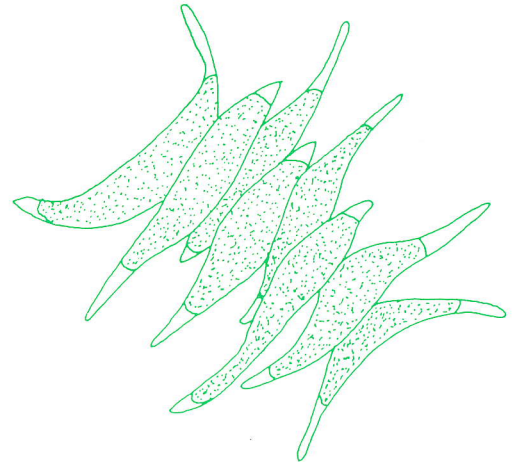


The Phycologist



**WINTER MEETING PROGRAMME
IN THIS ISSUE**

**The Newsletter of The
British Phycological Society**

NUMBER 33 - NOVEMBER 1992

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EDITORIAL - WINTER WARMERS

Just as the summer number is the "flexible" issue of *The Phycologist*, this issue is now the important bearer of news about the Winter meeting. Here we present the detailed programme of the meeting together with other announcements relevant to the meeting.

I would particularly like to bring your attention to the announcements on page 5, especially the auction, which raises money to, amongst other things, to enable students to attend the Winter meetings.

Please remember to bring this issue of the *phycologist* with you to the meeting. This is the only programme

which will be issued. Members requiring an extra copy at the meeting will be charged!

To again update you on developments, you will see on page 19 that there is to be a new journal replacing the *British Phycological Journal*. This new *European Journal* will no longer be carrying the abstracts of the winter meeting. These will now be in the spring issue of *"The Phycologist"*. As last year, we aim to have proofs for author correcting at the Winter meeting itself.

The Editor.

NEW COPY DEADLINES:

JANUARY 31

MAY 31

SEPTEMBER 30

REVIEWERS STILL REQUIRED

Reviewers are required for the books that continue to come in to the editor. It is important that books received are reviewed at the earliest possible opportunity and we are getting towards a rapid turn round. However, to be sure of this we still need more reviewers "on our files". Potential reviewers should write to the Editor. Reviewers should realise that their

reviews must be received by the next deadline after receipt of the book, they should be between 500 and 1000 words and preferably sent to the editor on computer disk (see back cover for details). In return the reviewer gets to keep the book!

WINTER MEETING 1993

THE BRITISH PHYCOLOGICAL SOCIETY WINTER MEETING

SWANSEA, JANUARY 4-7 1993

The BPS Winter Meeting 1993 will be held at the University of Wales, Swansea from Monday 4th January to Thursday 7th January 1993. The local secretary is:

Dr. Kevin Flynn. Biological Sciences
University of Wales, Swansea
Singleton Park Swansea SA2 8PP

Tel: 0792 295726 Fax: 0792 295447

THIS ISSUE OF THE PHYCOLOGIST CONTAINS A LOOSE SHEET FOR REGISTRATION TO THE WINTER MEETING. IF YOU HAVE NOT RECEIVED SUCH A REGISTRATION FORM CONTACT THE LOCAL SECRETARY (ABOVE) IMMEDIATELY.

The format of the meeting will be similar to that in Birmingham in 1992, with an "Industry Day" on the

Tuesday. That day will see the consideration of topics appropriate to water companies and other bodies associated with the well being of inshore and coastal areas.

Topics which will be considered include:-

"Nuisance" algae (by appearance, odour, toxicity etc.) and changes in algal communities with respect to dissolved and particulate discharges (domestic, industrial, agricultural).

The effects of thermal pollution, barrages and other coastal engineering projects and the introduction of alien species.

Fouling and antifouling

Mariculture, including feed for fish and shell fish and macrophyte production.

