

Diatoms
Taxonomy and Ecology:
A Marriage of Necessity

Proceedings of a Workshop
23-27 October 2002, Kulice, Poland

Edited by

J.P. Kocielek¹ and A. Witkowski²

¹*Diatom Collection, California Academy of Sciences, 875 Howard Street
San Francisco, CA 94103, and*

²*Department of Paleoceanology, Institute of Marine Sciences, University of Szczecin,
Waska 13, Pl-71-415 Szczecin, Poland*

Table of Contents

JOHN PATRICK KOCIOLEK: Preface to Taxonomy and Ecology: A Marriage of Necessity. Proceedings of a Workshop 23–27 October, 2002, Kulice, Poland	97
JOHN PATRICK KOCIOLEK: Taxonomy and Ecology: Further Considerations	99
ROGER J. FLOWER: A Review of Diversification Trends in Diatom Research with Special Reference to Taxonomy and Environmental Applications Using Examples from Lake Baikal and Elsewhere	107
ALEKO MIHO AND ANDRZEJ WITKOWSKI: Diatom (Bacillariophyta) Flora of Albanian Coastal Wetlands Taxonomy and Ecology: A Review	129
EUGENE F. STOERMER: Marrying Taxonomy and Ecology: An Attempt	146
FRITHJOF A.S. STERRENBURG: Taxonomy and Ecology: An Inseparable Pair	156
GRAHAM J.C. UNDERWOOD: Microalgal (Microphytobenthic) Biofilms in Shallow Coastal Waters: How Important are Species?	162
TELSE MEYER, JULIA SAUER, ANDREAS OELTJEN, KLAUS WENDEROTH, JÜRGEN MARQUARDT, AND ERHARD RHIEL: Structural, Biochemical and Molecular Investigations on Wadden Sea Diatoms: Field Studies and Laboratory Experiments	170
DAVID M. WILLIAMS AND GERALDINE REID: The Sino-Siberian Distribution of <i>Eunotia Clevei</i> and its Relatives, from Lake Baikal to the Mekong Delta: The Union of Taxonomy, Biogeography, and Ecology	179



Participants in the Workshop
Taxonomy and Ecology: A Marriage of Necessity
held 23–27 October 2002 in Kulice, Poland

Volume 56, No. 9, p. 97

April 29, 2005

Taxonomy and Ecology: A Marriage of Necessity
Proceedings of a Workshop
23–27 October 2002, Kulice, Poland

Preface

John Patrick Kocielek

*¹Diatom Collection, California Academy of Sciences, 875 Howard Street
San Francisco, CA 94103; Email: pkocielek@calacademy.org*

The workshop, “Diatom Ecology and Taxonomy: A Marriage of Necessity,” was convened by J.P. Kocielek and A. Witkowski, from 23–27 October 2002 at the University of Szczecin’s Conference Center in Kulice, Poland. The workshop was sponsored by the California Academy of Sciences (San Francisco), University of Szczecin (Poland), Alexander von Humboldt Foundation (Germany) and Carl von Ossietzky University (Oldenburg, Germany). A total of 48 participants from Albania, Belgium, Belarus, Croatia, Denmark, Germany, Hungary, Ireland, Macedonia, Poland, Russia, Spain, Sweden, Ukraine, United Kingdom and USA were in attendance.

A number of invited speakers raised issues related to the workshop’s title, with regard to fossil and recent diatoms, and freshwater, estuarine and marine habitats. Viewpoints of those focused primarily on taxonomy and ecology were presented. The plenary presentations provided the spring-board for lengthy facilitated discussions. The areas of overlap and separation were discussed, and topics that might promote synergy for the two disciplines explored. The papers comprising this volume represent most of the invited speakers at the workshop. The workshop could serve as a model for future discussions by diatomists across scientific disciplines.

The organization of and ongoing support for the Workshop by faculty, staff, and students of the University of Szczecin was above reproach. Their efforts assured our workshop’s ultimate success, and the attendees were both aware of and greatly appreciated the hard work that went into dealing with the workshop’s many practical and impractical elements.