

The BRYOLOGICAL TIMES

Newsletter of the International Association of Bryologists

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July, 1983.

No. 21

国際蘚苔類学会東京大会

IA B World Conference of Bryology, Tokyo.

22 - 28 May, 1983.

AN ESTIMATED 150 delegates gathered at the National Science Museum, Tokyo, 22-28 May, 1983 under the Chairmanship of the President of our Association, Dr. Hiroshi Inoue, for what was undoubtedly the largest gathering of bryologists the world has seen so far. And see and hear about it the world did, for regular reports appeared on Japanese television and in the daily press. People came from all corners of the globe, with the notable exception of the Soviet Union, there being an estimated 100 overseas visitors, all of whom enjoyed a week of fruitful bryological discussion and camaraderie.

The fact that everything went with near clockwork precision was due in no small part to the excellent preparation by the Organizing Committee, under the Chairmanship of Dr. S. Hattori. One of its achievements was to raise the sum of US \$ 40,000 towards expenses. The composition of the Organizing Committee and a list of the Agencies which supported the Conference so handsomely, is given elsewhere in this issue (p. 3). All who worked to make the Conference such a noteworthy event merit a real feeling of gratitude from the International bryological community.

While the quality of the scientific debate depended on the calibre of the delegates - and with few exceptions it was high and in the best tradition of bryological scholarship - the atmosphere of constant expecta-

tion and enjoyment was sustained and heightened by the unceasing efforts of our Japanese hosts who spared no trouble to cater for our needs.

It was their efforts and the "extras" that made it all go with such a swing. For example, there was a travel agent in attendance to reconfirm flights, book tours, etc. There were photographers capturing "unforgettable" moments and some hours later presenting proofs for our inspection (some examples of which will appear in future issues). There was a group of students ready to answer every query and need; and there were suggestions on how to spend one's free day, complete with colourful tourist literature of Tokyo's attractions by day and night. For the post Conference tours there were specially-prepared handbooks and leaflets, some of which had obviously taken a lot of time to prepare and get printed. And to add an air of festivity there were a number of superbly-organized and highly-successful receptions.

But above all there was the charm of Japan and its people, its food, its sights, its temples and shrines; historical Japan, modern Japan, bryological Japan, all with an unmistakable lure, yet yielding intellectual enlightenment and a feeling of satisfaction once the effort had been made to investigate and understand an object of curiosity. Everywhere there was a sense that all the effort, trouble and expense had been very worthwhile, there being a conspicuous lack of

grumbling or complaint. It was not surprising, therefore, that the final resolution of the closing session (see later, p. 4) was passed with such enthusiasm and sincerity.

It is the intention that the next issue of this Newsletter will carry a copy of the Conference photograph, a report on the Conference itself and the post Congress tours, and articles from delegates giving their impressions of moss gardens, field trips, bryologists, etc., etc. While some people have already promised articles (and one has been received), the Editor would be very happy to hear from anyone with an amusing story or a picture, or a personal reflection of interest to others about what was surely the most memorable meeting so far organized under the auspices of IAB.

As no programme of the meeting was published beforehand, the accompanying outline is offered as an indication of the scope of the contributions. It is based on the booklet which contained the Abstracts of the papers, but includes those changes in the programme that were notified to the Editor. The 55-page booklet, edited by Drs. Z. Iwatsuki and S. Inoue is entitled "The World Conference of Bryology, Tokyo, 22-28 May 1983," and was published by the International Association of Bryologists. It includes a list of the Japanese agencies which supported the Conference, the names of the Organizing Committee and the names and addresses of the delegates.

It was an indispensable guide and best thanks are due to all the hard work of the editors and collaborators.

The Proceedings of the Conference will be published in the Journal of the Hattori Botanical Laboratory No.55 (or Nos.55 and 56 if they have to be divided into 2 parts) between February and May 1984. Authors are reminded that their contributions have to be with Dr. S. Hattori, The Editor, by 30th July 1983, if they are to be included in the Proceedings.

PROGRAMME

Monday 23 May

- a.m. Opening Session
Bryogeography C-II-1 to C-II-12.
- p.m. Symposium No.I. S-I-1 to S-I-4.
Reception by Bryological Society of Japan.

Tuesday 24 May

All day visit to Mount Fuji.

Wednesday 25 May

- a.m. Ecology C-III-1 to C-III-5.
Physiology and Morphogenesis C-V-1 to C-V-5.
- p.m. Symposium No.II. S-II-1 to S-II-8.
Reception by President of National Science Museum, Tokyo.

Thursday 26 May

- a.m. Systematics C-I-1 to C-I-7.
Morphology and cytology C-IV-1 to C-IV-6.
- p.m. Symposium No.III. S-III-1 to S-III-5.
IAB Council Meeting

Friday 27 May

Free day with optional visit to the Chichibu (limestone) area.

Saturday 28 May

- a.m. Systematics C-I-8 to C-I-18.
Morphology and cytology C-IV-7 to C-IV-8.
- p.m. Physiology and morphogenesis C-V-6 to C-V-8.
Chemistry C-VI-1 to C-VI-8.
Closing Session

Sunday 29 May

Department of Special tours.

Tour No.1 Tokyo-Kyoto, 29-30 May (2 days)

Tour No.2. Tokyo-Kyoto-Hiroshima, 29 May - 2 June (5 days)

Tour No.3. Tokyo-Kyoto-Hiroshima-Nichinan 29 May - 5 June (8 days)

LIST OF PAPERS

All changes of titles and authorship notified to the Editor have been incorporated.

SYMPOSIA

Symposium I. Phytogeography of bryophytes in Asia and the Pacific. Convenor: W. Schofield.

- S-I-1. Deguchi, H.: Structure of moss flora of Japan.
- S-I-2. Tan, B.C.: Photogeographical problems of Philippine mosses.
- S-I-3. Ramsay, H.P. & D.H. Vitt: Distribution, cytotaxonomy and sexuality of *Macromitrium* in Australasia and the Pacific.
- S-I-4. Schofield, W.B.: Geography of the bryophytes of Pacific North America.

Symposium II. Recent aspects of physiology and ecology. Convenor: M. Bopp.

- S-II-1. Spiess, L.D., B.B. Lippincott and J. A. Lippincott: Facilitation of moss growth and development by bacteria.
- S-II-2. Cove, D.J.: The role of auxin and cytokinin in protonemal development in *Physcomitrella patens* and *Physcomitrium sphericum*.
- S-II-3. Hartmann, E.: Influence of light on the development of mosses.
- S-II-4. Chopra, R.N.: Environmental factors affecting gametangial induction in bryophytes.
- S-II-5. Selkirk, P.M.: Vegetative reproduction and dispersal of bryophytes on sub-antarctic Macquarie Island and in Antarctica.
- S-II-6. Slack, N.G.: A new look at bryophyte communities: field and statistical methods.
- S-II-7. Glime, J.M.: The importance of bryophytes in a man-centered world.
- S-II-8. Longton, R.E.: The role of bryophytes in terrestrial ecosystems.

Symposium III. Bryology (and its methodology) for the 80's. Convenor: L.E. Anderson.

