

BRYOLOGICAL TIMES

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EUROPEAN COMMUNITY PROTECTION FOR BRYOPHYTES

by G. Raeymaekers

Conservation column. Send contributions to the column editors: T. Hallingbäck & E. Urmi

The EEC Ministers, responsible for the Environment, approved the Habitat Directive during their biannual meeting in May 1992. This directive requests from the 12 Member States to set up a coherent ecological network of special areas of conservation for the conservation of endangered habitat types and plant and animal species in the European Community.

This important piece of legislation in the field of nature protection, is an improvement of the Bern Convention on the conservation of European wildlife and natural habitats for a number of reasons. In the first place, it emphasizes the safeguarding of biotopes

to protect endangered plants, animals, and endangered habitat (vegetation) types rather than to rely on strict species protection only. Secondly, it is a legally binding instrument. Thirdly, it includes, for the first time, non-flowering plants, such as bryophytes. And fourthly, financial means are provided for the restoration, management or land acquisition of sites housing priority habitat types and species.

Annex 1 of the Habitat Directive list 167 endangered habitat types, several of them important for bryophytes such as active raised bogs, blanket bogs, transition mires, calcareous fens, several rocky habitats, beech forests, with *Ilex* and *Taxus* (rich in epiphytes), bog woodland, alluvial forests, etc.

Annex 2 includes species that need habitat protection: 392 species of seed plants, 16 species of ferns, and the following 21 bryophyte species (* priority species):

- Bruchia vogesica* Schwaegr.
- Bryoerythrophyllum machadoanum* (Sérgio) M. Hill (*)
- Buxbaumia viridis* (Lam. & DC) Moug. & Nestl.
- Dichelyma capillaceum* (Dicks.) Myr.
- Distichophyllum carinatum* Dix. & Nich.
- Drepanocladus vernicosus* (Mitt.) Warnst.
- Echinodium spinosum* (Mitt.) Jur. (*)
- Jungermania handelii* (Schiffn.) Amak.
- Mannia triandra* (Scop.) Grolle

- Marsupella profunda* Lindb. (*)
- Meesia longiseta* Hedw.
- Nothothylas orbicularis* (Schwein.) Sull.
- Orthotrichum rogeri* Brid.
- Petalophyllum ralfsi* (Wils.) Nees. & Gott.
- Riella helicophylla* (Bory & Mont.) Mont.
- Scapania massalongi* (K. Müll.) K. Müll.
- Sphagnum pylaisii* Brid.
- Tayloria rodolphiana* (Garov.) B.S.G.
- Thamnobryum fernandesi* Sérgio (*)
- Dicranum viride* (Sull. & Lesq.) Lindb.
- Riccia breidlerii* Steph.

Leucobryum glaucum and all *Sphagnum* species (except *S. pylaisii*) are listed on Annex 3 because their taking in the wild and exploitation may be subject to management measures.

I would like to thank the bryologists who, as a result of the symposium on endangered bryophytes in Europe, in Uppsala 1990, wrote the data sheets for these species. The complete text of the Habitat Directive can be obtained from the European Commission, Directorate General XI, Documentation Service, Wetstraat 200, B-1049 Brussels. (Council Directive 92/43/EEC, Official Journal of the European Communities: L206: pg.7-pg. 50 of 22/7/1992).

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NEW PUBLICATIONS

Timo Koponen & Jaako Hyvönen (eds.) 1992. *Proceedings of the Congress of East Asiatic Bryology, Helsinki, August 12-19, 1990*. *Bryobrothera* 1, xiii + 332 pp., numerous illustr., ISSN 1235-3949, ISBN 951-96475-0-3. Price Fmk 330,-. To be ordered from Tiedekirja, Kirkkokatu 14, 00170 Helsinki, Finland, FAX 358-0-635017.

