

Report of the 5th International Symposium *Biology and Taxonomy of Green Algae*, Smolenice, Slovakia, June 25–29, 2007

František HINDÁK

Institute of Botany, Slovak Academy of Sciences, Dúbravská cesta 14, SK-84523 Bratislava, Slovakia; e-mail: frantisek.hindak@savba.sk

Abstract: The International Symposium *Biology and Taxonomy of Green Algae V* was held at the Congress Centre of the Slovak Academy of Sciences in Smolenice, Slovakia, June 25–29, 2007. The symposium was attended by 61 phycologists from 19 countries of Europe (17), Asia (2) and America (4). Thirty-three lectures were given and 28 poster presentations exhibited and discussed. The scientific programme dealt with the taxonomy, ecology, physiology and genetics of green algae. One mid-symposium excursion to the Záhorie region (city of Skalica) was organized.

Key words: international symposium; biology and taxonomy of green algae; Slovakia

Introduction

The symposia *Biology and Taxonomy of Green Algae* are traditionally organized by the Phycological Section of the Slovak Botanical Society, with support of the Institute of Botany, Slovak Academy of Sciences, Bratislava, and the Faculty of Natural Sciences, Comenius University, Bratislava. The current symposium took place at the Congress Centre of the Slovak Academy of Sciences at Smolenice-Castle (cf. Hindák, 1991, 1994, 1997, 2003) and lasted from 25th to 29th June, 2007. Sixty-one scientists from 19 countries participated, among them 52 from Europe, five from Asia and four from America. Thirty-three lectures were given and 28 poster presentations were exhibited and discussed (Hindák 2007). The scientific programme dealt with taxonomy, floristics, terrestrial algae, desmids, ecology and genetics of green algae. One mid-symposium excursion to the Záhorie region (town of Skalica) was organized. The local organizing committee consisted of A. Hindáková, Ľ. Kováčik, J. Makovinská, D. Vlček and F. Hindák (chairman).

Participants

BICUDO Carlos E. de M., Instituto de Botânica, Caixa postal 4005, 01061-970 São Paulo, SP, Brasil; e-mail: cbicudo@terra.com.br

BOLDINA Olga N., Algological department, Komarov Botanical Institute, Russian Academy of Sciences, ul. Popova 2, St. Petersburg, Russia; e-mail: olgab1999@mail.ru

BRIŠKAITÉ Rima, Department of Botany and Genetics, Faculty of Nature Sciences, Ciurlionio 21/27, Vilnius University, LT-03101 Vilnius, Lithuania

CHELAPPA Naithirirthi T., Dept. of Oceanography and Limnology, Centre of Bioscience, Universidad Federal do Rio Grande do Norte, Natal/RN 59.014-100 Brazil; e-mail: chellappa@dol.ufrn.br

DARIENKO Tatyana M., N.H. Kholodny Institute of Botany, National Academy of Sciences of Ukraine, 2, Tereshchenkivska, Kiev, MSP, UA-01001 Ukraine; e-mail: darienko@ukr.net

ELIÁŠ Marek, Dept. of Botany, Faculty of Sciences, Charles University, Benátská 2, CZ-12801 Praha 2, Czech Republic, e-mail: elias@natur.cuni.cz

ELSTER Josef, Institute of Botany CAS, Dukelská 135, CZ-37982 Třeboň, Czech Republic; e-mail: jelster@butbn.cas.cz

FREYSTEIN Katharina, Allgemeine Botanik, Institut für Biologie 1, Universität Leipzig, Johannisallee 21–23, D-04103 Leipzig, Germany; e-mail: katharina.freystein@gmx.de

FRIEDL Thomas, Experimentelle Phykologie und Sammlung von Algenkulturen, Universität Göttingen, D-37073 Göttingen, Germany; e-mail: tfriedl@uni-goettingen.de

GÁLOVÁ Eliška, Dept. of Genetics, Faculty of Sciences, Comenius University, Mlynská dolina, B-1, SK-84215 Bratislava, Slovakia; e-mail: galova@fns.uniba.sk

GÄRTNER Georg, Botanical Institute, University of Innsbruck, A-6020 Innsbruck, Austria; e-mail: georg.gaertner@uibk.ac.at

GAYSINA Lira, M., Aknulla Bashkir State Pedagogical University, Department of Botany, Oktyabr'skoi revoliucii, 3a, 450000 Ufa, Russia; lira.gaisina@mail.ru

GONTCHAROV Andrey A., Botanisches Institut, Universität zu Köln, Gyrhofstr. 15, D-50931 Köln, Germany; e-mail: andrey.gontcharov@uni-koeln.de; gontcharov@biosoil.ru



Fig. 1. The participants of the 5th International Symposium *Biology and Taxonomy of Green Algae*, Smolenice, June 25–29, 2007, Slovakia; photo F. Hindák.

