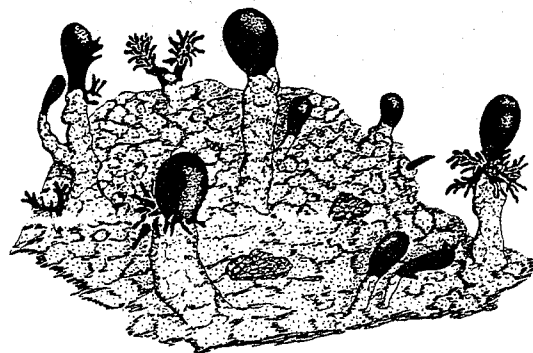


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The opinions expressed in the Newsletter are not necessarily those held by the
International Association for Lichenology.

The International Lichenological Newsletter is the official organ of the International Association for Lichenology (IAL). It is published three times a year in English with selected items in French, German or Spanish. Information and news intended for publication should reach the editor at least one month prior to scheduled production (February, June and October of each year).

IAL membership is open to anyone who has an active interest in the study and use of lichens. The subscription is US \$ 20.00 or S.Fr. 32.00 for the six-year period between successive International Botanical Congresses. Subscriptions should be sent to the Treasurer or Deputy Treasurer:

Robert S. Egan, Dept. of Biology, University of Nebraska, Omaha, NE 68182-0040, USA. Cheques should be made out for US dollars, drawn on a US bank, otherwise it will cost the IAL US \$ 27 for each cheque!

Rosmarie Honegger, Inst. für Pflanzenbiologie und Cytologie, Zollikerstrasse 107, CH-8008 Zürich, Schweiz. In this case please pay S.Fr. 32.00 to the following bank account: Schweizerischer Bankverein (Swiss Bank Corporation, Société de Banque Suisse), Filiale Albsriederplatz, 8040 Zürich, Switzerland, Account Nr. PI-560.486.0 in the name of IAL/Honegger. Those who wish to use the Postal Giro-service may use the Postal Account number of the Bank: 80-206-1.

IAL affairs are directed by an Executive Council of thirteen members elected during the last International Botanical Congress. Council members elected at the 14th Congress (Berlin, Western Germany, 1987) are listed below and will serve until the 15th Congress (Tokyo, 1993).

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IAL COMMITTEES

Lichen Conservation Committee

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Lichen Terminology Committee

Chairperson: Vernon Ahmadjian, Department of Biology, Clark University, Worcester, Massachusetts 01610, USA

RESEARCH NEWS & NOTES

Almborn, Ove (Lund, Sweden). His paper "Revision of the lichen genus *Teloschistes* in central and southern Africa" has been accepted for publication in the Nordic Journal of Botany (end of 1988). He is preparing a continuation of his exsiccata "Lichenes Africani".

Arup, Ulf (Lund, Sweden) has recently begun a revisionary study (for a Ph. D.) on the marine species of *Caloplaca* occurring in North America. He will concentrate on the west coast but both the east coast as well as the Great Lakes will be included. Arup has also a general interest in the genus *Caloplaca*. He would be grateful to receive any material of marine species as gift or loan. Address: Botanical Museum, Ö. Vallgatan 18, S-223 61 Lund, Sweden.

Brako, Lois (Beltsville, USA) completed her doctoral studies on the genus *Phyllopsora* in October, 1987. She is currently employed as a post-doc at the National Fungus Collections (BPI) of the USDA, BARC-WEST, Building 011A, Beltsville, Maryland 20705, USA. Lois would like to receive loans of any additional material of *Phyllopsora* on a worldwide basis to continue her study of this interesting genus. Loans may be sent c/o The Director, BPI.

Clerc, Philippe (Berne, Switzerland) has received a postgraduate fellowship from the Swiss National Foundation. He will spend a year at Duke University (North Carolina, USA) with C. & W. Culberson, where he will study new methods in the field of lichen systematics. From August 1988 to August 1989 his new address will be: Department of Botany, Duke University, Durham NC 27706, USA. He will join the IAL field meeting in Baja California at the end of the year. He is furthermore continuing his studies on the systematics of the genus *Usnea* in Europe and Macaronesia.

Ekman, Stefan (Lund, Sweden) has begun a taxonomic revision (for a Ph. D.) on the corticolous species of *Bacidia* occurring in North America. He will also try to delimit taxa

at the generic level within *Bacidia* s. lat. Stefan will be pleased to receive fresh collections (gift or loan) of *Bacidia*. He would also like to get in touch with anyone interested in the same subject. Contact: Botanical Museum, Ö. Vallgatan 18, S-223 61 Lund, Sweden.

Grundlehner, Sibylle (Lausanne, Switzerland) has started a Ph.D. thesis on the systematics of Neotropical *Usnea*. At the end of this year she will spend two months in South America to collect *Usnea*.

Fröberg, Lars (Lund, Sweden) will soon complete his Ph. D. thesis concerning calcicolous lichens on the island of Öland, Sweden. It will include descriptions of the species and their habitats, with special emphasis on some taxonomically difficult groups, such as the *Verrucaria fuscella*-group, *V. sphinctrina*-group (= *Bagliettoa*), *Aspicilia calcarea*-group and *Lecanora dispersa*-group. Some synecological analyses are also made.