WINTER MEETING 1993

THE BRITISH PHYCOLOGICAL SOCIETY WINTER MEETING

SWANSEA, JANUARY 4-7 1993

FOR THE DETAILED PROGRAMME SEE PAGE 7

SEaweEDS OF THE BRITISH ISLES

A collaborative project of the British Phycological Society and the British Museum (Natural History).

All volumes are 210 x 148mm, illustrated, paperback.

Just published (review in next issue)

Volume 2 *Chlorophyta*

by E.M. Burrows, 1991. 256pp numerous figs. Price £27.00. ISBN 0 565 00981 8

Previously published

Volume 1 *Rhodophyta*.

Part 1 Introduction, *Nemaliales*, *Gigartinales*,

by P.S. Dixon & L.M. Irvine, 1977. xi + 252pp 90 figs Price: £15.00 ISBN 0-565-00781-5

Part 2A *Cryptonemiales* (sensu stricto), *Palmariales*, *Rhodymeniales*,

by L.M. Irvine, 1983. xii + 115pp 29 figs. Price: £15.00 ISBN 0-565-00871-4

Volume 3 *Fucophyceae* (*Phaeophyceae*).

Part 1 by R.L. Fletcher, 1987. 360pp 90 figs 15 plates Price: £30.00 ISBN 0-565-00992-3.

Volume 4 *Tribophyceae* (*Xanthophyceae*)

by T. Christensen, 1987. Price: £7.50. ISBN 0-565-00980-X

Volume 3(1) and 4 are available at a reduced price of £32.00 to members of the British Phycological Society.

Copies may be obtained from Publication Sales, Natural History Museum, Cromwell Road, London SW7 5BD, with payment in advance. (+ 15% postage, minimum £1.00).

Tel: 071 938 9386 (24 hour answering service)

Fax. 071 938 9212

Payment can be made by:

cheque payable to "Natural History Museum Publications".

Bank Transfer to National Westminster Bank, 186 Brompton Road, London SW3 1HH. Sort code 60-04-04, Account 18129846.

National Giro Account No UK 514 7026

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THE B.P.S. WINTER MEETING AUCTION

THE B.P.S. WINTER MEETING AUCTION

Are your bookshelves groaning under the weight of your library of learned tomes? Do you find that you return from international congresses and symposia (what is the difference between these?) laden down with all manner of curios and souvenirs relating to algae for which, when you get home, you cannot find a use or place?

If the answer to either of these questions is "Yes" then the B.P.S. Winter Auction needs YOU! (and, if the answer to both questions is "no", then you obviously have riches in heaven, having already given away everything you could, because everybody has superfluous material somewhere on their shelves).

Having decided what you are going to contribute to this very worthy cause (the auction is held at the conference

dinner and is a most enjoyable part of the evening - ed). please bring your donations with you to the Swansea meeting. If you are not going to be there (which, of course you are) then give your donations to someone to take to Swansea for you. If you can't find a willing porter, then send donations to me please (but only as a lost resort - I can't afford to hire a Pickfords low loader!)

Dr. Gavin Hardy
Department of Marine Sciences and Coastal
Management,
The University,
Newcastle upon Tyne,
NE1 7RU

THE IRENE MANTON PRIZE FOR THE BEST RESEARCH STUDENT TALK

Council of the Society have agreed that a prize in the region of £150, together with a Certificate, will be awarded annually for the best paper delivered at the Winter Meeting by a research student. The paper should be delivered during the student's PhD (or other degree) period, or within one year of the degree being awarded. The prize will be awarded on the evening of the Conference Dinner, starting at the Swansea meeting, 4-7th January 1993. The following points should be borne in mind.

1) The Secretary should be informed at the time an abstract is submitted if the author wishes the paper to be

considered for the prize. At this time the supervisor(s) should also provide a letter stating that the work to be reported was essentially carried out in its entirety by the research student, although one or more supervisors names may appear on the list of the authors of the paper.

