ciencias Naturales de Filadelfia [On line databases containing electronic images from The Academy of Natural Sciences of Philadelphia]. First Peruvian Phycological Congress/First South American Phycological Congress. Lima, Peru. p. 31.

Morales, E. A., M. Potapova, & D. F. Charles. 2004. Las diatomeas bénticas como indicadores de la calidad del agua [Benthic diatoms as indicators of water quality]. Universidad Mayor de San Simón, Facultad de Ciencias y Tecnología, Cochabamba, Bolivia.

Morales, E. A. 2004. Current topics in diatom taxonomy and systematics. Bryn Athyn College, Bryn Athyn, PA. Invited Speaker.

Morales, E. A. 2004. Diatoms : Champions of the world. ANSP WINS Program. Philadelphia, PA.

Morales, E. A. & M. Le. 2004. *Lacunicula sardiniensis* Lange-Bertalot et al. (Bacillariophyceae) and its relationship with the genus *Craticula Grunow*. 43rd Northeast Algal Symposium. University of Connecticut, Avery Point, CT. p. 38.

Morales, E. A. 2004. Diatom science, some current aspects. ANSP Diversity of Life Workshop for School Teachers. Philadelphia, PA.

Morales, E. A. 2004. Current trends in freshwater fragilarioid diatom classification with emphasis on *Fragilaria sensu lato*. 13th NAWQA Taxonomy Workshop on Harmonization of Algal Taxonomy. ANSP, Philadelphia, PA.

Pienitz R., É. Saulnier-Talbot, M.-A. Fallu, T. Laing, **K. Ponader**, K. Swadling & Ian Walker. 2004. Long-term climate stability in the Québec-Labrador (Canada) region: Evidence from paleolimnological studies. Arctic Climate Impact Assessment (ACIA) International Symposium on Climate Change in the Arctic. Reykjavik, Iceland, 9-12 November 2004.

Ponader, K. C., D. F. Charles & T. J. Belton. 2004. Trophic diatom indices as tools for monitoring nutrients in New Jersey streams and rivers. North American Benthological Society, Vancouver, BC, Canada, June 2004.

Potapova, M. G. 2004. *Staurosirella* in the NAWQA counts: ecological analysis reveals problems with identification and taxonomy. 12th NAWQA Taxonomy Workshop, ANSP, Philadelphia, PA, February, 2004.

Potapova, M. G. 2004. *Synedra ulna* and related taxa: ecological data and occurrence in the NAWQA and ANSP counts. 13th NAWQA Taxonomy Workshop, ANSP, Philadelphia, PA, December 9-12, 2004.

Potapova, M. G., J. F. Coles, E. M. Giddings, & H. Zappia. 2004. Impact of urbanization on stream benthic algal assemblages in contrasting environmental settings, presented at the annual meeting of the North American Benthological Society, Vancouver, British Columbia, June 6-10, 2004.

Sprouffske, K. and P. J. Morris. Building internet databases for biodiversity informatics. REU Seminar Series. ANSP, Philadelphia, PA, USA.

2003

Acker, F., D. Winter & C. Grafe. 2003. Idaho database. 17th North American Diatom Symposium, Islamorada, FL.

Charles, D. F. 2003. Environment: managing natural resources (panel presentation). Looking forward 30 years: Celebrating the 30th Anniversary of the Adirondack Park Agency Act and Examining the Private Land Use and Development Plan. Lake Placid, NY, October 2-3, 2003.

Charles, D. F. & K. Ponader. 2003. Implementation of an algae indicator monitoring program for New Jersey streams. New Jersey Department of Environmental Protection, Trenton, NJ, November 5, 2003.

Charles, D. F., M. Potapova, K. C. Ponader & D. M. Winter. 2003. Diatom-based methods for assessing nutrient enrichment in Northern Piedmont rivers. North American Benthological Society, Athens, GA, May 27-31, 2003.

Charles, D. F., M. Potapova, K. Ponader & D. M. Winter. 2003. Quantifying diatom autecological characteristics using the USGS NAWQA dataset. 17th North American Diatom Symposium, Islamorada, Florida, October 21-26, 2003.

