

The Bryological Times  
March 1981, Number 8  
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CO-EXISTENCE OR CO-OPERATION?  
Uneven Ways To Go Forward

by G.S. Mogensen

LIKE A TEENAGER, IAB grows without really knowing in which direction. As could be expected, symptoms of growing pains have increasingly presented themselves from a variety of angles.

This spring the election of new officers is taking place and here a mail ballot, and not a major meeting, is the method of IAB. In accordance with the present Constitution, the President has appointed a Nominating Committee to produce a list of candidates; other nominations, endorsed by three members, may be sent to the Secretary and, where possible, these shall be included in the mail ballot. Already last autumn, members of the Nominating committee recommended a change of the present Constitution to allow a more direct procedure.

The relationship between IAB and IAPT may have remained in the dark until the wording of the Constitution was circulated to members for the first time, in November 1980. At present IAB is a committee under IAPT. As IAB has wanted to attract bryologists also from research fields other than taxonomy, a special arrangement with IAPT was made to allow bryologists to become associate members with IAB only, and at a reduced fee. Recently, S.W. Greene understood this arrangement to reflect two "classes" of bryologists under IAB and he has claimed the need for a constitutional revision at this point. Earlier, R. E. Longton described some consequences of the IAB/IAPT relationship and he concluded that IAB is confronted with the choice either to continue to cultivate taxonomic aspects mainly or to weaken or cut the ties with IAPT. S. R. Gradstein replied by citing the Constitution, which talks about all bryologists, amateurs as well as professionals. However, the Constitution also says that "The Association shall be affiliated to the IAPT", thus giving a clear emphasis to the taxonomic ties.

Whether I was the first to request a specific adjustment of activities between IAB and the regional bryological societies (RBS) is not clear to me, but this happened in the spring of 1978, when IAB had decided to start a new review journal. In conclusion, the President imposed one adjustment by excluding original research papers from the new journal. Although more points could be made about this case, it is mentioned here as it revealed that IAB possesses no mechanism by which presumed frictions with RBS can be solved smoothly. Similarly, no structure exists to promote co-operation between IAB and RBS.

Thus, IAB is sheltering under the wings of a taxonomic organization, but at the same time it is aiming towards spokespersonship for all bryologists regardless of research field. IAB's policy towards the RBS is co-existence rather than integral co-operation.

But how sound is this IAB platform, its structure and policy, for the future of IAB and is the shape and position of this platform suitable for bryology in general to promote international communication and co-operation?

S.W. Greene recently used the IAB Directory as a basis for estimating the total number of bryologists in the world. However, in Great Britain, in the Netherlands, and in the Nordic countries the numbers of bryologists approximate 300%, 275% and 150% respectively of those listed in the IAB Directory. Although bryologists of these countries have been informed effectively about IAB, still less than 13%, 26% and 17% respectively, maintain IAB membership. Actually, IAB seems to have the strongest foothold in areas where no alternative exists and where the bryologists are few (Fig. 1), a fact which carries a significance in itself.

Presumably the main research fields of interest to RBS members who refrain from IAB membership are floristics, systematics, and bryogeography which, however, show balance or