2) Papers will be judged by a panel of 5 senior members of the Society, and the programme will be organised such that no two contenders speak simultaneously.

L.V.Evans, Chairman: Evaluation Panel.

BOOK REVIEWS

A catalog of Benthic Marine Algae and Seagrasses of Venezuela.

by: E.K.Ganesan,

CONICIT Fondo Editorial, Caracas, 1989.

ISBN 960-6020-20-0

Since it is almost two hundred years that marine botanical exploration began in Venezuela, with visits by the German naturalist Alexander von Humboldt and the French botanist A.J. Bonpland, **A catalog of Benthic Marine Algae and Seagrasses of Venezuela** is a timely and valuable publication. It brings together information from many marine botanical studies that have been carried out in Venezuela, a part of the world that has attracted much attention from explorers and naturalists as a consequence of the region's extensive and diverse coastline and several offshore islands.

This book is clearly laid out and after an abstract and acknowledgements, there is a brief introduction followed by a section tracing the history of marine botany in Venezuela. Prior to the listing of plant species, there is an explanation of the format in which this material is presented, outlining the classification systems used for the different groups of plants. The catalogue covers six classes of benthic marine plants: Cyanophyceae (blue-green algae), Rhodophyceae (red algae), Xanthophyceae (yellow-green algae), Phaeophyceae (brown algae), Chlorophyceae (green algae) and Angiospermae (flowering plants), and is set out to reflect an assumed ascending phylogenetic sequence. In addition to selected references for each species, the author has included some useful annotations. The book concludes with a series of maps giving the majority of localities that are mentioned for the species contained in the catalogue.

The contents of the catalogue reveal the rich diversity of the marine flora of Venezuela, with a listing of 522 taxa of specific or infraspecific rank. However, this book also lists 116 uncertain records, indicating that there is still much to add to our knowledge of marine botany in this area. Two examples which stand out in the catalogue in this respect are firstly, the order red calcareous algae, the Corallinales, and secondly, the green algal genus *Cladophora*. In the first group there are several uncertain records of unidentified species including members of the genera *Fosliella*, *Goniolithon*, *Lithothamnion*, *Amphiroa* and *Jania*. In the second there is a list of sixteen uncertain records of members of the genus *Cladophora*, of which just under one third are unidentified at the species level.

It is apparent from the material contained in this work that much time and painstaking research has been needed to gather together all the relevant information. It is therefore unfortunate that the author did not see the final proofs, as there are a number of errors scattered about the text, including occasional inconsistencies between references in the text and bibliography. A separate sheet listing errata is included with the book and accounts for some of these minor problems.

Doubtless **A catalog of Benthic Marine Algae and Seagrasses of Venezuela** is a work of considerable value to marine botanists and other interested parties, including ecologists and those with a commercial leaning. This book provides a basis from which an assessment for future changes can be made, and points towards taxonomic problems that are still to be solved. This work should therefore encourage a continuation of the interest in marine botany in Venezuela that has been sustained for the past two centuries

Juliet Brodie

PROGRAMME

WINTER MEETING 1993

THE BRITISH PHYCOLOGICAL SOCIETY WINTER MEETING

SWANSEA, JANUARY 4-7 1993

PROGRAMME

Please bring this issue of The Phycologist with you to the Winter meeting. It is the official programme for the meeting and members arriving at Swansea without it may have to pay for another copy.

