

The Bryological Times
July 1981, Number 10
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THE

BRYOLOGICAL TIMES

Newsletter of the International Association of Bryologists

July, 1981

Congress Issue

No. 10

XIII INTERNATIONAL BOTANICAL CONGRESS

Sydney, 21 - 28 August, 1981

Section 8A Bryology

The following is the final programme of papers and posters notified to me. As was to be expected there are some changes - mainly deletions - from what has been published already in these columns (Bryol. Times 7:7-9; 9:5-6).

Monday 24 Aug.

a.m. Ecology and reproductive biology of bryophytes

Conveners: Prof. L. E. Anderson
Dr. H. P. Ramsay

12.00-14.00h. IAB Business Meeting
For agenda see p.5 this issue.

p.m. Aspects of experimental bryology

Conveners: Prof. E.-J. Bonnot
Dr. P. M. Selkirk

Tuesday 25 Aug.

a.m. Chemosystematics and phylogeny of bryophytes

Convener: Dr. C. Suire

p.m. Biosystematics and structure

Conveners: Dr. H. Inoue
Dr. S. W. Greene

Late afternoon: Bryology posters

Wednesday 26 Aug.

a.m. Bryogeography of Australasia and the Pacific

p.m. Conveners: Dr. W. Schultze-Motel
Dr. G. A. M. Scott

Late afternoon: Bryology posters

Evening: Bryology Section Dinner

Thursday 27 Aug.

a.m. Physiology and ecology of bryophytes

p.m. Bryology posters

17.45h IAB Council Meeting

Dr. S. Hattori has agreed to publish the conference proceedings in Journal of Hattori Botanical Laboratory. All contributions to the symposia will be limited to 10 published pages each, including illustrations. Contributions as poster sessions will be limited to

a total of 4 published pages each. All manuscripts will be due in final form at the time of the congress.

List of contributions and titles

Monday 24 Aug. a.m.

8A.1 Ecology and reproductive biology of bryophytes

Chairman: L.E. Anderson, U.S.A.

Anderson, L.E., Duke University, USA.
Introduction to "Ecology and reproductive biology of bryophytes".

Scott, G.A.M., Monash University, Australia.

The ecology of mosses - an overview.

Oechel, W.C., San Diego State University, USA.

Physiological ecology of mosses.

Slack, N., Russell Sage College, USA.
Bryophytes in relation to ecological niche theory.

Longton, R.E., University of Reading, Great Britain.

Reproductive biology of selected British mosses.

Anderson, L.E., Duke University, USA.
Cytological and genetic barriers in mosses.

Ramsay, H.P. & G.K. BERRIE, University of New South Wales, Australia & University of Malawi.

Sex determination in bryophytes.

Wyatt, R., University of Georgia, USA.
Population ecology of bryophytes.

Monday 24 Aug. p.m.

8A.2 Aspects of experimental bryology

Chairman: E.-J. Bonnot, France.

Bonnot, E.-J., Introductory remarks

Basile, D.V., New York Botanical Garden, USA.

Evidence for a regulatory role of cell-surface hydroxy-proline-containing proteins in liverwort morphogenesis.

Bopp, M., Heidelberg University, W. Germany.

- How can external hormones regulate the morphogenesis of mosses?
- Demkiv, O.T., Ripetsky, R.T., Fedyk, Jr. D. & K.O. Ulychna, Botanical Institute of the Ukrainian S.S.R. Control of the morphogenetic patterns and the stability of the epigenetic state in bryophytes.
- Glime, J.M., Michigan Technological University, USA.
Physiological adaptations in *Fontinalis*.
- Maravolo, N.C., Lawrence University, USA
On the control of endogenous auxin levels in liverworts.
-
- Chairman: To be determined
- Mehra, P.N., Himachal Agricultural University, India.
The role of experimental morphogenesis in liverwort phylogeny.
- Ohta, Y. & Y. Hirose, Suntory Institute, Osaka, Japan.
Induction of calluses in cell suspension cultures of liverworts.
- Ripetsky, R.T., Kholodnyi Institute, Kiev, Ukrainian S.S.R.
The stability of the epigenetic state of the aposporic gametophyte of *Pottia intermedia*.
- Rudolph, H., Christian-Albrechts-Universität, W. Germany.
Physiological aspects of phenolic compounds in the cell wall of *Sphagna*.
- Valanne, N., Aro, E.V. & H. Niemi, University of Turku, Finland.
Photosynthetic apparatus of mosses.
-
- Tuesday 25 Aug, a.m.
- 8A.5 Chemosystematics and phylogeny of bryophytes
Chairman: C. Suire, France.
- Krzakowa, M., Adam Mickiewicz University, Poland.
Isozymes as diagnostic characters in the taxonomy of Hepaticae.
- Karunen, P., University of Turku, Finland.
Evolutionary significance of lipids in the bryophytes.
- Lewis, D.H., University of Sheffield, Great Britain.
The chemotaxonomic significance of soluble carbohydrates in leafy liverworts.
- Vanderklove, O., Johannes-Gutenberg-Universität, W. Germany.
The distribution of flavonoids in mosses in relation to their taxonomy.
- Zinsmeister, H.D., Universität des Saarlandes, W. Germany.
Phytochemical studies on the flavonoid chemistry of liverworts.
- Mues, R., Universität des Saarlandes, W. Germany.
Phenolic compounds of the liverwort families Scapaniaceae and Lophoziaceae, a contribution to the relationships of both families.
-
- Markham, K.R., Department of Scientific and Industrial Research, New Zealand.
The evaluation of flavonoid characters as taxonomic and phylogenetic indicators.
- Matsuo, A., Hiroshima University, Japan.
Chemotaxonomic characteristics of liverwort sesquiterpenoids.
- Asakawa, Y., Tokushima-Bunri University, Japan.
Terpenoids and aromatic compounds as chemosystematic markers in Hepaticae and Anthocerotae.
- Suire, C., Université de Bordeaux, France.
Biosynthetic level and systematic position in liverworts.
-
- Tuesday 25 Aug: p.m.
- 8A.3 Biosystematics and structure
Chairman: D.G. Catcheside, Australia
- Inoue, H., National Science Museum, Tokyo, Japan.
Introduction to "Biosystematics and structure".
- Brown, R.C. & B.E. Lemmon, University of Southwestern Louisiana, USA.
Ultrastructural aspects of moss meiosis.
- Ramsay, H.P., University of New South Wales, Australia.
The value of karyotype analysis in mosses.
- Wigh, K., University of Linköping, Sweden.
Cytotaxonomical studies in some *Brachythecium* species.
- Duckett, J.G., University of London, Great Britain.
Spermatozoids and bryophyte systematics.
-
- Chairman: H. Inoue, Japan.
- Horton, D.G., University of Alberta, Canada.
The evolutionary significance of superficial spore structure in the Musci.
- Koponen, A., University of Helsinki, Finland.
On the structure and function of the peristome in Splachnaceae.

