

The Bryological Times  
May 1980, Number 3  
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## Membership of IAB

TO FACILITATE people keeping in touch with each other, it is proposed to use the columns of The Bryological Times to publish changes in the list of members of the Association and their addresses. To help keep the list as up to date as possible readers are asked to send alterations and amendments, together with the names of people who would like to join the Association, to the Honorary Secretary at Utrecht who will advise the Editor of this Newsletter of the changes which need to be published.

### Payments

Readers are reminded that the following arrangements exist for payment of dues US \$5 or D.Fl.10 or £2.50 per annum to IAB OR US \$33.75 or D.Fl.67.50 or £15.75 per annum to IAPT. There is also a Special Student fee for a maximum of 3 years to IAPT).

i. For members in USA (in dollars only) to Dr. R.S. Cowan, Dept. of Botany, Smithsonian Institution, Washington, D.C.20560, U.S.A. Please make cheque payable to IAB, Washington, D.C., without mentioning Dr. Cowan's name on the cheque.

ii. For members in Japan to the secretary of the Japanese Bryological Society, Dr. H. Inoue, National Science Museum, Tokyo, Japan.

iii. For members in Great Britain to Dr. F.H. Dawson, Freshwater Biological Association, River Laboratory, East Stoke, Wareham, Dorset BH 20 6 BB, England.

iv. For all other members:

a. To the International Association of Bryologists, Heidelberglaan 2, Utrecht, Netherlands, by international money order or by personal cheque. Payments in dollars preferably by cheques drawn upon an American bank.

b. For members in the European Community and Norway, to our postal giro account 3360302, International Bureau for Plant Taxonomy, Utrecht, Netherlands.

N.B. Payment by bank cheque is possible. In that case however, our bank in Utrecht charges us D.Fl.5,-, a sum which we hope you will add to your payment.

### Sponsorship

As readers will know some countries, particularly those which are part of the Soviet bloc, prohibit their nationals from using their currency for the purchase of foreign books, payment of dues to learned Societies etc.. To overcome this difficulty IAB has drawn up a sponsorship list which at the moment has 10 names on it. The Honorary Secretary reports that as 4 members of the Association have agreed to pay annually an extra subscription, 4 of the bryologists on this list are in effect fully paid up members and will receive all IAB publications. In the case of the other 6 complimentary copies of some publications are being sent for the time being, but the Honorary Secretary would like to hear from any person who would be prepared to sponsor personally one or more of these bryologists. If anyone who wishes to become a member of IAB finds himself/herself in the unfortunate position of being prohibited by law (or for some similar reason) from paying the membership dues, then a letter should be sent to the Honorary Secretary at Utrecht explaining the circumstances and asking if the person in question could be considered for sponsorship.

### List of members

The membership of IAB at 31 March 1980 totalled 325. Members names are arranged in two lists, the first including all who were regarded as members as 1 January 1980, while the second lists all who have become members between 1 January and 31 March 1980. As some 15 of the people on the first list only joined during December 1979, i.e. their first year's subscription is for 1980, they can also be regarded as new members. If added to the list of names in list No. 2, this would give a total of 28 new members since the start of the decade!

Addresses are only given for those members with an \* after their surname or family name, i.e. for those whose names will not be found in S.R. Gradstein's Directory of bryologists and bryological research, Ed.2 (Regnum vegetabile, Vol. 99, 1979) or where their present address is different to that given in the Directory.

Membership on 1 January 1980

I.I. Abramov, J. Aguirre, T. Ahti, K. Ammann, D.E. Anderegg, L.E. Anderson, H. Ando, R.E. Andrus, G.C.G. Argent, Y. Asakawa.

L.V. Bardunov, D.V. Basile, R. Baudoin, L. Bazinet, G.M. Bekkers\*, B.G. Bell, K. Benson-Evans, I.R. Bermúdez, D.C. Bharadwaj, P. Biebel, H. Bischler, Mrs. C.E.B. Bonner\*, E.J. Bonnot, M.C. Bowers, G.R. Brassard, D.A. Breil, B. Bremer, H. Breuer, M.A. Bruggeman-Nannenga, W.R. Buck.