BRITISH PHYCOLOGICAL SOCIETY
Winter meeting 1993 - Programme

Monday 4th January 1993

Poster session - 18.30 onwards

- BARWELL, C.J., CUNNINGHAM, E.M. & GUIRY, M. (University of Portsmouth & University College Galway) - European marine algae as a source of phycobiliproteins.
- BARWELL, C.J., MA, Y.C. & NICHOLLS, T.J. (University of Portsmouth) - High performance liquid chromatography analysis of B-carotene and vitamin E in algal extracts.
- BARWELL, C.J. & MABEAU, S. (University of Portsmouth & CEVA, France) - European marine algae: a potential source of high value human food products.
- DONG, L.F., NIMER, N.A. & MERRETT, M.J. (University of Wales Swansea) - DIC utilization and calcite production in *E.huxleyi*.
- DONG, L.F., NIMER, N.A. & MERRETT, M.J. (University of Wales Swansea) - The regulation of NO_3^- uptake by CO_2 availability in a low-calcifying strain of *E.huxleyi*.
- DOUGLAS, G.E., JOHN, D.M. & PURVIS, W.D. (The Natural History Museum, London) - Morphological and molecular variation in *Trebouxia* (Chlorococcales, Chlorophyta) isolated from lichens growing on metalliferous rocks.
- FINLAY, J. & CALLOW, M.E. (University of Birmingham) - The evaluation of amines as potential anti-fouling agents.
- HARRIS, A.S.D., LEWIS, J.M. & JONES, K.J. (Dunstaffnage Marine Laboratory University of Westminster & Dunstaffnage Marine Laboratory) - The occurrence of diatom resting stages in a Scottish sea-loch over the spring bloom period.
- HOOVER, R.G. & WHITTICK, A. (Memorial University of Newfoundland) - Effect of thermal effluent on seaweed communities in Newfoundland.
- JACKSON, D., SILKE, J. & O'MAHONY, J. (Dept. of the Marine Fisheries Research Centre, Dublin) - *Gyrodinium aureolum* blooms in Irish waters - effects on Aquaculture operations.
- JONES, K., EDWARDS, A., GRAHAM, J., GRIFFITHS, C., MACDOUGALL, N. & RICHARD, J. (Dunstaffnage Marine Laboratory, Oban) - The effect of transient wind events on the formation of algal blooms in coastal rias.
- KUENSTNER, S.H. & LEWIS, J.M. (University of Westminster) - The distribution of *Alexandrium* sp. cysts on the UK coasts of the North Sea.
- MALIPHANT, P. (University of Hertfordshire) - Monitoring pesticide pollution of watercourses - The evaluation of epilithic diatoms as potential indicators.
- NIMER, N.A., DONG, L.F. & MERRETT, M.J. (University of Wales Swansea) - Role of nitrate in calcite production in *E.huxleyi*.
- NIMER, N.A. & MERRETT, M.J. (University of Wales Swansea) - The role of calcification in inorganic carbon acquisition by *E.huxleyi*.
- OKUS, E., ÖPIK, H. & HAYWARD, J. (University of Wales Swansea) - Seasonal variation in phytoplankton off the Mumbles sewage outfall.
- O'MAHONY, J. (Dept. of the Marine Fisheries Research Centre, Dublin) - Phytoplankton in a small estuary on the West coast of Ireland.
- ROGERS, D.J., MOCKLER, U. & HOOK, I. (University of Portsmouth & Trinity College Dublin) - Lectins from *Ulva* species.
- SCOTT, C. & FLETCHER, R.L. (University of Portsmouth) - Studies on fouling blue-green algal communities in Langstone Harbour, south coast of England.
- SCOTT, K., PETERSON, H.G., CHRISTOFI, N. & FALLOWFIELD, H. (Napier University, Saskatchewan Research Council & Scottish Agricultural College) - Nutrient management of stormwater retention ponds in Western Canada.
- STENGEL, D.B. & DRING, M.J. (Queen's University, Belfast) - Growth characteristics, photosynthesis and pigment contents of *Ascophyllum nodosum* from Strangford Lough - field and culture studies.