- S-III-1. Richards, P.W.: The bryologically under-worked regions of the world with special reference to West Africa.
- S-III-2. Basile, D.V. & M.R. Basile: Probing the evolutionary history of bryophytes experimentally.
- S-III-3. Anderson L.E.: Chromosome studies of bryophytes: an assessment.
- S-III-4. Horton, D.G.: Systematic bryology: the state of the art.
- S-III-5. Szwedkowski, J.: What do we know about the evolutionary process in hepatics.

CONTRIBUTED PAPER SESSIONS

Session I. Systematics

- C-I-1. Kumar, S.S.: An approach towards phylogenetic classification of mosses.
- C-I-2. Buck, W.R.: A reconsideration of pleurocarpous moss relationships.
- C-I-3. Nishimura, N., M. Higushi, T. Seki & H. Ando: Delimitation and subdivision of the family Hypnaceae.
- C-I-4. Pursell, R.A.: A preliminary review of the *Fissidens elegans* complex in the Neotropics.
- C-I-5. Duell-Hermanns, I.: Evaluation of different characters of *Didymodon* taxa by modern statistical methods.
- C-I-6. Volk, O.H. & E.O. Campbell: Proposal for a new subdivision of the genus *Riccia*.
- C-I-7. Lin, P.-j.: Classification of mosses; a study on Chinese Calymperaceae.
- C-I-8. Seppelt, R.D. & P.M. Selkirk: Effects of submersion on morphology and the implications of induced environmental modification on the taxonomic interpretation of selected Antarctic moss species.
- C-I-9. Haji Mohamed, M.A.: A synopsis of the genus *Rhodobryum* in Asia.
- C-I-10. Lin, S.-h.: A taxonomic revision of Phyllogoniaceae (Bryopsida).
- C-I-11. Schultze-Motel, W.: Studies in South American species of the genus *Regmatodon* (Musci, Regmatodontaceae).
- C-I-14. Geissler, P.: Delimiting characters in *Marchesia* (Lejeuneaceae).
- C-I-15. Pócs, T.: Present knowledge of *Aphanolejeunea* Evans.
- C-I-16. Campbell, E.O.: Looking at *Monoclea* again.
- C-I-17. Biradar, N.V. & D.Y. Joshi: The genus *Plagiochasma* L. et L. and its various members in India with special reference to a new species from Manashtra, India.
- C-I-18. Greene, S.W.: Bibliographical bryological data bases.

Session II. Bryogeography

- C-II-1. Duell, R.: Computerized evaluation of the distribution of European liverworts.
- C-II-2. Sérgio, C.: The distribution of Iberian and Macaronesian relict bryophytes and its bearing on moss flora evolution.
- C-II-3. Brassard, G.R.: Isolation of the bryoflora of the Island of Newfoundland, Canada.
- C-II-4. Sharp, A.J.: Geographical relationships in the Mexican bryoflora.
- C-II-5. C.M. Matteri, S.W. Greene & H. Hassel de Menéndez, G. G.: The occurrence and distribu-

tion of bryophytes between 51°-52° S Lat. in Southern Patagonia.

- C-II-6. Steere, W.C.: On the continental affiliations of the moss flora of Hispaniola.
- C-II-7. Hasegawa, J.: Distribution of Japanese species of Anthocerotae.
- C-II-8. Wu, P.-c.: Fifty years of bryological research in China.
- C-II-9. Zhang, M.-x.: The preliminary studies on the floristic characteristics and geographic distribution of Qinling (Chinling) mosses.
- C-II-11. Gao, C., K.-c. Chang & T. Cao: The historical survey and prospects of Chinese bryology.
- C-II-12. Joshi, D.Y. & N.W. Biradar: Studies in the hepatic flora of the Western Ghats with special reference to Maharashtra, India.

Session III. Ecology

- C-III-1. Lewis Smith, R.I.: Colonization and recovery by mosses following recent volcanic activity on an Antarctic island.
- C-III-2. Nakamura, T.: Development of terricolous moss communities in sub-alpine coniferous forests of Mt. Fuji.
- C-III-3. van Reenen, C.B.A. & S.R. Gradstein: Bryophyte zonation along an altitudinal gradient in the Andes of Colombia.
- C-III-4. Thaithong, O.: Bryophytes of the mangrove forest.
- C-III-5. Beever, J.E.: Moss epiphytes on tree-ferns in a warm temperate forest, New Zealand.
- C-III-6. Pant, G.B. & S.D. Tewari: Bryophyte communities associated with various mineral-rich substrates in Kumaun Himalayas.
- C-III-7. Shukla, R.M. & A. Kaul: Seasonal variation in thallus area of a liverwort community.
- C-III-8. Kaul, A. & R.M. Shukla: Population studies in Marchantiales.
- C-III-9. Lal, J.: Endangered endemic liverworts of India; a plea for conservation.

Session IV. Morphology and Cytology

- C-IV-1. Udar, R. & S.C. Srivastava: Scanning electron microscopy of spores of some Indian liverworts.
- C-IV-2. Hässel de Menéndez, G.G.: The bulbils of the Lepidoziaeae.
- C-IV-3. Egunyomi, A.: A survey of asexual reproductive diaspores in the Nigerian moss

flora.

- C-IV-5. Une, K.: Sexual dimorphism in some Japanese species of *Macromitrium*.
- C-IV-6. Bischler, H.: Mitosis in species complex *Marchantia polymorpha* L. *M. alpestris* (Nees) Burgeff and *M. aquatica* (Nees) Burgeff and *M. plicata* Nees et Mont.
- C-IV-7. Katoh, K., H. Hori & S. Osawa: The nucleotide sequences of 5S ribosomal RNAs from four bryophyta.
- C-IV-8. Masubuchi, M.: Characteristics of heterochromatin in liverworts: modification of chromatin structure and DNA replication.

Session V.

Physiology and Morphogenesis

- C-V-1. Russell, S.: Growth measurement in bryophytes; a case study.
- C-V-2. Shimizu, H., Y. Takeuchi, K. Satake, A. Furukawa & T. Totsuka: Studies on the growth and physiology of bryophytes. (3) Photosynthesis, respiration and growth of *Plagiomnium maximoviczii*.
- C-V-3. Bhatla, S.C.: Onset of reproductive phase in the moss *Bryum argenteum* Hedw.: involvement of cyclic AMP.
- C-V-4. Rani, K.: Studies on the reproductive biology of the moss *Bartramidula bartramioides*: effect of hormones and chelates.
- C-V-5. Yoshida, K. & K. Yamamoto: Analysis of formation of "fairy rings" in the moss *Physcomitrium sphaericum*.
- C-V-6. Vandekerckhove, O. & E. Hartmann: Influence of light - dark transitions and osmotic stress on the fatty acid patterns of the moss *Leptobryum pyriforme*.
- C-V-7. Stange, L.: Meristem organization and morphogenesis in gemmae of *Riella helicophylla*.
- C-V-8. Ono, K. & K. Okamoto: Isolation and culture of protoplasts from the liverwort cell suspension cultures.