E. Campbell, C. Casas de Puig, L.A.L. Castelli, D.G. Catcheside, D.F. Chamberlain, R.N. Chopra, C.R. Christiansen, S.P. Churchill, G.C.S. Clarke, A.M. Cleef, J.A.F. Cohen Stuart, E.L. Conklin, C. Cortini Pedrotti, M.R. Crosby, H.A. Crum, A.C. Crundwell.

D.H. Dalby, K. Damsholt, F.J.A. Daniels, F.H. Dawson, H. Deguchi, M.C. Delgadillo, R.M. Del Rosario, F.M.H. Demaret\*, J.L. De Sloover, J.H. Dickson, K. Dierssen, E. Drew, J.G. Duckett, R. Düll, K. von der Dunk, H.J. During.

A. Eddy, K.G. Een, A. Egunyomi, W.E. El-Saadawi, J.J. Engel, T. Engelmark.

M.C. Fabre, J.H. Field, R.D. Fitzgerald, K.I. Flatberg, M.V. Fletcher, J. Florschütz-de Waard, W.D. Foster, J.P. Frahm, S. Fransén, W. Frey, E. Fuertes-Lasala, M.H. Fulford.

B. Galatis, H.C. Gangulee, J.C. Gardiner, P. Geissler, L. Genevès, L.J. Gier, J.M. Glime, S.R. Gradstein, S.W. Greene, D. Griffin, S. Groenhuijzen, R. Grolle, P.J. Grubb.

S.G. Harrison, A.J. Harrington, M.P. Harthill, E. Hartmann, F.A. Hartman\*, G.G. Hässel de Menéndez, S. Hattori, J. Hébrard, W.H.A. Hekking, I. Herrstadt, M.O. Hill, W.J. Hoe, K. Honda, B. Hopkins\*, D.G. Horton, H. Huber, R.L. Hulbary, H. Hürlimann.

Y. Ikegami, K. Imagawa, H. Inoue, P.R. Ireland, P. L. Isoviita, Z. Iwatsuki.

F. Jelenc, I.B. Johnsen, P.M. Jørgensen, S. Jovet.

H. Kaja, M. Kamimura, H. Kanda, H.S. Kanwal, K. Karczmarz, A. Kaul, I. Kawai, N. Kitagawa, T. Kodama, T.J. Koponen, R. Krisai, M. Kuc\*, S. Kumar, Y. Kuwahara.

M. Lai, U. Laine, J. Lal, M. Larpent, V.B. Lauridsen, E. Lawton, F. Leblanc, A.M. Lecointe, E. Lepage\*, J. Lewinsky, D.H. Lewis, R.E. Longton, C.H. van Looy\*, R. Lotto, A. Löve\*, A. Luitingh, K.A. Lye.

B.H. MacMillan, K. Mägdefrau, R.E. Magill, M. Mahu, U.K. Mamatkuļov, M.G. Manuel, W.D. Margadant, O. Mårtensson, M. Martin, A. Martinčić, C.M. Matteri, M.G. McFarlane, P.N. Mehra, H.M.H. van Melick, H.A. Miller, N.G. Miller, U. Mizushima, G.S. Mogenssen, J.G. de Molenaar, J.E. Moore, L.B. Moore, D.M.J. Mueller, H. Muhle.

T. Narita, K. Nehira, F. Neu, M.E. Newton, A. Noguchi, D.H. Norris, H. Nowak, F. Nurit, E. Nyholm.

H. Ochi, W.C. Oechel, H. Okada, R. Oliva, M.H. Onraedt, B.J. O'Shea\*.

P. Pakarinen, J.A. Paton, Z. Pavletic, A. Pechanec\*, A. Pedersen, A.R. Perry, E.M.A. Petit, G. Philippi, R.B. Pierrot, C. Pisaro G. (listed as C.P. Godoy), T. Pócs, J. Poelt, V. Pospíšil, R.A. Pursell.

S.P. Rae, G. Raeymaekers, H.P. Ramsay, P.L. Redfearn, C.F. Reed, G. van Reenen, W.D. Reese, D. Richards, R.T. Ripetsky, H.E. Robinson\*, W.V. Rubers, S. Russell.

