



**PROCEEDINGS OF THE
18TH INTERNATIONAL
DIATOM SYMPOSIUM**

MIĘDZYDROJE, POLAND

2ND – 7TH SEPTEMBER, 2004

Editor: Andrzej Witkowski

£70 (inc P&P)*

*Price valid until 31st December 2006

ISBN-13: 978-0-948737-75-1

ISBN-10: 0-948737-75-1

Hardback 508 + xvi pp.

The Proceedings of the 18th International Diatom Symposium that was held in Poland has been published by Biopress Limited, Bristol.

It contains 38 papers together with 3 workshop reports from participants attending this successful and lively meeting held in 2004.

now available to buy online at
<http://www.ensisltd.co.uk>

Table of Contents

- List of reviewers
- Preface
- K. Buczkó. Bryophytic diatoms from Hungary.
- T.P. Chang & E.Y. Haworth. SEM-investigation on the valve structures of *Cyclotella stelligera* Cleve et Grunow (Centrales, Bacillariophyceae).
- N.A. Davidovich, I. Kaczmarek & J.M. Ehrman. The sexual structure of a natural population of the diatom *Nitzschia longissima* (Bréb.) Ralfs.
- S. Demidova. Environment changes in the Muravian (Eemian) Interglacial lakes in central Belarus as inferred from diatom analysis.
- M.B. Edlund, E.A. Morales & S.A. Spaulding. The type and taxonomy of *Fragilaria elliptica* Schumann, a widely misconstrued taxon.
- M.B. Edlund, Z. Levkov, N. Soninkhishig, S. Krstic & T. Nakov. Diatom species flocks in large ancient lakes: the *Navicula reinhardtii* complex from Lakes Hövsgöl (Mongolia) and Prespa (Macedonia).
- Y. Gao, W. Xie, Y. Li, Q. Yu, J. Liang, C. Chen, J. Yang & Y. Qi. *Pseudo-nitzschia*: Taxonomy and biogeographical distribution in the estuary of the Changjiang River, China.
- U. Geissler, W.-H. Kusber & R. Jahn. The diatom flora of Berlin (Germany): a spotlight on some documented taxa as a case study on historical biodiversity.
- P. Ivanov & E. Kirilova. Benthic diatom assemblages from different substrates of the Iskar River, Bulgaria.
- J. John. The impacts of dams on diatom assemblages: a case study from Australia on biomonitoring environmental flow.
- M.G. Kelly. A comparison of diatoms with other phytobenthos as indicators of ecological status in streams in northern England.
- M.G. Kelly, H. Bennion, E.J. Cox, B. Goldsmith, J. Jamieson, S. Juggins, D.G. Mann & R.J. Telford. An interactive CD-ROM for identifying freshwater diatoms.
- G. Khursevich, S. Fedenya, S. Demidova & G. Korol. Diatom succession in the middle and upper Pleistocene sediments of Belarus.
- G. Khursevich, S. Fedenya, E. Karabanov, M. Kuzmin, D. Williams & A. Prokopenko. The late Miocene stage in the development of the Lake Baikal diatom flora.
- L.G. Korneva. Invading species of planktic diatoms in the Volga River and the reasons for their occurrence.
- S. Krstic, Z. Levkov & T. Nakov. Diatom diversity in Republic of Macedonia – our present knowledge.
- J. Larsen, Ø. Paasche, D.O. Andersen, A.E. Bjune & A. de la Riva Caballero. Sedimentary diatom assemblages in a small alpine west Norwegian lake: evidence for metal release and precipitation?
- Z. Levkov, D. Metzeltin & S. Krstic. New and rare diatoms from Lakes Ohrid and Prespa.
- A.V. Ludikova, D.A. Subetto, N.N. Davydova, T.V. Sapelko, D.D. Kuznetsov, Kh. A. Arslanov & J.O. Miettinen. The use of diatom records from small lakes in reconstructing the lake level fluctuations of Lake Ladoga.
- D.G. Mann, S.J.M. Droop, Y. (Julia) A. Hicks, A.D. Marshall, R.R. Martin & P.L. Rosin. Alleviating the taxonomic impediment in diatoms: prospects for automatic and web-based identification systems.
- H.G. Marshall, L. Burchardt & S. Cerbin. Dominance and morphology of two acidophilic diatoms from Lake Drummond, located in Southeastern Virginia, U.S.A.
- S. Melo, L.C. Torgan, M. Menezes & J.D. Correa, Jr. First report of *Cyclotella choctawhatcheeana* (Bacillariophyta) from Brazilian tropical waters: ultrastructure and ecology.
- A. Miho & H. Lange-Bertalot. Diversity of the genus *Placoneis* in Lake Ohrid and other freshwater habitats of Albania.
- E.Yu. Mitrofanova, T.A. Safonova, N.A. Skabitchevskaya, V.V. Kirilov, G.V. Kim & R. Eu. Romanov. Diatoms (Bacillariophyta) in Lake Teletskoye (Altai Mountains, Russia).
- E.A. Morales & K.M. Manoylov. *Staurosirella incognita* Morales et Manoylov sp. nov., a non-spiny species from North America, with an emended description of *Staurosirella* Williams et Round (Bacillariophyceae).
- N. Ognjanova-Rumenova. Some aspects and problems concerning diatom biochronology for the Neogene in the region of the Balkan Peninsula.
- J. Sieminska. Tradition of diatom research in Poland.
- K. Sprouffske, 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. Online algae image resources of the Academy of Natural Sciences, Philadelphia, U.S.A.
- K. Stachura-Suchoples. Morphological variability of recent population of *Pliocenicus costatus sensu lato* from the Verkhoyansk Mountains, and its relationship to *Pliocenicus costatus* var. *costatus* (Log., Lupik. & Khurs.) Flower, Ozornina et Kuzmina.
- E.F. Stoermer. The importance of physical factors regulating diatom distribution in large lakes.
- N.I. Strelnikova, J.P. Kociolek & E. Fourtanier. The new genus *Mycetacanthus* (Bacillariophyta) from the Cretaceous and Paleogene.
- L.C. Torgan, A.A.H. Vieira, D. Giroldo & C.B. dos Santos. Morphological irregularity and small cell size in *Thalassiosira duostra* maintained in culture.
- I. Trifonova & S. Genkal. Planktonic diatoms of the Order Thalassiosirales Glezer et Makarova (Centrophyceae) from Lake Ladoga, its tributaries, and some lakes in its catchment.
- R. Trobajo & E.J. Cox. Examination of the type material of *Nitzschia frustulum*, *N. palea* and *N. palea* var. *debilis*.
- A. Tuji & Y. Tanimura. Locations of type specimens and collections of Japanese diatomists.
- T. Watanabe & K. Asai. Utility of the water quality map based on DAIPo (diatom assemblage index to organic pollution) values.
- D.M. Williams, G.K. Khursevich, S.A. Fedenya & R.J. Flower. The fossil record in Lake Baikal: comments on the diversity and duration of some benthic species, with special reference to the genus *Tetracyclus*.
- M. Witak & B. Bogaczewicz-Adamczak. Diatoms as indicators of Littorina and Post-Littorina transgressions in the Polish coastal zone.
- Workshop reports by Convenors:**
- D. Charles, J. Stevenson, M. Kelly & L. Ector. Diatoms and environmental assessment.
- W.H.C.F. Kooistra & L.K. Medlin. Species diversity in diatoms.
- K. Stachura-Suchoples, N.I. Strelnikova & I. Trifonova. Synchronization of taxonomic, systematic and ecological information on diatoms from Asia.