HAMZOVÁ Alena, Dept. of Genetics, Faculty of Sciences, Comenius University, Mlynská dolina, B-1, SK-84215 Bratislava, Slovakia; e-mail: hamzova@fns.uniba.sk

HASLER Petr, Dept. of Botany, Faculty of Sciences, Palacký University, Svobody 26, CZ-77146 Olomouc, Czech Republic; e-mail: hasler@prfholnt.upol.cz

HAYASHI Yasuko, Dept. of Environmental Sciences Niigata University, Ikarashi, Japan; e-mail: yhayashi@env.sc.niigata-u.ac.jp

HINDÁK František, Institute of Botany, Slovak Academy of Sciences, Dúbravská cesta 14, SK-84523 Bratislava, Slovakia; e-mail: frantisek.hindak@savba.sk

HINDÁKOVÁ Alica, Institute of Botany, Slovak Academy of Sciences, Dúbravská cesta 14, SK-84523 Bratislava, Slovakia; e-mail: alica.hindakova@savba.sk

HORECKÁ Mária, Bratislavská 35, SK-84106 Bratislava; e-mail: mhorecka@gmail.com

KOMULAYNEN Sergey F., Institute of Biology, Karelian Research Centre, Russian Academy of Sciences, Pushkinskaya str. 11, 185910 Petrazavodsk, Russia; e-mail: komsf@krc.karelia.ru

KOREIVIENĖ Judita, Institute of Botany, Laboratory of Hydrobotany, Žaliųjų ežerų 49, LT-08406 Vilnius, Lithuania; e-mail: judita.koreiviene@delfi.lt

KOSTIKOV Igor, Kyiv Taras Shevchenko National University, Biological Faculty, 64 Volodymirska Street,

UA-01033 Kyiv, Ukraine; e-mail: botan403@biocc.univ.kiev.ua

KOUWETS Frans A.C., RWS – Centre for Water Management, Hydrobiological Laboratory, P.O. Box 17, 8200 AA Lelystad, The Netherlands; e-mail: frans.kouwets@rws.nl

KUKK Erich, University of Tartu, Tartu, Estonia; e-mail: Erich.Kukk@ut.ee

KOVÁČIK Lubomír, Comenius University, Dept. of Botany, Révová 39, SK-81102 Bratislava, Slovakia; e-mail: kovacik@fns.uniba.sk

KRASZNAI Enikő, Dept. of Ecology, University of Debrecen, Egyetem tér 1, H-4032 Debrecen, Hungary; e-mail: ekrasznai@gmail.com

LHOTSKÝ Oldřich, Institute of Botany, Academy of Sciences of the Czech Republic, Dukelská 135, CZ-37982 Třeboň, Czech Republic; e-mail: algolstud@butbn.cas.cz

LUKEŠOVÁ Alena, Institute of Soil Biology, Academy of Sciences of the Czech Republic, Na Sádkách 7, CZ-37005 České Budějovice, Czech Republic; e-mail: luksa@upb.cas.cz

MAKOVINSKÁ Jarmila, Water Research Institute, arm. gen. L. Svobodu 5, SK-81249 Bratislava, Slovakia; e-mail: makovinska@vuvh.sk

MENEZES Mariangela, Laboratório de Ficologia, Dept. de Botanica, Museu Nacional, Rio de Janeiro, Brazil; e-mail: menezesm@superig.com.br