Session VI. Chemistry

- C-VI-1. Ichikawa, T., K. Yamada, M. Namikawa, K. Sakai & K. Kondo: New cyclopentenyl fatty acids from Japanese mosses.
- C-VI-2a. Zielinski, R.: Electrophoretic and cytological study of the *Pellia epiphylla*-*P. borealis* complex.
- C-VI-2b. Zielinski, R.: Electrophoretic evidence of cross-fertilization in the monoecious *Pellia epiphylla* s. str. (n = 9).
- C-VI-3. Asakawa, Y.: Some biologically-active substances isolated from Hepaticae: terpe-

noids and lipophilic aromatic compounds.

- C-VI-4. Wu, C.-I.: Sesquiterpene hydrocarbons from Taiwanese liverworts.
- C-VI-5. Mues, R., S. Hattori, Y. Asakawa, R. Grolle: Biosystematic studies on *Frullania jackii* and *Fr. davurica*.
- C-VI-6. Matsuo, A., S. Hayashi & H. Inoue: Differential distribution of sesquiterpenoids in three forms of *Plagiochila acanthophylla* subsp. *japonica*.
- C-VI-7. Satake, K., H. Shimizu & M. Nichikawa: Elemental composition of the aquatic liverwort *Jungermannia vulcanicola* living in acid streams.
- C-VI-8. Ohta, Y., S. Abe, H. Komura & M. Kobayashi: Prelunularic acid, a probable immediate precursor of lunularic acid, in suspension-cultured cells of *Marchantia polymorpha*.

CLOSING SESSION

This session, chaired by Prof. H. Ando, began on schedule on Saturday 28th May, at 16.35 hours.

The first item of business was a report on the IAB Council Meeting by Dr. S. R. Gradstein. As Dr. Gradstein's report will be published in full in these columns in the next issue, only one of the Council's decisions will be referred to here, viz. the intention to revive the *Bulletin of Bryology in Taxon* as soon as practicable (see later p. 4.).

The next item was the presentation by Dr. H. Inoue of two Hedwig Medals - one to Dr. Yoshi Asakawa of Tokushima Bunri University, Japan, for his outstanding contributions to our knowledge of the chemical constituents of bryophytes, especially hepatics, and the other to Dr. Geneva Sayre of the Farlow Herbarium, Harvard University, U.S.A., for her outstanding contributions in the field of bibliographical research on bryological publications and exsiccatae, particularly those of the early 19th Century. In Dr. Sayre's absence her medal was accepted on her behalf by Dr. W. C. Steere.

Dra. G.G. Hässel de Menéndez, on behalf of the Organizing Committee of the Sociedad Latino Americana de Briología then announced the following elections to Honorary Membership of the Society and presented diplomas to those present; Dr. M. Fulford, Cincinnati (accepted on her behalf by Dr. W.C. Steere); Dr. S. Jovet-Ast, Paris (accepted on

her behalf by Dr. H. Bischler); Dr. J. Sharp, Tennessee; Dr. W. C. Steere, New York and Dr. H. Roivainen, Helsinki (whose diploma will be forwarded).

Dr. Nancy C. Slack then presented to the meeting seven Resolutions which had been prepared by a Resolutions Committee consisting of: T. Pócs, W.C. Schofield, Z. Iwatsuki, S.R. Gradstein and herself in the chair. All of the Resolutions (see below) were approved, the last, a vote of thanks to our Japanese hosts, being carried by a lengthy standing ovation.

The final item of business was an announcement by the Special Tours Leader, Dr. N. Kitagawa, of details about the start of the tours the next morning by Bullet Train to Kyoto. After this, Dr. Ando thanked all participants for their contributions and co-operation and declared the Conference officially closed.

JAPANESE AGENCIES WHICH SUPPORTED THE WORLD CONFERENCE OF BRYOLOGY

The National Science Museum, Tokyo
Japan Society for the Promotion of Science
Commemorative Association for the Japan World Exposition (1970)
The Kajima Foundation
Naito Foundation Research Grant for 1983
Yamada Science Foundation
Toray Science & Technology Grants
The Botanical Society of Japan
Japanese National Committee for ICOM
The Bryological Society of Japan
Tokushima Bunri University
Suntory Institute for Bioorganic Research, Osaka.
Tsumura Laboratory, Tokyo.
Toa Nenryo Kogyo K.K.
Nagatani-en Honpo K.K.
Toyama Gakki Seizo K.K.
Daishin Sangyo K.K.
Olympus Optical Company Limited
Saito Warehouse Company Limited
Mana Maeda Design Association
Kodansha, Tokyo.

ORGANIZING COMMITTEE FOR WORLD CONFERENCE OF BRYOLOGY 1983.

Dr. Sinske Hattori, Chairman, Hattori Botanical Laboratory Nichinan.
Dr. Hiroshi Inoue, General Secretary, National Science Museum, Tokyo.
Dr. Zennoske Iwatsuki, Programme Secretary, Hattori Botanical Laboratory, Nichinan.
Dr. Satoru Inoue, Programme Secretary, Kumamoto University, Kumamoto.
Dr. Hisatsugu Ando, Registration Secretary, Hiroshima University, Hiroshima.
Dr. Harumi Ochi, Excursion Secretary, Tottori University, Tottori.
Dr. Naofumi Kitagawa, Tour Secretary, Nara University of Education, Nara.

RESOLUTIONS ADOPTED DURING THE WORLD CONFERENCE OF BRYOLOGY TOKYO, MAY 1983.

Resolution 1.

We recommend that IAB sponsor an international meeting every two or three years, but not more often than every two years. The emphasis of these meetings should be on new research in all areas of bryology.

Resolution 2.

We affirm the urgent need for a comprehensive bryophyte flora of tropical Africa. IAB undertakes to set up a Committee under the Chairmanship of Prof. P.W. Richards, and an editorial board, to draw up plans for such a flora and to seek funds for financing such a project.

Resolution 3.

Bryology should integrate with other sessions by discipline at the International Botanical Conference at Berlin in addition to sponsoring its own symposia, which should be planned to attract both bryologists and researchers in other disciplines.

Resolution 4.

We encourage the inexpensive reprinting of important bryological works currently unavailable to many bryologists, as has recently been done by the Missouri Botanical Garden.

Resolution 5.

In many areas of the world, especially the tropics, important bryophyte habitats are currently being destroyed. It is urgent that bryologists make comprehensive collections in such exploited areas. IAB should play a role in the identification of such "endangered" areas, in the encouragement of co-operative collecting efforts by appropriate bryologists, and in making the collections available to researchers.

Resolution 6.

We recommend that steps be taken to facilitate the completion of *Index muscorum*, both the publication of the 11-year supplement, 1963-1973, and a bibliography to the whole work.

Resolution 7.

We wish to thank our Japanese hosts, the Organizing Committee; Drs. Sinske Hattori, Hiroshi Inoue, Zennoske Iwatsuki, Satoru Inoue, Hisatsugu Ando, Harumi Ochi and Naofumi Kitagawa, and the many other Japanese bryologists and their students for a magnificently run World Conference of Bryology, and for the field excursions and many other very enjoyable activities.