S. Saito, T. Sasaki, G. Sayre, E.A.C. Schelpe, H. Schludermann, A. Schmidt, W.B. Schofield, R. Schubert, W. Schultze-Motel, D. Schulz, R.L. Schumacker, G. Schwab, G.A.M. Scott, T. Seki, R.D. Seppelt, C. Sergio, A.J. Sharp, J.W. Sheard\*, T. Shin, R.M. Shukla, R.M. Simo-Martinez, T. Simon, J. Singleton, H.J.M. Sipman, E. Skarp, N.G. Slack, M. van Slageren, A.J.E. Smith, G.L. Smith\*, J.A. Snider, S.S. Solari, F. Sollman, M. Sonesson, R. Soo\*, R.A. Stace\*, F.A. Stafleu, W.C. Steere, T. Stefureac, J. Stegmann, C.H. Steinberg, W.G. Stewart, I.G. Stone, R.E. Stotler, W. Strasser,

- H. Streimann\*, S. Sugimoto, C. Suire,  
P. Sunding, J. Szwekowski.
- N. Takaki, B.C. Tan, H. Taoda,  
K. Terao, P. Thomas, R. J. Thomas,  
P. Tixier\*, A. Touw, C.C. Townsend.
- E. Urmi, K. Ushida.
- B. Valdes, J. Vaňa, J.P. Velzen,  
M.C. Verduz, B. Vermeulen, D.M. Vital,  
D.H. Vitt, D. A. J. Vogelpoel,  
J.N. Vohra, O. I. Vysotska.
- E.C. Wallace, M. Walpole, E. Warncke,  
R. Watanabe, M. Watson, W.A. Weber,  
W.H. Welch, E. Werner, V. Westhoff\*,  
H. Whittier, C. Wiencke, K. Wigh, R.  
Wilczek, H. Williams, O. Wilmanns,  
G. van Wirdum, C.M. Woodfin, F.B.M.  
Woolton, P.C. Wu, R. van der Wijk.
- K. Yamada, I. Yoshimura\*.
- W. M. Zales, R.H. Zander, B. O. van  
Zanten, G. Zylstra\* .

New members 1 Jan - 31 March 1980

- R.S. Cowan\*, M.L. Crundall\*, D.M.  
Greene\*, R.A. Hattaway, E. Hegewald\*  
C. C. Heyn\*, P.J. Lightowlers\*, D.G.  
Long, Y. Peeters\*, M.M. Schiavone,  
P. Szmajda, H. Trass\*, O.H. Volk\*.
- 
- Addresses
- Bekkers, G.M., Wylhelminaalaan 15,  
7241 HK Locken, The Netherlands.
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Pont-ceard, 1290 Versoix, Geneva,  
Suisse.
- Cowan, R.S., Department of Botany,  
Smithsonian Institution, Washington  
D.C. 20560, U.S.A.
- Crundall, M.L., 13 Greenbank Drive,  
Bollington, Macclesfield, Sk10 5LW,  
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Markelbach, Bruxelles 1030, Belgium.
- Greene, D.M. Institute of Terrestrial  
Ecology, Monks Wood Experimental  
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PE17 2LS, England.
- Hartman, F.A. Dept. of Botany, The  
University of Michigan, Ann Arbor,  
Michigan 48104, U.S.A.
- Hegewald, E., Breite Strasse 60,  
D-5162 Niederzier, B.R.D.
- Heyn, C.C., Dept. of Botany, The  
Hebrew University, Jerusalem, Israel.
- Hopkins, B. New England College,  
Tortington Park, Arundel, Sussex,  
England.
- Kuc, M., 6-Lewer st. Box 619, Ottawa,  
Ontario K1A 3N3, Canada.
- Lepage, E., Residence Lionel Roy, 83  
Quest. St.-Jean-Baptiste, Rimouski,  
Que - Canada 95L 4J2.
- Lightowlers, P.J., Institute of Ter-  
restrial Ecology, Bush Estate,  
Penicuik, Midlothian EH26 0QB,  
Scotland.
- Looy, C.H. van, Norelbosweg 19, Epe  
(Gld.), Netherlands.
- Löve, A., Dept. of Biology, University  
of Colorado, Boulder, Colorado 80302  
U.S.A.
- O'Shea, B.J., 58 Thornlan Road,  
London SE27 0SA, England.
- Pechanec, A., 2120 East 5th Street,  
Vancouver, Washington 98661, U.S.A.
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Smithsonian Institution, Washington  
D.C. 20560, U.S.A.
- Sheard, J.W. Department of Biology,  
University of Saskatchewan, Saska-  
toon, Canada S7N 0W0.
- Smith, G.L., Cryptogamic Herbarium,  
The New York Botanical Garden,  
Bronx, New York 10458, U.S.A.
- Soo, R., Illes U. 25, Budapest VIII,  
Hungary.
- Stace, R.A., Dept. of Botany, The  
University, Manchester 13, England.
- Streiman, H., 14 Poole Pl., Latham,  
A.C.T. 2615, Australia.
- Tixier, P., Ecole des Sciences,  
Service de Biologie, Université de  
Niamey, B.P. 10.662 Niamey, Niger.
- Trass, H., Tartu State University,  
Michurina 40, Tartu, Estonian SSR,  
U.S.S.R.
- Volk, O.H. Botanisches Institut, Uni-  
versitaet Wuerzburg, Mitte-Dallen-  
bergweg 64, D-8700 Wuerzburg, B.R.D.
- Westhoff, V., Botanisch Laboratorium,  
Afd. Geobotanie, Direhuizerweg 200,  
Nijmegen, The Netherlands.
- Yoshimura, I., Lab. of Biol. Science,  
Kochi Gakuen College, 292 Asaki-  
Tenjin Cho, Kochi 780, Japan.
- Zylstra, G., Inst. voor Syst. Plant-  
kunde, Heidelberglaan 2, Utrecht,  
The Netherlands.

