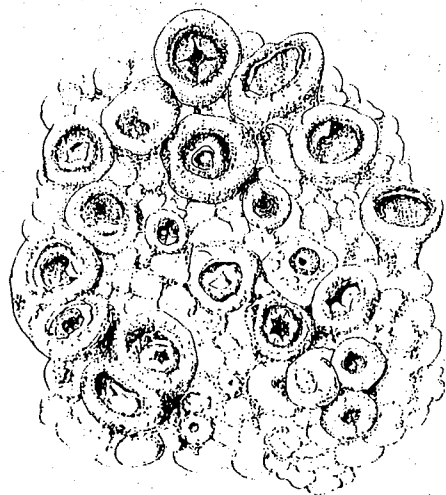


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NEWSLETTER

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

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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 DM. 30.00 for a four-year period. Subscriptions should be sent to the Treasurer or Deputy Treasurer:

H. Thorsten Lumbsch, Fachbereich 9/Botanik, Postfach 103 764, D-45141 Essen, Germany. Please transfer the equivalent in Deutschmarks (DM 30.00) to the following postal giro account: 1344 59-431 at the Post Office Essen (Bank code 360 100 43). Cheques will not be accepted, unless they are made payable to DM 36, since otherwise the bank fees will overstretch the IAL budget!

North American members can send their subscriptions to:

Clifford W. Smith, University of Hawaii at Manoa, Department of Botany, 3190 Maile Way, Honolulu, HI 96822, USA. Cheques should be made payable to International Association of Lichenologists.

or (for British members) to: T.H. Moxham, Mayfair House, 21 Ashgrove, Peasedown St. John, Bath, Avon, BA2 8EB, U.K. (subscription price £13.00)

IAL affairs are directed by an Executive Council elected during the last General Meeting. Council members elected at the IAL 2 symposium (Lund, Sweden, 1992) are listed below and will serve until 1996.

#### IAL EXECUTIVE COUNCIL 1992-1996

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## RESEARCH NEWS & NOTES

Ahmadjian, Vernon (Worcester, USA) informs that a senior undergraduate student at Clark University, Kristin A. Marcell, recently completed her honour's degree thesis entitled "Gene transfer in lichens: does it exist? A preliminary study on the possibility of gene transfer between the symbionts of *Cladonia cristatella*". The thesis study was under the supervision of Profs. Ahmadjian, Brink and Thurlow. Interested individuals should contact Vernon Ahmadjian.

Fröberg, Lars (Lund, Sweden) is continuing his investigation on the relations between calcicolous lichens and invertebrates (gastropods and oribatid mites) in the island of Öland, Sweden, together with Drs. B. and A. Baur, Basel, Switzerland and Dr. T. Solhøy, Bergen, Norway. As part of this project, he will study the regeneration processes of grazed lichens and variation in species diversity in relation to the degree of herbivory. He is also conducting an inventory of the calcicolous lichens on the islands of Stora and Lilla Karlsö, SW of Gotland, Sweden (as part of a project to investigate the total lichen flora of these islands). Besides the total inventory, a study will be performed on the vegetation occurring on thin calcareous soil and gravel in order to compare sheep-grazed habitats in Lilla Karlsö, with ungrazed habitats in Stora Karlsö.

Fox, Howard (Athy, Ireland) is preparing a catalogue of the lichenicolous fungi from Ireland, treating about 115 species for publication in the Bulletin of the Irish Biogeographical Society (ISSN 0032-1185). Irish collections kept in continental European herbaria have undoubtedly been overlooked, and he would especially welcome any data on isolated specimens from Ireland. In May 1995, about 100 lichen species were collected from the semi-deserts of the Mangyshlak Peninsula in SW. Kazakhstan and while identification work is still ongoing, a provisional list is now available. Fieldwork continues as usual throughout Ireland, where 1125 lichens are now known.