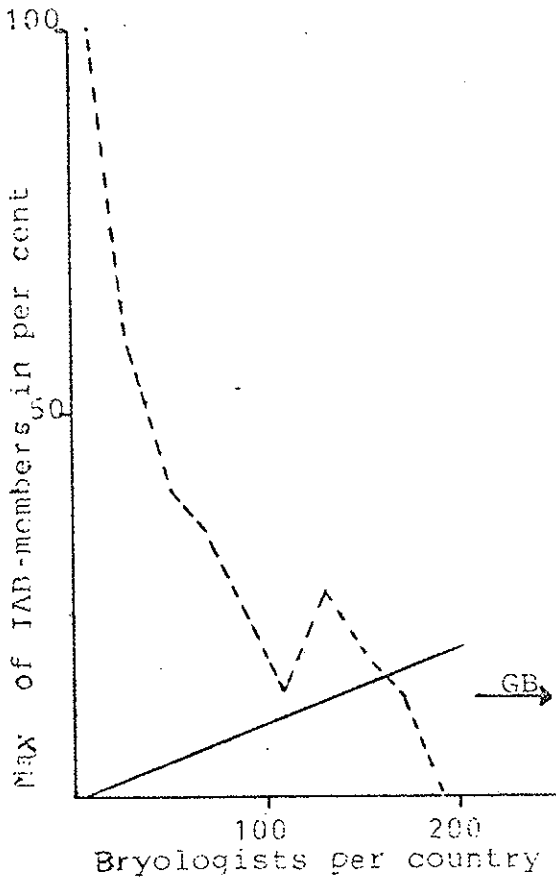


Fig. 1. Broken line: Correlation between number of bryologists per country and the percentage of these maintaining IAB membership; only highest values per class are shown; graph based on running means of 3 subsequent classes. Solid line: Correlation between numbers of IAB members and all bryologists per country; only the linear regression line is shown. Data in part obtained from IAB Directory. GB: Great Britain.

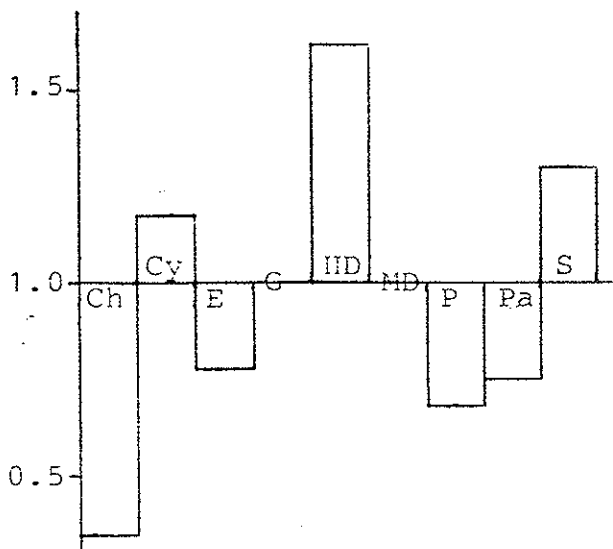


Fig. 2. Ratios between research field frequencies of IAB members and bryologists in general, as listed in the IAB Directory. Columns above the horizontal axis show over-representation in IAB.

over-representation among the present IAB members (Fig. 2). One might suspect that the present IAB policy will prove ineffective also in the future in such areas where RBS are active.

Considering authors of bryological papers, I have selected an alphabetical list of 258 papers published recently. For each of them I have classified the contents according to the principles applied in the IAB Directory. The 277 authors form a profile, which is almost a reverse version of the characterizing the IAB membership (Fig. 3), and approximately 30% of these authors hold membership of IAB (1980).

Thus, on "author"-side, up to 70% are still to be gained for IAB; on the "RBS"-side, between 75% and 85% have refrained from IAB membership. Obviously, IAB has still a long way to go before spokespersonship for bryology can be claimed, and the present policy leaves little hope for this to happen in the near future.