Lönn, Kristina (Uppsala, Sweden) has started a methodological study of spore-size variation in *Sphaerophorus globosus*. She will deal with variation within samples, within populations as well as between samples from widely separated populations. She would therefore welcome on loan specimens of fruiting *Sphaerophorus globosus* from all over the world. Specimens can be sent to Dr. R. Moberg, Director of the Herbarium, P.O. Box 541, S-75121 Uppsala, Sweden.

Marcelli, Marcelo Pinto (Sao Paulo, Brazil) finished his thesis on the ecology and distribution of mangrove lichens in the Southeast of Brazil. Publication will follow soon. He continues his investigations of the foliose lichen flora in the coastal areas of São Paulo State, where habitats include mangroves, restinga and rocky shores.

Sérusiaux, Emmanuël (Liège, Belgium) has been appointed as Senior Assistant of the "Fonds National de la Recherche Scientifique", resuming his lichenological studies in February 1988.

Stubbs, Constance S. (Orono, Maine, USA) received her Master of Science degree in 1987 for a thesis on Corticolous Lichen Ecology: Distribution Patterns and Lichen-Inverte-

brate Associations. Present research includes investigating lichen-invertebrate interactions for her doctorate and collaborating on an interdisciplinary investigation of coastal red spruce (*Picea rubens*) decline, supported by a Mellon Foundation grant to forest biologist Richard Jagels (University of Maine). She is assessing red spruce lichen assemblage distribution patterns and health along an acid fog and ozone gradient.

Wirth, Volkmar (Stuttgart, West Germany) finished a provisional lichen mapping scheme for Baden-Württemberg. As part of an interdisciplinary research project on forest damage in Southwest Germany he has made lichenological observations in permanent plots, which should enable a registration of quantitative changes in the lichen flora. Together with Tom Nash he is preparing a series of publications on "Assessing Air Quality with Lichens and Bryophytes". He was a guest at the field meeting of the Nordisk Lichenologisk Forening to Bornholm. He has been nominated for a professorship (C 4) in Geobotany and Ecology at Frankfurt University, and is preparing a second edition of his "Flechtenflora". Suggestions for improvement and corrections are very welcome.

Sonoran Desert Field Meeting 27 Dec., 1988 to 12 Jan., 1989

Those interested to participate in this meeting (announced in ILN 21(1): 18-19, where a tentative schedule is given) should send reservations using a photocopy of the form below together with \$100.00 deposit (or payment in full) to:

Dr. T.H. Nash III, Dept. of Botany, Arizona State University,
Tempe, AZ 85287-1601, USA
by Oct. 1, 1988.

Full payment in US dollars will be due by no later than Dec. 1, 1988. Payment should be made to Arizona State University.

Name _____

Address _____

Place an "x" by your choice:

Single room occupancy(\$750.00) _____

Double room occupancy(\$530.00) _____

Four people per room(\$450.00) _____

Roommate preference _____

Will join Dec.27 - Jan.12 ____; only Dec.27 - Jan.5 ____

Prices are based on per person. Please submit one form for each person registering. Prices include overnight accommodations (Dec. 27 thru Jan. 4th), ground transportation (Dec. 28-Jan. 12 for approximately 4500 km, Phoenix to Baja California and return to either San Diego or Phoenix), and meals (most days) that are cooked together. In addition, each person should bring approximately \$100 to pay for meals in public restaurants.

People departing on Jan. 5th will be placed on a bus in San Quintin to the border in Tijuana where they can cross the border and take public transportation to San Diego's airport.

People participating on the Jan. 5th to 12th portion of the trip

are expected to bring 1) a sleeping bag and ground mat, 2) a plate, cup and utensils, and 3) portable tents (please advise me if you have a tent and are willing to share; likewise, please advise me if you would need space in a tent).

Weather: It is the rainy season and last year southern Arizona had a rare snow at Christmas, but most days should be fair with high temperatures in the 10° to 15° range in Arizona and somewhat higher in Central Baja California.

X Congress of European Mycologists

The 10th Congress of European Mycologists will be held at Tallinn (Estonian SSR, USSR) from 20 to 25 August 1989. The preliminary programme contains lectures and symposia, and most presentations are scheduled as posters, with ample time for discussion. The themes of the symposia will be: Protection of fungi - environment protection; "Higher" fungi in biotechnology; Taxonomy of *Agaricales*; Personal computers in mycology. Before and after the congress, field meetings will show the forests of South and West Estonia. No special lichen programme is scheduled. Address for correspondence: Organizing Committee, 10 CEM, Institute of Zoology and Botany, 21 Vanemuise Str., 202400 Tartu, Estonian SSR, USSR.

The Lichenologist

Dr. D.H. Brown has recently become co-editor of The Lichenologist dealing with all aspects of the processing of manuscripts. In future all authors should send their manuscripts to him at the following address:

Dr. D.H. Brown,
Department of Botany,
The University,
Woodland Road,
Bristol BS8 1UG,
UK

Although The Lichenologist is published by The British Lichen Society, potential authors are reminded that its scope is international. Papers and short notes of high quality can be submitted for consideration from anywhere in the world on any

aspect of lichenology. While some articles of primarily British interest are published, authors from other countries should submit items with international rather than purely local significance. Articles have been published from approximately thirty countries so far. Even if authors usually publish in other journals, they may find publication in *The Lichenologist* reaches a different audience and increases their circle of contacts.