This splendid volume on Asiatic bryology contains the scientific papers presented at an international conference in Finland held at the occasion of the 350th anniversary of the University of Helsinki [for a report see Lewinsky, *The Bryol. Times* 57/58: 5-10. 1990]. The 35 articles are dealing mainly with aspects of the taxonomy, floristics and biogeography of East Asiatic bryophytes, to a lesser extent with their morphology and physiology. Much attention is given to bryoflora of China (12 papers). Furthermore, there are reviews on the bryofloras of South Malesia (Touw), the Philippines (Tan), the Anadaman Is. (Joshi et al.) and Asiatic portions of Russia, and a report on the ongoing *Flora of Western Melanesia* (Koponen et al.). The diversity and evolution of important Asiatic taxa are discussed for *Campylopus* (Frahm), *Orthotrichum* (Lewinsky), *Bryum* (Ochi), Jungermanniaceae (Vána) and Lejeuneaceae (Gradstein), and continental connections of the bryoflora are dealt with in papers on the mosses common to Japan and North America (Iwatsuki), steppe bryophytes of Alaska (Murray), Afro-Asian species (Pócs), *Fissidens* (Pursell et al.) and *Tayloria* (A. Koponen).

This book appears as the first volume of BRYOBROTHERA, a new periodical published by the Finnish Bryological Society. It is very carefully edited and professionally produced, and is a mine of information on the biodiversity of the Asiatic bryophyte flora. [S.R.Gr.]

Jessica Beever, K.W. Allison & John Child 1992. *The Mosses of New Zealand*. University of Otago Press, 224 pp., numerous illustr., ISBN 0-908569-52-1. Price NZ \$ 79.95, excluding postage. To be ordered from McIndoe Publishers, PO Box 694, Dunedin, New Zealand.

This new edition of Allison & Child's "The mosses of New Zealand" (1971) has been completely revised and enlarged by Jessica Beever. It provides descriptions and illustrations of some 75 common species of New Zealand and distinguishing features for another 380, thus covering all moss genera and over 80% of the species of the country. An introduction, a dichotomous key to the species (covering over 40 pages), a synoptic key based on habitat preferences and morphological peculiarities of the taxa, a glossary and a short bibliography are also provided. A striking feature of the book are the photographs, several of them in color (including a spectacular front cover photograph of lush, mossy rain forest). This book is a marvel and seems to fully meet the aims set forth by the authors in the introduction: "to give the reader an insight into the life and structure of these beautiful plants, and to provide the means for learning their names." [S.R.Gr.]

Lars Hedenäs 1992. *Flora of Madeiran Pleurocarpous mosses (Isobryales, Hypnobryales, Hookeariales)*. *Bryophytorum Bibliotheca* 44, 165 pp., 32 figs. Regular price DM 70.-; reduced price for IAB in good standing DM 52.50. To be ordered from the publisher Gebrüder Borntraeger, Johannesstrasse 3A, D-7000 Stuttgart, Germany, FAX 0711-625005.

This new volume of the *Bryophytorum Bibliotheca* provides a first modern treatment of Macaronesian pleurocarps. Based on extensive collecting in the area and study of types, the author was able to recognize 89

pleurocarpous moss species (in 46 genera) in Madeira and neighbouring islets. Keys and detailed descriptions are provided for all the taxa, and illustrations for species not figured in the floras by Smith or Nyholm. A very welcome feature of this flora is the use of italics in the formal descriptions to highlight distinguishing features of the species. This type of format is not commonly applied in bryological descriptions, in spite of the fact that its usefulness has been amply demonstrated, e.g. by Dixon and Schuster in their well-known flora's (but for arguments against its use see Horton, *Beih. Nova Hedwigia* 80: 159. 1982). [S.R.Gr.]

W.R. Buck (ed.) 1992. *Festschrift in honor of Howard A. Crum in celebration of his 70th birthday*. Contributions from the University of Michigan Herbarium Vol 18, 147 pp., ISSN 0091-1860. Price not indicated. To be ordered from the University of Michigan Herbarium, North University Building, Ann Arbor, Michigan 48109-1057, U.S.A.

This *Liber amicorum* honoring one of the leading bryologists of our time, contains 12 articles written by former students and close associates. Core papers are the biographical sketch of Howard Crum (37 p.) written by Lewis Anderson and the *Key to the Moss Genera of North America North of Mexico* by Dale Vitt and Bill Buck (30 p.). Furthermore, there are papers on the palaeobryology of the Arctic (Miller), on the status of *Hypnum plicatulum* (Schofield), *Sphagnum fitzgeraldii* (Anderson), *Lejeunea trigona* (Gradstein), *Chiloscyphus* (Engel) and the new genus *Beeveria* Fife (Fife), a revision of *Ochrobryum* (Allen), and a study on the reproductive biology of *Mielichhoferia mielichhoferiana* (Shaw et al.).