Charles, D. F., K. Sprouffske, P. R. Sweets, T. J. Sullivan & D. Winter. 2003. The diatom paleolimnology data cooperative (DPDC). (Poster presentation) 9th International Paleolimnology Symposium, Espoo, Finland, August 24-28, 2003.

Hagan E., C. A. Flinders, N. E. Saxe, D. J. Velinsky, **D. F. Charles** & R. L. Thomas. 2003. Ecological studies of algal communities in the Jackson River (Covington, VA): An assessment of stream health through multi-year nutrient and biomass monitoring. North American Benthological Society, Athens, Georgia, May 29, 2003.

Morales, E. A. & M. L. Vis. 2003. New diatom taxa from South America. 42nd Northeast Algal Symposium. Saratoga Springs, NY, USA.

Morales E. A. & M. Potapova. 2003. Taxonomical studies on selected fragilarioid taxa from the United States. 42nd Northeast Algal Symposium. Saratoga Springs, NY, USA.

Ponader, K., and D. F. Charles. 2003. Implementation of an algae indicator monitoring program for New Jersey streams. New Jersey Department of Environmental Protection, Trenton, NJ, November 5, 2003. Also presented as a seminar in PCER on November 4, 2003.

Sachen, K., C. A. Firth, N. E. Saxe, C. A. Flinders, **F. Acker & D. F. Charles.** An ecological study of algal communities in the Jackson River (Covington, VA): Spatial and temporal trends in the taxonomic composition of algal assemblages. North American Benthological Society, Athens, Georgia, May 29, 2003.

Sprouffske, K. 2003. Phyco-AIDE Program: algal indicators and data exploration, presented as NAWQA CyberSeminar. July.

Sprouffske, K., D. F. Charles, P. R. Sweets, T. J. Sullivan, and D. Winter. 2003. The Diatom paleolimnology data cooperative (DPDC). 17th North American Diatom Symposium, Islamorada, Florida, October 21-26, 2003.

Winter, D. M. & D. F. Charles. 2003. Influence of dams and impoundments on diatom assemblages at 16 sites in Southeastern Pennsylvania, Northern Maryland and Northern Delaware. 17th North American Diatom Symposium, Islamorada, Florida, October 21-26, 2003.

2002

Acker, F. 2002. Modern cyanobacteria taxonomy: report on a workshop by Jeff Johnsen to the ANSP, PCER Phycology Section.

Charles, D. F. 2002. Algal research and ecological synthesis, ANSP and NAWQA co-operative agreement:

overview. NAWQA Leadership Team meeting, Philadelphia, PA., February 6, 2002.

Charles, D. F. & F. W. Acker. 2002. Phytoplankton assemblages in lakes studied by the Adirondack Effects Assessment Program. Northeast Natural History Conference VII., April 25-26, 2002.

Charles, D. F. & F. W. Acker. 2002. Phytoplankton assemblages in lakes studied by the Adirondack Effects Assessment Program. 9th Annual Conference on the Adirondacks, Saranac Lake, NY, May 2002.

Charles, D. F. & F. W. Acker. 2002. Phytoplankton. Adirondack Effects Assessment Program Workshop, Sagamore Hotel and Darrin Fresh Water Institute, Boulton Landing, NY, June 18-20, 2002.

Charles, D. F. & M. Potapova. 2002. Calibration sets for quantifying ecological characteristics of river algae: habitat variability and spatial scale. North American Benthological Society, Pittsburgh, PA, June 2002.

Charles, D. F., M. Potapova, K. Ponader. & D. Winter. 2002. Diatom-based methods for assessing nutrient enrichment in rivers of the Northern Piedmont Ecoregion (USA). 17th International Diatom Symposium, Ottawa, Canada, August 2002.

Morales, E. A. 2002. New fresh and brackish water fragilarioid diatoms from the United States. 41st Northeast Algal Symposium. University of New Hampshire, Durham.