Longton, R.E., University of Reading,
Great Britain.

Biosystematic approach in bryology.

Szweykowski, J., Adam Mickiewicz Uni-
versity, Poland.

Genetic differentiation of liverwort
populations and its significance
for bryotaxonomy and bryogeography.

Wednesday 26 Aug. a.m. and p.m.

8A.4 Bryogeography of Australasia and
the Pacific

Chairman: W.Schultze-Motel, W. Germany

Schultze-Motel, W. Berlin Botanic Gar-
den, W. Germany.

Introduction

Schuster, R.M. & B. Thiers, University
of Massachusetts, USA.

The cold Antipodes as a centre of
survival and endemism of Jungerman-
niideae.

Campbell, E.O., Massey University,
New Zealand.

Some Anthocerotae of New Zealand.

Ando, H., Hiroshima University, Japan.

Hypnum in Australasia and the south-
ern Pacific

Chairman: Z. Iwatsuki, Japan.

Del Rosario, R.M., Philippine Nat-
ional Herbarium, Philippines.

Mosses of the Cordillera Central,
Luzon, Philippines.

Catcheside, D.G., Leabrook, Australia.

The geographical affinities of the
mosses of South Australia.

Koponen, T., University of Helsinki, Finland.

The family Mniaceae in Australasia
and the Pacific

Koponen, T., University of Helsinki, Finland.

Splachnaceae in Australasia and the
Pacific.

Inoue, H., National Science Museum,
Tokyo, Japan.

Speciation and distribution of *Pla-
giochila* in Australasia and the
Pacific.

Chairman: W.C. Steere, USA.

Seppelt, R.D., Antarctic Division,
Australia.

Ditrichum and other genera of Dit-
richaceae in Australasia and the
Pacific.

Iwatsuki, Z. Hattori Botanical Labora-
tory, Japan.

Speciation of the moss genus

Fissidens in New Caledonia.

van Zanten, B.O. University of Groni-
gen, Netherlands.

The origin of the New Guinea bryo-
flora.

Gradstein, S.R. & W.A. Weber, Inst. Syst.

Plantkunde, Utrecht, Netherlands
and University of Colorado, USA,
Bryogeography of the Galapagos
Island.

Ochi, H., Tottori University, Japan.

A phytogeographical consideration
of Australasian Bryoideae in rela-
tion to those in other countries.

Vitt, D.H., University of Alberta, Canada.

Population variation and speciation
of Austral mosses.

Thursday 27 Aug. a.m.

8A.21 Physiology and ecology of bryo-
phytes

Chairman: S.R. Gradstein, Netherlands.

Odu, E.A. University of Ife, Nigeria.

Reproductive phenology of some trop-
ical African mosses.

Chien, G., Chinese Academy of Sciences
China.

Study on the bryophytes in north-
east China.

Pickard, J., Antarctic Division, Aus-
tralia.

Vegetation of the Vestfold Hills,
Antarctica.

Hartmann, E., Cove, D., Klingenberg, B.

& N. Grimsley, Universität des
Mainz, W. Germany.

Light perception and phototropism
in mosses.

Bowers, M.C. & J. Rule, Northern Mich-
igan University, USA.

Inhibiting effects of S-Ethyl Dipro-
pylthiocarbamate (EPTC) on *Polytri-
chum commune* protonema and their re-
versal with gibberellic acid. Part 1.

Bowers, M.C. & J. Rule, Northern Mich-
igan University, USA.

Inhibiting effects of S-Ethyl Dip-
ropylthiocarbamate (EPTC) on *Poly-
trichum commune* protonema and their
reversal with gibberellic acid.
Part 2.

Lemmon, B.E. & R.C. Brown, University
of Southwestern Louisiana, USA.