MESSYASZ Beata, Department of Hydrobiology, Adam

- Mickiewicz University, Umultowska 89, PL-61-614 Poznań, Poland; e-mail: messyasz@main.amu.edu.pl
- MIKHAILYUK Tatiana I., N.H. Kholodny Institute of Botany, National Academy of Sciences of Ukraine, 2, Tereschenkivska St., Kyiv, MSP, UA-01001, Ukraine; e-mail: t-mikhailyuk@ukr.net
- MILDNER Johanna M., Kärntner Institut für Seenforschung, Naturwissenschaftliches Forschungszentrum, Kohldorfer Straße 98, A-9020 Klagenfurt, Austria; e-mail: johanna.mildner@ktn.gv.atwww.kis.ktn.gv.at
- NGEARNPAT Neti, Dept. of Biology, Faculty of Science, Chiang Mai University, Chiang Mai, Thailand; e-mail: sboi017@chiangmai.ac.th
- NEUSTUPA Jiří, Dept. of Botany, Charles University, Benátská 2, CZ-12801 Praha, Czech Republic; e-mail: neustupa@natur.cuni.cz
- NOZAKI Hisayoshi, Dept. of Biological Sciences, University of Tokyo, Tokyo 113-0033, Japan; e-mail: nozaki@biol.s.u-tokyo.ac.jp
- PADISÁK Judit, University of Veszprém, Institute of Biology, Egyetem u. 10, H-8200, Veszprém, Hungary; e-mail: padisak@tres.blki.hu
- PATOVA Elena N., Institute of Biology, Russian Academy of Sciences, Sytkyvar, Komi Republic, Russia; e-mail: patova@ib.komisc.ru
- PEERAPORNPIPAL Yuwadee, Dept. of Biology, Faculty of Science, Chiang Mai University, Chiang Mai, Thailand; e-mail: sboi017@chiangmai.ac.th
- PÔBIŠOVÁ Katarína, AQUASCOP, 1 av. du Bois l'Abbé, F-49070 Angers – Beaucaouzé, France; e-mail: aqua@aquascop.fr
- PRÖSCHOLD Thomas, Culture Collection of Algae and Protozoa, Scottish Association for Marine Science, Dunstaffnage Marine Laboratory, Dunbeg by Oban PA37 1QA, Scotland; e-mail: Thomas.Proeschold@sams.ac.uk
- REUNANEN Markku J., Dept. of Biological and Environmental Sciences, Faculty of Biosciences, University of Helsinki, Helsinki, Finland; e-mail: markku.reunanen@helsinki.fi
- SALISCH Mario, Universität Leipzig, Institut für Botanik, Johannisallee 21-23, D-04103 Leipzig, Germany; e-mail: msalisch@rz.uni-leipzig.de
- SCHAGERL Michael, Dept. of Marine Biology, University of Vienna, A-Vienna, Austria; e-mail: michael.schagerl@univie.ac.at
- SEKIMOTO Hiroyuki, Dept. of Chemical and Biological Sciences, Faculty of Science, Japan Women's University, Tokyo, Japan; e-mail: sekimoto@fc.jwu.ac.jp
- SEVČOVIČOVÁ Andrea, Dept. of Genetics, Faculty of Natural Sciences, Comenius University, SK-84215 Bratislava 4, Slovakia; e-mail: andrea.sevcovicova@fns.uniba.sk
- ŠKALOUD Pavel, Dept. of Botany, Charles University, Benátská 2, CZ-12801 Praha, Czech Republic; e-mail: skaloud@natur.cuni.cz
- SLANINOVÁ Miroslava, Dept. of Genetics, Faculty of Natural Sciences, Comenius University, SK-84215 Bratislava 4, Slovakia; e-mail: slaninova@fns.uniba.sk
- SLUIMAN Hans, Royal Botanic Garden Edinburgh, Inverleith Row, Edinburgh EH3 5LR, Scotland, UK; e-mail: h.sluiman@rbge.ac.uk
- SOUSA Valéria L.M., Laboratorio de Ficologia, Departamento de Botanica, Museu Nacional, Rio de Janeiro, Brasil – CEP:20940-040; e-mail: valerylms@yahoo.com.br
- ŠRÁMKOVÁ Katarína, Comenius University, Dept. of Botany, Révová 39, SK-81102 Bratislava, Slovakia; e-mail: sramkova@fns.uniba.sk
- STAMENKOVIĆ Marija, Institute of Botany and Botanical Garden “Jevremovac”, Belgrade, Serbia; e-mail: marie110@gmail.com
- ŠŤASTNÝ Jan, Dept. of Botany, Faculty of Science, Charles University, Benátská 2, CZ-12801 Praha 2, Czech Republic; e-mail: stastny.jan@centrum.cz
- ŠTEFKOVÁ Elena, Institute of Zoology, Slovak Academy of Sciences, Dúbravská cesta 9, SK-84506 Bratislava, Slovakia; e-mail: elena.stefkova@savba.sk
- ŠTĚPÁNKOVÁ Jana, Department of Botany, Faculty of Sciences, Palacký University, Svobody 26, CZ-77146 Olomouc, Czech Republic; e-mail: cha.rybda@seznam.cz
- STERLYAGOVA Irina, Institute of Biology, Russian Academy of Sciences, Sytkyvar, Komi Republic, Russia; e-mail: sterlyagova@ib.komisc.ru
- STOYNEVA Maya Petrova, Sofia University St.-Kliment Ohridski, Faculty of Biology, Department of Botany, blvd. Dr. Zankov 8, Sofia-1166, Bulgaria; e-mail: mstoynev@techno-link.com
- VALENTOVÁ Lucia, Comenius University, Department of Botany, Révová 39, SK-81102 Bratislava, Slovakia; e-mail: valentova@fns.uniba.sk
- VLČEK Daniel, Department of Genetics, Faculty of Sciences, Comenius University, Mlynská dolina, B-1, SK-84215 Bratislava, Slovakia; e-mail: vlcek@fns.uniba.sk
- ZWERVER Satu, Firm Zwerver – plankton, Kemio, Finland; e-mail: info@zwerver.fi