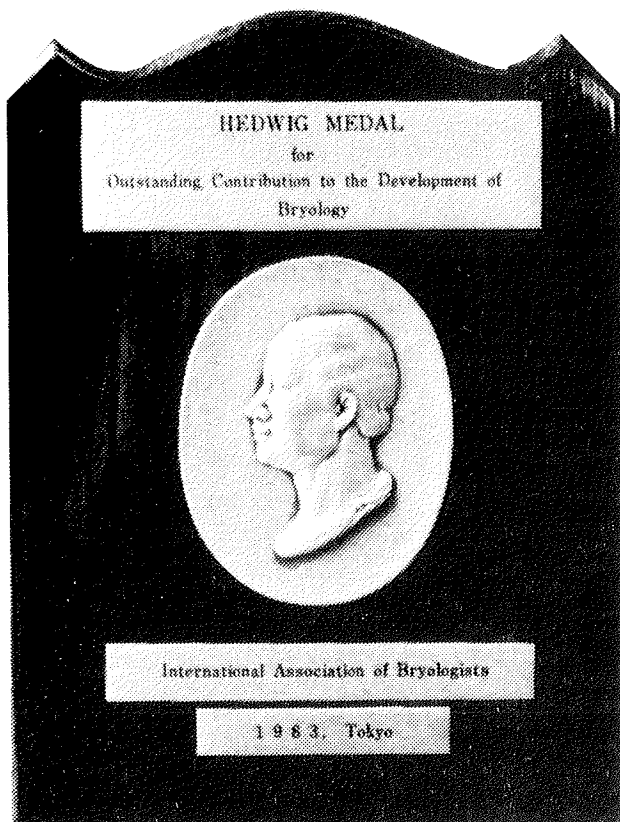
IAB BULLETIN to be revived

AS ANNOUNCED ELSEWHERE IN THIS issue (p.3.), the publication of the *Bulletin of Bryology in Taxon* is to be resumed as soon as is practicable. The new Editor is to be Dr. Diana G. Horton of the Department of Botany, The University of Iowa, Iowa City, IOWA 522 42, U.S.A. (formerly of the University of Alberta).

The *Bulletin* was IAB's first international newsletter and ran for 10 years with a total of 20 issues under the able and enthusiastic editorship of Dr. S. R. Gradstein. No. 1 appeared in *Taxon* 21(2/3): 375-376, 1972, and No. 20 in *Taxon* 30(2): 538-542, 1981. Its function was to keep bryologists up to date with IAB activities and to appraise taxonomists of activities in the bryological world. *Bulletin* No. 8 (*Taxon* 24 (5/6): 697-700, 1975) is of particular interest as it contains an account by Dr. W. C. Steere of the founding of our Association which had its origins in discussions that took place in Tokyo in 1966. As all will know, the Association was formally established in August, 1969 in Seattle during the Xth International Botanical Congress.

It is expected that Dr. Horton will set out in these columns an account of her objectives for the new *Bulletin*.

S.W. Greene, Dept. of Botany, Reading University, London Road, Reading RG1 5AQ, Berkshire, U.K.



IN SOLID SILVER, and mounted on a chestnut board some 15cm high x 11 cm wide, the Hedwig Medal has been instigated by the International Association of Bryologists to honour those of its members, proposed for this honour, who have made "an outstanding contribution to the development of bryology". As announced elsewhere in this issue (p.3.) the first recipients are Dr. Yoshi Asakawa of Tokushima Bunri University, and Dr. Geneva Sayre of Harvard University.

From some of the questions the writer was asked during the recent IAB meeting in Tokyo, it seems necessary to explain one or two of the rules governing the award, which were published in *Bryol. Times* 16:4, 1982, and their implications.

(i) No limit has been set on the frequency of the award, nor is it limited to a single recipient at any one time. It is probable that the next award(s) will not be made until 1987, but this is a matter for the President and Council to decide.

(ii) The present recipients will each have their name added to the back of the chestnut mount, and they are entitled to keep their medals in perpetuity. New

medals will be struck for the next award and will, of course, cost very much less than this time as the die of the medal itself has been kept.

(iii) The President, in consultation with the members of the IAB Executive Committee decides the recipient(s) from among the nominations. It follows that if a particular person has not been nominated, that person cannot be a recipient.

(iv) There is no rule (and I for one hope there never will be) which in any way relates to a recipient's nationality. It is open to any member of IAB to nominate any other member once nominations have been called for. Non members cannot act as nominators or be nominated.

(v) Each nominee has to have his or her candidature assessed by two specialist referees. For each of the candidates for the 1983 award one specialist was a bryologist and the other a non-bryologist internationally renowned in the candidate's field. This seemed to be a good way of forming an impression of the standing of a candidate's work in the wider botanical world.

(vi) The Chairman of the Medal

Who can locate these type specimens?

Hookeria diversifolia Mitt.
J. Linn. Soc. Bot. 12: 364, 1869. (= *Neohypnella*)

Type: Spruce 678. Andes Quitenses, Ecuador.

Hookeria pilotrichelloides
Broth. (Trans. Linn. Soc. Bot. ser. 2, 6: 92, 1901.)
(= *Neohypnella diversifolia*)

Type: Connell and Quelch 337, Roraima, Guyana.

Meteorium scariosum Lor.
(Moosstud. 165, 1864)
(= *Jaegerina*)

Type: Wagner s.n., Prov. Chiriqui, Panama, April 1858.

The most obvious herbaria have been checked by letter without success. Any information that can help to trace these specimens will be very welcome.

J. Florschütz-de Waard, Instituut voor Systematische Plantkunde, Heidelberglaan 2, 3584 CS Utrecht, The Netherlands.

Committee was not called upon to make any recommendation about the candidates to the President. Indeed, he was unaware of the results of the 1983 award until after he arrived in Tokyo.

(vii) The Committee's report goes directly to the President, not to the Council of IAB, and it is for the President to decide whether or not it will be laid before Council. Once accepted by the President, the Medal Committee's work is completed, and the Committee discharged, thus a new committee and Chairman will be required for the next award.

In conclusion I would like to thank all those who helped the work of the 1983 Medal Committee, and in particular the referees who submitted confidential reports on the candidates.

S.W. Greene, ex Chairman, 1983 IAB Medal Committee

Still Available *Buxbaumia*

Several back volumes and an Index to the whole series, covering the period 1946-1970. For information write to: Mr. F. Bos of the Penningm. Bryologische en Lichenologische Werkgroep, Bochtsestraat 49, 7102 BT Winterswijk, The Netherlands.

ON THE RETIREMENT OF
RUDOLF M. SCHUSTER

IN JUNE 1983, Rudolf M. Schuster retired as Professor of Botany from the University of Massachusetts. Dr. Schuster is, of course, not retiring from research, and thus the conclusion of his teaching career might seem an insignificant event from a bryological point of view. However, Dr. Schuster has contributed to the botanical education of many students, myself included, and thus I believe the occasion is worthy of note here.