Tuesday 5th January 1993

Session A - Eutrophication

- 9.00 : GOWEN, R.J. (Aquatic Sciences Research Division, Belfast) - Predicting marine eutrophication.
 9.20 : REID, P.C. (Dept. of Environment & Plymouth Marine Laboratory) - Paris Commission Working group on eutrophication and algal blooms.
 9.40 : JEFFREY, D.W. (Trinity College Dublin) - Sources of nitrogen for nuisance macroalgal growths in Dublin Bay, Republic of Ireland.
 10.00 : HARITONIDIS, S. & TSEKOS, I. (University of Thessaloniki, Greece) - Eutrophication of Thermaikos Gulf, Greece and influence on the marine plant communities (macrophyceae and phanerogams).
 10.20 : FLETCHER, R.L. (University of Portsmouth) - Green tides: an overview.

10.50 : Coffee

Session A - Green tides and dinoflagellates

- 11.20 : LE BOZEC, S. (CEVA, Brittany) - Greens tides in Brittany: the case of the Bay of Saint-Brieuc.
 11.40 : NIELL, F.X. (University of Malaga, Spain) - Mechanisms of formation of an unusual green-tide of *Gyrodinium* cf. *aureolum* in North-west Spain.
 12.00 : CUOMO, V. (Ecolmare, Naples) - Compost from seaweeds: a simple biotechnology for the utilization of the *Ulva* biomass in the Venice lagoon.
 12.20 : DODGE, J. (Royal Holloway & Bedford College, London) - Biogeography of coastal dinoflagellates around the British Isles.
 12.40 : LEWIS, J. (University of Westminster) - Dinoflagellate cysts: biology, identification and localisation.

Session B - Physiology / Biochemistry

- 11.20 : JOHNSTON, A.M. & RAVEN, J.A. (University of Dundee) - The role of β -carboxylating enzymes in eukaryotic algae.
 11.40 : HIPKIN, C.R. (University of Wales Swansea) - Inorganic nitrogen assimilation in algae.
 12.00 : GIORDANO, M. & GILMOUR, D.J. (University of Sheffield) - Interactions between carbon and nitrogen metabolism in the unicellular green alga *Dunaliella*.

13.00 : Lunch

Session A - Toxic algal blooms

- 14.00 : JONES, K.J. (Dunstaffnage Marine Laboratory, Oban) - Harmful algal blooms - a global problem requiring international collaboration.
 14.30 : HEANEY, S.I. (Aquatic Sciences Research Division, Belfast) - A history of UK toxic algal blooms.
 14.50 : JACKSON, D., NIXON, E., SILKE, J. & TAFFE, B. (Dept. of the Marine Fisheries Research Centre, Dublin) - DSP Toxicity in Southwest Ireland.
 15.10 : FLYNN, K.J. (University of Wales Swansea) - Toxicity in dinoflagellates - the role of nutrient physiology.

15.30: Tea

Session A - Techniques

- 16.00 : GIESKES, W.W.C. & VRIELING, E.G. (University of Groningen, The Netherlands) - Nuisance algae along the Dutch coasts of the North Sea: detection of toxic species by immunochemical methods.
 16.30 : TAYLOR, J.A., CODD, G.A., HEANEY, S.I. & CORRY, J. (University of Dundee, Department of Agriculture, Northern Ireland, Institute of Freshwater Ecology, Ambleside) - Immunodetection of freshwater cyanobacterial picoplankters by continuous flow cytometry.

16.50: BIRKBECK, T.H. (University of Glasgow) - New and alternative methods for screening for toxicity in algae.

17.10: GLADSTONE, J. & LOPEZ-REAL, J.M. (Wye College) - Recycling and composting of seaweed wastes.

Session B - Phytoplankton

16.10 : DAVIDSON, K., CUNNINGHAM, A. & FLYNN, K.J. (University of Strathclyde & University of Wales Swansea) - Mathematical modelling of time lags in phytoplankton growth dynamics.

16.30 : KENNAWAY, G.M.A., LUCAS, I.A.N. & TETT, P. (University College of North Wales) - Observations on taxonomic diversity and changes in the floristic composition of marine microflagellate blooms.