Galloway, David (Roxburgh, New Zealand) is to undertake a revision of the New Zealand Lichen Flora with funding from the Foundation for Research, Science & Technology, to be completed for publication in 2002. A revised Checklist of NZ lichens is being prepared in collaboration with Bill Malcolm, for publication by the Museum of New Zealand later this year. David Galloway will visit northern Chile later this year to work with Wanda Quilhot. The final part of his monograph on *Pseudocyphellaria* deals with Australian species and is being prepared in collaboration with Jack Elix and Gintaras Kantvilas. Work is progressing on palaeotropical species of *Sticta*. With Peter Johnson he is in-

vestigating the role of lichens as pollution monitors in urban and industrial environments in New Zealand, and with **Jennifer Bannister** he is curating the lichen herbarium at OTA, including the important J. Scott Thomson lichen collection.

**Seaward, Mark** (Bradford, UK) took part in the 1996 Chagos Expedition in March, in order to make the first study of the lichen and bryophyte floras of this remote Indian Ocean archipelago. The Foreign Office (British Indian Ocean Territory) provided expedition members with two boats and other logistical support, enabling them to visit many of the islands which are spread across more than 100 miles. The material collected is currently being worked on by several researchers, but many offers of assistance in identifying *Bacidia*, *Graphis* and *Opegrapha* spp. would be much appreciated. Financial support from The Royal Society, British Ecological Society and Percy Sladen Memorial Fund is gratefully acknowledged.

In June, Mark Seaward visited the University of Helsinki Botanical Museum, with the aid of an EU grant, to work with **Teuvo Ahti** on the second fascicle of *Lichen Atlas of the British Isles* which will mainly be devoted to *Cladonia* spp. He also presented a paper and worked on archival material and the lichen herbaria.

**Sipman, Harrie** (Berlin, Germany) has prepared a new version of a key to the lichen genera of the Guianas. It includes over 190 genera of macro- and microlichens, and is probably useful in most of the Amazon basin. He would

be pleased to send a copy to anybody wanting to use the key or try it out. Arrangements are being made to make it available via the Internet, probably via the server of the Smithsonian Institution in Washington, where the checklist of Guianas lichens is also available. Interested people will then be able to download a copy of the latest version at any time.

**Vežda, Antonín** (Brno, Czech Republic) is continuing the revision of the *Gyalectaceae* s. str., based on his dissertation on the *Gyalectaceae* sensu Zahlbruckner, an unpublished manuscript of 1967. He is currently finishing the "Checklist and keys" of *Dimerella* Trevis. 1880, *nom. conserv. prop.* against *Coenogonium* Ehrenb. 1820, with about 50 species, many of which are new. For the identification and delimitation of the species the pycnospores present very important and stable characters.

**Zedda, Luciana** (Sassari, Italy) has begun her Ph.D. thesis on the epiphytic and terricolous lichens in oak stands of Sardinia, Italy. She is carrying out her research at the Botanischer Garten & Botanisches Museum, Berlin, supervised by Dr. Harrie Sipman, with periodic field trips to Sardinia. The aim of the work is to define the lichen flora associated with the different species of the genus *Quercus* L. and the floristic composition of lichens on soil in oak stands, and to verify eventual floristic differences between lichens on trees in old and well preserved forests and those of woods subjected to a continuous and long-standing management regime.

### David Hawksworth honoured

Her Majesty Queen Elizabeth conferred the honour of Commander of the Order of the British Empire (CBE) upon Professor David Hawksworth, Director of the International Mycological Institute, at a ceremony held at Buckingham Palace on 27 February 1996. The award was made in recognition of his "services to science", which, as many of us know, have been of great benefit to lichenology and lichenologists over many years. We offer him our sincere congratulations.



### The IAL 3 Symposium in Salzburg

The IAL-sponsored international lichenological symposium, to be held from 1-7 September in Salzburg, Austria, is approaching.

All members of IAL should have received a copy of the third circular, with complete information on programme, registration and accommodation. If you wish to have one, please contact: Lichen Symposium IAL 3, Dr. Roman Türk, Institute of Plant Physiology, University of Salzburg, Hellbrunnerstrasse 34, A-5020 Salzburg, Austria. Tel.: +43 662 8044 5588; fax: +43 662 8044 619. E-mail: roman.tuerk@sbg.ac.at. The information is also available on INTERNET: <http://www.edvz.sbg.ac.at/pfl/ial3/second.htm>.