Ultrastructural aspects of moss mei-
osis: cytokinesis and organelle appor-
tionment in *Rhyncostegium serrulatum*.

Smith, A.J.E., University College of
North Wales, Great Britain.

Aspects of biosystematics in bryophytes.

NOTE

A great many abstracts were not received in time and being long overdue will not now appear in the official book of abstracts. It will not, of course, invalidate the delivery of a paper at the Congress.

 Bryology posters

- Stange, L., Gesamthochschule Kassel, W. Germany.
Influence of light intensity on meristem structure and activity in *Riella helicophylla*.
- Otto, K.R.,
Decrease of ATP in *Marchantia gemmae*, a parameter for the uptake of IAA.
- Fedyk, J.D., Botanical Institute, Ukrainian S.S.R.,
Experimental control of alternative morphogenetic paths in *Tetraxis pelucida*.
- Johri, M.M., Washington University, Missouri, USA.
Control of chloronema and caulonema differentiation in mosses.
- Kaufman, P.B., Dayanandan, P., Thomas, R. & J. Taylor, University of Michigan, USA.
Comparative analysis of rapid growth responses using three model systems: *Conocephalum* archegoniophores, *Pellia setae*, and *Avena* internodes.
- Spiess, L.D., B.B. & J.A. Lippincott, Northwestern University, USA.
Bacteria-moss interactions in the regulation of *Pylaisiella selwynii* development.
- Verdus, M.-C., Université de Lille, France
Ultrastructure of the protonematal propagules of *Dicranoweisia cirrata* (Hedw.) Lindb.
- Thaithong, O., Chulalongkorn University, Thailand.
Fine structure of spore wall in fourteen species of *Riccia*.
- Ulychna, K.O., Academy of Sciences of the Ukrainian S.S.R. Lvov, U.S.S.R.
The anomalous location of gametangia on moss gametophores.
- Woodfin, C.M. & H.C. Bold, University of Texas.
Morphogenetic studies on Ricciaceae with special emphasis on *R. hirta*.
- Busby, C., Australian National University, Australia.
? Title (E.M. of protonemata).
- Sarafis, V.,
On some unusual properties of *Anthoceros* chloroplasts.
- Bell, G.H., University of Adelaide, Australia.
Leaf morphology of arid-zone moss species from South Australia.
- Geissler, P., Conservatoire et Jardin Botaniques, Geneve, Switzerland.
SEM studies on capsule walls of Lejeuneaceae.
- Steinkamp, M.P. & W.T. Doyle, University of California, Santa Cruz, USA.
Sporoderm ultrastructure in *Asterella* and *Mannia* (Hepaticae).
- Chopra, R.N., University of Delhi, India.
? Title
- Green, A.T.G., University of Waikato, New Zealand.
Field studies on the photosynthesis of Antarctic bryophytes of the McMurdo dry valley region.
- Selkirk, P.M. & D.R., Macquarie University, Australia.
Quaternary moss from Macquarie Island
- Kaul, A. & S. Bhansar, Madhav Vigyan Mahavidyalaya, India.
Physiological studies on *Plagiochasma intermedium*.
- Kaul, A. & K. Patidar, Madhav Vigyan Mahavidyalaya, India.
Physiological studies on three species of *Riccia*.
- Nehira, K., Hiroshima University, Japan.
Rhizoid formation in *Marchantia gemmae*.
- Schultze-Motel, W., Berlin Botanic Gardens, W. Germany.
Max Fleischer's bryological collections in Australia and New Zealand.
- Russell, S., University of Fort Hare, S. Africa.
Humidity gradients and bryophyte zonation in the Afro-montane forests of the Eastern Cape, South Africa.
- Weber, W.A., University of Colorado, Boulder, USA.
Alpine cryptogamic vegetation of Kosciusko.
- Saxena, K.K., Bareilly College, India.
The role of *Anthoceros* as a biofertiliser.
- Sarafis, V., Hawkesbury Agricultural College, Richmond, Australia.
Germination in *Dawsonia superba*.
- Hewson, H.J. Bureau of Flora and Fauna, Canberra, Australia.
Metzgeriales in Australia: some new thoughts.

De Sloover, J.R. & V. Messe, Catholic University, Louvain, Belgium. Spatial distribution of the autodiploid *Pellia borealis* Lorbeer in the geographic range of the related haploid taxon *Pellia epiphylla* (L.) Corda.

Schriebl, A., Universität des Graz, Austria. Experiments of culture on the moss-genus *Polytrichum*.

Czeczoga, B., Medical Academy, Biolytok, Poland. Carotenoid content in Musci from the Antarctic.

As announced in *Bryol. Times* 7:9 and 9:5, in addition to the special bryological excursion in the week preceding the Congress (Monday 17 August - Thursday 20 August), there will be a single day tour of the Blue Mountains on Sunday 23rd (cost A\$22.50) which will take in some of the ground covered in the main bryological excursion, although it is not an official part of the Section 8A programme. Informal trips to the same area may be possible during the Congress.

Australian bryologists: are all looking forward with great interest to welcoming colleagues from all over the world.

To those who would like to visit Melbourne after the Congress, my wife and I would be delighted to offer you the hospitality of our home (and cellar!) if you can tolerate sleeping in a camp bed on a share of floor space, not at all private. My home telephone number is 544-7204 (work number 541-3811) in case you need help at any time. If possible, please let us have warning of your arrival. I will also do what I can to provide transport to nearby collecting areas, but vehicles will be in great demand at that time. Please let me know if I can help in any way.