Morales, E. A. 2002. Current topics in diatom taxonomy. The Academy of Natural Sciences of Philadelphia/Sigma-Xi Seminar Series. Philadelphia, PA.

Morales, E. A. & A. Jasinski. 2002. Morphological studies in the *Gomphonema parvulum* complex: evidence of cryptic species? 17th International Diatom Symposium, Ottawa, Canada, August 25-31, 2002.

Morales, E. A. 2002. Crítica de los esquemas de clasificación actuales de las diatomeas fragilarioideas de aguas continentales [A critique of current freshwater fragilarioid diatom classification]. VI Latin American Phycological Congress/IV Panamerican Phycological Reunion. Ponce, Puerto Rico.

Morales, E. A. 2002. Métodos taxonómicos utilizados para el análisis de muestras colectadas para NAWQA (National Water Quality Assessment Program) [Taxonomic methods used in the analysis of algal samples collected as part of the National Water Quality Assessment Program (NAWQA)]. VI Latin American Phycological Congress/IV Panamerican Phycological Reunion. Ponce, Puerto Rico.

Morales, E. A. 2002. Diatom taxonomy and related issues, ANSP and NAWQA co-operative agreement. NAWQA Leadership Team meeting, Philadelphia, PA., February 6, 2002.

Morales, E. A. & A. Jasinski. 2002. Estudios morfológicos en el complejo *Gomphonema parvulum* [Morphological studies in the *Gomphonema parvulum* complex]. VI Latin American Phycological Congress/IV Panamerican Phycological Reunion. Ponce, Puerto Rico.

Morales, E. A., M. G. Potapova, & D. F. Charles. 2002. Utilización de diatomeas benthicas para la evaluación de la calidad del agua en ríos de los EE.UU. [The use of benthic diatoms in the evaluation of water quality in USA rivers]. VI Latin American Phycological Congress/IV Pan-American Phycological Reunion. Ponce, Puerto Rico.

Morales, E. A., M. Potapova & D. F. Charles. 2002. Development of diatom-based water quality indicators in the NAWQA program. VI Latin American Phycological Congress, September 2002, Ponce, Puerto Rico.

Ponader, K. C., D. F. Charles & T.J. Belton. 2002. Development on algal indicators for monitoring eutrophication in New Jersey streams. Biology seminar, Bryn Athyn College, Pennsylvania, April 2002.

Ponader, K. C., D. F. Charles & T. J. Belton. 2002. Development of algal indicators for monitoring eutrophication in New Jersey streams. North American Benthological Society, Pittsburgh, PA, June 2002.

Ponader, K. C., D. F. Charles & T. J. Belton. 2002. Benthic diatoms as indicators of nutrient levels in New Jersey

streams. 17th International diatom symposium, Ottawa, Canada, August 2002.

Ponader, K. C., D. F. Charles & T. J. Belton. 2002. Diatomées benthiques indicatrices des taux de nutriments dans les rivières du New Jersey. 21^e Pme Colloque de l'Association des Diatomistes de Langue Française (ADLaF). Nantes, France, September 2002.

Potapova, M. 2002. Analysis of NAWQA algal data: development of nutrient indicators and evaluation of sample types. NAWQA CyberSeminar, November 2002.

Potapova, M. 2002. Analysis of the NAWQA algal data. NAWQA Leadership Team meeting, Philadelphia, PA., February 6, 2002.

Potapova, M. & D. F. Charles. 2002. Choice of substrate type for water quality assessment using benthic algae. North American Benthological Society, Pittsburgh, PA, June 2002.

Potapova, M. & D. F. Charles. 2002. Potential use of rare diatoms as environmental indicators in USA rivers. 17th International Diatom Symposium, Ottawa, Canada, August 2002.

Potapova, M. & D. F. Charles. 2002. Choice of substrate type for water quality assessment using benthic algae. North American Benthological Society, Pittsburgh, PA, June 2002.

Sprouffs, K. 2002. Computer applications supporting the analysis of NAWQA algal data. NAWQA Leadership Team meeting, Philadelphia, PA., February 6, 2002.