SIZE OF THIS ISSUE

BECAUSE OF the length of the Member-  
ship List, which it was judged worth-  
while to publish in full, it has been  
necessary to increase the size of this  
issue to provide the rapid publication  
of news items promised to members. In  
spite of this, some items have had to  
be held over, including a thought-  
provoking Leading Article by Dr. R.E.  
Longton of Reading.

## Future Meetings

### XIII INTERNATIONAL BOTANICAL CONGRESS

Sydney 21 - 28 August 1981

#### Section 8A Byology

THE FOLLOWING is the provisional programme:-

1. Symposium on "Reproductive biology and ecology" (morning).

Convener: Professor L.E. Anderson, Department of Botany, Duke University, Durham, N. Carolina, NC27706, U.S.A.

2. Symposium on "Physiology and morphogenesis" (afternoon)

Conveners: Professor E.-J. Bonnot, Dept. of Plant Biology, Univ. de Lille I, BP36, F-59650, Villeneuve D-Ascq, France.

Professor C. Suire, Lab. de Botanique, Univ. de Bordeaux, 33405 Talence, France.

3. Symposium on "Biosystematics and structure" (all day)

Conveners: Dr. S.W. Greene, Institute of Terrestrial Ecology, Bush Estate, Penicuik, Midlothian EH260QB, Scotland.

Dr. H. Inoue, Div. of Cryptogams, National Science Museum, Hyakumin-cho, 3-23-1, Shinjuku-ku, Tokyo, Japan.

4. Symposium on "Bryogeography of Australasia and the Pacific" (all day)

Convener: Dr. W. Schultze-Motel, Botanischer Garten und Botanisches Museum, Berlin-Dahlem, Königin-Luise-Strasse 6-8, D-1000, Berlin West Germany.

These proposed symposia, and their duration, will depend on speakers being able to find finance to come and changes may have to be made later.

It is hoped that many participants will be willing to give demonstration/lectures ("posters") at programmed times when they will be available to talk about their work in person, rather than lecturing to a distant audience. Anyone wishing to participate is asked to send their offer of a paper or poster direct to the appropriate convener (some have already done so through me). Formal

invitations to participate can be sent on request to those who need such letters to support applications for travel funds.

It is hoped also to encourage joint participation in symposia of other sections, there being many of direct relevance to bryologists. The following is a small sample of many available:

Section 3 - Cellular and Structural Botany; symposia on responses and adaptations to high temperature, to extremes of irradiance, salinity and water stress; poikilohydric plants; effects of pollutants on plant growth.