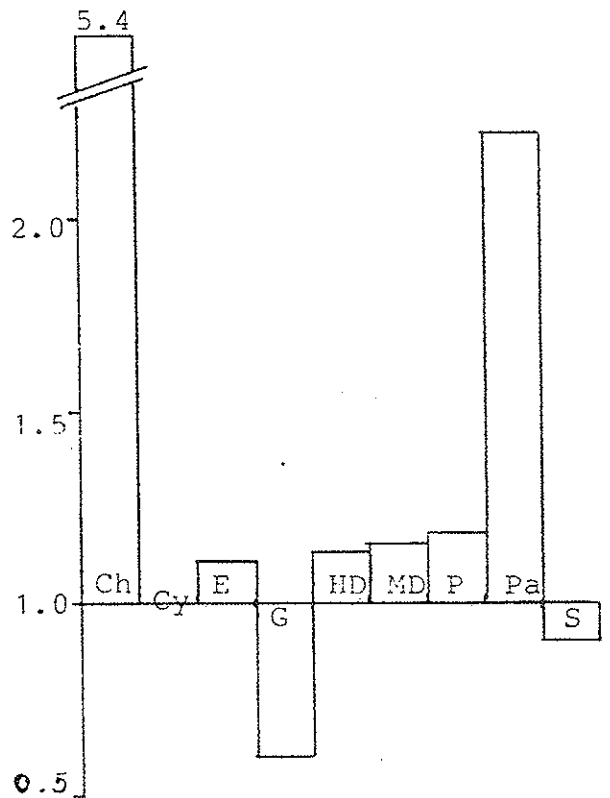


Fig. 3. Ratios between research field frequencies of authors and frequencies of research field of interest to IAB members, as listed in the IAB Directory. Columns above the horizontal axis show under-representation in IAB

As one way out of this, IAB could change its Constitution and amend the wording of "professionals as well as amateurs". In practice, this would imply maintenance of co-existence with the present and coming (!) RBS and a giving up of reaching 75% - 85% of the bryologists organized there. Alternatively, as has been done within plant physiology and microbiology in Europe, IAB could change from co-existence to active co-operation by establishing a forum in which RBS can meet and make co-ordinated plans for a period of years. This would not violate the fundamental principle of the present organizations, this being the individual member.

This choice is tied closely to the IAB/IAPT relationship. Given that IAB is not limited to taxonomy in particular a structure, which releases the non-taxonomically oriented parts of IAB from IAPT, has to be proposed. Technically, this could be done if an independent IAB established a Standing Committee to handle all matters related to taxonomy; this committee

might serve also as a committee under IAPT, if acceptable to that organization (Fig. 4.) A second Standing Committee could constitute a forum for RBS to meet in; in this way committees for education, nature conservation etc. could find a natural place to act from within the IAB organization. In other words, ecologists and not taxonomists would develop the ecological activities under IAB, cytologists would .....etc.. When new research areas become important, these can be developed without involving other research areas more than intended. Basically, this flexibility is obtained by a separation of the political mandate (Council) from the scientific mandate (Standing Committees).

IAB is one part of a scientific world which doubles its production every 11 to 14 years and in which still more research fields become of interest and relevance. Unless our international organization adopts a structure which gives the Council the flexibility needed to expand in membership as well as in activities during the next decades, it may prove unable to solve the problems of keeping a rapidly expanding research field reasonably well together.

After 11 years of experience, a change from co-existence to co-operation with the other organizations within bryology seems nothing but a natural consequence of a successful start, and a proper step to ensure that everybody is kept in touch with each other - - amateur as well as professional.

As Chairman of the ad hoc committee presently working to propose revisions to the Constitution, I am asking colleagues for arguments *pro et contra* the above structure (Fig.4). So far only two have reacted in the negative, while more than twenty have been in the positive. All members who feel strongly against this structure are urged to write to me with their arguments as soon as possible to allow members of the Committee to take all aspects into consideration.

Botanical Museum, Gothersgade 130,  
DK-1123 Copenhagen K, Denmark.