Authors are reminded that they should submit duplicate copies of their manuscripts, double spaced and with wide margins, with journal titles written in full. Authors should conform to the current presentational style of the journal and are advised to check a recent issue before submitting manuscripts. A style manual is being produced, which will be available from Dr. Brown, in order to simplify the work of authors, editors and publishers.

New Journal: Symbiosis

Symbiosis. An International Journal, publishes results of original research contributing to the understanding of symbiotic interactions at the molecular, cellular and organismic levels. Symbiosis aims to introduce new or unknown symbioses for research in symbiology and intends to provide a central information point for this intriguing subfield to enhance interaction among researchers in its various sectors.

Topics of particular interest are: nutritional interactions, mutual regulatory and morphogenic effects, structural coadaptations, interspecific recognition and specificity, ecological adaptations, evolutionary consequences of symbiosis, culture and other specific methods used for symbiotic research.

Symbiosis publishes articles which are accounts of original studies, review articles, book reviews and a calendar of events. Publication of refereed Proceedings of relevant meetings will also be considered.

Editor-in-Chief: Margalith Galun, Department of Botany, The Dr. George S. Wise Faculty of Life Sciences, Tel Aviv University, Ramat Aviv, Tel Aviv 69978, Israel. Tel. 972-3-420163. Telex 341167 VERSY IL, BITNET EEEM@TAUNOS.

IAS Software Library also available for Lichenologists

The INTERNATIONAL ASSOCIATION OF BRYOLOGISTS has built up a software library for IBM PCs and compatibles which contains at present 110 diskettes. It includes programs for all applications needed by botanists such as word processors, database programs, herbarium management programs, herbarium label programs, statistics (Cladistics, Multivariate Analyses, Cluster Analyses), CAD and paint programs, desktop or bibliographic utilities. All programs are in the public domain or have been placed at the disposal for colleagues and may be copied free. They are available free by sending the appropriate number of blank diskettes. A list of the software library can be ordered from Dr. Jan-Peter Frahm, Universität Duisburg, Fachbereich 6, Botanik, Postfach 101629, D-4100 Duisburg, F.R.G.

---J.-P. Frahm

A Revision of *Sphaerophorus* - Project Presentation

The genus *Sphaerophorus* is principally south-hemispherical and comprises about 25-30 species. Some of the species are morphologically very plastic and the genus as a whole has a complex, and to some extent uninvestigated, chemistry. The genus was revised by K. Ohlson in 1974, but his thesis is still unpublished, and there are also some undescribed species not treated in it.

As a research project for a PhD thesis the morphological and chemical variation will be investigated within and between populations of some species with different degrees of disjunct distribution and with different reproduction strategies. The project aims at a better understanding of these variation patterns and in this way hopes to contribute to a better classification.

The research will include intensive field studies. A two month trip to southern Chile together with Dr. Leif Tibell, my supervisor, is planned for January-February 1989. Later on, a field trip to New Zealand-Australia will be made.

Along with this thesis work, preparation of a monograph on the genus is also scheduled.

I would appreciate receiving (preferably fertile) material of *Sphaerophorus* for study and revision. For the time being, material from Patagonia is particularly welcome, but also other material that

could be of interest! Specimens on loan can be sent to Dr. R. Moberg, Director of the Herbarium, P.O. Box 541, S-75121 Uppsala, Sweden.

---Mats Wedin

Reports from the International Botanical Congress XIV: 27 Lichenologists in Sardinia

The "Pre-congress Field Trip No. 49 to Sardinia (Italy)" attracted an international group of heliophilous and rather thermo-tolerant lichenologists to Cagliari: T. Ahti (Helsinki), A. Aptroot (Heemskerk), E. Barreno (Valencia), I. Brodo (Ottawa), A. Buschardt (Berlin), G. Caniglia (Padova), C. Fauste (Brescia), S.N. Christensen (Copenhagen), M. Codogno (Arcavacate), A. Gerhardt (Bielefeld), M. Grillo (Catania), H.M. Jahns (Düsseldorf), H. Kümmerling (Berlin), T.H. Nash III (Würzburg/Tempe), P.L. Nimis (Trieste), P. McManus (Somerset), A.M. O'Dare (Somerset), S. Ott (Düsseldorf), D. Ottonello (Palermo), J. Poelt (Graz), D. Puntillo (Arcavacate), W. Sanders (Berkeley), C. Scheidegger (Bern), H. Sipman (Berlin), M. Tretiach (Trieste), A. Vezda (Brno) and R. Wendinger (Berlin) took part in this excursion.

Unfortunately, the bus in which we travelled for 10 days was adapted to drive on avenues in towns rather than on the small roads through the mountainous inner part of the island. Nevertheless we travelled, often at a snail's pace, from South to North through the main lichen landscapes of this picturesque Mediterranean scenery.