G.A.M. Scott, Chairman, Bryology Section Committee, Department of Botany, Monash University, Clayton, Victoria 3168, Australia.

Bryology Section Dinner - August 26, 1981. Ticket (A\$20.00) must be purchased by 21 August during registration. This price includes transport, drinks and food. If arriving in Syd-

ney later than this please contact - P. Selkirk, School of Biological Sciences, Macquarie University, North Ryde, 2113, Australia earlier for reservation.

IAB Business Meeting
University of Sydney, Australia
Monday 24 August, 1981 - 12.00h.

Agenda

1. Apologies for absence
2. Minutes
3. Chairman's remarks and announcements
4. Officers' reports (Secretary, editors)
5. Committee reports (Constitution, medals)
6. Membership fee
7. Election of Officers and Councilors
8. Forthcoming meetings
9. IAB projects: status and comments
10. Any other business

S. R. Gradstein, Instituut voor Systematische Plantkunde, Heidelberglaan 2 3584 CS Utrecht, Netherland.

FROM LENINGRAD TO SYDNEY:

AN ASSÉSSMENT

By Lewis E. Anderson

IT HAS BEEN SAID that one of the signs of health in an organization is the presence of open discussion. If this is true, then, as the readers of these columns well know, IAB is, indeed, in prime condition! As my term of office as the second president comes to an end, it seems appropriate that I present some of my thoughts on how things stand with IAB as I bow out. I will try not to dwell on accomplishments that have already been well summarized in recent articles in this Newsletter, notably by Royce Longton, Stanley Greene and Nancy Slack. I would like to present my views on some of the main functions of IAB, comment on a few of the criticisms that have been voiced, and express some of my concerns and hopes for the future.

The Constitution of IAB summarizes its objectives well enough in the single phrase: "..... to promote international co-operation and communication among bryologists" This was reason enough for the esta-

ishment of IAB and one that could be agreed upon with ease by the group of founding members. As one might have predicted, however, as that group of independent-minded, individualistic bryologists, differing vastly not only linguistically, but in their cultures, training, life styles, loyalties, and philosophies, increased in numbers and set about putting into practice the objectives of this Constitution, different ideas emerged as to how to proceed. Words and phrases that to some seemed specific and harmless would appear to others as vague and suspicious, and always to a few, dark and foreboding. Six years and three general meetings later, the present Constitution was adopted in Leningrad in 1975, and then by no means unanimously. No one was ever completely satisfied with the complete wording! It was no surprise, therefore, that suggestions for modifications and revisions began to accumulate.

When it became apparent from a recent informal poll of Council opinion, taken by Stanley Greene, that most of them felt that the Constitution need shoring up in a number of places, I appointed a committee to review its wording in its entirety and to make recommendations for eventual submission to the membership. This committee is hard at work and Gert Mogensen, its Chairman, thinks a report will be forthcoming in time to circulate to Council prior to the Sydney meetings. I feel confident that the recommendations of this committee will touch on most, if not all, of the obscurities and deficiencies that have bothered members. Most imperative, perhaps, is the need to eliminate the "associate" member classification, which Royce Longton and Gert Mogensen have discussed in their articles to The Bryological Times, and which Stanley Greene has also deplored in his letter to Council. In practice, from the outset all members have had equal privileges within IAB with full access to all of its activities. The Constitution, however, should reflect this.

I look upon IAB basically as a service organization. A prime function is to carry out those operations and promotions for bryology that the RBS (Regional Bryological Societies as Mogensen aptly called them) cannot manage appropriately and effectively. Mogensen, unjustly I believe, has accused IAB of "coexistence" instead of "co-operation" with the RBS. In fact

IAB has tried very hard not to compete nor to involve itself in operations that conflict in any way with the activities of the RBS. IAB derives essentially all of its vitality from members who also belong to one or more of the RBS. To enter into competition or engage in conflicting activities, therefore, would be self-defeating and suicidal. I believe Mogensen's criticisms to be honest, sincere, and conscientious, and they should be listened to seriously but some, certainly, are based on misinterpretations or misunderstandings and a lack of knowledge of IAB's operations.

I see no need for a formal structure to promote co-operation between IAB and the RBS: the required mechanism already exists. Mogensen has hinted vaguely at some sort of federation of societies that would be under the umbrella of IAB. I am sure this is the last thing the RBS want and certainly IAB, as presently constituted, has no desire to become involved in RBS affairs. Strongly regional, each with differing sets of problems, and fiercely independent, I don't believe the RBS would look with any favour upon any arrangements of this sort. Nevertheless, all of the facilities of IAB are available to the societies if they want to use them. For example, the pages of The Bryological Times and the Bulletin are open to them for news items, announcements, and other forms of communication. In short, I feel sure IAB would welcome any opportunity to assist the RBS in any way it can, but I believe it should not, and does not, wish to intrude in their affairs.