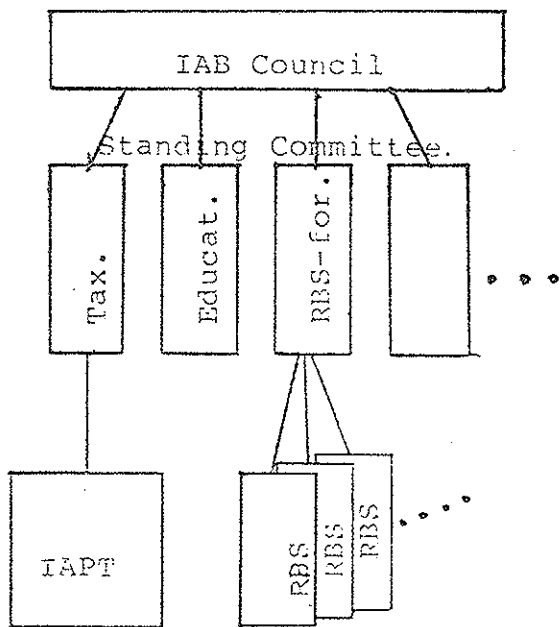


Fig. 4. One possible new structure of IAB. Each major field of interest is handled by a Standing Committee and through this committee relations can be established with other organizations active within the same scientific sphere. The structure allows IAB to operate freely in a variety of unrelated fields at the same time.

INTERNATIONAL ASSOCIATION OF BRYOLOGISTS

INST. VOOR SYST. PLANTKUNDE  
TWEEDE TRANSITORIUM  
UITHOF  
UTRECHT  
THE NETHERLANDS

At the request of Dr. Mogensen his article is being published here unaltered as it was submitted. The viewpoints expressed should be considered strictly those of the author.

S.W. Greene,  
editor

S.R. Gradstein,  
secretary I.A.B.

**IAB Announces**

JAPANESE BRYOLOGICAL JOURNALS

**New Bryological Serial**

THE ADVANCES IN BRYOLOGY is an official publication of the International Association of Bryologists, and will appear biennially. It has as its aim the presentation of authoritative and up to date reviews, essays and surveys of the different fields of bryology written by established authors, many of whom are leaders in their fields.

The appearance in 1932 of a Manual of bryology, edited by Fr. Verdoorn and published in the Hague by Martinus Nijhoff (reprinted 1967 by A. Asher & Co., Amsterdam) was intended to give a comprehensive account of "recent" research in the subject. It had an immediate and beneficial impact. Today, almost 50 years later, no one volume can encompass adequately the many facets of the steadily expanding field of bryology. And so the present series has been conceived as the best means of keeping students, lecturers and research workers abreast of developments. If it succeeds in keeping bryologists and other specialists aware of the changing frontiers of this branch of the plant sciences it will have fulfilled its purpose.

The Advances in bryology will be published by J. Cramer (Braunschweig) to whom the manuscripts for Volume 1 were sent before the end of last December. There are 7 contributors to this Volume as follows: M. Bopp (Developmental physiology); M.C.F. Proctor (Physiological ecology); C. Suire & Y. Asakawa (Chemistry and chemotaxonomy); Z. Iwatsuki (Taxonomy); B. Crandall-Stotler (Morphology and anatomy); W. Frey (Morphology and anatomy) and B.O. van Zanthen and T. Pócs (Distribution and dispersal).

The editor (Dr. W. Schultze-Motel, Berlin) is assisted by an editorial committee of: Prof. E.-J. Bonnot (Lille); Dr. S.R. Gradstein (Utrecht); Dr. S.W. Greene (Penicuik); Dr. S. Hattori (Nichinan) and Dr. N.G. Miller (Cambridge, Mass.). Authors considering offering papers should write to the undersigned who will be pleased to supply further particulars.

W. Schultze-Motel, Botanischer Garten und Botanisches Museum Berlin-Dahlem, Königin-Luise-Strasse 6-8, Berlin 33.

THERE SEEM TO BE some difficulties for foreign bryologists to get to know some of the journals published in Japan which include bryological papers. The publications from the Hattori Botanical Laboratory (J. Hattori bot. Lab. and Miscnea bryol. lichen.) are so well known to bryologists that no further notes on them seem necessary.