After receiving his Ph.D. from the University of Minnesota in 1948, Dr. Schuster held positions briefly at the University of Mississippi, Duke University and the University of Michigan before settling at the University of Massachusetts in 1957. In the early years he taught a diverse selection of courses, including introductory botany, plant morphology, economic botany, angiosperm systematics and phycology. During my years at the University of Massachusetts he taught his specialties, "Archegoniate Plants" and "Plant Geography", as well as introductory botany laboratory and a local flora course.

I took Dr. Schuster's courses in Archegoniate Plants and Plant Geography and found them to be two of the most stimulating courses of my collegiate career. Archegoniate was a curiously-named course, because it treated only bryophytes (60% hepatics, 40% mosses). As a burgeoning hepaticologist though, I was in my element. The lectures, which dealt largely with morphology, taxonomy and evolution, were copiously supplemented by chalkboard drawings,

mimeographed text and preserved plant material, including such rare plants as *Phycolepidozia* and *Phyllohallia*. Plant geography, which dealt with temporal, spatial and climatic aspects of plant distribution, included an in-depth treatment of tectonic theory and its relevance to botany.

Both (and I suspect all courses taught by Dr. Schuster) had similar ingredients. As lavish as his written prose, Dr. Schuster's lectures were briskly paced, and important points were driven home in no uncertain terms. He has a marvellous knack for metaphor, and it was always in evidence in his lectures. I can recall vividly the mental pictures created by his descriptions of primitive plants being "goosed" from the oceans on to land by invisible, compelling forces; and of *Nothofagus* and the marsupials leap-frogging frantically across Antarctica during the Cretaceous in order to hop aboard South America before it debarked northwards. His statement that "The bryophytes banked on the wrong generation" is one of my favorites.

On field trips students were treated to displays of Dr. Schuster's profound knowledge of the New England flora, his terrific energy, erratic driving and bryophyte identification using what we referred to as the "braille method". (He would flip up his glasses and hold the plant so close to his eye that one assumed he used tactile rather than visual senses to recognize it!)

Students in any one of Dr. Schuster's courses probably remember with a smile the countless stories, relevant or not, that accompanied every lecture. Dr. Schuster's comic sense is highly developed, especially in the sarcastic mode; unfortunately his best *bon mots* are too slanderous for repetition here. His tales of adventure were also superb. Even the most jaded undergraduate would be beguiled by Dr. Schuster's descriptions of far-away places such as Ellesmere Island, Tierra del Fuego and Campbell Island, and all listened with rapt attention to accounts of the dangers and deprivations suffered in pursuit of research.

As advisor of my doctoral studies, Dr. Schuster treated me to many kindnesses. He was generous with reprints, specimens and literature, and I was often the recipient of gracious hospitality at the Schuster home.

Dr. Schuster is always enthusiastic about plants, from the flowers in his lovely garden to the minutest *Aphanolejeunea*. All students who have come in contact with him over the past 35 years have surely benefitted from exposure to his love of plants and his high level of scholarship.

Barbara M. Thiers, New York Botanical Garden, New York.

OUT AND ABOUT

A NEW COLUMN OF REGIONAL
REPORTS

from our own correspondents

THE EDITOR IS KEEN that the *Bryological Times* should help people to feel in touch with what is going on around the world. To achieve this he would like to have "special correspondents" in different countries and regions who would be willing to send periodic, informal reports about bryologists and bryological activities in their part of the world.

Dr. Bill Buck of the New York Botanical Garden, has kindly agreed to try his hand as "special correspondent" in North America, and his first article is presented over. The Editor would like to hear from others prepared to send similar articles, their frequency and length depending upon the interest of the topics they report.

He would like to reassure readers that nothing of a sensational or defamatory nature will be published, and any personal or eccentric details intended to excite or arouse curiosity will be automatically deleted. If the Editor has the slightest suspicion that a colleague might wish an incident mentioned in one of these reports to remain unpublished, that part of the article will be submitted to the person in question whose wishes will be respected. Thus reassured, I hope that people will be willing to assist our correspondents with their newsgathering in the sure knowledge that they will be contributing to a breakdown of the sense of isolation that comes from not being able to talk to many other bryologists.

Although there may be some overlap with the *Personalia* column, the latter will be continued for announcements requested by individuals.

The Editor.

OUT AND ABOUT

IN NORTH AMERICA

THE FOLLOWING OF OUR NORTH-AMERICAN bryologists have had the opportunity to make trips abroad this year. Bill Reese left in mid-April for a 2 - 3 month Projeto Flora Amazônica expedition to Serra Cachimbo, Brazil, and was accompanied by lichenologists Martyn Dibben and Lois Brako. The collections will be identified and distributed by NY. Before he left, Bill Reese sent off to a printer a manuscript for a Moss Flora of the north Gulf coastal plain, extending from the Florida panhandle to eastern Texas. John Engel is currently in Tasmania collecting, and he and Rudy Schuster are collaborating on a monograph of the Australasian species of *Schistochila*. Earlier this year Richard Zander and Patricia Eckel went to Guerrero, Mexico, to collect Pottiaceae with Claudio Delgadillo. Bill Buck has spent 20 weeks collecting in the Greater Antilles during the last 2 years, and he was joined by Bill Steere for part of the time in the Dominican Republic. They are both working on a Moss flora of the West Indies.

On the home front we were all very sorry to hear earlier this year that both Geneva Sayre and Howard Crum have been ill. Happily Geneva is now back at home and continuing her work on the life and correspondence of Thomas Taylor. At the time of writing Howard Crum is still in the hospital and we all wish him a rapid and full recovery. It is hoped that he will be fit enough to join Norton Miller to teach a peatlands course in the summer at the University of Michigan Biological Station on Douglas Lake, near Pellston, Michigan.

Howard Crum is co-editor of the Moss flora of Mexico, originally organized by Jack Sharp. Most of the manuscripts are now in. The illustrations are being prepared by Patricia Eckel (Mrs. Richard Zander). Jon Shaw, who is just finishing his Ph.D with Howard Crum on *Pohlia* will begin a post-doc in the fall with Harold Robinson at the Smithsonian Institution to work on *Mielichhoferia*. Howard Crum's other student, Joe Rohrer, is working on a computer-assisted classification of the Hylocomiaceae and Rhytidiaceae.

Steve Churchill recently finished a master's thesis at the University of Kansas on a monograph of *Jaffueliobryum*. It will be published in the Annals of the Missouri Botanical Garden. He also worked on *Scouleria* and cladistic methodology. In the fall he begins his Ph.D work at the New York Botanical Garden with Bill Buck. He will join Inés Sastre-de Jesús, earning her doctorate while on leave from the Faculty of the Catholic University of Puerto Rico at Ponce. She is currently monographing the Cyrtopodaceae and will begin her dissertation work in the fall on the Neckera-ceae.

Ron Pursell is currently working on *Fissidens* in Central America, the West Indies and Brazil. His student, Shanshiung Lin, finished his Ph.D last fall with a dissertation "A taxonomic revision of Phyllogoniaceae". Lin has now returned to the faculty at Tunghai University, Taiwan. Ron's other student is Lloyd Stark, who is working on a monograph of *Forsstroemia*.