Programme

The scientific programme of the symposium consisted of 33 lectures and 28 poster presentations. (Abbreviations: L – lecture, P – poster)

General Topics Lectures on Taxonomy of Green Algae

(chairpersons: H Sluiman & H. Nozaki)

- Nozaki H.: A new male-specific gene “*Otogoki*” unveiling an origin of male and female, and zygote germination in *Pleodorina starrii* Volvocaceae) (L)
- Krienitz L., Wei Luo & Pröschold Th.: Present state of the systematics of Chlorellaceae (L)
- Pröschold Th.: Systematics of the green algae: Conflict of classic and modern approaches (L)
- Sekimoto H. & Abe J.: Molecular approaches for sexual reproduction of a unicellular charophycean alga,

- Closterium peracerosum-strigosum-littorale* complex (L)
- Friedl Th., Darienko T., Zufall-Roth E., Mudimu O., Beck A., Peters L., Schumann R. & Karsten U.: Assessment of the genus *Glaphyrella*, a common aerophytic coccoid green alga previously assigned to *Chlorella* (Chlorophyta, Trebouxiophyceae) (L)
- Sluiman H., Friedl Th., Mikhailyuk T.I. & Beck A.: Phylogenetic analysis of the 516 and 1506 group I introns of the Klebsormidiales (Klebsormidiophyceae, Streptophyta) (L)
- Taxonomy & Floristics**
(chairperson: L. Kováčik)
- Stoyneva M.P., Ingolič E. & Vyverman W.: *Siderocelis irregularis* Hindák (Chlorophyta) in Lake Tanganyika (Africa) (L)
- Hindák F. & Hindáková A.: Morphology and taxonomy of some rare occurring chlorococcal algae (L)
- Elster J.: Green algae (Chlorophyceae) in polar environment (L)
- Friedl Th., Kostikov I.Yu., Müller J., Hoffmann L., Beck A. & Zufall-Roth E.: A re-investigation of *Pseudococcomyxa* (Chlorophyta, Trebouxiophyceae): combined analyses of morphology, rDNA sequencing and AFLP fingerprinting to define species (L)
- Koreivien J. & Kasparovičienė J.: The green algae flora in the lakes of two raised peatbogs with different level of antropogenic pressure (Lithuania) (P)
- Messyas B.: Green algae species component of periphyton communities in lowland rivers (Poland) (P)
- Pôbišová K.: Microflora of three volcanic lakes in Central France (P)
- Terrestrial Algae Taxonomy & Ecology**
(chairpersons: I. Yu Kostikov, A. Lukešová & G. Gärtner)
- Sousa V.L.M, Menezes M. & Alves R.J.V.: Morphology and life cycle of Chlorophyta species isolated from termite mounds on continental quartzite, Brazil (L)
- Lukešová A.: Diversity of green algae in caves of Slovak Karst National Park (L)
- Hofbauer W. & Gärtner G.: Aerophytic green algae as primary colonizers of building surfaces – important morphological groups and their taxonomy (P)
- Gaysina L. & Purina E.: Study on *Klebsormidium flacidum* (Kützing) Silva et al. (Streptophyta) resistance to extreme ecological factors (L)
- Johansen J.R., Khaibulina L.S. & Gaysina L.A.: Some Chlorophyta species from the forest soils of Great Smoky Mountains National Park (USA) (L)