One of the practical reasons for forming IAB was the need for an organization that could assume continuing responsibility for arranging bryological sessions at international congresses and other international meetings. The founders had in mind, particularly, the IBC (International Botanical Congress) where the responsibility for bryological participation has always been diffuse and uncertain, sometimes resulting in no bryological sections at all. IBC officials discourage independent sections for special plant groups and the forthcoming XIII Congress in Sydney has been no exception. It has taken an enormous effort, beginning in early 1978, to pry loose Section 8A for bryology. Because they spoke for IAB, Rob Gradstein, Stanley Greene and particularly George Scott, our programme representative, all of whom worked long and tirelessly for

this concession, were able to succeed. Even so, it is still a subsection of the systematics section, although we are completely independent. Perhaps with this experience behind us, we can ensure our own section number in the future, as mycology now enjoys.

IAB enjoyed highly successful participation at both meetings of ICSEB (International Congress of Systematic and Evolutionary Biology) in Boulder in 1973 and again in Vancouver in 1980 although an irresolvable conflict kept participation and attendance down at the latter. I think ICSEB is an enormously important congress. It represents a very broad spectrum of plant and animal biology and offers bryology an opportunity to make an impact on a multitude of closely related areas which, I think, enhances our image. I believe IAB should redouble its efforts to sponsor a strong representation at future ICSEB meetings. Similarly, I would like to see IAB invade other congresses with bryological programmes, e.g. IGC (Genetics), INTECOL (Ecology) ICCB (Cell Biology), ICDB (Developmental Biology), etc., providing we can put together substantial and significant contributions. Also I think bryologists, individually, are too timid and too reticent about submitting articles to non-bryological journals, which would enlarge the impact of bryology by bringing our researches before larger and more diverse audiences. This is especially true of broadly structured review articles that might be of interest to generalists and other non-bryologists.

There is not enough space to comment fully on those aspects of the IAB/IAPT relationship voiced by Royce Longton and Gert Mogensen. I see the relationship between IAB and IAPT as a business arrangement, nothing more. In return for the members who join IAPT through their IAB interests, IAPT provides office management for IAB. This includes some clerical, mailing, and accounting services and the handling of our membership rolls. IAPT also provides space in *Taxon* for our *Bulletin of Bryology*. IAPT exerts no influence or control whatsoever on the policies, management, or activities of IAB. Thus what we have is an arrangement with IAPT not an association nor a committee as has been suggested. About half of IAB's members take advantage of the IAPT arrangements while the other half pay the five-dollar (D.fl. 10) fee which, according to Rob Gradstein, just about covers the cost

of producing *The Bryological Times*. Every applicant for membership of IAB has a clear option to choose either route. I happen to think that the arrangement with IAPT is in IAB's favour both financially and professionally, and so do some of the officials of IAPT. These are all matters that should be examined extremely carefully and in depth by a competent committee before any consideration should be given to terminating the arrangement with IAPT.

It has been suggested that IAB "is focusing too closely on matters taxonomic". I do not think this is true and I refer the reader to Rob Gradstein's note following Royce Longton's article, in *Bryol. Times* No. 4, on this subject. A glance at the titles of papers and symposia sponsored by IAB at congresses will reveal a generous representation of non-taxonomic contributions. If our sponsored publications lean more toward taxonomic subjects, it is only because these are the suggestions that members have offered. The Council of IAB eagerly invites suggestions for any activity that would benefit from IAB sponsorship, taxonomic or non-taxonomic.

Bryology has made substantial, although not spectacular, progress since the 1950's. The field still lags behind phanerogamic research in almost all respects, taxonomic, inventory, and in all experimental areas. I am concerned that we may be entering into a period of diminishing opportunities for young bryologists. It is becoming increasingly difficult to convince institutions to hire bryologists. Shrinking enrolments in colleges and universities, and the inflationary pressures on all institutions, compound the already mounting difficulties, problems, that the RBS, IAB, and individual bryologists need to address with all of the combined energies they can muster. I regret that I have no suggestions that might have immediate effects. The slow process of upgrading the field through more vigorous and sophisticated research and by more careful selection of students is only a statement. Translating such ideals into hard practice is difficult. Certainly, departmental administrators in all institutions in which bryology could play a role need to be repeatedly exposed to the unique opportunities in bryological research as well as, thorough indoctrination, to the competence of bryologists as generalists and as secondary specialists than can

contribute breadth and depth to a biological programme.

Turning to another aspect of IAB's affairs, I am somewhat concerned that IAB may be trying to do too much. I hope that it does not drift into what I call an ecstasy of administration: administration for its own sake. It must be careful not to pile on projects and activities just to keep busy and pile up an impressive list of paper accomplishments. Also I think care needs to be taken to make sure that the authors and subjects of symposia and review papers that IAB is sponsoring do not become too repetitive. Is it possible that we have nearly exhausted our reservoir of basic research information?

Finally, I am not bothered by disagreements over how IAB should be run or how its mission should be carried out. I would be greatly concerned if we had total agreement and assent among our members. Disagreements arouse thought and stimulate discussion. Opposition to one's own views can lead to fresh perspectives by challenging us to be more logical and consistent in the defence of our prior beliefs and by compelling us to re-examine some of our cherished opinions and established views. Arguments should not seek to convert one to another view, for then they merge into stale and sterile indoctrination and propaganda. Rather, through compromises, concessions and out of the respect and tolerance for the opinion of others, I believe we must slowly try to adapt our Association so that it will, indeed, promote international cooperation and communication among bryologists. Heaven help us if we ever think we have totally succeeded!

Department of Botany, Duke University,
Durham, N.C. 27706, U.S.A.