The programme includes five days of lectures, as well as excursions before and after the symposium.

During the symposium a General Meeting of the IAL will be held. All members of the IAL are urged to attend this meeting to discuss the following:

#### AGENDA

1. Apologies for absence
2. Minutes of General Meeting, Vancouver, Canada, August 19 1994  
{see IAL Newsletter 27, 3: 42-52 (1994)}
3. IAL dues {see Newsletter 27, 1: 3 (1994)}
4. Publishing of Newsletter
5. New funding
6. Officers' reports (President, Secretary, Treasurers, Editors)
7. Future IAL activities
8. Any other business
9. IAL awards: Acharius Medal, Mason E Hale Award
10. Election of Officers and Council members

### Excursion after the IAL Symposium in Eger

After the IAB & IAL Symposium on Follicolous Cryptogams (see ILN 28 (3) p. 56-58), 7 people from 6 countries (E. Farkas, I. Kärnefelt, L. Lőkös, W. Saunders, P. Scholz, C. W. Smith, A. Vezda) travelled by two cars from Eger, Hungary to Brno, Czech Republic on a two-day post congress excursion. On our first day we left Eger for Vácátót north of Budapest to visit the botanical garden of the Hungarian Academy of Sciences, guided by Dr. Kósa, a dendrologist on the staff. This was followed by lunch in the historic academy room. Afterwards we visited the lichen department of the Hungarian Natural History Museum in Budapest where such well-known lichenologists as V. Gyelnik, Ö. Szatmari, and K. Verseghy have worked. The herbarium was shown to us by the present curator of the lichen section L. Lőkös. But we still had to go on some 250 km further to the Slovak village Svätý Jur (formerly St. Georgen) about 50 km northeast of the capital Bratislava on the south side of the Lesser Carpathians (Malé Karpaty). There we were awaited by a group of 4 Slovakian lichenologists (A. Guttová, A. Lackovicova, E.

Lisicka, I. Pisút) to visit the house in which Anton Zahlbruckner was born, situated on the central place and decorated by a memorial plaque. Later we saw some graves of the Zahlbruckner family still in good condition on the local cemetery. (Anton Zahlbruckner himself died and was buried in Vienna.)

During dinner the Slovak lichenologists honoured Antonin Vezda by giving him the medal of the Slovak Botanical Society. The rest of the evening was filled with interesting talks in the family atmosphere well-known among lichenologists and with more than one glass of the locally grown white wine.

Next day we went on to Brno in the Czech Republic, but unfortunately the weather was too bad to go on the planned excursion in the vicinity of Brno. Dr. Vezda took pleasure in showing us his private herbarium in his home in Brno and later, still with persisting rain, some sights in the centre of the Moravian capital city, especially the Gothic cathedral. Then it was time to say good-bye to him, as most of us had to go back to Budapest to catch their air planes. Thank you to all those who guided us, and especially to Edit Farkas and Toni Vezda.

P. Scholz



photograph: Anna Lackovicova congratulates Antonin Vezda

## Symposium on biodeterioration and biodegradation

The third international symposium, held at Santiago de Compostela, Spain, 3-5 July 1997, was organised by Dr Benita Silva and supported by Sociedad Española de Microbiología and Universidad de Santiago de Compostela. The following contributions were of lichenological interest:

### Papers:

Arino, X., Gomez-Bolca, A. & Saiz-Jimenez, C. - The interface lichen/mortar: an example of biodeterioration.

Prieto, B., Silva, B., Rivas, T., Wierzechos, J. & Ascaso, C. - Mineralogical transformation and neoformation in granite caused by the lichens *Tephromela atra* and *Ochrolechia parella*.

Saiz-Jimenez, C. - Biodeterioration vs biodegradation: the role of microorganisms in the removal of pollutants deposited on to historic buildings.