Firstly, the excursion moved from Pta. Molentis near Cagliari (*Thelenella modesta*) to Giara di Gesturi with a richly developed and colourful lichen vegetation on basaltic rocks (*Caloplaca inconnexa* var. *nesodes*, *C. interna*, *Lecidella vorax*, *Rhizocarpon fraticida*). At Mte. Arcueri and Mte. Arbo, epiphytic lichens were studied on rather well developed remnants of Mediterranean woodland.

Mte. Arbu and Mte. Mandra de Caia at Gennargentu massif displayed the alpine vegetation in all its richness. *Lecanora placentiiformis* and *Cyphelium lecideinum* are two of the exceptional findings from these localities. The collection sites on volcanic rocks at Torre Argentina remain unforgettable because of the easily collectable and rich flora (*Xanthopsorella llimonae*).

In consequence of the typical Mediterranean summer aridity, lichenologists were not overly distracted by the dessicated phanerogams. The fact that more than 300 kg of lichens were sent home illustrates the success of this excursion.

On behalf of all of us I wish to acknowledge the perfect organization of the field-trip as well as the unique guidebook to the excursion (some 269 pages, 901 lichen species mentioned) by Pier Luigi Nimis and Josef Poelt.

---Christoph Scheidegger

Lichen flora project of Great Britain and Ireland

This project, to produce a diagnostic flora for the identification of all 1600 lichen-forming fungi recognised in Great Britain and Ireland, is supported by a research grant from the National Environment Research Council; it is directed by Prof. D.M. Moore (Reading University) and Prof. D.L. Hawksworth (CAB International Mycological Institute) assisted by Mr. P.W. James (BM) and Dr. B.J. Coppins (RBG, Edinburgh). A post-doctoral research assistant, Dr. O.W. Purvis, was appointed in February 1986 on a 3-year contract awarded to the University of Reading in collaboration with the Botany Dept. of the British Museum (Natural History). An advisory group of an additional 8 members of the British Lichen Society has been established to comment on the content and draft contributions as well as to prepare particular accounts; other specialist lichenologists have also agreed to write drafts of particular genera.

In a little over two years, over 1000 species accounts have been prepared, in addition to a generic key and a key to the sterile corticolous lichens. Great emphasis is being placed on the testing of draft keys in the field. A recent workshop, partly funded by the Systematics Association and the British Lichen Society, was held in Ilfracombe, Devon, to enable approximately 30 lichenologists to examine and test drafts of the Flora. It is hoped to publish the Flora in 1990.

Photobiont cultures donated to University of Texas

Professor Vernon Ahmadjian (Clark University, Worcester, USA) deposited the following photobiont cultures in the Culture Collection of Algae at the University of Texas at Austin (UTEX) (c/o Richard C. Starr, Dept. of Botany, University of Texas, Austin, Texas 78713-7640, USA):

a. *Nostoc* photobionts of *Peltigera canina*, *Peltigera rufescens*, and

Peltigera spuria. The isolate from *P. spuria* is similar to *Nostoc edaphicum* while those from *P. canina* and *P. rufescens* belong to the general group of *Nostoc muscorum* according to D. Mollenhauer. The *Nostoc* isolates were used in the study by Koriem, A.M. and V. Ahmadjian, 1986, An ultrastructural study of lichenized and cultured *Nostoc* photobionts of *Peltigera canina*, *Peltigera rufescens*, and *Peltigera spuria*. Endocytobiosis and Cell Research 3: 65-78.

b. *Trebouxia* photobiont isolated from an Antarctic endolithic lichen provided by Imre Friedmann. This photobiont was used in the study by Ahmadjian, V. and J.B. Jacobs, 1987, Studies on the development of synthetic lichens. In: Progress and Problems in Lichenology in the Eighties, Bibl. Lichenol. 25: 47-58, J. Cramer, Berlin-Stuttgart. Readers of the Newsletter are also reminded that UTEX maintains many other photobionts, especially species of *Trebouxia* (*Pseudotrebouxia*), *Coccomyxa*, *Hyalococcus* (*Stichococcus*), *Myrmecia*, and *Trentepohlia*. About 50 species of mycobionts are being maintained by the American Type Culture Collection, 12301 Parklawn Drive, Rockville, Maryland 20852, USA.

---V. Ahmadjian

Kimberley Research Project, Western Australia 1988

The Kimberley region of Western Australia is a wild, sparsely populated area that lies between the Great Sandy Desert in the south and the Timor Sea to the north. It encompasses a great variety of habitats. Among these is one of the most striking areas of limestone terrain and deeply dissected sandstone in the world. This will be the Project's main focus of study.

The Project has been jointly organised by two British learned societies: The Linnean Society of London and the Royal Geographical Society, in co-operation with the Government of Western Australia. The societies have set up a joint project committee under the Chairmanship of Lord Shackleton and patronage of H.R.H. The Duke of Kent. The Project has also established a coordinating committee in Western Australia and appointed an Australian Director of Operations.

In 1988 a team of 40 British and Australian scientists will work together for four months from April to August in this Kimberley area. They will focus on geomorphology (land forms, erosion etc.) and on a number of zoological and botanical studies.