GENEVA WORKSHOP PROCEEDINGS

AS A RESULT OF THE announcement in *Bryol. Times* 8:8, Hern Cramer wrote offering to publish the manuscript as a *Beihefte zur Nova Hedwigia*. This offer was gladly accepted by the editors, particularly as copies will be available to participants on exactly the same terms as before. Explanatory letters have been sent to all contributors. The volume is due for publication before the end of 1981.

S. W. Greene.

Personalia

DR. P. GEISSLER will be working with Drs. Barbara and Ray Stotler at the Department of Botany, Southern Illinois University, Carbondale, Ill. 62901, U.S.A. from 5 September to 15 December, 1981.

DR. S.W. GREENE has been elected Vice-President of IAPT, 1981-87.

DRS. S.R. GRADSTEIN, H.J. SIPMAN and P. GEISSLER will be on a field trip in Papua New Guinea (Mt. Kainai & Mt. Wilhelm) from Aug. 3 to Aug. 20, primarily to collect material of Lejeuneaceae and Lecideaceae for their present research programmes.

DR. S.R. GRADSTEIN will be working on Cuban liverworts, especially Lejeuneaceae, with T. Pócs in Vácrátót, Hungary from the end of October to early November, 1981.

DIANA HORTON successfully defended her Ph.D. thesis on December 29, 1980 entitled "A revision of the Encalyptaceae (Musci) with particular reference to the North American taxa". It will soon be published in the *J. Hattori bot. Lab.*

As of January 1, 1981 she accepted the position of Assistant Professor supported by the National Sciences and Engineering Research Council of Canada at the University of Alberta. She will continue her research in bryology and in peatlands ecology.

DR. ANN JOHNSON, formerly of Nanyang University, Singapore (which closed 1 July 1980), is unlikely to undertake any further bryological work in the foreseeable future as she is reading for the degree of Master of Divinity in Trinity Theological College, Singapore. She is also doing some writing for the Singapore Science Council's Science and Technology Quarterly. She can be contacted at 10A Brighton Avenue, Singapore 1955.

DR. T. KOPONEN will be away from Helsinki until the end of October, 1981. During this time he will undertake fieldwork in Papua New Guinea until mid-August, attend XIII IBC at Sydney, be in Japan during the first two weeks of September and then undertake research in herbaria and in the field in the Peoples Republic of China. He can be contacted in Australia, c/o

Dr. G.A.M. Scott, Clayton, in Japan (16 Aug. - 14 Sept.), c/o Dr. H. Inoue Tokyo and in China (15 Sept. - 10 Oct) c/o Dr. J.S. Lou, Institutum Botanicum, Academia Sinica, 141 Hsi Chih Men Wai Ta Chie, Beijing, China; 11-30 Oct., c/o Institute of Botany, Academia Sinica, Canton (Guangshou), China.

DR. W.D. MARGADANT retired from the Biohistorical Institute, Utrecht on the 1st June, 1981. He plans to continue working on his bryological projects and may be contacted at his home Klein Ginkel, Ginkelse weg 2, 3956-KJ Leersum, Netherlands.

ROY PERRY, Hon. Gen. Sec. of the BBS, will be in the USA from the end of June, 1981 until mid-September to work on bryophyte ecology with Prof. Nancy Slack, Dept. of Biology, Russell Sage College, Troy, NY 12180, where he will be contactable until mid-August. Thereafter, however, he will have no fixed address! All important BBS matters requiring immediate attention during this period may be addressed to Dr. S.W. Greene who has kindly offered to deal with them. Roy looks forward to making contact with other American bryologists during his visit.

MISS BARBARA M. THIERS has accepted the post of Postdoctoral museum internship at the New York Botanical Garden, 1981-82 (see Bryol. Times 8:6). She is expected to move there in September 1981 on the completion of her dissertation on branching patterns in the Lejeuneaceae.

DR. D.H. VITT will teach a bryology course at the University of Minnesota Forestry and Biological Station, Lake Itasca Post Office, Minnesota 56460, USA, between July 14 and August 20. During this time he will also conduct research in *Sphagnum* ecology in northern Minnesota.

Between August 26 and December 15, he will be in residence at the School of Botany, University of New South Wales, Kensington 2033, New South Wales, Australia where, with Helen Ramsay, he will be revising the Australian species of *Macromitrium*. Australian specimens of this genus are needed for this study and anyone having material is asked to send it to Dr. Ramsay as soon as possible. Specimens will be annotated and returned as soon as possible.

DR. P.C. WU of the Institutum Botanicum, Academia Sinica, Beijing will be working at the Missouri Botanical Garden from May 1981 until the summer of 1982.

Membership of IAB

THE FOLLOWING LISTS are for the period 1 March - 31 May, 1981 and update those published in Bryol. Times 9:7.

New members

G. Bell*, R. Gauthier, J.E. Moore, D.A. Ratkowsky*, K. Stove*, O. Thaitong.

Deletion

C. H. Steinberg

Addresses

Bell, G., Department of Botany, University of Adelaide, Box 498, G.P.O. Adelaide, South Australia 5000.
Ratkowsky, D.A., CSIRO Tasmanian Regional Laboratory, Stowell Avenue, Hobart, Tasmania 7000, Australia.
Stove, K., State Herbarium of South Australia, Adelaide Botanic Gardens North Terrace, Adelaide, South Australia 5000.