Section 6 - Community Botany; symposium on Island Biogeography.

Section 7 - Genetic Botany; cytogenetics and cytoevolution.

Section 8 - Systematic and Evolutionary Botany; most symposia.

Section 9 - Fungal Botany; symposia on symbiotic relationships, mycorrhiza, lichens.

There will be field trips on several days during the Congress, to bryophyte-rich areas within reach of Sydney, and a post-congress excursion covering a wide-range of habitats in a transect south-west from Sydney to Adelaide or Melbourne. There are also proposals to run trips to New Guinea (see *Bryol. Times*, No.1, p.5) and New Zealand. There are many pre- and post-congress trips all over Australia, many of which are of bryological interest but will not be accompanied by bryologists as guides. These trips are briefly described in the first circular available either from me or from the Executive Secretary, Dr. J. Cram, 13th International Botanical Congress, University of Sydney, N.S.W. 2006, Australia. Those who complete the preliminary reply form enclosed with that will receive subsequent circulars.

George A.M. Scott, Dept. of Botany, Monash University, Clayton, Vic. 3168 Australia.

#### PACIFIC SCIENCE CONGRESS

THE next Pacific Science Congress is due to be held during February, 1983 at the University of Otago, Dunedin, New Zealand. Professor Harvey A. Miller of the Department of Biological Sciences, University of Central Florida, Orlando, Florida 32816, U.S.A. has been appointed by the Council of the Pacific Science Association to

serve for a second term as Chairman of the Scientific Committee for Botany. Because of the great bryological interest of the region he hopes to organise a botanical programme which will include a good bryological component. He would like to have suggestions of topics which would be suitable for this meeting.

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ANTIQUARIAN BOOKSELLERS CATALOGUES

BEING AWARE that many colleagues find it very difficult to get copies of older works, often because they don't know where to try for them, it is proposed to start a column listing catalogues of books etc. for sale. It has been agreed with a number of leading European Antiquarian Booksellers, who handle bryological works, that on receipt of each catalogue, its title, reference number, date of issue etc., together with some brief annotations where appropriate of the bryological works it contains, will be published in the succeeding issue of The Bryological Times. Clearly, it is in the Bookseller's best interests to ensure that the latest information is sent to the Editor to guarantee the widest possible market. It will be for members to deal directly with the Booksellers.

So far, no arrangements have been made with any African, American, Asian or Australasian firms - addresses would be welcome so that the firms can be contacted to see if they would participate in the scheme. It is hoped that this service will be of interest to readers. The first catalogues will be noticed in the next issue.

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EXCHANGE AND MART

PROCEEDINGS OF Symposium on "Distributional patterns and speciation of bryophytes in the circum-pacific region" (1971) (reprinted from J. Hattori bot. Lab. no. 35). Some 20 copies are still available, one per person, free of charge, from: Dr. Hiroshi Inoue, Division of Cryptogams, National Science Museum, 3-23-1, Hyakunincho, Shinjuku, Tokyo 160, Japan. Send Yen 1000 if airmail postage is required.

COPIES OF a Taxonomic revision of the genus *Plagiothecium* for North America north of Mexico by R.R. Ireland (National Museum of Natural Sciences, Publ. in Botany, No. 1, 118 pp. 1969)

are still available at \$2.25 (Canadian) by ordering Stock No. A-601-474 from Order Fulfilment, National Museums of Canada, Esplanade Laurier, Ottawa, Ontario K1A 0M8, Canada.

Robert I. Ireland, Curator of Bryophytes, National Museums of Canada.

F. RENAULD - Essai sur les Leucoloma et supplement au Prodrôme de la flore bryologique de Madagascar ..... Mem. Doc. Publ. par ordre de SAS Albert I<sup>o</sup>, Monaco 1909. 139p., 24 pl. (5 never used copies). Annales bryologici (1-12), a collection in a good state.

All propositions will be considered by Denis Lamy, Lab. Cryptogamie, 12 rue de Buffon, 75005 Paris, France.

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Desiderata

DR. JIŘÍ VÁŇA, Department of Cryptogamic Botany, Charles University, Benátská 2, 128 01 Praha 2, Czechoslovakia, is currently working on a world-wide monograph of the genera *Gymnomitrium* and *Marsupella*. He would be delighted to study any material of these genera collected in Latin America, Africa, Australia and tropical parts of Asia.