Jerry Snider is working on various genera of the Ditrichaceae, particularly in Latin America. His student, Bruce Allen, is nearing completion of his Ph.D dissertation, a monograph of the Dicnemonaceae. Bruce Allen did his master's work with Ron Pursell on the peristome of *Fissidens*.

Rudy Schuster has begun transferring his expensive personal herbarium to the Field Museum of Chicago. The transfer will be gradual and will be completed by 1991. He is due to retire this spring, after which he and his wife Olga will leave for a year of collecting in New Zealand, Tasmania and the South Pacific. After his return he plans to finish the manuscript of volume 5 of his Hepaticae and Anthocerotae of North America.

Finally, the annual meeting of the American Bryological and Lichenological Society will meet with the American Botanical Society and the Canadian Botanical Society at the University of North Dakota at Grand Forks, on August 7 - 11. The Foray will be in the Black Hills of South Dakota and will be led by Cliff Wetmore who should be contacted for more information - see Diary for his address.

William R. Buck. North American Correspondent. May, 1983.

Personalia

DIANA G. HORTON will be leaving her present position as Assistant Professor and Assistant Curator at the University of Alberta, Edmonton, Canada, and assuming duties as Assistant Professor and Curator at the University of Iowa. As of July 1, 1983, her address will be: Department of Botany, University of Iowa, Iowa City, Iowa 52242, U.S.A.

Desiderata

WANTED : SCIAROMIUM

JOHN A. CHRISTY is revising the moss genus *Sciaromium* (= *Limbelia*) under the supervision of Dr. Wilfred Schofield, Department of Botany, University of British Columbia, Vancouver B.C. V6T 1W5, Canada. He requests specimens from any part of the world. Collections from South America, Asia and South Africa, and material with sporophytes, will be especially welcomed.

WANTED : LIVING CTENDIUM

I AM CURRENTLY UNDERTAKING monographic work on the genus *Ctenidium*. Because of the wide range of variation of the species, cytological studies in the genus are desirable. I would be grateful to receive living material of *Ctenidium* (in plastic bags, sent by air mail) from any country of the world, which will be studied and analysed with the help of Dr. S. Inoue (Kumamoto University).

Naoki Nishimura, Hiruzen Research Institute, Okayama Univ. of Sci., Kawakami-son, Maniwa-gun, Okayama-pref. 717-06, Japan.

WANTED: LIVING BRACHIOLEJEUNEA

THE GENUS *Brachiolejeunea* (Hepaticae) is currently being monographed. Besides morphological and anatomical characters, data obtained from chemical analysis of the oil bodies, and SEM observations on sporophytes, are being taken into account. I would therefore like to receive living material of *Brachiolejeunea* species for cultivation.

M. v. Slageren, Instituut voor Systematische Plantkunde, Heidelberglaan 2, 3584 CS Utrecht, The Netherlands.

Membership of IAB

THE FOLLOWING LISTS, for the period 1 December 1982 to 31 May, 1983, update those already published. The last list appeared in *Bryol. Times* 18:2.

New Members

Arrocha, Clothilde*; Bastiaens, W.*; De Bock, Paul*; Döbbeler, Peter*; Fife, Allan J.*; Ide, Jennifer*; Kaiser, Bernard*; La Farge-England, Catherine*; Lewis Smith, R.I.; Losada-Lima, Ana*; McKnight, Bill N.*; Rushing, Ann E.*; Söderström, Lars*; Stieperaere, Herman*; Suzuki, Hyoji; Takemoto, Tsunematsu*; Udar, Ram; Whitehouse, H.L.K.

Addresses

Arrocha, Clothilde, San Miguelito, Zona 11, República de Panamá.
 Bastiaens, W., St. Adriaanstraat 49, B-2840 Haacht, Belgium.
 De Bock, Paul, J. de Weerdstraat 13, B-2070 Ekeren-Antwerpen, Belgium.
 Döbbeler, Peter, Inst. für Syst. Botanik, Menzingerstrasse 67 D-8000 München 19, Germany, B.R.D.
 Fife, Allan, Botany Division, D.S.I.R., Private Bag, Christchurch, New Zealand.
 Ide, Jennifer, 42 Crown Woods Way, Eltham, London SE9 2NN, England, U.K.
 Kaiser, Bernhard, Gartenstrasse 15, 8564 Velden b. Hersbruck Germany, B.R.D.
 La Farge-England, Catherine, Department of Botany, University of Alberta, Edmonton, Alberta T6G 2E9, Canada.
 Lewis Smith, R.I., British Antarctic Survey, Botanical Section, Madingley Road, Cambridge CB3 0ET, England.
 Losada-Lima, Ana, Dept. de Botánica, Facultad de Biología, Universidad de la Laguna, Tenerife, Islas Canarias, España.
 McKnight, Bill N., Department of Botany, University of Illinois, 289 Morrill Hall, Urbana, Illinois 61801, U.S.A.
 Rushing, Ann E., Department of Botany, University of Illinois, 289 Morrill Hall, Urbana, Illinois 61801, U.S.A.
 Söderström, Lars, Dept. of Ecological Botany, University of Umeå, S-901 87 Umeå, Sweden.
 Stieperaere, Herman, Nat. Plantentuin, Domein van Bouchout, B-1860 Meise, Belgium.
 Takemoto, Tsunematsu, Department of Pharmacology, Tokushima Bunri University, Yamashirocho, Tokushima 770, Japan.

Change of Address

Bruggeman-Nannenga, M.A., Griffensteinseplein 23, 3703 BE Zeist, The Netherlands.
 Christy, John A. Department of Botany, University of British Columbia, Vancouver B.C. V6T 1W5, Canada.
 van Melick, H., van Papenbroeckstraat 9, 5624 EJ Eindhoven, The Netherlands.
 Raeymaekers, Geert, Michigan Technological University, Department of Biological Sciences, Houghton, Michigan 49931, U.S.A.
 Schmidt, Alexander, Institut für Allgemeine Botanik, Ohnhorststrasse 18, D-2000 Hamburg 52, Germany, B.R.D.
 Tsutomu Narita, 1-2 Komoto 2-chome, Nakagawa-ku, Nagoyashi, 454, Japan.

Cancelled or deceased

Grubb, P.J.; Huber H.; Jelenc, F.; McFarlane, T.D.; Neu, F.; Okada, H.; Shin, T., Sharp, E.

NOTE: 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*.

Hispano-Portuguese Joint Project

SINCE JULY 1982, a joint project has been developed between Prof. Dr. C. CASAS, Dr. M. BRUGUES and R.M. CROS from the Universidad Autonoma de Barcelona, and Dr. C. SÉRGIO and M. SIM-SIM, from the Universidade de Lisboa. The aim is a systematic, chorological and ecological study of the bryophytic vegetation in some Iberian limestone areas, which include two distinct regions in each country; the Algarve and the central limestone Massif in Portugal and in Spain, two regions in the south-eastern Province of Alicante.