The following three journals are of the greatest importance to bryologists:

1. Proceedings of the Bryological Society of Japan (Editors: Drs. Z. Iwatsuki, K. Ono, K. Nehira). This is published 3-4 times a year by the Bryological Society of Japan, the latest issue being Vol. 2, no. 11 (July 1980). The papers are written in Japanese with an English title and, sometimes, with an English summary; they are mostly original contributions but usually not of nomenclatorial significance. For further information, contact Dr. H. Inoue, National Science Museum, Tokyo.

2. Hikobia (Editor: Dr. H. Suzuki) This is the Journal of the Hiroshima Botanical Club and is published by the Botanical Institute, Hiroshima University, Higashisenda, Hiroshima 730. This journal is devoted primarily to the flora (mainly mosses, hepatics and other lower plants) and vegetation of Japan and published usually once a year. Bryological papers in Hikobia are all original contributions and include nomenclatorially important works. The papers are written in English or in Japanese with an English title and summary. For further information write to HIKOBIA, Botanical Institute, Hiroshima University.

3. Bulletin of National Science Museum, Tokyo, Ser. B (Botany). This Bulletin is published 4 times a year, and it often includes original bryological papers mostly on taxonomy and cytology. It is available only by exchange with journals from other institutes, arrangements being made through the Library, National Science Museum, Ueno Park, Tokyo 110.

Several other journals published in Japan may sometimes have bryological papers, as the Journal of Japanese Botany (published by the Tsumura Laboratory) and the Botanical Maga-

zine, Tokyo (published by the Botanical Society of Japan). If readers have any enquiries about any of these journals or bryological papers published in Japan, they are invited to write to the author of this note.

The following Japanese titles, with their English equivalent, may be of interest to bryologists:

## 植物学雑誌

Botanical Magazine, Tokyo.

## ヒコビア

Hikobia

## 植物研究雑誌

Journal of Japanese Botany

## 蘚苔地衣雑報

Miscellanea Bryologica et Lichenologica

## 日本蘚苔類学会会報

Proceedings of the Bryological Society of Japan

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Volume

号

No.

The Bulletin of the National Science Museum, Tokyo does not have a Japanese title.

Hiroshi Inoue, Department of Botany, National Science Museum, Hyakunin-cho Shinjuku, Tokyo 160, Japan.

Request for comments on a method of illustration

A recent note by Dr. N. Kitigawa (*Miscnea bryol. lichen* 8(9): 188-190) that the spiral thickening of bryophyte elaters is sinistrorse (left-handed) has caused me to rethink my way of making illustrations.

I draw the habit and structure, using camera lucida and pencil, on thin transparent paper (onionskin), which is very convenient and easy to file in species folders and to compare one drawing with another. This method is used in my routine work of taxonomic studies and making identifications. When a drawing needs to be published the onionskin paper is placed face down on hard drawing paper and pressure is applied from the back over the pencil line. Inking is then done on the lead lines marked on the drawing papers.

I rarely draw directly on the hard drawing paper. Consequently most of my published illustrations are reversed as regards "right and left". I thought this method would cause no problem since no regularity of bilateral symmetry, which is related to the idea of "right and left", is known in the morphological structures of the Hepaticae.

I would like to request comments from bryologists on this method of illustration, excluding the case of the elaters. Should my method of illustration be changed to present a "true figure" of the "right and the left"? The fact that some published illustrations of spiral bands of elaters are right-handed suggests that there may be different methods of illustration related to the "right and left" in use by bryologists.

Y. Kuwahara, 10-2139, Mii-machi, Kurume, Fukuoka, 830 Japan.

### ELECTIONS TO IAB COUNCIL

BALLOT PAPERS bearing the names of candidates for President, First and Second Vice-President and 5 Councilors have been circulated to members. Staying in Council for the period 1981-1987 will be L.E. Anderson (as Past President), S.R. Grastein (as Secretary) and S.W. Greene, T. Koponen, W.B. Schofield & W. Schultze-Motel as Councillors.