Winter, D. M., D. F. Charles & M. Potapova. 2002. Benthic diatoms in Manatawny Creek, southeastern Pennsylvania: temporal variability and the effects of dam removal. 17th International Diatom Symposium, Ottawa, Canada, August 2002.

Wynn, K. H. & **F. Acker.** 2002. Integrated assessment of instream impacts associated with urbanization in the Eagle River watershed, Colorado. Annual Water Resources Conference, Philadelphia, PA, November 2002.

1999-2001

Acker F. W. & D. Winter. 2001. 50+ Years of diatom studies on the lower Guadalupe River, Texas. 16th North American Diatom Symposium, Ely, MN.

Charles, D. F. 2001. European diatom database initiative: final workshop. ECRC, University College London, July 23 - 24. Invited as an Advisor to EDDI and made presentation on DPDC project.

Charles, D. F. 2000. Use of diatom algae to monitor river and stream water quality. Pennsylvania Department of Environmental Protection Biologists meeting, Stroud Water Research Center, November 2, 2000.

Charles, D. F. 1999. Algae as water-quality indicators in the eastern USA. Part of symposium on Algae as Environmental Indicators: Past, Present and Future, XVI International Botanical Congress, Saint Louis, MO, August 6, 1999. Invited speaker.

Charles, D. F. 1999. Large-scale variation in diatom assemblages in eastern US rivers and implications for water quality monitoring. Department of Geology, University of Delaware, Newark, DE. September 9, 1999.

Charles, D. F. 1999. Diatom periphyton as indicators of cultivation and grazing impairment in Montana wetlands. 15th North American Diatom Symposium, Pingree Park Campus of Colorado State University, September 23-25, 1999.

Charles, D. F. 1999. Large-scale variation in distribution of diatom algae in eastern U.S. rivers: implications for water quality monitoring. Sigma Xi sponsored seminar, ANSP, Philadelphia, PA. November 5, 1999,.

Charles, D. F., P. B. Cotter, P. R. Sweets, T. J. Sullivan & K.B. Vaché. 2000. A Diatom Paleolimnology Data Cooperative (DPDC) for paleoclimate research. Poster. 8th International Paleolimnology Symposium, Queen's

University (Kingston, Ontario), August 20-24, 2000.

Charles, D. F., P. R. Sweets, T. J. Sullivan, P. B. Cotter and K. B. Vaché. 1999. A diatom paleolimnology data cooperative (DPDC) for paleoclimate research. 15th North American Diatom Symposium, Pingree Park Campus of Colorado State University, September 23-25, 1999.

Charles, D. F. & K. Ponader. 2001. Biomonitoring with algae to measure nutrient loads to streams. Watershed Research Seminar, New Jersey Department of Environmental Protection, Trenton, NJ, March 2001.

Charles, D. F. & M. G. Potapova. 2001. Influence of spatial and temporal scale on models for inferring nutrients in U.S. rivers from benthic diatom assemblages. North American Benthological Society, LaCrosse, WI, June 2-8, 2001.

Charles, D. F. & M. G. Potapova. 2001. Analysis of diatom assemblages for the USGS NAWQA program. 16th North American Diatom Symposium, Ely, MN, September, 2001.

Charles, D. F. & M. Potapova. 2000. Inferring phosphorus concentrations in USA rivers from diatom assemblages: initial results. 16th International diatom symposium, Athens, Greece, August 25-September 1, 2000.

Clason, T. A., **D. F. Charles**, W. C. Hession, D. J. Velinski & T. E. Johnson. 1999. Ecological benefits of riparian reforestation in urban watersheds: evidence from diatom community analysis. 15th North American Diatom Symposium, Pingree Park Campus of Colorado State University, September 23-25, 1999.

Cotter, P. B., **D. F. Charles**, P. R. Sweets, T. J. Sullivan & K. B. Vaché. 2000. A Diatom Paleolimnology Data Cooperative (DPDC) for paleoclimate research. Poster. 8th International Paleolimnology Symposium, Queen's University (Kingston, Ontario), August 20-24, 2000.