Anyone interested in assisting in this project who has special knowledge of, or unidentified collections from one or both areas is asked to contact Prof. Dr. C. Casas or Dr. Sérgio. Prof. Dr. C. Casas Sicart, Dept. de Botánica, Fac. de Ciencias, Univ. Autonoma de Barcelona, Bellaterra, Spain, and Dr. Cecilia Sérgio, Inst. Botânica, Fac. de Ciencias, Lisboa 2, Portugal.

DISCONTINUANCE OF MISCELLANEA

BRYOLOGICA ET LICHENOLOGICA

THE DEPRESSION, following the "oil-shock", has made the financial management of the Hattori Botanical Laboratory (public utility foundation established by S. Hattori) more and more severe, and governmental funds will be reduced in 1984. Under such conditions the publication of the *Miscellanea Bryologica et Lichenologica* will have to be discontinued at the end of 1983, when Vol. 9 will be completed by the issue of No. 9 (which will include an Index to the volume). So people are asked not to subscribe for 1984.

The Journal of the Hattori Botanical Laboratory (currently with two numbers per year) may have to be published as only one number each year after 1985.

S. Hattori, The Hattori Botanical Laboratory, Obi, Nichinan, Miyazaki Prefecture, Japan.

CORRECTION

THE DEATH of Herr Herbert Weymar was announced in *Bryol. Times* 17:8, 1982, as having taken place on 9th October 1982. Dr. M. Siegel of Dresden has kindly written to say that Herr Weymar died on 16th July 1979. The Editor greatly regrets the inaccuracy of the former announcement and apologises for any embarrassment to the late Herr Weymar's relatives and friends.

Recent Publications

Australasian Bryol. Newsletter No. 8, 1-7, 1983.
Bryologist 85(4): 361-486, 1982.
Cryptogamie Bryol. lichen 4(1): 1-100, 1983.
J. Hattori Bot. Lab., Index to Nos. 1-50: 1-245, 1983.
Miscnea Bryol. lichen, 9(7): 137-160, 1983.
Proc. Bryol. Soc. Japan 3(7): 101-117, 1983.
Taxon 32(2): 169-343, 1983.

Asakawa, Y. 1982. Chemical constituents of the Hepaticae. *Fortschritte der Chemie organischer Naturstoffe*. Vol. 42; 1-285, Springer-Verlag, Wien, New York.

A major review, in English, of the presently-known naturally occurring terpenoids and aromatic compounds of the Hepaticae. The structures and biological activity of the compounds isolated, as well as the chemosystematics of the Hepaticae, are summarized.

[*Bryomania* s.n. 3rd Anniversary Issue, 1983]

The Moss Flora of Arctic North America Workshop

by William R. Buck

JULY 24 - AUGUST 6, 1982, marked the first Moss Flora of Arctic North America Workshop, which was held at the University of Alaska at Fairbanks, and was hosted by Barbara and David Murray. Barbara made it a particularly pleasant trip by active fund-raising, so that all costs were covered except plane fare to and from Alaska. The participants were, in addition to the Murrys, Wilf Schofield and Guy Brassard of Canada, Bill Steere, Bill Buck, Allan Fife and Dave Jamieson of the United States, Harumi Ochi of Japan, Jette Lewinsky and Gert Mogensen of Denmark, and David Long of Scotland. A preliminary notice about this workshop appeared in *Bryol. Times*, 17:3 under the title "Dr. Steere honoured".

The workshop began with two days of meetings with Gert Mogensen presiding. The first morning the progress of bryological exploration in arctic North America was discussed by Bill Steere (Alaska), Guy Brassard (Canada) and Gert Mogensen (Greenland). Barbara Murray had prepared a checklist as a computer print - out of the mosses of arctic Alaska, based primarily on Bill Steere's book. Gert Mogensen distributed a checklist of the mosses of Greenland; this is the first such compilation for the large island.

In the afternoon the topic of discussion was arctic bryogeography. Dave Murray gave a slide show of selected habitats in arctic Alaska. Bill Steere and Gert Mogensen then discussed the western and eastern arctic, respectively.

The next day, July 26, was devoted to more practical aspects of the flora. Gert showed slides of how the herbarium at the Botanical Museum at Copenhagen is operated, and specifically how the mapping of distribution of bryophytes is done with a computer. Next the distasteful topic of deadlines for manuscripts was discussed. Finally, it was announced that the logo of the *Bulletin of the Moss Flora of Arctic North America* would be changed to a whale oil lamp with a moss wick, as was made by early Greenlanders. A carafe with the new logo etched

on it was presented to Bill and Dorothy Steere. (Dorothy Steere had come just for the first two days of meetings.) In the early afternoon Harumi Ochi gave a report on his progress with the arctic Bryoideae.

In the afternoon the University of Alaska at Fairbanks conferred upon Bill Steere an honorary doctorate degree in a special ceremony at the University Museum, where our meetings were held. In addition to the University administrators, Barbara Murray, Gert Mogensen, Guy Brassard, Bill Buck and Wilf Schofield gave short talks on their special relationships with Bill Steere.

Despite the relative formality of the meetings during the day, the Murrys co-ordinated the evenings for relaxation.

The following morning began the highlight of the workshop - a 10-day field trip from Fairbanks to Prudhoe Bay on the Arctic Ocean. In addition to the bryological crew, a driver and cook par excellence, Carolyn Parker, accompanied us. A complete itinerary has been given in the *Bulletin of the MFANA*. Barbara and Dave Murray's excellent "Bryological Field Guide: Dalton Highway, Alaska-Yukon River to Prudhoe Bay" (*Univ. Alaska Mus. Stud.* 1: 1-46, 1982) should also be consulted. The first day was mainly spent driving, with only a brief stop at a lichen-dominated tundra at Finger Mountain. We stayed the night at a campground right on the Arctic Circle where some additional collecting was possible since the sky never completely darkened.

The next day was again spent mostly driving. It was this day that we reached the northern limit of spruce trees along the road. We had a few collecting stops though, at Sukakpak Mountain, Chandalar Shelf, and most notably, Atigun Pass. This last locality is the continental divide between the Arctic and Pacific Oceans, and melting glaciers provided ideal habitats for bryophytes. We then made it to our campsite for the next few days, the shore of Toolik Lake. There is a small ecological group from the University of Alaska ("tussock pluckers") based at the lake, and we were able to use their kitchen facilities. The next two days were spent collecting on a pair of mountains facing each other across a valley. The Murrys have dubbed these peaks "Mt. Hultén" and "Mt. Steere". "Mt. Hultén"

is predominantly a limestone mountain and special finds included *Oreas martiana*, *Schistidium holmenianum*, *Andreaeobryum macrosporum*, *Voitia nivalis* and *Mielichhoferia macrocarpa*. "Mt. Steere", an acidic peak, fostered *Phascum cf. cuspidatum*, *Leptopterigynandrum austroalpinum* and *Philocrya aspera*, among others. During our third morning at Toolik Lake we collected in the vicinity of our campsite. Most of the rarities here were hepatics like *Mesoptychia sahlbergii*, *Radula prolifera*, *Pseudolepicolea fryei* and *Anastrophyllum assimile*. About noon we left Toolik Lake and drove the several hours to Prudhoe Bay.