Members are reminded that completed ballot papers should be returned before 15 April 1981 to the Chairman of the scrutinizing committee c/o Dr. B.O. van Zanten, Biological Centre, Department of Plant Systematics, P.O. Box 14, Haren (Gr.), The Netherlands.

## Vacancy Suitable For Bryologist

THE NEW YORK BOTANICAL GARDEN

announces

A POSTDOCTORAL MUSEUM INTERNSHIP 1981-1982 in curatorial techniques and herbarium management for one year, beginning 1 September 1981. The stipend is \$14,000 for one year. Health insurance can be arranged.

This program is offered to a person wishing to receive training in curating and managing systematics collections. Following detailed instruction sessions, the trainee will participate actively in all aspects of herbarium work. Applicants should submit a curriculum vitae and a letter detailing how this program will be beneficial to them, and should ask that letters of recommendation be sent directly to the Garden.

Applications and three letters of recommendation should be sent to:

Dr. Patricia K. Holmgren,  
Head Curator,  
New York Botanical Garden,  
Bronx, New York 10458, from whom  
further particulars can be obtained.

The applicant's file should be complete by 15 April 1981. Notification of acceptance will be made before 1 May 1981.

Information supplied by William R. Buck.

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### ANSWERS TO CRYPTOGRAM CRYPTOGRAMS 3-5

Puzzles Nos. 3-5 were published in *Bryol. Times* 6:5, November, 1980.

#### Cryptogram No. 3:

*Dozya, Wijkia, Voitia, Roellia, Schwetschkeopsis, Husnotiella, Neckera, Puiggariella, Schradobryum, Uleopsis, Bryhnia.*

#### Cryptogram No. 4:

*Helodium blandowii, Anomodon rugellii, Bryum klinggraeffii, Kiaeria blyttii, Distichium hagenii, Claopodium whippleanum, Octodicerax julianum.*

#### Cryptogram No. 5:

Katalog literatury po mokhoobraznym, Tsvetkova et al. Conspectus of bryological taxonomic literature, Greene & Harrington.

The following three readers supplied correct answers:

L. Freese-Woudenberg (Amsterdam);  
R. van der Wijk (Groningen) and  
J. Vana (Praha).

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## Personalia

FROM APRIL 1st until the end of August Dr. R. Duell will be in the USA. At first he will work in the New York Botanical Garden, Bronx. He intends to study and compare the moss flora of US-America and Europe. For this purpose he is planning some excursions into different parts of the United States, especially to characteristic geographical areas. The advice and help of bryologists will be welcomed. He is willing to gather material of special groups if requested.

Universität Duisburg, Gesamthochschule  
Duisburg, Postfach 10 16 29, D-4100  
Duisburg 1. B.R.D.

DR. T. KOPONEN, of the Botanical Museum, University of Helsinki, has been appointed Head Curator of the Cryptogamic Herbarium from 1st February 1981. He has been filling the post in an acting capacity since 1 December 1979 when Dr. Teuvo Ahti, the former Head Curator, was nominated as an Extraordinem Professor of Cryptogamic Botany (Systematics) in the University of Helsinki.

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## EXCHANGE AND MART

WANTED: Müller, K. 1954-57. *Die Lebermoose Europas (Musci hepatici)*. Dr. L. Rabenhorst's *Kryptogamen - Flora von Deutschland, Österreich und der Schweiz*, Leipzig, Akademische Verlagsgesellschaft, Geest & Portig K-G, Bd. 6, Aufl. 3, Lief 4-9, Seite 481-1365 incl.

Note: Some parts only required.

Dra. G.G. Hässel de Menéndez, Museo Argentino de Ciencias Naturales "Bernardino Rivadavia", Avda Angel Gallardo 47, CC10, Suc 5, 1405 Buenos Aires

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## Desiderata

MRS. GABRIELLA KIS (Research Institute for Botany of the Hungarian Academy of Sciences, 2163 Vácátót, Hungary) is beginning a worldwide revision of the genus *Daltonia* and would be interested to hear of material of the genus awaiting study.