J.H. FIELD, 34 Wells Green Road, Solihull, West Midlands, England writes: I would be grateful to receive any material of *Philonotis marchica* which looks partly or completely adpressed. The adpressed varieties of *Philonotis* species form a parallel series. Having studied adpression intensively in *Philonotis fontana*, *P. caespitosa*, *P. calcarea* and *P. seriata*, I would be very interested to see it in a sample of *Philonotis marchica*.

In August 1977, I found material of the piliferous varieties of *Philonotis fontana* (Hedw.) Brid. and *Philonotis caespitosa* Wils. ex Jur. growing in close proximity in ditches near Ben Cruachan Dam, Argyllshire, Scotland.

Study of piliferous variation in other European species of this genus has revealed that it occurs in these as a parallel condition.

I would be grateful to receive piliferous *Philonotis* specimens from Asian bryologists who are interested in variation in this genus.

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## BRYOLOGICAL JOB OPPORTUNITIES IN UK

FOUR Natural Environment Research Council Studentships for bright students, graduating this year, and wishing to proceed to a Ph.D. based on a bryological topic, are available as follows:

Dept. of Botany, Bristol (Dr. D.H. Brown)  
"The effects of heavy metals on bryophyte and lichen physiology".

Dept. of Biological Sciences, Lancaster (Dr. J. Laybourn) "The ecological energetics of *Sphagnum* and litter-dwelling testate amoebae".

Dept. of Plant Biology & Microbiology, Queen Mary College, London (Prof. J.G. Duckett) "Symbiotic relationships between liverworts and fungi".

Dept. of Botany, Manchester (Dr. J.A. Lee)  
"The growth and mineral nutrition of bryophytes in Southern Pennine blanket bogs".

Anyone interested should write direct to the University concerned.

Information supplied by J.G. Duckett, Queen Mary College, London.

DR. HENRY O. WHITTIER, of the Department of Biological Sciences, University of Central Florida, Orlando, Florida 32816, U.S.A., and his wife Barbara are currently on a sabbatical year which they began with field work in Maui, Hawaiian Islands. They also visited the Society Islands where, in addition to getting material on Tahiti, substantial collections were made on the bryologically previously unexplored islands of Bora Bora, Tahaa, Raiatea, Huahine and Maupiti. Several new generic records for the Society Islands have come to light during the initial curating phase which is now about half complete. Some hours are being spent each day identifying other collections from southern Polynesia which have come to hand over the past few years.

Information provided by Prof. Harvey A. Miller.

DR. H.P. Ramsay (University of New South Wales) writes that Australasian bryologists have started an informal Newsletter. No. 1 appeared in Oct. 1979.

BRYOMANIA, with sub-title "An irregular journal for the irreverent" (and much else besides!), edited by Guy Brassard and René Belland (Newfoundland) appeared on All Fools Day 1980. It will be sent free of charge on payment of \$5.00 to Kitty - enquiries to St Johns

## ANNUAL PAPER-READING MEETING OF DUTCH BRYOLOGISTS

DUTCH bryologists and lichenologists met on March 1, 1980 at the University of Utrecht on the occasion of the third "Bryologisch-Lichenologische Dag". The programme included the following lectures on bryophytes:

H.J. During - Succession studies on woodland bryophyte vegetation.

A. Touw - The new moss flora of the Netherlands: problems and progress.

M.A. Bruggeman-Nannega - On the *Fissidens crassipes* complex.

A.J. Luiting - Bryophyte flora and vegetation of Spitsbergen.

Mimeographed abstracts of the papers (in Dutch) are available free of charge from the organisers, c/o Dr. S.R. Gradstein, Institute of Systematic Botany, Heidelberglaan 2, Utrecht, The Netherlands.

## UNE NOUVEAUTE

NOTRE vénérable revue, la *Revue Bryologique et Lichénologique*, paraissant depuis 1874, fait peau neuve et vous invite à reporter votre fidélité sur

CRYPTOGAMIE  
BRYOLOGIE ET LICHENOLOGIE

Le premier numéro a paru le 15 mars 1980. Afin de ne pas déranger vos habitudes de bibliophile nous avons conservé notre format. Mais nous espérons bien, grâce à vous tous, améliorer encore son contenu. Merci à tous!