Dr. Vitt has informed me that reprints of the *Key to the Moss Genera of North America* are being sold by the American Bryological and Liche-

nological Society. They are available from the managing editor of The Bryologist, Jerry Snider, Dept. of Biological Sciences, University of Cincinnati, Ohio 45221, U.S.A at the modest price of US \$ 6.- per copy. [S.R.Gr.]

M. O. Hill, S. D. Preston and A. J. E. Smith (eds.) 1992. *Atlas of the Bryophytes of Britain and Ireland, Vol. 2 - Mosses (except Diplolepidaceae)*. Harley Books, 400 pp., 386 maps, hardback only, ISBN 0-946589-30-5. Price £ 30 (£25 for BBS members). To be ordered from Harley Books, Martins, Great Horshesley, Colchester, Essex CO6 4AH, U.K.

Volume 2 of the three-volume *Atlas of the Bryophytes of Britain and Ireland* covers *Sphagnum*, *Andreaea* and the majority of the acrocarpous mosses (Haplollepidae). Distribution maps and notes on habitat, reproductive biology and range are provided for some 350 species native to Britain and Ireland. An introductory chapter, by Dr. Alan Crundwell, outlines problems related to the study and interpretation of the geographical ranges of the species in a broader, European context. The format of the book is similar to that of Volume 1 [see The Bryol. Times 61: 8-9. 1991]. User's of this splendid Atlas will look forward to the appearance of the third, and final volume of the series. [S.R.Gr.]

William D. Reese: Calymperaceae; Noris Salazar Allen: Leucophanaceae. *Flora Neotropica Monographs* 58-59, issued 22 January 1993, 113 pp., numerous illustr., ISBN 0-89327-372-4. Regular price US \$ 17.50 excluding postage; special price US \$ 14.00 for members of the Organization for Flora Neotropica. To be ordered from the Scientific Publications Department, New York Botanical Garden, Bronx, N.Y. 10458-5126, U.S.A., FAX 212-220-6504.

This new volume of *Flora Neotro-*

pica treats the important moss family Calymperaceae and the closely related Leucophanaceae. The Calymperaceae are represented in the neotropics by 46 species: 16 in the genus *Calymperes* and 30 in *Syrrhopodon*. The typical habitat for the species is moist forest at low to moderate elevations. The majority of the taxa are endemic to the neotropics and several have very narrow ranges. The treatment of the neotropical Leucophanaceae recognizes only one species, *L. molleri*, which is widely distributed in rain forests at low elevations. For those working on neotropical mosses these treatments will be indispensable. As compared to previous *Flora Neotropica* monographs, the price of this volume is a bargain. [S.R.Gr.]

C. Delgadillo-M. (ed.) 1992. *Proceedings of the III Simposio Latinoamericano de Briología, July 13-17, 1992, México. Tropical Bryology* 6: 33-204, ISSN 0935-5626. Regular price DM 54.-; subscription price DM 36.- (US \$ 25), for subscribers from tropical countries DM 18.- (US \$ 12.50). To be ordered from the publisher Dr. J.-P. Frahm, University of Duisburg, Botany, P.O. Box 101503, 4100 Duisburg, Germany.

This volume of *Tropical Bryology* contains the scientific papers presented at the 3rd Symposium of the Sociedad Latinoamericana Briology, held at the Universidad Autónoma de México in the summer of 1982. The 20 articles are dealing with a variety of subjects related to neotropical bryology: a checklist of the bryophytes of Chiapas (Bourrell) and a preliminary list for Venezuela (Moreno), air pollution in Mexico city and its effect on the epiphytic mosses of the region (Durán et al.), a status report on endangered rain forest bryophytes (Gradstein), a cladistic analysis of the family Anomodontaceae (Granzow), revisions of neotropical *Isopterygium* (Ireland) and *Octoblepharum* (Salazar), the identity of *Aphanolejeunea heterophylla* (Morales), phenology of

Marchantia chenopoda (Moyá), bryophytes as a source of anticancer agents (Spjut et al.), and the ecology of bryophyte communities on rotten logs in Puerto Rican rain forest (Sastre). Furthermore, there are brief reports on teaching programmes, herbaria, flora projects, databasing and the status of local knowledge of bryophytes, e.g. in Mexico, Cuba and Venezuela.