A research base camp, with accommodation for 30, will be constructed with the help of the Australian Defence Force at Police

Camp Pool on the Lennard River, 120 km from the nearest local town of Derby. The scientists' research in the King Leopold and Napier Ranges will be aided by some of the latest satellite images, including those taken from the U.S. Space Shuttle programme. The team will include members of the local Aboriginal community (Bunaba people), who will conduct the scientists through areas of special interest and share their knowledge of the region that spans many generations.

The life scientists will collect basic field data and study plant and animal species which will add to the existing knowledge of flora and fauna of the region. Particular attention will be paid to less well known groups such as the fungi, lichens, snails, crustaceans, insects, and small mammals. Lichenologists taking part in the project are David Galloway, Jack Elix and Nathan Sammy.

Close collaboration between British and Australian scientists and local Aboriginal people, together with the challenge of an exciting and diverse area, will produce significant scientific results and provide a cultural interchange, that will contribute to an expanding knowledge of the Kimberley region - Australia's greatest wilderness area.

---David Galloway

Flora of Australia

In the framework of the above-mentioned project, the study of lichens is being actively supported. In 1988 grants have been provided by the Bureau of Flora and Fauna for the following projects, which should result in taxonomic treatments:

Elix, J.A. & J. Johnston, Australian National University, ACT: A Taxonomic revision of the lichen genus *Pseudoparmelia* s.l. in Australia.

Elix, J.A. & D. Verdon, Australian National University, ACT: A Taxonomic revision of the lichen genus *Leptogium* in Australia.

R.B. Filson (formerly National Herbarium of Victoria): Revision of the lichen genus *Caloplaca* in Australia and New Zealand.

Rogers, R.D. & G.N. Stevens, University of Queensland: Taxonomic revision of the lichen genus *Usnea* in Australia.

News from CHINA

1. In Beijing a Systematic Mycology & Lichenology Laboratory (SMLL) was established on August 12, 1985. It was among the first of the 19 laboratories/institutes open to the outside world, that have been set up by the Academia Sinica. SMLL was founded on the basis of the Department of Mycology, Institute of Microbiology, Academia Sinica. Although it is subordinate to the Institute of Microbiology, it is relatively independent in its research work and conducts its own scientific activities.

SMLL welcomes applications from both Chinese and foreign researchers, in accordance with the "Guidelines for Applying to SMLL for Research Projects" formulated by SMLL. Once the applications have been approved by the Scientific Council, the applicants can research at, and receive funds from, SMLL. Mycologists and lichenologists may also apply for a position in SMLL to participate in a joint project. Foreign researchers can likewise come to work at, and be financially supported by SMLL on a reciprocal exchange basis. Mycologists and lichenologists either at home or abroad, belonging to Academia Sinica or not, who are supported by their own institutions, are also welcome to do their research work in SMLL.

Science Advisors of SMLL are: Prof. Dr. N. Hiratsuka, Member of the Japanese Academy, Japan; Prof. Dr. R. Santesson, Member of the Royal Swedish Academy of Sciences, Sweden.

The Scientific Council of SMLL consists of 15 mycologists and lichenologists from different universities and institutes in China and abroad, including T. Ahti, Professor at the University of Helsinki (Finland) and R.P. Korf, Professor at Cornell University (USA). Director of both SMLL and its Scientific Council is Research Professor Dr. J.C. Wei, invited by the president of Academia Sinica, Professor Lu Jia-xi. Address: Systematic Mycology and Lichenology Laboratory, Institute of Microbiology, Academia Sinica, Beijing, China.

2. A new journal "MYCOSYSTEMA", Annual Report of SMLL, will be published in English with Chinese abstracts. The first fascicle will be issued in April of this year by Science Press (Beijing, China). The first two volumes of it, at least, will be edited by the Co-Editors-in-Chief J.C. Wei (SMLL) and D.L. Hawksworth (CMI).

3. Dr. Syo Kurokawa (Japan) spent two weeks in China in March 1987 as a visitor in SMLL. He talked with Dr. J.C. Wei about

lichenological and mycological cooperation between China (SMLL) and Japan in 1989. He also did revisional work on Chinese *Anaptychia* in the herbarium and gave a lecture during his stay in SMLL. A joint paper together with J.B. Chen from SMLL is in preparation.

4. Dr. Teuvo Ahti (Finland), member of the Scientific Council of SMLL, spent about one month in China from April to May 1987. He attended the Second Congress of this Council in Beijing from May 7 to 9, 1987 and gave two lectures. He also worked for a short time on *Cladonia* in the herbarium and made a lichenological excursion in the suburbs of Beijing. Before the Congress he visited the Mt. Yulongxue shan in north-western Yunnan together with J.B. Chen, lichenologist at SMLL. He and Dr. Wei discussed cooperation between SMLL and University of Helsinki.

5. Dr. D.L. Hawksworth (CMI, UK) attended the Second Congress of the Scientific Council of SMLL as a special invited representative, and gave several lectures. A draft of a Co-operative Agreement between SMLL and CMI was prepared. After the Congress Dr. Hawksworth went to Hangzhou city (Zhejiang prov.) to participate in a mycological workshop and give a series of mycological courses. He made some lichenological excursions together with his students from the workshop in the suburbs of Hangzhou city.