Laboratoire de Cryptogamie, 12 rue Buffon, 75005 Paris.

## A Carribean Expedition

THE INSTITUTE of Systematic Botany, University of Utrecht, is organising a botanical expedition to the West Indian island of Saba, Netherlands Antilles, in the period of August - September 1980. Bryological collecting will be carried out by M.W. van Slageren, who is currently engaged in a monographic study of *Brachiolejeunea* (Lejeuneaceae) with Dr. S.R. Gradstein. Those interested in receiving material of particular bryophyte taxa from Saba for special research purposes should write to Mr. van Slageren, Institute of Systematic Botany, Heidelberglaan 2, Utrecht, The Netherlands who will try to comply with their requests.

## Letters to the Editor

## CODE CRACKERS CORNER

IT WAS R. Rednaz (— A good old man sir; he will be talking; as they say 'when the age is in, the wit is out'— from Shakespeare's Much ado about nothing, III, v.36) who sent puzzles Nos. 1 and 2 which were published in the last issue of The Bryological Times (No. 2, p.3). The correct solutions are as follows:

No. 1: The students handbook of British mosses, H. Dixon. Die Bryophyten meiner zweiten Reise durch Bolivia, T. Herzog.

No. 2: *Schistostega pennata*, *Buxbaumia aphylla*, *Dawsonia grandis*, *Phyllogonium viscosum*, *Spiridens reinwardtii*, *Splachnum luteum*, *Andreaea wilsonii*, *Ephemeropsis trentepohlioides*, *Rhizofabronia sphaerocarpa*, *Exodictyon blumii*.

Seven replies were received and all were correct, the following being the Roll of Honour:-

M. Crundall (Macclesfield), H. Kaja (Münster), J. Lewinsky (Copenhagen) C.M. Matteri (Buenos Aires), W. Schultze-Motel (Berlin), B.C. Tan (Vancouver), R. van der Wijk (Groningen).

Congratulations to all, most of whom said they had greatly enjoyed themselves.

Professor Dr. Hans Kaja was sufficiently moved by the experience to write in verse to the Editor who adds his side of the story - just for the record:

There once was a cryptogram writer  
who bothered the code enlightener  
with a superfluous letter  
making *Splachnum* not better  
or should it as "*Sphlachnum*" be  
brighter?

Dear Sir, the code needs to be brighter,  
but extras do not make it lighter,  
the Editor winced,  
but smiled as he glimpsed,  
that the errant 'c' came from compiler,

Then the Editor tackled the writer,  
(he wanted to show who was mightier!)  
Rednaz lacked contrition,  
said it was condition,  
misspell it or lose all-the blighter!

It is likely that this is not the last of Rednaz as he is threatening to send more copy!

## BRYANGIUM - AN ILLOGICAL, UNDESIRABLE AND SUPERFLUOUS TERM

Dear Sir,

I agree with Dihoru(1980) that the terms "inflorescence" and "flower" should be avoided for bryophytes, in spite of the opposite opinion expressed by my dear friend George Scott in No.2 of The Bryological Times. As is pointed out in every botanical textbook bryophytes have no structures which are homologous to the inflorescences or flowers of higher plants.

This does not mean that I adhere to a terminological purism e.g. the leaves of bryophytes are not homologous to those of higher plants. Indeed are leaves of Jungermanniales homologous to those of the Bryopsida (Musci)? In theory we could replace them by "moss leaves" or "phyllids" as proposed by Dixon(1932, p.396). But in this case I prefer to retain the term "leaf" for bryophytes also in accordance with the customary universal usage. In practice I believe, it hardly causes confusion.

The use of the terms "inflorescences" and "flowers" for bryophytes is more annoying as their use violates fundamental principles, remembered by most students from their lessons on botanical morphology. But replacing the terms "inflorescence" and "flower" as used in bryology by "bryangium", as proposed by Dihoru(198) would, I think make the matter worse.

"Bryangium" is illogical because a gametangium or a group of gamet-angia (archegonia and/or antheridia) would become a part of the "bryangium". i.e. an -angium would become a part of an -angium or a part would be the same as the whole.