It is perhaps worth mentioning that these proceedings appeared in the same year of the conference, within 5 months after the event! In bryology this seems to be a record and the editor and organizer of the event, Dr. Claudio Delgadillo is to be congratulated with this achievement. [S.R.Gr.]

Best Buys in Books

The Icelandic moss flora is currently being treated in a series of fascicles written by Bergthor Johannsson and published between 1989 and the present by the Icelandic Museum of Natural History. Currently, eight fascicles are printed, covering Sphagnales, Polytrichales, Andreaeales, Funariales, Haplollepidae, Buxbaumiales, Encalyptales, Orthotrichales and Leucodontales.

These treatments, entitled *Islenskir mosar; Fjölrit Náttúrufræðistofnunar* no. 12, 13, 15, 16, 19, 20, 21 and 22; are in Icelandic with well drawn illustrations and detailed distribution within Iceland. There is a summary in English ending each fascicle. In all, the eight fascicles contain 656 pages and treat 187 species.

My cost for a set was \$84.50 US minus 20%, plus \$18 postage totaling \$85.60 US. This reasonably priced flora is well done and should be on the book shelves of all bryologists.

Order from Icelandic Museum of Natural History, P.O. Box 5320, IS-125 Reykjavik, Iceland.

Dale H. Vitt

Advances in Bryology, Volume 5

Advances in Bryology, Volume 5, will have the theme "Biology of *Sphagnum*" and is edited by Norton G. Miller (New York State Museum). The papers of the volume have now been sent to the publisher and the volume is scheduled to appear during the second half of 1993. The contents will be as follows:

Editor's Preface

Sphagnum - A Mossy Story, by Hugo Sjörs

Progress Toward Understanding *Sphagnum* Section *Sphagnum* in Brazil, by Howard Crum

Phenotypic and Genotypic Variation in *Sphagnum*, by R. E. Daniels

Cytogenetics of *Sphagnum*, by M. E. Newton

Nitrogen Metabolism of *Sphagnum*, by Hansjörg Rudolph, Jan Hohlfeld, Sven Jacobowski, Petra von der Lage, Hannes Matlok, and Hanna Schmidt

Ion Behavior in *Sphagnum* Cell Walls, by Jack Dainty and Conrad Richter

Experimental Studies of Protonemal Morphogenesis in *Sphagnum*: The Role of Growth Regulators and the Cytoskeleton, Jamie A. Goode, Anthony D. Stead, and Jeffrey G. Duckett

Mechanisms of Interactions Among *Sphagnum* Species Along Water Level Gradients, by Håkan Rydin

Distribution of *Sphagnum* Species, Communities, and Habitats in Relation to Climate, by L. Dennis Gignac

Mineral Nutrients in Vegetation and Surface Layers of *Sphagnum*-Dominated, Peat-Forming Systems, by Nils Malmer

Decay and its Regulation in *Sphagnum* Peatlands, by Loretta C. Johnson and Antoni W. H. Damman

Sphagnum Species and Polluted Environments, Past and Future, J. A.

Lee, A. N. Parsons, and R. Baxter Peat and People: A Review, by R. G. Turner

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Acknowledgments

Norton G. Miller, Biological Survey, New York State Museum, Albany, NY 12230, U.S.A.

New Bryological Working Group in Italy

The Bryological Working Group of the Italian Botanical Society was started on the 7th of December 1992.

The main aim of this Working Group is to stimulate and coordinate the bryological research in Italy. To promote studies of floristically and chorologically less well known regions in Italy, scientific meetings, courses treating taxonomically difficult groups and excursions will be organized.

The coordinator of the Bryological Working Group is Prof. C. Cortini Pedrotti, and the secretary is Dr. M. Aleffi. Both are working at Department of Botany and Ecology, Camerino University, Via Pontoni, 5, 62032 Camerino, Italy.