Seaward, M. R. D. - Major impacts made by lichens in biodeterioration processes.

Wierzechos, J. & Ascaso, C. - Identification of the biotite bioweathering products using high resolution microscopy: new evidence for lichen weathering of mineral surfaces.

### Posters:

Arino, X. & Sainz-Jimenez, C. - Biodeterioration of the Elephant's Tomb (Necropolis of Carmona, Seville, Spain).

Garcia-Murillo, S. & Martin-Perez, A. - A study of the bioalteration indicators of the stone in the Pamplona's Cathedral Temple (Spain).

Prieto, B., Rivas, T., Silva, B., Sanchez-Biezma, M. J., Paz, G. & Carballal, R. - An example of rapid biological colonization of a granitic building by crustaceous lichens.

## Lichens on-line

The representation of lichenology on the World-Wide Web has grown further. A new feature is the availability of good quality lichen colour photographs, e.g. with the addresses

<<http://www2.hawaii.edu/~cliff/pictures/0.htm>> and  
<<http://www.botanik.biologie.uni-muenchen.de/botsamml/lia/pictures.html>>.

A disadvantage of all the activity is that there are many changes of address. In the (certainly incomplete) survey below I have tried to collect the most recent ones.

Additions to and comments on this rubric by the suppliers and users would be highly appreciated. Contributions preferably to be sent via email to: <[hsipman@sub46.zdat.fu-berlin.de](mailto:hsipman@sub46.zdat.fu-berlin.de)>.

### 1. Access: Info-pages

Several "info-pages" are now available, which provide connections with the resources listed below, and many others.

<[www.botanik.biologie.uni-muenchen.de/botsamml/mycology/mycology.html](http://www.botanik.biologie.uni-muenchen.de/botsamml/mycology/mycology.html)>.  
Mycology Resources (Cornell University, USA); address: <<http://muse.bio.cornell.edu/~fungi/>>.  
The Lichens, by Tatsuya Okamoto (Kochi University, Japan); address: <<http://www.is.kochi-u.ac.jp/Bio/lichens/lichens.html>>.  
Cliff Smith's Lichen World (Hawaii, USA); address: <<http://www2.hawaii.edu/~cliff/lichen1.htm?>>>.  
Information on botany (Cornell University, USA); address: <<http://muse.bio.cornell.edu/cgi-bin/hi?botany>>.

## 2. Selection of available information

Where no addresses are indicated, they can be reached via the infopages.

### A. IAL

The constitution <<http://www2.hawaii.edu/~cliff/assoc.htm>>, membership list <<http://www2.hawaii.edu/~cliff/index.htm>> and the recent issue of the Newsletter <<http://www2.hawaii.edu/~cliff/iln291.htm>> are available in Cliff Smith's Lichen World.

For information on the IAL-symposium see <<http://www.edvz.sbg.ac.at/pfl/ial3/second.htm>>.

### B. Lichen herbaria

Lichen types in US; label information for holo- and isotypes. Address: <<http://nmnhwww.si.edu/gopher-menus/MycologicalandLichenologicalInformation.html>>.  
Cryptogams of CBG; label information for some 50,000 specimens.  
List of lichen genera in S; an alphabetical list of genus names, without authors. Last update: 5 Jan. 1994. Address: <<http://ftp.nrm.sc/pubn/rm/kbo/lichens.txt>>.  
Catalogue of the lichen herbarium of the University of Minnesota Herbarium; lists of names of Minnesota and foreign species, types.

### C. Addresses

Mycologists Online; addresses of mycologists, incl. lichenologists. Access: gopher USA-Massachusetts-Cambridge-Farlow, or: <[gopher://muse.bio.cornell.edu:70/11/directories/mo](http://gopher://muse.bio.cornell.edu:70/11/directories/mo)>.

Email numbers of lichenologists (and mycologists). Continuously updated. Address: <<http://www.botanik.biologie.uni-muenchen.de/botsamml/lia/emaillist.html>>.

Addresses of lichenologists. Address: <<http://www2.hawaii.edu/~cliff/index.htm>>.