Change of Address

Janssens, Jan A., Limnological Research Center, University of Minnesota, Pillsbury Hall, Minneapolis, Minnesota 55455, USA.
Pechanec, A., P.O. Box 236, Salmon, Idaho 83467, U.S.A.
Werner, E., Knoopkruid 12, 6721 RA Bennekom, The Netherlands.

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.

Deaths

FOSTER, W.D. on 4th June, 1981 at Manchester, England.

SEHNEM, ALOYSIUS, Fr. on 19. March, 1981 at São Leopoldo, Brazil.

STEINBERG, CARLO, H., on 16 March, 1981 at Fiesole, Italy.

BUENOS AIRES HERBARIUM

A NEW ADMINISTRATIVE POLICY concerning the delivery of parcels to the Museo Argentino de Ciencias Naturales Bernardino Rivadavia in Buenos Aires, requires that all consignments should be addressed to THE DIRECTOR, for the attention of We urge bryologists sending material to BA to take notice of this advice and that the new corrected address of the Museum is as follows:

Museo Argentino de Ciencias Naturales Bernardino Rivadavia,
Av. Angel Gallardo 470,
C.C. 220,
1405 BUENOS AIRES,
República Argentina.

IAB Council 1981 - 1987

THE RESULTS OF THE RECENT BALLOT for Officers and members of Council of IAB for the period 1981-87 were that H. Bischler, Z. Iwatsuki, G.S. Mogensen T. Pócs, G.A.M. Scott, J. Szweykowski, and D.H. Vitt were elected. Officers and members due to retire are: I.I. Abramov, S. Hattori, S. Jovet-Ast, W.D. Margadant, E. Nyholm and W.C. Steere.

The composition of the new Council is as follows:

President: H. Inoue (Japan)
Past President: L.E. Anderson (USA)
First Vice-President: H. Bischler (France)
Second Vice-President: T. Pócs (Hungary)
Secretary: S.R. Gradstein (Netherlands)

Council members: M.R. Crosby (USA), S.W. Greene (UK), Z. Iwatsuki (Japan), T. Koponen (Finland), G.S. Mogensen (Denmark), W.B. Schofield (Canada), W. Schultze-Motel (Germany), G.A.M. Scott (Australia), J. Szweykowski (Poland) and D.H. Vitt (Canada).

Recent Publications

Australasian Bryol. Newsletter No.4
1981.

Novosti Sistematiki Nizshikh Rastenii
Moskva. Vol. 18, 1981.

Proc. Bryol. Soc. Japan Vol. 3, No.1,
1981.

CAO, C. & K.C. CANG. 1981 Flora Hepaticarum Chinae Boreali-Orientalis Beijing, Science Press, i-vi 1-220, 87 plates. In Chinese with Latin nomenclature.

The text is in two parts. The first (or general) part deals with the morphology of liverworts and includes keys to the families of hepatics in North-East China while the second part consists of the descriptions of 32 families, 174 species, 2 varieties and 2 forms, and contains keys to genera and species. Latin diagnoses are provided for 21 new taxa (17 sp. nov., 3 var nov., and 1 fo. nov.).

From information kindly provided by Dr. P.C. Wu, Academia Sinica, Beijing.

STAFLEU, F.A. & R.S. COWAN, 1981. Taxonomic literature. A selective guide to botanical publications and collections with dates commentaries and types Vol. III: Lh-0, Ed. 2. Regnum Vegetabile Vol.105: 1-980. Utrecht, Bohn, Scheltema & Holkema; The Hague, dr. W. Junk b.v. [Vol. I: A-G, Regnum Vegetabile 94: 1-1136, 1976; Vol. II: H-Le, Regnum Vegetabile 98: 1-991, 1979.]

This volume continues "TL-2", the updated edition of F. Stafleu's (1967) Taxonomic literature, Regnum Vegetabile Vol. 52, or TL-1 as it is now being called. Although bryologists did not find much to interest them in TL-1 (which concentrated on the works of vascular plant taxonomists) the very much broader scope of TL-2 makes it a veritable treasure house of valuable information. For each author treated, information is given on: basic biographical details; the location of the person's herbarium and types; references to sources of further biographical information, eponymy (i.e. generic and journal names based on the name of the person) and the title of each work treated with dates and places of publication, dates of parts etc.. Papers in open-ended periodicals or serial publications are normally not included. The period covered is 1753-1940 with special emphasis on the period between 1870 and 1914.

In Vol. III will be found information on works by S.O. Lindberg; C. B. Massalongo; W. Mitten, J.P.F.C. Montagne, Sir Ferdinand Jacob Heinrich ("Baron") von Mueller, Karl Müller of Freiburg and Johan Karl [Carl] August [Friedrich Wilhelm] Müller of

Halle, to mention some of the better known bryologists.

Like ING (see Bryol. Times 2:6), TL-2 is another of the major reference works produced by IAPT which no serious taxonomic bryologist will wish to be without.

[Bryomania, Issue No.4, June 27/26,1981]

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 the more useful it will be.

ABLS = American Bryological and Lichenological Society; BBS=British Bryological Society; BLAM=Bryologisch-lichenologische Arbeitsgemeinschaft f.Mitteleuropa; CEBWG=Central and East European Bryologists Working Group; IBC=International Botanical Congress; NBS = Nordic Bryological Society; SBLS=Swiss Bryological and Lichenological Society.