Obituary

Elva Lawton died February 3, 1993, at the age of 96, in Seattle, Washington. She retired from Hunter College in New York in 1959 after teaching 31 years and moved to Seattle, where she assumed a Research Associate position in the Herbarium of the Department of Botany at the University of Washington. She collected and studied mosses from western North America, and between 1962-1971 she received grants from NSF to produce a regional moss flora. The comprehensive flora was published in 1971. In addition to this, she published 25 articles, of which 23 were on mosses. Most of these were written in the 34 years that she was associated

with the University of Washington. She was able to work at the Herbarium nearly every day well into her 90's. I have prepared a biography of her life including a list of publications.

Melinda Denton

IAL Symposium on Foliicolous Lichens/Cryptogams

A symposium organized by the International Association of Lichenologists, dealing with foliicolous cryptogams is planned to take place in Hungary during spring or summer 1995. Anyone interested in further details should contact Edit Farkas, Institute of Ecology and Botany, Hungarian Academy of Sciences, Vácrátót, H-2163, Hungary (Fax: 36 27 60 110).

Origin and Evolution of the Flora of the Monsoon Tropics

An Australian Systematic Botanical Society Symposium on the Origin and Evolution of the Flora of the Monsoon Tropics will be held 4-6 July 1994 at Lake Tinaroo Recreation Camp on the Atherto Tablelands, North Queensland, Australia. The Australian bryological study group plans to hold a workshop in association with this symposium and a session on cryptogamic botany will be included in the general symposium program. A number of short excursions will be made to a range of bryophyte habitats.

For further information contact: John Clarkson, Queensland Herbarium, Mareeba Office, P.O.Box 1054, Mareeba, Q 4880, Australia or Betsy Jackes, Botany Department, James Cook University, Townsville, Q 4811, Australia (E-mail:jackes@jcu.edu.au).

**ERASMUS - TROPICAL BIOLOGY INTENSIVE COURSE
TROPICAL BRYOLOGY**

Department of Botany, University of Helsinki, October 11.-23.1993

Purpose

The aim of the course is to provide the students with the knowledge of the research carried on with the systematics, phytogeography and ecology of tropical bryophytes, and on the methods in field and laboratory, as well as the basic ability to identify some of the most common tropical bryophytes in the laboratory.

Scope

The lectures will (1) review the present stage of the bryological exploration in tropical areas, (2) discuss the methods of field research, herbarium taxonomy and identification (3) summarize the phytogeographical aspects of tropical bryofloras, and (4) pay special attention to ecological impact of bryophyte biomass in the catchment areas of tropical mountains. The practicals will teach the students (1) to identify by eye and under dissecting microscope the major groups (families, some common genera) of tropical bryophytes, (2) to use the pertinent literature (indexes, checklists, floras, revisions, monographs) to identify a specimen from any tropical area, and (3) to use the herbarium specimens and facilities to support the identification.

Basement

The course begins on October 11, 1993 at 8 a.m. in Department of Botany, and ends on October 23. The Cryptogamic Herbarium of the Botanical Museum is the major base for the course. There will be an excursion to Lammi Biological station where students present their own research topics.

Transportation

The students travel to Helsinki and in Helsinki by their own expence. The travel expences to Lammi Biological Station are included in the course fee.

Teachers

A. M. Cleef, J. Enroth, J.-P. Frahm, R. S. Gradstein, J. Hyvönen, A. Koponen, T. Koponen, J. Lewinsky, A. Mäkinen, D. H. Norris, P. Pakarinen, S. Piippo, T. Pócs, J. Vána, D. H. Vitt

Teaching language

English

Costs

There are no charges of teaching. The course fee is FIM 180,- and includes lodging and the excursion to Lammi Biological Station (transport, full quartering). Lodging (FIM 1100,-), meals, transport and other expences in Helsinki the students have to pay by themselves. These other costs are approximately FIM 2000,-.

Credits

Total of 3 credits is possible to achieve: 40 to 60 hours of practicals and 40 hours of lectures, including exam, 2 credits; essay paper and/or oral presentation, 1 credit.