### D. Literature

CATALPA: New York Botanical Garden library catalog. Last update: continuously updated. Access via Telnet: <[libris.nybg.org](http://libris.nybg.org)>

The Lichenologist: Tables of contents of the recent issues from 26(4) onward. Address: <[gopher://ukoln.bath.ac.uk:7070/11/Link/Tree/Publishing/AcademicPress/APJournals/APJ35](http://gopher://ukoln.bath.ac.uk:7070/11/Link/Tree/Publishing/AcademicPress/APJournals/APJ35)>.

## E. Diversac

LIAS-info pages: LIAS is designed as an information and data storage system for lichenized and lichenicolous Ascomycetes. A first version is under development and will be distributed via CD-ROM. The info pages give information on the taxa treated, as well as access to some further online information of lichenological interest. Offered by Gerhard Rambold, Germany. Last update: September 1995. Address: <<http://www.zi.biologie.uni-muenchen.de/botsamml/lias/lias.html>>.

"Lichen": floristical database with distribution maps of epiphytic lichens of Switzerland. Offered by Christoph Scheidegger, Switzerland. Last update: 1 September 1995. Address: <[http://www.wsl.ch/rauminf/riv/datenbank/lichen/database\\_lichen.html](http://www.wsl.ch/rauminf/riv/datenbank/lichen/database_lichen.html)>.

Checklist of Japanese Lichens, by Tatsuya Okamoto, Kochi University. Address: <<http://www.is.kochi-u.ac.jp/Bio/lichens/IJapan.html>>.

Checklist of lichens reported from the three Guianas; a list of lichen names. Last update: 1994. Address: <[gopher://nmnhgoph.si.edu:70/11/botany/guianas/lichlist](mailto:gopher://nmnhgoph.si.edu:70/11/botany/guianas/lichlist)>

## New Literature

Paul DIEDERICH. 1996. The Lichenicolous Heterobasidiomycetes. Bibliotheca Lichenologica, Band 61. 198 pages. (A treatment of all 54 presently known species belonging to the genera *Biatoropsis*, *Chionosphaera*, *Cystobasidium*, *Syzygospora* and *Tremella*, with descriptions, keys, distribution maps; the majority, 41 species, are described as new.)

U. von DEWITZ, U. SACHSE & M. SCHNEIDER (eds.). 1993. Bioindikation mit Flechten 1991 und 1992. Monitoringprogramm Naturhaushalt Heft 2. 62 pages. Price DM 10. Available from: Kulturbuch-Verlag GmbH, Sprosserweg 3, D-12351 Berlin, Germany. (A presentation of two investigations into the effect of air pollution on lichens in the urban area of Berlin; one is a mapping of epiphytic lichens made in 1991, before the changed political situation greatly influenced the air pollution levels; the other is a transplant experiment with *Hypogymnia physodes*; in German with English summary.)

D. L. HAWKSWORTH, P. M. KIRK, B. C. SUTTON & D. N. PEGLER. 1995. Ainsworth & Bisby's Dictionary of the Fungi. £30.00 from CAB International, Wallingford, Oxon. OX10 8DE, UK. (The eighth edition of this invaluable handbook is encyclopaedic in its coverage: almost 20 thousand entries are provided, most of course listing generic names of fungi (and naturally lichens) with authorities, etc. complying with recently published standards, but many subject entries are given in detail. Strongly recommended for all libraries; many lichenologists will wish to own their own copy of this indispensable work, which is fortunately possible at this bargain price.)

Brian C. SUTTON (editor). 1996. A Century of Mycology. Cambridge University Press, 398 pages. ISBN 0 521 57056 5 (hardback), price £ 60.00 or US\$ 90.00. (Contains 12 contributions presented at the Centenary Symposium "A Century of Mycology" organized by the British Mycological Society; Chapter 11 deals with lichens: Lichens and the environment, by Mark Seaward; other chapters review a variety of fungal science fields.)