"Bryangium" is undesirable because throughout the whole plant kingdom -angia are restricted to structures with a single one-pieced wall enclosing something (gametangia, sporangia, Angiospermae). This is in best accordance with the meaning of the greek angios (=vessel), from which these botanical terms are derived. In contrast the term "bryangium" strongly conflicts with the meaning of -angia in its existing frequent and universal usage in botanical terminology and with the meaning of the greek stem. Therefore, "bryangium" is highly undesirable not only for bryology but also for botany as a whole.



"Bryangium" is superfluous because suitable terms already exist. What was not considered by Dihoru (1980) is that the situation is different for Bryopsida (Musci) and Hepaticopsida (Hepaticae). For Hepaticopsida gynoecia and androecia are in wide use by recent authors e.g. J. Engel, S.R. Gradstein, S. Hattori, H. Inoue, R.M. Schuster, and J. Váňa and are quite suitable terms. Their constituent stems gyn- = ♀, andr- = ♂ and oec- (from the greek oikos) = house are in full accordance with the botanical facts. From the last stem (oik-) are also derived aut-, par-, mon- and dioicous. Recently Gradstein (1975 p.26) suitably proposed gametoecia as a term for gynoecia and androecia together. Of course, the possibility exists to speak of ♂, ♀ and ♂ gametoecia.

For Bryopsida (Musci) the terms perigonium and perichaetium are mostly employed for the surrounding cover of antheridia and archegonia, respectively. Are bryologists unhappy with these terms? Do they cause confusion? If so, I suggest a check to see if the terms used for Hepaticopsida could also work for Bryopsida. Of course, it would be reasonable to have the same terms for homologous structures throughout bryophytes. To discuss the advantages and disadvantages of such a change is mainly a matter for the muscologists.

- Dihoru, G. 1980. Can bryangium be accepted? Bryol. Times No. 1:6.  
Dixon, H.N. 1932. Classification of mosses. In F. Verdoorn, ed. Manual of bryology. The Hague.  
Gradstein, S.R. 1975. A taxonomic monograph of the genus Acrolejeunea (Hepaticae). Bryoph. Bibl. 4:1-162.

Picler Grolle, Sektion Biologie,  
Friedrich-Schiller-Universität,  
DDR-69, Jena.

Dear Editor,

I came across the equivalent term "gametoecium" in an article by J. Lewinsky (Lindbergia 4: 57-103, 1977). I have since found this term useful in my own publications, and recommend it to others. I don't know who coined it.

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## Obituaries and Biographies

BILEWSKY, Felix in October, 1979.

REYMENT-GROCHOWSKA, Irene on 6 May, 1979.

Bang-Jie Chen 1907-1970.

Mrs. C.L. Wan, widow of the late Pan-chieh Chen as he is better known in bryological literature, has sent a short biography of her late husband. Together with a charming portrait, it is planned to publish it in a forthcoming issue of Taxon.

Herman Persson 1893-1978

As it seems not to be generally known that the Swedish bryologist Herman Persson died on the 14 August, 1978 (he was born 25 July 1893), attention is drawn to an appreciation with portrait by Timo Koponen published in Luonnon Tutkija vol. 83: 20-21, 1979. No bibliography is included.

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### PRODUCTION PROCEDURES FOR The Bryological Times

ARRANGEMENTS have now been made for Michiel A. van Slageren, a graduate student at the Instituut voor Systematische Plantkunde, Utrecht, to take over responsibility for production and distribution of The Bryological Times. All editorial matters including composition and typing will be undertaken at Bush where a master copy of each issue will be produced. After proving, and the printing of a small number of copies for the records, complimentary issues etc., the master copy will be flown to the IAPT office in Utrecht where the main printing and distribution will take place under the management of de Heer van Slageren.

There is no doubt that the whole membership is grateful to de Heer van Slageren for undertaking this vital job and wish him every success.

Editor.

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ITEMS FOR THE NEXT ISSUE to be with the Editor, Dr. S.W. Greene, Institute of Terrestrial Ecology, Bush Estate, Penicuik, Midlothian EH260QB, Scotland by 15 June at the latest.

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