More detailed information from:

Prof. Timo Koponen, University of Helsinki, Department of Botany, P.O. Box 7, SF-00014 University of Helsinki, Finland (fax 358-0-1918656)

Personal News

Dr. Douglas R. Smith has retired from his position as professor at the University of Guam and has now returned to his place of birth, St. Louis. During the last years he worked with Environmental Impact Assessments for projects mostly in the Republic of Belau (Pelau) and Guam. Dr. Smith will continue to work with his many collections from the Western Pacific, especially from the Mariana Islands, where he has visited all islands of the island group. He is planning to publish several papers on the Micronesian moss flora, especially that of Pagan Island, north of Saipan, where a *Campylopus* species which may occur elsewhere only in Hawaii was found (in the cauldron of Mt. Pagan, before it erupted some years ago).

Dr. Smith would like to caution herbaria receiving exchange material from Herbarium GUAM to carefully fumigate all packages they receive, to reduce the importation of insects and other vermin.

The present address of Dr. Smith is: 10930 Saint Henry Lane, St. Louis, MO 63074-2440, U.S.A. (Fax: 314-428-4829).

Dr. Ludwig Meinunger, Steinnach/Thüringen, Germany, was awarded with the first "Fritz-Koppe-Preis" [see elsewhere in this issue of *The Bryological Times*], on the 30th November, 1992. Dr. Meinunger got the award, DM 5000,-, for his important contributions to the knowledge about the bryophyte flora of Thüringen. He has also contributed considerably to the knowledge of the bryophytes in the other parts of the earlier German Democratic Republic.

Professor Zen Iwatsuki will be retiring from Hiroshima University on 31 March 1993. From 1 April 1993, his address will be: Dr. Zen Iwatsuki, The Hattori Botanical Laboratory, Okazaki Branch, 10-3 Mutsuna-shinmachi, Okazaki-shi, Aichi-ken 444, Japan.

Announcement

Etablierung der Fritz-Koppe-Stiftung zur Förderung der Bryologie

Dr. Fritz Koppe, einer der herausragenden mitteleuropäischen Bryologen, trug im Laufe seines Lebens ein umfangreiches Herbar an Laub- und Lebermoose zusammen. Dieses Herbar umfaßt neben den von Fritz Koppe selbst stammenden Aufsammlungen aus mehreren europäischen Ländern zahlreichen Belege von in- und ausländischen Fachkollegen, mit denen Kopp Kontakt hatte. Vor seinem Tod im Jahre 1981 überließ Dr. Fritz Koppe sein Herbar Herrn Prof. R. Düll zur Nutzung und Aufbewahrung.

Im Verlauf von Diskussionen zwischen den beiden Verfassern über den weiteren Verbleib des Herbars wurde die Idee geboren, das Fritz Koppe-Herbar an eine geeignete Institution zu verkaufen und den Erlös in eine Stiftung einzubringen, die als Ziel die Förderung der Bryologie habe sollte. Die Realisierung dieser Idee konnte 1991 mit dem Verkauf des Herbars an das Staatliche Museum für Naturkunde Stuttgart, das eine optimale Unterbringung gewährleistete, in Angriff genommen werden.

Nach Formulierung und Überarbeitung mehrerer Versionen der Satzung wurde die endgültige Fassung dem Finanzamt und Regierungspräsidium Stuttgart vorgelegt und von diesen Behörden am 01.12.1992 genehmigt und somit die Stiftung als gemeinnützig anerkannt.

Die Stiftung ermöglicht die Vergabe des "Fritz-Koppe-Preises" für hervorragende Leistungen im Bereich der Bryologie in Höhe von insgesamt mindestens DM 5000,-. Der Preis wird aus den Zinsen finanziert und in den Regel jährlich vergeben. Mit ihm sollen bevorzugt geobotanische, floristische, aber auch systematisch-taxonomische und andere bryologische Arbeiten ausgezeichnet werden. Die Preise sollen an besonders verdiente nebenberuflich tätige Bryologen insbesondere im deutschsprachigen Raum vergeben werden. Die Preisverleihung soll jeweils zum Geburtstag von Fritz Koppe, am 30.11., verkündet werden.