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### 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) and further issues. Photocopies are available of: vol. 1(1), 1(2+supp.), 1(3), 2(1), 3(2), 6(2), 7(1-2), 8(1-2). Two indexes are also 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 will 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 H. Sipman, Bot. Garten & Bot. Museum, Königin-Luise-Strasse 6-8, D-14191 Berlin, Germany, fax: 030-83006186, e-mail: hsipman@fub46.zedat.fu-berlin.de.



## LIST OF 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. Volker John, Pfalzmuseum für Naturkunde, Hermann-Schäfer-Strasse 17, D-67098 Bad Dürkheim, Germany.

**Czech & Slovak Republics:** Bryological and Lichenological Section of the Czech Botanical Society. Info: Dr. J. Liska, Institute of Botany, Academy of Sciences of the Czech Republic, CS-252 43 Pruhonice, Czech Republic.

**Finland:** Lichen Section, Societas Mycologica Fennica. Info: Dr. Teuvo Ahti, Department of Botany, P.O. Box 47, FIN-00014 University of Helsinki, Finland.

**France:** Association Française de Lichénologie (AFL). Info: Dr. Jean-Claude Boissière, Laboratoire de Biologie Végétale, Route de la Tour Dénécourt, F-77300 Fontainebleau, France.

**Great Britain:** British Lichen Society (BLS). Info: Secretary, Dr. O.W. Purvis, Botany Department, The Natural History Museum, Cromwell Road, London SW7 5BD, UK.

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

**Japan:** Lichenological Society of Japan (LSJ). Info: Dr. H. Harada, Natural History Museum and Institute, Chiba (CBM), Aobacho 955-2, Chuo-ku, Chiba 260, Japan.

**The Netherlands:** Bryologische en Lichenologische Werkgroep der KNNV (BLW). Info: Leo Spier, Kon. Arthurpad 8, NL-3813 HD Amersfoort, The Netherlands.

**Nordic Countries:** Nordisk Lichenologisk Forening (NLF). Info: Ulrik Søchting, Botanical Institute, Dept. of Mycology and Phycology, Ø. Farimagsgade 2 D, DK-1353 København K, Denmark.

**North America:** American Bryological and Lichenological Society (ABLS). Info: Dr. Robert S. Egan, Biology Department, University of Nebraska, Omaha, NE 68182-0072, USA.

**North America, Northwest:** Northwest Lichen Guild. Info: Dr. Bruce McCune, Dept. of Botany & Plant Pathology, Oregon State University, Cordley Hall 2082, Corvallis, OR 97331-2902, USA.

**Poland:** Lichenological Section of the Polish Botanical Society (Polskie Towarzystwo Botaniczne). Secretary: Dr. W. Faltynowicz, Department of Plant Ecology, University of Gdansk, ul. Czolgistow 46, 81-378 Gdynia, Poland.

**Slovakia:** Lichenological Working-Group of the Slovak Botanical Society. Info: Dr. Eva Lisická, Slovak National Museum, Vajanského nábr. 2, 814 36 Bratislava, Slovakia.

**Spain:** "Sociedad Española de Liqueología (SEL)". Info: A. Gómez-Bolea, Dept. de Biología Vegetal (Botánica), Fac. Biología, Univ. de Barcelona, Avda. Diagonal 645, 08071 Barcelona, Spain.

**Sweden:** Svensk Lichenologisk Förening (SLF). Info: Dr. G. Thor, Department of Ecology and Environmental Research, Swedish University of Agricultural Sciences, P.O. Box 7072, S-750 07 Uppsala, Sweden.

**Switzerland:** Schweizerische Vereinigung für Bryologie und Lichenologie (SVBL). Info: Ph. Clerc, Conservatoire et Jardin botaniques, Case postale 60, CH-1292 Chambésy/GE, Switzerland.

**USA, California:** California Lichen Society. Info: Janet Doell, 1200 Brickyard Way, #302, Pt. Richmond, CA 94801, USA.

The front-page illustration

*Thelotrema lepadinum* (Ach.) Ach., drawn by Dr. Ivan Pisút.