1981

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

21 July-4 Aug. BBS. Summer field meeting. Newtonmore (21-28 July) and Crianlarich (28 July-4 Aug) Scotland. For details see Bull. B.B.S. No. 37:17.

3-9 Aug. NBS. Jokkmokks & Kvikkjokks area Swedish Lapland. Annual meeting and excursion. Organizer, Thor-Björn Engelmark, Sektion för Botanik, Riksmuseet, S-104 05 Stockholm Sweden.

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. IBC. Sydney. For final programme. See this issue, p. 1-5.

27-31 Aug. SBLS. Field meeting in canton Obwalden, Central Switzerland. Organizer, Dr. E. Urmi.

5-10 Sept. BLAM. Excursion to Lungau Salzburgerland, Osterreich. See this issue p.12.

11-18 Sept. Preston Montford, England. Bryophyte field course. Tutor Dr. Martha Newton. For further particulars and registration write to Preston Montford Field Centre, Montford Bridge, Shrewsbury SY41DX.

18-20 Sept. Keweenaw Peninsula, Michigan. First Annual midwest bryological foray. For further details. See Bryol. Times 9:8.

19-20 Sept. BBS. Lancaster, England. Annual paper reading meeting and Annual general meeting. Booking form from Dr. A.J.C. Malloch, Dept. Biol. Sci., Univ. of Lancaster, LA1 4YQ. Further details to be announced in Bull B.B.S. No. 38.

28-29 Nov. BBS. London. Taxonomic workshop meeting at Thames Polytechnic. Further details to be announced in Bull. B.B.S. No. 38.

1982

14-19 June. CEBWG. Prague 3rd biennial meeting. For further details See Bryol. Times 9:10

1983

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

PREPUBLICATION OFFER

VOGELENZANG, L. Ed. Guide to the prices of antiquarian botanical books 1970-1979. Series A. Cryptogamic literature. Due December 1981, c. 530 pp.

Subscription price: Dfl. 80.- (incl. postage and packing). After publication: Dfl. 95.- (incl. postage and packing).

This work will cover the whole field of Cryptogamy and include:- books, monographs, reprints, periodicals.

Desiderata

DR. A. KAUL, 4/B-1, Teachers Hostel, Vikram University Campus, Ujjain, Madhya Pradesh, India, would like to receive common fruiting bryophytes from various parts of the world for study by post-graduate classes. He is also interested to receive material of rarer species.

Letters to the Editor

Dear Editor,

In the first few issues of The Bryological Times there have been a number of competitions, cryptograms, etc.. How about a competition for the World's Keenest Bryologist? And may I put my name forward as a strong candidate? Is there any other bryologist who has married a Moss

My wife's Christian name being Dorothy, answering to the common abbreviated form, made her Dot Moss, which can only be *Mnium punctatum*. My worry is - has Koponen cited her anywhere, and if so, how? I scarcely dare look. She is not at all empty-headed, so she could scarcely be a holotype. A syn-type? My dear Sir!!! We're both well into middle age, so "neotype" would be gross flattery; and as far as isotype, I'm sure there isn't another like her. Paratype is out - she's never jumped out of an aeroplane in her life. So, since I chose her, it will have to be lectotype. Hope into this packet, dear, I've got a nice red label for you

Cliff Townsend, Royal Botanic Gardens,
Kew, Richmond, Surrey TW9 3AB.

Dear Sir,

I believe your readers will be interested to hear about a new journal which is being started by the Society of Bionaturalists. Bionature will publish papers of wide ranging interest on many groups of plants, including bryophytes, preferably on cytogenetical aspects and on ecological and biological approaches to the study of populations.

The Society of Bionaturalists exists to promote research in such fields as population genetics, chromosomal and enzymatic variations in natural populations of plants and animals, including man, as well as other subjects.

Anyone interested in submitting a paper or wishing to learn more about the Society may write to the undersigned.

H.K. Goswami, Department of Genetics,
School of Biological Sciences, Bhopal
University, Bhopal (MP), India.

Bryologisch-lichenologische Arbeits-
gemeinschaft f. Mitteleuropa

Exkursion 1981: Geplant ist für die Zeit vom 5.-10. September 1981 eine lichenologisch-bryologisch Exkursion im Lungau (Salzburger Land, Österreich). Der 5. September ist als Anreisetag vorgesehen; das Standquartier wird in Mauterndorf 165 sein (Gästehaus Vitus). Die Führung der Exkursion wird Prof. Dr. Poelt übernehmen; Dr. Türk hat das Quartier besorgt.

Anmeldungen bis zum 1. Mai 1981 an Prof. Dr. J. Poelt, Institut f. systematische Botanik der Universität, Holteigasse 6, A-8010 Graz. - Die gemeldeten Teilnehmer erhalten rechtzeitig ein ausführliches Programm.

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. Schütze-Motel (Berlin). The editors do not accept responsibility for views expressed by authors in any of the articles published under their control.

For further details regarding the International Association of Bryologists, membership (currently US\$5.00 p.a.) etc. write to the Honorary Secretary, Dr. S.R. Gradstein, Instituut voor Systematische Plantkunde, Heidelberglaan 2, 3584 CS Utrecht, Netherlands

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

Correspondence concerning mailing etc. of The Bryological Times to M.A. van Slageren, Instituut voor Systematische Plantkunde, Heidelberglaan 2, 3584 CS Utrecht, The Netherlands.