Um der laufenden Geldentwertung Rechnung zu tragen und die Preissumme im Laufe der Jahre entsprechend aufstocken zu können, wäre eine Erhöhung des ständigen Stammkapitals wünschenswert. Daher bitten wir um Spenden auf das Konto der Fritz-Koppe Stiftung: Raiffeisenbank eG Bad Münstereifel, BLZ 37069337, Sparkonto Nr. 3004953419. Spendenbescheinigungen für das Finanzamt können auf Wunsch ausgestellt werden.

Der Fritz-Koppe-Preis wurde erstmalig im Jahr 1992 anlässlich des 96. Geburtstages von Dr. Koppe vergeben. [See elsewhere in this issue of *The Bryological Times*, eds. comm.].

Prof. Dr. R. Düll
Universität-GH-Duisburg
FB 6, Botanik, Lotharstr. 1-21
4100 Duisburg 1
Deutschland

Dr. V. Wirth
Naturkundemuseum
Rosenstein
7000 Stuttgart 1
Deutschland

Ulrike H. Seifert is preparing her dissertation on Central African Leucobryaceae. Seifert is studying the taxonomic, phytogeographic and physiological aspects of this family. She would welcome collaboration with researchers working in the same field.

The address of Ulrike H. Seifert is: Institute of Systematic Botany and Plant Geography of the Freien Universität Berlin, Altensteinstrasse 6, D-1000 Berlin 33 (Dahlem), Germany.

W. Frey

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Sandra Regina Visnadi, student of Daniel Moreira Vital, has now got a permanent position in bryology in the Botanical Garden of São Paulo-SP, Brasil, since November 1992.

In March 1993, she also successfully defended her Master thesis on the "Meteoriaceae of the Atlantic rain forest of the São Paulo state, Brasil" at the "Júlio Mesquita Filho" Paulista State University.

(Information from D. M. Vital, Instituto de Botânica, Caixa Postal 4005, CEP, 01061-970 São Paulo-SP, Brasil)

Accommodation at the XV International Botanical Congress, Tokyo

A limited number of very reasonable accommodations (rooms) are available during the XV Botanical Congress in Tokyo. Any bryologists interested in such accommodations should contact, as soon as possible, Dr. Naoki Nishimura, Hiruzen Research Institute, Okayama University of Science, Kawakami-son, Maniwagun, Okayama-ken 717-06, Japan (Phone: 86766-3642; Fax: 86766-3684).

Celebrating Richard Spruce

Richard Spruce (1817-1893) is the theme of two meetings. The first is the Annual General Meeting and Symposium Meeting of The British Bryological Society in Ripon, UK, 17-19 September 1993. The second is the Annual Regional Meeting of The Linnean Society of London in York, UK, 20-22 September 1993. Richard Spruce, native of Yorkshire, is most famous for his studies in South Ame-

rica, where he studied both bryophytes and other plants for about 15 years. Anyone interested in participating in the above meetings should contact the organizers as soon as possible. For the BBS meeting: Mike Longman, 8 St Quentin Rise, Bradway, Sheffield S17 4PR, United Kingdom. For the mee-

ting of The Linnean Society of London: Prof. M.R.D. Seaward, Department of Environmental Sciences, University of Bradford, Bradford BD7 1DP, United Kingdom.

DIARY (contd.)

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September 21-24. X National Symposium of Cryptogamic Botany to be held in La Laguna, Canary Islands, Spain. Further information from Secretaria, Dpto. de Biología, Facultad de Farmacia, Universidad de La Laguna, 38271 La Laguna (Tenerife), Espana. Fax 922/630095

September 24-26. Eighth annual Blomquist Bryological Foray at Roan Mountain, Tennessee/North Carolina. Habitats on the mountain range from mixed hardwood to high elevation spruce/fir forests. The entire area supports a rich bryoflora, with several disjunct populations in the higher elevations. Further information from Karen S. Renzaglia, Biological Sciences, Box 70703, East Tennessee State University, Johnson City, TN 37614. Telephone (615) 929-6931; Fax (615) 929-5958.

1994

July 4-11. Australian Bryological Society Conference on "Australian Tropics". Lake Tinaroo (Atherton Tableland west of Cairns). Further information from Elisabeth Brown or Helen Ramsay, Nat. Herb. of New South Wales, Royal Botanical Gardens, Sydney N. S. W., Australia 2000. Fax (61) (02) 251 4403.