6. Dr. R. Moberg (Sweden) spent about one month in China from September 8 to October 6 1987, together with Dr. R. Santesson, as visitors of SMLL. They made expeditions to the subtropic zone Xishuangbana in Southern Yunnan and the temperate zone Mt. Yulong shan in North-Western Yunnan, together with a mycological and lichenological team from SMLL under the guidance of Dr. J.C. Wei. Dr. Moberg is interested in Chinese *Physciaceae* and will publish a joint paper with Mr. Gao in the future. Dr. R. Santesson is interested in foliicolous lichens and lichenicolous fungi.

7. Dr. R. Santesson (Sweden), Science Adviser of SMLL, visited SMLL in 1987. He gave a lecture, made many valuable comments on the work of SMLL and made some helpful suggestions.

8. Dr. J.C. Wei (China) is continuing his systematic studies on *Umbilicariaceae* in Asia. He will begin with a study of the representatives occurring in Australia.

9. Mr. Xiang-qun Gao (China) defended his M.Sc. thesis, entitled "Macrolichen flora of Mt. Dahingganling in North-Eastern China" under the guidance of Dr. J.C. Wei, in May 1987 at SMLL in Beijing. He is now starting his Ph.D. dissertation on "The lichen genus *Cetraria* in China", under the guidance of Drs. T. Ahti (H), R. Moberg (UPS), and J.C. Wei (SMLL). He will spend about one year in Finland and Sweden in 1989.

10. Mr. Cheng-hua Ma (China) is starting his M.Sc. thesis entitled "Physiological injuries in lichens transplanted to air pollution areas", under the guidance of Dr. J.C. Wei.

--- Jiang-chun Wei

News from the Lichenological section of the Polish Botanical Society

The fifth meeting of the Polish Lichenologists will be held in Pszczew and Gorzów Wielkopolski (district Gorzów Wielkopolski, western Poland) on 12-16 September 1988. The main aim of this meeting will be to work on the lichen flora of the Pszczew Landscape Park. Application to attend should be sent to dr. Ludwik Lipnicki, Laboratory of the Biology and Nature Protection, Estkowskiego 13, 66-400 Gorzów Wielkopolski, Poland. The whole cost of participation, except travelling cost to Poland, is being paid by the organisers.

--- Wieslaw Faltynowicz

Lichenology in Italy

In September 1986, during a course of lichenology organized by Prof. Pier Luigi Nimis at the University of Trieste, the participants decided to found the Italian Lichen Society (Societa Lichenologica Italiana) in order to encourage the development of lichenology in Italy. The Society was officially formed in May 1987 and held its first meeting in Trieste in September 1987, on the occasion of another lichen course. At present, it has ca. 80 members.

The Society Council is as follows:

President: Pier Luigi Nimis (Trieste)

Secretary and Treasurer: Giovanni Caniglia (Padova)

Editor of the Bulletin: Rosanna Piervittori (Torino)

Auditors: Paolo Modenesi (Genova), Giulio Scarpa (Venezia).

The foreign guests who acted as teachers in the first two lichen courses held in Trieste are honorary members of the Society. They are: T. Ahti, P. James, X. Llimona, J. Poelt and A. Vezda.

The main activities of the Society in 1987 were:

- Lichenological excursion in coastal Latium (Spring)
- Second Lichen Course in Trieste (35 participants) and general meeting of the S.L.I. (September)

- Symposium and Course on "Lichens and Air Pollution" in Ferrara (30 participants, October).

In 1988 the Society will organize a lichenological excursion in southern Italy, a Symposium on "Lichens and Monuments" (Rome) and a third Lichen Course (Trieste). The first issue of the Bulletin will appear this year. Two long-term projects have been approved: a) a survey of the Italian lichen herbaria; b) a survey of the literature on lichens in Italy.

Further information is available from the Secretary of the S.L.I. at the following address:

Prof. Giovanni CANIGLIA, Dipartimento di Biologia, Via Orto Botanico 15, I-35123 Padova, Italy.

---Michele Codogno

New Literature

A.J. de BAKKER & H.F. van DOBBEN. Effecten van ammoniakemissie op epifytische korstmossen. Een correlatief onderzoek in de Peel. RIN-rapport 88/35. Rijksinstituut voor Natuurbeheer, Leersum, Netherlands. 1988. 48 pages. (Study on the effect of ammonia emission by intensive animal husbandry on epiphytic lichens, with chemical analyses of bark, and lichen vegetation analyses; 37 species observed; study area lies in the Southeastern part of the Netherlands, and has considerable air pollution; in Dutch.)