Cotter, P. B., **D. F. Charles**, P. R. Sweets, T. J. Sullivan & K. B. Vaché. 2000. A Diatom Paleolimnology Data Cooperative (DPDC) for paleoclimate research. Poster. 16th International Diatom Symposium, Athens, Greece, August 25 -September 1, 2000.

Flinders, C. A., D. D. Hart, **D. F. Charles**, D. J. Velinsky & R. L. Thomas. 2001. River restoration via pulsed flows: effects of increased water velocity on benthic algae. North American Benthological Society, LaCrosse, WI. June 2-8, 2001.

Hart, D. D., K. L. Bushaw-Newton, S. Carney, **D. F. Charles** & 8 others. 2001. Manatawny Creek dam removal: species and community characteristics. North American Benthological Society, LaCrosse, WI. June 2-8, 2001.

Hruška, J., **D. F. Charles**, E. Bízová & J. Veselý. 2000. How much acidification has occurred in Prášílské Lake since preindustrial times? Conference on Acidified Lakes in the Bohemian/Bavarian Forest - History, Present and Future, Ceske Budejovice, Czech Republic, March 2000.

Johnson, T. E., W. C. Hession, **D. F. Charles**, R. J. Horwitz, D. A. Kreeger, B. D. Marshall, J. D. Newbold, J. E. Pizzuto & D. J. Velinsky. 2001. An interdisciplinary study of the ecological benefits of riparian reforestation in urban watersheds. World Water and Environmental Resources Congress (ASCE), Orlando, FL, May 20-24, 2001.

Manoylov, K., **E. A. Morales** & E. F. Stoermer. 2001. *Staurosira stevensonii* (Bacillariophyta) a new species from acidic environments. 16th North American Diatom Symposium. Camp du Nord, MN.

Morales, E. A. 2001. The use of morphological characters in diatom taxonomy: alternative and complementary hypotheses concerning identity and relationships of taxa. 16th North American Diatom Symposium. Camp du Nord, MN.

Morales, E. A. 2001. Utilización de diatomeas como indicadores de la calidad del agua. Universidad Mayor de San Simón, Facultad de Ciencias y Tecnología, Cochabamba, Bolivia (Invited Speaker).

Morales, E. A. & F. R. Trainor. 2001. A new paradigm for freshwater fragilarioid diatom classification? A critique

of Lange-Bertalot's new system. 40th Northeast Algal Symposium. Plymouth, MA.

Morales, E. A. & F. R. Trainor. 2001. A new paradigm for freshwater fragilarioid diatom classification? A critique of Lange-Bertalot's new system (revisited). Phycological Society of America, Estes Park, CO .

Ponader, K., R. Pienitz & K. Swadling. 1999. Paleolimnological analysis of environmental change in a subarctic lake in northwestern Québec. 15th North American Diatom Symposium, Pingree Park Campus, CO, September 1999.

Ponader, K. & D. F. Charles. 2001. Diatoms as indicators of nutrient levels in New Jersey streams. 16th North American Diatom Symposium, Ely, MN, June 2001.

Potapova, M. G. & D. F. Charles. 2001. Nutrient optima of diatom species in U.S. rivers. 16th North American Diatom Symposium, Ely, MN, September 19-22, 2001.

Potapova, M. G. & D. F. Charles. 2000. Benthic diatoms in USA rivers: distribution patterns and use as indicators of eutrophication. 4th International Symposium on Use of Algae for Monitoring Rivers, Durham, UK, July 17-20.

Potapova, M. G. & D. F. Charles. 2000. Patterns of diatom species distribution in USA rivers. 16th International Diatom Symposium, Athens, Greece, August 25 -September 1, 2000.

Potapova, M., Ponader, K.C. & Clason, T.A. 2001. New *Nupela* species from eastern rivers of the United States. 16th North American Diatom Symposium, Ely, MN, September 2001.

Winter, D. M. & M. G. Potapova. 2001. A study of three *Geissleria* Species common in rivers of the southeastern United States. 16th North American Diatom Symposium, Ely, MN.