

## Preface

The 1st Central European Diatom Meeting was held at the Botanic Garden and Botanical Museum Berlin-Dahlem, from 23 to 25 March 2007. A total of 109 scientists from 20 countries participated in the meeting.

The 1st Central European Diatom Meeting was at the same time the “21. Treffen Deutschsprachiger Diatomologen mit Internationaler Beteiligung” which were started 1987 in Schlitz by Eileen Cox and took place yearly in 1988 (Seewiesen; Rolf Klee), 1989 (Salzburg; Martin Dokulil, Anna-Maria Schmid & Roland Schmidt), 1990 (Langenargen; Reiner Kümmerlin), 1991 (Horw; Hansrudolf Bürgi), 1992 (Berlin; Ursula Geissler & Regine Jahn), 1993 (Innsbruck; Eugen Rott), 1994 (Bremerhaven; Richard Crawford), 1995 (Iffeldorf; Uta Raeder & Frank-Martin Goos), 1996 (Mondsee & Salzburg; Martin Dokulil, Anna-Maria Schmid & Roland Schmidt), 1997 (Walchwill; Joachim Hürlimann), 1998, (Trento; Marco Cantonati & Monica Tolotti), 1999 (Kröchlendorff; Ilka Schönfelder & Wolfram Scheffler), 2000 (Bern; Sonja Hausmann & André Lotter), 2001 (Lukecin; Andrzej Witkowski), 2002 (Innsbruck; Eugen Rott), 2003 (Bredbeck; Richard Crawford), 2004 (Iffeldorf; Uta Raeder), 2005 (Dierhagen; Thomas Hübener), and 2006 (Třeboň; Václav Houk). In the last 15 years this German speaking meeting has become larger and more international since the political borders within Europe have lost their importance extending the countries hosting the meetings from Germany, Austria and Switzerland to Italy, Poland and Czechia. We wanted to take this Europeanization into account by renaming the meeting Central European thus providing a platform for people working with diatoms to get together and to discuss current diatom topics in a regional frame.

The European focus was picked up at the Berlin meeting by the Workshop on Diatoms and Biomonitoring, chaired by Herman van Dam and Eugen Rott, summarizing developments and challenges of the European WFD. The most current topic of diatom research was discussed in the session “Diatoms are going molecular: implications for identification, taxonomy and phylogeny” (Panel: Birgit Gemeinholzer, Regine Jahn, Irena Kaczmarek, Peter Kroth, Linda Medlin, and Geraldine Reid). Altogether, a total of 22 talks and 51 posters were presented at the Berlin meeting.

36 papers have been submitted for publication, representing a wide range of topics (molecular as well as morphological, biomonitoring, biogeography, paleolimnology, biodiversity informatics, etc.). This is why we decided to bring this diversity into alphabetical order by first author. Diatom names have been cross-checked using Paul Silva's Index Nominum Algarum and the AlgaTerra Information System. Authors of diatom names have been abbreviated according to Brummitt & Powell, respectively IPNI standard.

A small run of copies has been distributed to libraries for archiving to ensure nomenclatural validity. The most important point for us was to put the scientific outcome of this 1st Central-European Diatom Meeting up for discussion to a broad audience. As an Open Access Publication of the BGBM Press all papers are freely accessible via the Internet.

### Participants of the 1st Central-European Diatom Meeting:

Nélida **Abarca** (Berlin, Germany), Sven **Adler** (Rostock, Germany), Wolfgang **Arp** (Berlin, Germany), Mandy **Bahnwart** (Flintbek, Germany), Irini **Bassios** (München, Germany), Maria Elena **Beltrami** (San Michele all'Adige, Italy), Camilla **Beulker** (Berlin, Germany), Nicole **Brinkmann** (Göttingen, Germany), Katrin **Bruder** (Bremen, Germany), Jessica **Buck** (Rostock, Germany), Krisztina **Buczko** (Budapest, Hungary), Ludmilla **Bukhtiyarova** (Kiev, Ukraine), Marco **Cantonati** (Trento, Italy), Christine **Cocquyt** (Meise, Belgium), Holger **Cremer** (Utrecht, The Netherlands), Martin **Dokulil** (Mondsee, Austria), Mirko **Dreßler** (Rostock, Germany), Daniela **Erhard** (München, Germany), Juliane **Fenner** (Hannover,