D.H. DALBY, D.L. HAWKSWORTH & S.L. JURY (Editors). Horizons in Lichenology. February 1988. 100 pages. Reprinted from the Botanical Journal of the Linnean Society, Volume 96, Nr. 1. Available from Mr. F.S. Dobson, Richmond Publishing Co. Ltd., Orchard Road, Richmond, Surrey TW9 4DP, UK, at £12 (for BLS members £ 9), price including postage and packing. (Contains the proceedings of the symposium with the same name held in London in 1987: D.L. Hawksworth, The variety of fungal-algal symbioses, their evolutionary significance, and the nature of lichens, pages 3-20; H.M. Jahns, The establishment, individuality and growth of lichen thalli, pages 21-29; D.H.S. Richardson, Understanding the pollution sensitivity of lichens, pages 31-43; David J. Galloway, Plate tectonics and the distribution of cool temperate Southern Hemisphere macrolichens, pages 45-55; V. Winchester, An assessment of lichenometry as a method for dating recent stone movements in two stone circles in Cumbria and Oxfordshire, pages

57-68; F. Rose, Phytogeographical and ecological aspects of *Lobarion* communities in Europe, pages 69-79; M.R.D. Seaward, Progress in the study of the lichen flora of the British Isles, pages 81-95)

José Ma. EGEA & Xavier LLIMONA. Las comunidades de líquenes de las rocas silíceas no volcánicas del SE de España. Acta Botanica Barcinonensia 36. 1987. 123 pages. (Describes 21 phytosociological units (associations, subassociations, communities), mainly in the orders *Aspicilietalia gibbosae* and *Umbilicarietalia cylindricae*, from a Mediterranean area between 0 and 200 m elevation, based on 200 relevés and over 200 species)

Eric Steen HANSEN, Josef POELT & Ulrik SØCHTING. Die Flechtengattung Caloplaca in Grönland. Meddelelser om Grönland Bioscience Vol. 25. 1987. 52 pages (Contains keys to and descriptions of 42 species, mainly saxicolous and terricolous)

Néstor H. HLADUN. Aportació a la flora, morfologia i vegetació dels líquens de la part alta del Montseny. Institut d'estudis catalans, arxius de la secció de ciències, LXXX. 1985. (Contains a description of the area and an annotated catalogue with descriptions of 200 species; in Catalan)

Helmut MAYRHOFER. Monographie der Flechtengattung Thelenella. Bibliotheca Lichenologica 26. 1987. 106 pages and 58 photographs. (Worldwide treatment of 17 species, containing descriptions, key, distribution maps)

Willa J. NOBLE, Teuvo AHTI, George F. OTTO & Irwin M. BRODO. A Second Checklist and Bibliography of the Lichens and Allied Fungi of British Columbia. National Museums of Canada, Syllogeus Series No. 61. 1987. 95 pp. National Museums of Canada, National Museum of Natural Science, Ottawa, K1A 0M8, Canada. (Lists 1013 species with synonyms and ca. 300 literature references)

POELT, J. & D. SCHWEIZER (Editors). Plant Systematics and Evolution. Volume 158. Nr. 2-4. Dedicated to Elisabeth Tschermak-Woess on the Occasion of Her 70th Birthday. 1988. (Contains biographical accounts and a bibliography of Prof. Tschermak-Woess, and 8 lichenological articles: G. Gärtner & E. Ingolic, Zur Morphologie und Systematik des *Trebouxia*-Phycobionten im Thallus von *Usnea longissima* (Lecanorales), p. 225-234; B. Büdel & A. Henssen, *Trebouxia aggregata* and *Gloeocapsa*

sanguinea, Phycobionten in *Euopsis granatina* (Lichinaceae), p. 235-241; V. Ahmadjian, The lichen alga *Trebouxia*: does it occur free-living?, p. 243-247; E. Fiechter & R. Honegger, Seasonal variations in the fine structure of *Hypogymnia physodes* (lichenized Ascomycetes) and its *Trebouxia* photobiont, p. 249-263; J. Poelt & H. Mayrhofer, Über Cyanotrophie bei Flechten, p. 265-281; H. Schiman-Czeika, Beobachtungen an *Lempholemma*-Arten aus dem Ostalpenraum (Lichenes, Lichinaceae), p. 283-288; H. Hertel & G. Rambold, Cephalodiate Arten der Gattung *Lecidea* sensu lato (Ascomycetes lichenisati), p. 289-312; E. Stocker-Wörgötter & R. Türk, Licht- und elektronenmikroskopische Untersuchungen von Entwicklungsstadien der Flechte *Endocarpon pusillum* unter Kulturbedingungen, p. 313-328.)

Dale VITT, Janet MARSH & Robin BOVEY. Mosses, Lichens and Ferns of Northwest North America. 1988. Lone Pine Publishing, #414, 10357-109 Street, Edmonton, Alberta T5J 1N3, Canada. Price Can.\$ 24.95. ISBN 0-919433-41-3. (A photographic field guide to approximately 170 mosses, 20 liverworts, 160 lichens, and 30 ferns and their allies with coloured photographs, distribution maps, species descriptions, and keys to these major groups. This book, the first of its kind for North America, will be useful for the beginner, the serious amateur naturalist, and the professional biologist. The floras are mainly focused on the Canadian Rocky Mountains and the west coast of British Columbia. The book will be released in summer 1988.)

Advance notice:

Handbook of Lichenology, to be published by CRC Press Inc. (3 volumes), is now in press and will appear in October 1988. It contains 27 chapters by 22 contributors.