September 4-9. International Symposium: Endangered Bryophytes II, together with the meeting of the European Committee of Conservation of Bryophytes. Zürich. For information contact: E. Urmi, Inst. für Systematische Botanik, Zollikerstr. 107, CH-8008 Zürich. Phone: (41)1/385.44.41. Fax: (41) 1 385 42 04.

October 2-8. VI Congreso Latinoamericano de Botanica to be held at Mar del Plata, Argentina. Further information from Celina M. Matteri, Museo Arg. Cs. Nat. B. Rivadavia, Av Angel Gallardo 470, C.C. 220, 1405 Buenos Aires, Argentina. Fax: (54) 1 9824494.

1995

Summer 1995. IAL Symposium on Folicolous Lichens/Cryptogams. Information from Edit Farkas, Institute of Ecology and Botany, Hungarian Academy of Sciences, H-2163 Vácraót, Hungary. Fax. 36 27 60 110.

Deadlines for material to the Bryol. Times will be January 15, March 15, May 15, July 15, September 15 and November 15 with the publication shortly afterwards. Shorter notes may be accepted later if there is still space for it.

COLOPHON

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Items for publication in *The Bryological Times* are to be sent to the Editors (preferably LH), except for those for the regular columns, which may go direct to the column editors.

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DIARY

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1993

June 11-13. SVBL Annual Meeting, Delémont, Jura. Escursions and paper reading. For information contact: P. Clerc, Conservatoire botanique, C. P. 60, CH-1292 Chambésy/Genève. Phone: (41)22/732.69.69. Fax: (41)22/738.45.97. Email CLERC@CJB.UNIGE.CH.

June 16-21. Nordic Bryological Society Annual Meeting and Excursion. To be held on the island of Gotland, Sweden. Further information from Lars Hedenäs, Naturhistoriska Riksmuseet, Kryptogambotanik, Box 50007, S-10405 Stockholm, Sweden.

July 2-4. NISM (Bryophyte Inventory Programme) Zürich. Taxonomic workshop on the *Calliergon-Scorpidium-Drepanocladus* complex, with Lars Hedenäs, Stockholm. For information contact: E. Urmi, Institut für Systematische Botanik, Zollikerstr. 107, CH-8008 Zürich. Phone: (41)1/385.44.41. Fax: (41)1/385.42.04.

July 28-August 4. BBS Summer meeting at Dumfries and Galloway. Further information from Alexander Rowan, 1 Robertson Avenue, Dumfries DG1 4EY, U.K. Telephone and Fax 0387 63051.

August 8-17. Nordisk Forskarkurs: NorFa Researcher Network of Nordic Bryologist's Course on the Taxonomy and Ecology of Nordic Peatland Bryophytes. Course will begin in Helsinki and end at Trondheim. Further information from Timo Koponen, Department of Botany, P.O. Box 7, SF-00014 University of Helsinki, Finland. Fax 358-0-1918656.

August 25-29. SVBL Annual Field Course. Piora - Leventina (upper Tessin valley, Central Alps). For information contact: E. Urmi, Institut für Systematische Botanik, Zollikerstr. 107, CH-8008 Zürich. Phone: (41)1/385.44.41. Fax: (41)1/385.42.04.

August 28-September 3. XV International Botanical Congress, including IAB General meeting. Tokyo, Japan. Further information from Zennoske Iwatsuki, Botanical Institute, Hiroshima University, Higashi-senda-machi, Japan.

September 17-19. Annual General Meeting and Symposium of BBS at Ripon. Special theme is 100th anniversary of the death of Richard Spruce, a 19th century bryologist who is known for his collections and studies in South America. Cost approximately £38 per day (full board). Further information from Mike Longman, 8 St. Quentin Rise, Bradway, Sheffield S17 4PR, U.K. Telephone 0742 368010.

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For details regarding membership of the *International Association of Bryologists* (currently US \$ 10.- per year) write to Dale H. Vitt, Department of Botany, University of Alberta, Edmonton, Alberta, Canada T6G 2E9. All correspondence concerning mailing to Mrs. Sandi Vitt at the same address.