- Eliš M., Hodač L. & Škaloud P.: Molecular diversity and phylogeny of tropical aerophytic green algae (P)
- Freystein K., Reißer W. & Salisch M.: Algal biofilms on tree barks for monitoring of airborne pollutants (L)
- Boyko V.R, Kostikov I.Yu. & Hoffmann L.: Detection of tobacco mosaic virus in green soil algae (L)
- Vinogradova O.M. & Darienko T.M.: Soil algae of hypersaline environments of the Central Syvash islands (Kherson Region, Ukraine) (P)
- Gärtner G., Fahrthofer K., Ingolič E. & Tschakner A.: Contribution to the taxonomy of terrestrial *Stichococcus* species (Chlorophyta, Trebouxiophyceae) (P)
- Mikhailyuk T.I.: Terrestrial lithophilic algae of granite canyon of Teteriv River (Ukraine) (P)
- Mikhailyuk T.I., Sluiman H.J., Massalski A.K., Mudimu O., Demchenko E.M., Kondratyuk S.Ya. & Friedl Th.: New streptophyte green algae from terrestrial habitats and an assessment of the genus *Interfilum* (Klebsormidiophyceae, Streptophyta) (P)
- Neustupa J. & Škaloud P.: Diversity of subaerial algae on tree bark in tropical mountain habitats (P)
- Novakovskaya I.V. & Patova E.N.: Green algae in spruce forests (North-East of European Russia) (P)
- Patova E. & Dorokhova M.: Green algae in tundra soils under coal mine impact (P)
- Škaloud P. & Peksa O.: Taxonomic study on *Asterochloris* (Trebouxiophyceae) based on comparative morphology of chloroplast structure and ITS sequences (P)
- Škaloud P., Friedl Th. & Neustupa J.: Morphology, molecular phylogeny and taxonomy of green algal genera *Aerosphaera* and *Dictyochloropsis* (Trebouxiophyceae, Chlorophyta) (P)
- Valentová L., Elster J., Degma P., Kováčik L., Šramková K. & Pereira B. A.: Filamentous green alga *Klebsormidium* isolated from different geographical regions (Antartic, Arctic, Slovakia) and their resistance to freezing-dessication injuries (P)
- Desmids Taxonomy & Ecology**
(chairpersons: A. Gontcharov, F.A.C. Kouwets & C.E.M. Bicudo)
- Padisák J. & Hajnal É.: Why are planktonic desmids more abundant in tropical than in temperate lakes (L)
- Ngarnpat N., Coesel P.F.M. & Peerapornpisal Yu.: Diversity of desmids from four peat swamps of Thailand (L)
- Stamenković M. & Cvijan M.: Some new and interesting ecological notes on several desmid taxa from the province of Vojvodina (North Serbia) (L)
- Kouwets F.A.C.: The species concept in desmids – the problem of infraspecific taxa and the monospecific species definition (L)
- Neustupa J., Škaloud P. & Šťastný J.: Geometric morphometrics of *Micrasterias* (Desmidiaceae) – infrageneric differentiation and pattern of morphological variation (L)
- Koreivien J. & Kasparovičienė J.: Green algae flora in the lakes of two raised peat bogs with different level of antropogenic pressure (Lithuania) (P)
- Bicudo C.E.M., Azevedo M.T.P. & Castro A.A.J.: Desmidiaceae (Zygnemaphyceae) of the state of São Paulo: straight cylindrical and lunate genera (L)
- Gontcharov A.A. & Melkonian M.: Is the genus *Cos-*