Back issues of ILN

The following back issues of ILN are still available: 9(1), 9(2), 10(1), 10(2), 11(1), 11(2), 12(1), 12(2), 13(1), 13(2), 14(1), 14(2), 15(1), 15(2), 16(1), 16(2), 17(1), 20(1), 20(2), 20(3), 21(1). In photocopy available are: vol. 1(1), 1(2+supp.), 1(3), 2(1), 3(2), 6(2), 7(1-2), 8(1-2). Moreover two indexes are available: Index to vol. 1-8, Index to vol. 9-13.

According to a resolution of the IAL Executive Council, published in ILN 16(1), April 1983, the following charges have to be levied for back issues of ILN:

Vol. 1: US\$ 0.25 per number (3 per volume); vol. 2-8: US\$ 0.50 per number (2 per volume); vol. 9-13: US\$ 1.00 per number (2 per volume); vol. 14-17: US\$ 1.50 per number (2 per volume).

Back issues from vol. 20 onward are available for US\$ 1.00 per number (3 per volume). The Indexes are free.

New members will receive free only copies of the numbers constituting the volume issued for the calendar year in which they join IAL.

Orders to be sent to the editor H. Sipman.

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LIST OF THE SOCIETIES

Australasia: Society of Australasian Lichenologists (SAL). Info: Dr. J. A. Elix, Dept. of Chemistry, The Australian National University, GPO Box 4, Canberra ACT 2601, Australia.

Central Europe: Bryologisch-Lichenologische Arbeitsgemeinschaft für Mitteleuropa (BLAM). Info: Dr. G. Philippi, Landes-sammlungen für Naturkunde, Erbprinzenstrasse 3, Postfach 3949, D-7500 Karlsruhe 1, Western Germany (FRG)

France: Association Française de Lichénologie (AFL). Info: Dr. Richard Lallement, Université de Nantes, Laboratoire de Biologie et Cytophysiologie Végétales, 2 Rue de la Houssinière, F-44072 Nantes Cedex, France.

Great Britain: British Lichen Society (BLS). Info: Secretary of the British Lichen Society, Botany Department, British Museum (Natural History), Cromwell Road, London SW7 5BD, UK.

Italy: Società Lichenologica Italiana. Info: Secretary, Prof. Giovanni Caniglia, Dipartimento di Biologia, Via Orto Botanico 15, I-35123 Padova, Italia.

Japan: Lichenological Society of Japan (LSJ). Info: Dr. M. Nakanishi, Dept. of Biology, Faculty of Education, Hiroshima University, 3-1-33-Shinonome-cho, Minami-ku, Hiroshima-City 734, Japan.

Netherlands: Bryologische en Lichenologische Werkgroep der KNNV (BLW). Info: P. Hovekamp, Eiberoord 3, NL-2317 XL Leiden, The Netherlands.

Nordic Countries: Nordisk Lichenologisk Forening (NLF). Info: Ulrik Søchting, Institut for Sporeplanter, Ø. Farimagsgade 2 D, DK-1353 København K, Denmark.

Poland: Lichenological Section of the Polish Botanical Society (Polskie Towarzystwo Botaniczne). Secretary: Dr. W. Faltynowicz, Department of Plant Ecology, University of Gdansk, ul. Czołgistow

46, 81-378 Gdynia, Poland.

Switzerland: Schweizerische Vereinigung für Bryologie und Lichenologie (SVBL). Info: K. Ammann, Systematisch-Geobotanisches Institut der Universität Bern, Altenbergrain 21, CH-3013 Bern, Switzerland.

USA: American Bryological and Lichenological Society (ABLS). Info: Dale M.J. Mueller, Dept. of Botany, Texas A & M University, College Station, Tx 77843-3258, USA.



DIARY

(Abbreviations refer to the organizing societies, see above.)

1988

ca. 20-30 July. BLW bryological and lichenological summer camp near Cahors, France. Further details from: H. van Dobben, Visschersteeg 9, NL-3511 LW Utrecht, Netherlands

7-11 August. ABLS Annual Meeting in conjunction with AIBS meeting, University of California, Davis, USA.

15-26 August. BLS Summer field meeting in the Gower Peninsula, South Wales, UK.

28 August - 2 September. ABLS bryological and lichenological field meeting in Virgen (East Tirol, Austria).

29 August - 1 September. Excursion AFL to Chamonix (Haute Savoie, France).

4-10 September. AEFTAT Congress. Info see ILN 20(2), p. 42.

12-16 September. Polish Botanical Society, lichenological field meeting in Pszczew and Gorzów Wielkopolski, western Poland, see p. 48.

15-18 September. ABLM lichenological field meeting in the Sauerland, West Germany.

19-23 September. Italian & British Lichen Societies field and lecture meeting on 'Lichens and ancient monuments' based near Rome. Local secretary Prof. P.L. Nimis. Further details from: Mrs. A.M. O'Dare, Springfield, 13 Barrows Road, Cheddar, Somerset BS27 3AY, U.K.

21-24 October. BLS Autumn field meeting at Howgill Fells, Cumbria.

27 December - 12 January. IAL Field meeting in Baja California, Mexico. See p. 38.