Germany), Christina **Gebühr** (Helgoland, Germany), Ursula **Geissler** (Berlin, Germany), Birgit **Gemeinholzer** (Berlin, Germany), Rodan **Geriš** (Brno, Czech Republic), Doris **Gesierich** (Innsbruck, Austria), Marija **Gligora** (Zagreb, Croatia), Susanne **Göbel** (Rostock, Germany), Conni **Goos** (Iffeldorf, Germany), Frank-Martin **Goos** (Iffeldorf, Germany), Thomas **Görlich** (Altenholz, Germany), Gabriele **Gunkel** (Berlin, Germany), Herta **Heger** (Wien, Austria), Sigrid **Hoeg** (Berlin, Germany), Gabriele **Hofmann** (Glashütten, Taunus, Germany), Michel **Horn** (St. Germanin la Blanche Herbe, France), Václav **Houk** (Třeboň, Czech Republic), Thomas **Hübener** (Rostock, Germany), Kerstin **Huber** (Mondsee, Austria), Verena **Hübner** (Berlin, Germany), Simone **Illig** (Iffeldorf, Germany), Regine **Jahn** (Berlin, Germany), Nenad **Jasprica** (Dubrovnik, Croatia), Ingrid **Jüttner** (Cardiff, United Kingdom), Irena **Kaczmarska** (Sackville, Canada), Christina **Kaiblinger** (Mondsee, Austria), Tatjana **Kapetanović** (Sarajevo, Bosnia and Herzegovina), Juliane **Kasten** (Berlin, Germany), Galina **Khursevich** (Minsk, Republic of Belarus), Agnieszka **Kierzek** (Szczecin, Poland), Agnes **Kirchhoff** (Berlin, Germany), Emiliya P. **Kirilova** (Utrecht, The Netherlands), Kateřina **Kopalová** (Prague, Czech Republic), Markéta **Kozáková** (Brno, Czech Republic), Alexandra **Kraberg** (Helgoland, Germany), Koraljka **Kralj** (Zagreb, Croatia), Diana **Krawczyk** (Szczecin, Poland), Jens **Kroker** (Neusörnwitz, Germany), Peter **Kroth** (Konstanz, Germany), Wolfgang **Krüger** (Flörsheim-Dalsheim, Germany), Reiner **Kümmerlin** (Langenargen, Germany), Wolf-Henning **Kusber** (Berlin, Germany), Elsa **Kusel** (Mödling, Austria), Horst **Lange-Bertalot** (Frankfurt am Main, Germany), Kirsten **Langner** (Rostock, Germany), David **Lazarus** (Berlin, Germany), Zlatko **Levkov** (Skopje, Republic of Macedonia), Angelika **Lüttig** (Berlin, Germany), Magdalena **Ludwikowska** (Szczecin, Poland), Anton **Lyakh** (Sevastopol, Ukraine), Petr **Marvan** (Brno, Czech Republic), Linda K. **Medlin** (Bremerhaven, Germany), Adrienne **Mertens** (Overasselt, The Netherlands), Ditmar **Metzeltin** (Hofheim, Germany), Ute **Mischke** (Berlin, Germany), Adéla **Moravcová** (Prague, Czech Republic), Anna **Nesterovich** (Saint-Petersburg, Russia), Nadja **Ognjanova-Rumenova** (Sofia, Bulgaria), Jinsoon **Park** (Seoul, South Korea), Joanna **Picińska-Fałtynowicz** (Wrocław, Poland), Anđelka **Plenković-Moraj** (Zagreb, Croatia), Aloisie **Pouličková** (Olomouc, Czech Republic), Uta **Raeder** (Iffeldorf, Germany), Erwin **Reichardt** (Treuchtlingen, Germany), Geraldine **Reid** (London, United Kingdom), Hubert **Ringel** (Frankfurt am Main, Germany), Eugen **Rott** (Innsbruck, Austria), Wilfried **Scharf** (Wuppertal, Germany), Petra **Schilling** (Berlin, Germany), Eva **Schmidt** (Berlin, Germany), Roland **Schmidt** (Mondsee, Austria), Michael **Schreck** (Berlin, Germany), Anja **Schwarz** (Braunschweig, Germany), Oliver **Skibbe** (Berlin, Germany), Jana **Špačková** (Olomouc, Czech Republic), Katarzyna **Stachura-Suchoples** (Potsdam, Germany), Csilla **Stenger-Kovács** (Veszprém, Hungary), Jürgen **Strassert** (Berlin, Germany), Helgard **Täuscher** (Berlin, Germany), Lothar **Täuscher** (Seddiner See, Germany), Lukas **Taxböck** (Zürich, Switzerland), Anna **Ulanova** (Saint-Petersburg, Russia), Herman **van Dam** (Amsterdam, The Netherlands), Bart **Van de Vijver** (Meise, Belgium), Ricarda **Voigt** (Göttingen, Germany), Petra **Werner** (Osnabrück, Germany), Claudia **Winteler** (Rapperswil, Switzerland), Andrzej **Witkowski** (Szczecin, Poland), Jana **Wölfel** (Rostock, Germany), Katarzyna **Zamelczyk-Juhnke** (Szczecin, Poland).

The meeting was sponsored by the Freie Universität Berlin, Außenamt as well as the Botanic Garden and Botanical Museum Berlin-Dahlem, the Shop "pflanzenreich", and Deutsche Forschungsgemeinschaft (DFG) which are here gratefully acknowledged. The editors wish to thank Norbert Kilian (BGBM Press, Berlin) for advice concerning the publication process.

We hope that the Berlin meeting was as highly appreciated by the participants as it was for the organizers. We are looking forward to the next Central European Diatom Meetings (i.e. Trento 2008 and Utrecht 2009) bringing together students and experienced researchers in a good scientific climate.

The Editors

Wolf-Henning Kusber & Regine Jahn