I AM PREPARING MY "Doctorat 3ème cycle" on the bryophytes of the Lebanon.

I would be very grateful for information about any herbarium in Europe or elsewhere where the "Musci-nées of Lebanon" are housed.

Mrs. Sabah Charouk, Dept. of Natural Sciences, Faculty of Sciences, The Lebanese University, Hadeth, Beirut, Lebanon.

## Recent Publications

Bryologist, Vol. 83, No. 3, 1980.

Cryptogamie Bryol. Lichen, Vol. 1, Fasc. 4, 1980.

Nova Hedwigia Bd. 32, Ht. 2-3, 1980; Ht. 4, 1980; Bd. 33, Ht. 1-2, 1980.

CATCHESIDE, D.G. 1980. Mosses of South Australia.

Price: Austral. \$13.20.

Available from Publications Office, Government Publications Sales, 282 West Beach Road, Netley, South Australia 5037. Well illustrated and covers known species in South Australia as well as in Central Australia.

CRUM, H. & L.E. ANDERSON, 1981. Mosses of Eastern North America. Vol. I, pp. 1-663, figs. 1-314 (interspersed); Vol. II, pp. 664-1314, figs. 315-637. Columbia University Press, New York. Available from Columbia University Press, 136 South Broadway, Irvington-on-Hudson, N.Y. 10533. Price: US \$60.00.

It is the intention to issue in due course keys to the genera and keys to the species, a short introduction on how to study mosses, etc., plus an illustrated glossary in a paperback edition hopefully cheap enough for students to purchase.

VITAL, D.M. 1980. Erpodiaceae (Musci) do Brazil. Dissertação apresentada para a obtenção do grau de mestre na área de Biologia Vegetal. Universidade Estadual de Campinas "UNICAMP" Campinas, [São Paulo]. The author. 135pp. First survey of this family in Brazil. Erpodium and Aulocopilum (new for Brazil) discussed. Six species occur, four being recorded for first time.

[Bryomania, Issue 1. Dec. 25, 1980; Issue 4, April 1, 1981].

## DIARY

SECRETARIES OF BRYOLOGICAL SOCIETIES, organizers of symposia, workshops or anyone with knowledge of a meeting or event of interest to bryologists which has not yet taken place and has not already been noticed in these columns are asked to send details direct to the Editor of this Newsletter. The more complete and up to date the diary is, the more useful it will be.

ABLS = American Bryological and Lichenological Society.

BBS = British Bryological Society.

IBC = International Botanical Congress

SBLS = Swiss Bryological and Lichenological Society.

1981

1 March. Latest date for registration for June ABLS Annual Meeting at Highlands.

9-12 March. Ulm/Donau (BRD). Palaeobotany of bryophytes in 6th Symposium on morphology, anatomy and systematics of plants. See Bryol. Times 6:6.

8-15 April. Bury St. Edmunds, Suffolk (England). Spring field meeting of BBS. Details to be announced in Bull. BBS No. 37.

15 May. IBC latest date for registration at special rate and for submission of abstracts. See Bryol. Times 6:6

7-12 June. Highlands, North Carolina. Annual meeting of ABLS. Details from Dr. T.H. Nash, Dept. of Botany & Microbiology, Arizona State Univ. Tempe, AZ 85281, U.S.A.

3-5 July. 25th Annual Assembly of SBLS at Conservatoire Botanique, Genève. Lectures and excursions to the Alps in Haute-Savoie.

27 July-11 Aug. Newtonmore and Tyndrum (Scotland). Summer field meeting of BBS. Details to be announced in Bull. BBS No. 37.