- marium* (Desmidiaceae, Zygnematophyceae) a robust taxonomic entity? (L)
- Briskaite R., Kostkevičienė J. & Naujalis J.R.: Desmids (Chlorophyta, Desmidiaceae) from Girutiskis mires complex reserve (East Lithuania) (P)
- Krasznai E., Fehér G., Borics G., Várbíró G., Grigorszky I. & Tóthmérész B.: Use of desmids to assess the natural value of a Hungarian oxbow (Malom-Tisza, NE-Hungary) (P)
- Kukk E.: Taxonomy of *Cosmarium crenulatum* Ralfs ex Ralfs (P)
- Reunanen M.: A preliminary check-list of desmids of Finland (P)
- Schagerl M. & Pröschold Th.: Rediscovery of *Oocardium stratum* Naeg. in Austria and its preliminary taxonomic position within the Desmidiales (P)
- Šťastný J.: Desmids from ephemeral pools and aerophytic habitats from the Czech Republic (P)
- Štěpánková J., Vavrušková J., Hašler P., Mazalová P. & Poulíčková A.: Diversity and ecology of desmids of peat bogs in the Jizerské hory Mts (P)
- Sterlyagova I.N.: Desmids in mountain lakes of the Subpolar Urals (P)

Hydrobiology

(Chairpersons: J. Padišák)

- Burchardt L. & Messyas B.: Changes in the phytoplankton communities dominated by *Coelastrum reticulatum* in Lake Lednica in 1985–2006 (L)
- Chellappa N.T. Câmara F.R.A. & Chellappa S.: Ecology of freshwater chlorophyceae under the influence of three hydroperiods of an annual cycle, in semiarid northeast Brazil (L)
- Peerapornpisal Yu., Suphan S., Ngearnpat N. & Pekkoh J.: Distribution of chlorophyte phytoplankton in Northern Thailand (L)
- Makovinská J. & Velická Z.: The role of green algae in the phytoplankton of the Danube River (L)
- Komulaynen S.: The green algae as structural element of phytoplankton communities in streams of the North-Western Russia (L)
- Thiamdao S., Suphan S., Boo S.M. & Peerapornpisal Yu.: Diversity of edible freshwater macroalgae in Nan River, Northern Thailand (P)

Genetics

(chairperson: D. Vlček)

- Boldina O.N.: The ultrastructural approach towards *Chlamydomonas* systematics inside *Euchlamydomonas* group (L)
- Gálová E., Šalgovičová I., Demko V., Mikulová K., Ševčovičová A., Slovákova Ľ., Kyselá V. & Hudák J.: A look on chlorophyll biosynthesis through algae (L)

- Hamzová A. & Ševčovičová A.: UV light-induced DNA damage detection in unicellular green alga *Chlamydomonas reinhardtii* (L)
- Ševčovičová A., Hamzová A., Gálová E. & Vlček D.: Use of algae in the study of essential cell processes (L)
- Slaninová M., Daubnerová I., Hrossová D., Treuner G., Vlček D. & Mages W.: Homologous recombination between the *arg7-8* (*arg2*) point mutation and various constructs of the truncated *ARG7* gene in *Chlamydomonas reinhardtii* (L)
- Hayashi Ya., Nakazawa Ch., Banba A. & Shinozaki A.: Analyses of COX genes in Chlorophyceae (P)
- Messyas B., Czerwik-Marcinkowska J. & Lücke A.: Ultrastructure of *Planktothrix rubescens* and accompanying species found in Lake Holzmar (Germany) (P)
- Müller J., Friedl Th., Pröschold Th., Lorenz M., Harding K., E. Benson E., John G. & Day J.: Phenotypic and genotypic stability of algal cultures: a prerequisite for physiological, taxonomic and systematic studies (P)

Acknowledgements

The organizing committee of the symposium thanks the Slovak Academy of Sciences and the Slovak Botanical Society for hosting the symposium on the premises of the Congress Centre at Smolenice; and the Institute of Botany SAS and the Faculty of Natural Sciences, Comenius University, Bratislava, and the municipal authorities of the city Skalica for their help in every aspect of the symposia organization. We also would like to express our thanks to Dr Hans Sluiman who as a guest editor kindly and patiently corrected the English of all manuscripts. Finally, we thank the company Nikon for the demonstration of microscope equipment during the symposium and for financial support.

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