Prudhoe Bay is a city like no other. It is as if legitimacy were given to a huge industrial park! However, we all appreciated hot showers and mattresses. We were scheduled to stay there for three nights. The next morning saw the worst weather of the trip. However, despite the low temperatures and drizzling rain we were anxious to collect among the oil drilling sites. Quite to our relief, the numerous man-made objects had little effect on the tundra other than in the very immediate vicinity. During our two days at Prudhoe Bay, our time not in the field was divided between Arco and Sohio Oil Companies, who generously assisted and fed us. Splachnaceae were particularly common. We were interviewed for a local magazine, and *Arctic Spark*, 3 (9): 11, 1982, should be consulted. Despite the amenities of civilization provided at Prudhoe Bay, we were glad to get back to our tents in the wilderness. On the day we left we collected on a group of sandstone bluffs along the road where *Tetradontium* was particularly common.

After a night at Toolik Lake we headed back to Fairbanks with minimal collecting in the vicinity of Atigun Pass, and in a *Sphagnum-Alnus* tundra near Finger Rock. Another night at the Arctic Circle was our last in the field.

Upon returning to Fairbanks we had only a brief meeting and a slide show of Greenland, where we will meet in 1984. We then all headed home with memories of a beautiful landscape and a wonderful trip.

New York Botanical Garden, Bronx, New York, 10458.

DIARY

ABLS = American Bryological and Lichenological Society; BBS = British Bryological Society; BLAM=Bryologish-Lichenologische Arbeitsgemeinschaft für Mitteleuropa; CEBWG= Central and East European Bryological Working Group; NBS = Nordic Bryological Society; SBLS = Swiss Bryological and Lichenological Society.

July 1-9. NBS. Laugarvatn, Iceland. Annual Meeting and excursion. Organizers: A.B. Bjarnason, Laugateigur 39, 105 Reykjavik and B. Johannsson, Dept. of Botany, Museum of Natural History, Box 5320, Reykjavik, Iceland. Further details from organizers.

July 20-3 Aug. BBS. Summer Field Meeting, Co. Kerry, Eire. Headquarters in Killorglin (20 - 27 July) and Kenmare for the remainder of the time. Further information from Local Secretary, Dr. D. Synnott, National Botanic Gardens, Glasnevin, Dublin 9, Eire. See Bull. BBS 41:16.

Aug. 3-5. ABLS. Field Trip in Black Hills, South Dakota, based on Sioux City. Further details from Dr. C.M. Wetmore, Dept. of Botany, University of Minnesota, St. Paul, MI. 55108, U.S.A.

Aug. 7-11. ABLS Annual Meeting at University of North Dakota, Grand Forks, North Dakota. Further details from Dr. C.M. Wetmore.

Aug. 19-26. Preston Montford, England. Bryophyte Field Course, Tutor, Dr. M.E. Newton. Further details from The Warden, Preston Montford

Field Centre, Montford Bridge, Shrewsbury SY4 1DX, England.

Aug. 26-30. SBLS. Field Meeting Bernese Oberland, Giessbachfälle-Rosenlauri. Further information from: Dr. K. Ammann, Syst.-geobot. Institut Altenbergrain 22, CH-3013, Bern, Switzerland.

Aug. 31. BBS. Closing date for Jubilee Photographic Competition. See Bryol. Times 19:3 and Bull. BBS 41:20.

Sept. 2-4. BLAM. Field Meeting in the Hochvogesen. See Bryol. Times 19:5.

Sept. 2-9. BBS. Manchester. Joint BBS-Systematics Association Bryophyte Taxonomy course. Bryol. Times 19:3, and Bull. BBS 41:17.

Sept. 16-18. The 1983 A. Leroy Andrews Foray will be held at Whiteface Mountain, Adirondack Mountains, New York State. Headquarters will be the Atmospheric Sciences Research Center at Whiteface. Further information from Richard E. Andrus, Department of Biol. Sci., State Univ. of New York at Binghamton, Binghamton, N.Y., 13901, U.S.A.

Sept. 17-18. BBS Jubilee Meeting, London. Local Sec. Mr. P.J. Wanstall, Dept. of Plant Biology and Microbiology, Queen Mary College, University of London, Mile End Road, London E1 4NS. Full details in Bull. BBS 41:17.

Oct. 21-23. 3rd Annual mid-west Bryological foray, West Central Indiana, U.S.A. For further details see Bryol. Times 19:2.

Oct. 24-28. BLAM. Bryophyte course with preceding 2-day field meeting in Allgäu. See Bryol. Times 19:5.

Nov. 12-13. SBLS. Zurich or Bern. Bestimmungstage (identification days, taxonomic workshop). Further details from: Dr. K. Ammann, Syst.-geobot. Institut Altenbergrain 22, CH-3013, Bern, Switzerland.

Nov. 26-27. BBS Taxonomic Workshop, London. Local Sec.: Miss J. Ide, Whitelands College, West Hill, London SW15 3SN. Preliminary details in Bull. BBS 41:18.

For details of BBS local meetings during 1983, see Bull. BBS 41:18.

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April. BBS. Spring Field Meeting, Brecon, South Wales. Preliminary notice in Bull. BBS 41:18.

July. BBS. Spring Field Meeting, Wooler, Northumberland. Preliminary notice in Bull. BBS 41:18.

September. BBS. Paper-reading Meeting and A.G.M. Warwickshire. Preliminary notice in Bull. BBS 41:18.

1985

August. CEGWG. Eger, Hungary. 4th Biennial Meeting. For preliminary information see, Bryol. Times 18:3.

August. IAB. Budapest and Vácraót. Ecology Symposium. For preliminary information, see Bryol. Times 18:3.

THE INTERNATIONAL ASSOCIATION OF BRYOLOGISTS publishes The Bryological Times every two months and the Advances in Bryology every two years. Material for The Bryological Times can be sent at any time, but submission dates for the Advances should be discussed with its editor, Dr. Schultze-Motel (Berlin). The editors do not accept responsibility for the views of authors.

For details regarding membership of the International Association of Bryologists (currently U.S. \$8.00 p.a.), write to the Honorary Secretary, Dr. S.R. Gradstein, Instituut voor Systematische Plantkunde, Heidelberglaan 2, 3584 CS Utrecht, The Netherlands.

THE BRYOLOGICAL TIMES is published in Utrecht and distributed from Missouri (USA), Reading (UK) Tokyo (Japan) and UTRECHT. All correspondence concerning mailing to: M. A. van Slageren, Instituut voor Systematische Plantkunde, Heidelberglaan 2, 3584 CS Utrecht, The Netherlands.

ITEMS FOR THE NEXT ISSUE to be with the Editor, Dr. S.W. Greene, Department of Botany, The University of Reading, London Road, Reading RG1 5AQ, Berkshire, England, (Telex 847813 RULIB) by 15th August at the latest. Items for the Techniques Notebook should be sent direct to Dr. Janice Glime, Dept. of Biological Sciences, Michigan Technological University, Houghton, Michigan 49931, U.S.A.