Mid Aug. Bloomington, Indiana (University of Indiana). Bryological and Lichenological Section of the Botanical Society of America. Meeting in conjunction with American Institute of Biological Sciences. Further details from Dr. S. Tucker, Dept. of Botany & Plant Path. Louisiana State University, Baton Rouge, LA 70803, U.S.A.

- 21-28 Aug. Sydney IBC. For programme details see Bryol. Times 7: 7-9. See 3:4 and 1:5 regarding proposed pre-Congress field trip.
- 27-31 Aug. SBLS Field meeting in canton Obwalden, Central Switzerland. Organizer Dr. E. Urmi.
- 18-20 Sept. BBS. Annual paper reading meeting. Venue to be announced.
- 21-22 Nov. Taxonomic workshop meeting of BBS. Venue to be announced.

1982

June (mid). Prague. 3rd biennial meeting of Central and East European bryologists. See prelim. notice in Bryol. Times 5:5.

1983

Feb. Dunedin (New Zealand). Pacific Science Congress. See prelim. notice Bryol. Times 3:4.

GENEVA WORKSHOP PROCEEDINGS

AFTER AGREEING a new schedule for submission of the Workshop Proceedings with Dr. P. Geissler when we met in Poznań last summer, Dr. Geissler spent a week working with me in Penicuik last October. Much was accomplished and we agreed that we should be able to complete the editing by December. On her return, Dr. Geissler took all the manuscripts to Geneva, corrections etc. being forwarded to her. When I departed for South America on 1 January 1981 I had completed all my work, Dr. Geissler finishing her work earlier.

During the last days of January, in Buenos Aires, I received a letter from Dr. Geissler saying that the Geneva authorities had unexpectedly decided it would not be possible to publish the Proceedings in 1981. The reasons for this decision are still not completely clear, I hope to be able to give a more positive report in the next issue.

S. W. Greene.

**Deaths**

WIJK, R. van der on the  
16 February 1981, aged 85 years

## BRITISH BRYOLOGICAL SOCIETY

Paying sterling in dollars

BRYOLOGISTS (and others) have long been amused by the "quaint" ways of the British! What is not so amusing is the amount charged by US banks to buy pounds, a problem similar to the UK charges for dollars.

Now, due to a generous offer by Dr. Nancy Slack, Biology Department, Russell Sage College, Troy, New York 12180, there is a simple solution to one problem. Bryologists wishing to pay their annual dues to the British Bryological Society can send a dollar cheque for US \$15 made payable to Dr. Slack who has kindly agreed to act as overseas agent for the Society. BBS members using this method should remember that if on the 31st March in any year they are in arrears with their payment, they will not receive the Journal of Bryology.

Information about joining the BBS may be obtained from the Society's Honorary Membership Secretary, Mr. George Geyman, 48 Gascoigne Gardens, Woodford Green, Essex IG8 9NU, England

ITEMS FOR THE NEXT ISSUE to be with The Editor, Dr. S.W. Greene, Institute of Terrestrial Ecology, Bush Estate, Penicuik, Midlothian EH26 0QB, Scotland (Telex BUSITE 72579G) by 15th April at the latest.

CORRESPONDENCE CONCERNING MAILING etc. to M.A. van Slageren, Instituut voor Systematische Plantkunde, Heidelberglaan 2, 3584 CS Utrecht.

THE INTERNATIONAL ASSOCIATION OF BRYOLOGISTS publishes The Bryological Times every 2 months, the Bulletin of Bryology every 6 months and Advances in Bryology every 2 years. Items for the Bulletin should be sent to Dr. S.R. Gradstein by the 1st May or the 1st November each year while submission date for the Advances should be agreed with Dr. W. Schultze-Motel (Berlin).

For further details regarding the Association, membership (currently US \$5 p.a.) etc., write to the Honorary Secretary, Dr. S.R. Gradstein, Instituut voor Systematische Plantkunde, Heidelberglaan 2, 3584 CS Utrecht, The Netherlands.