16.50 : SMITH, M.A. (University of Hertfordshire) - Water quality and algal blooms in a Middle Russian wetland system.

pm - Disco

Wednesday 6th January 1993

Session A - Manton Prize presentations

9.00 : LOVE, A.J., GUBBINS, B. & LEADBEATER, B.S.C. (University of Birmingham & Anglian Water Services Ltd.) - Internal phosphorus loading of a reservoir and the development of a cyanobacterial bloom.

9.20 : HEATH, C.R., CALLOW, M.E. & LEADBEATER, B.S.C. (University of Birmingham) - Control of calcification in algal biofilms.

9.40 : JONES, H.L.J., LEADBEATER, B.S.C. & GREEN, J.C. (University of Birmingham & Plymouth Marine Laboratory) - Mixotrophy in *Chrysochromulina brevifilum* (Prymnesiophyceae).

10.00 : ENGLEDDOW, H.R., BOLTON, J.J. & STEGENGA, H. (University of Cape Town, South Africa) - Biogeographical patterns of the Namibian Seaweed Flora.

10.20 : HITCHINGS, B.R., FERRY, B.W. & FORD, T.W. (Royal Holloway College, London) - Community analysis of phytoplankton populations in water bodies at Dungeness, Kent, in relation to salinity changes.

Session B - Algae in flowing waters

9.00 : KELLY, M.G. & WHITTON, B.A. (University of Durham) - Factors controlling algal distribution in streams and rivers.

9.20 : VIS, M.L., SHEATH, R.G. & COLE, K.M. (Memorial University of Newfoundland & University of British Columbia, Canada) - Stream macroalgae of the Hawaiian island: a preliminary study.

9.40 : HURD, C.L., HARRISON, P.J. & DRUEHL, L.D. (University of British Columbia & Bamfield Marine Station, Canada) The effect of current speed on nutrient uptake by morphologically distinct species and forms of kelp.

10.00 : RAVEN, J.A. (University of Dundee) - Interactions between unidirectional and tidal water movements and benthic algae.

10.40 : Coffee

Session A - Manton Prize presentations

11.00 : SANTILLO, D. & THAKE, B. (Queen Mary & Westfield College, London) - Comparative chemostat studies with marine *Synechococcus* sp. (DC-2) and *Pavlova lutheri*.

11.20 : CRAGGS, R.J. (University of St. Andrews) - Screening of marine microalgae for nutrient removal from primary treated sewage effluent.

Session B - General

11.00 : GARNHAM, G.W., CODD, G.A. & GADD, G.M. (University of Dundee) - Accumulation of technetium by microalgae and cyanobacteria.

11.20 : FLYNN, K.J., DAVIDSON, K. & CUNNINGHAM, A. (University of Wales Swansea & University of Strathclyde) - Cannibalism and indigestion in the protist *Oxyrrhis marina*.

11.50 : Presidential address

WHITTON, B.A. (University of Durham) - The diversity of cyanobacteria.

12.50 : Lunch

Session A - Biom mineralization

14.00 : RAVEN, J.A. (University of Dundee) - Sensory perception and mineralisation in algae.

14.20 : LEADBEATER, B.S.C. & ECCLESTON, J.D. (University of Birmingham) - Soluble reactive silicate requirements of silica depositing flagellates.

14.40 : ANDERSON, N.J. (Danish Geological Survey) - Closing the gap: biogenic silica retention in lake sediments.

15.00 : MANN, D.G. (Royal Botanic Garden, Edinburgh) - What do we know about pattern formation in diatoms?

Session B - Red algal taxonomy / Biochemistry

14.00 : MAGGS, C.A. & WARD, B.A. (Queen's University, Belfast) - Systematics and origins of introduced red algae in the British Isles.

14.20 : SHEATH, R.G., VIS, M.L., WHITTICK, A. & COLE, K.M. (Memorial University of Newfoundland & University of British Columbia, Canada) - *Rhododrapanaldia oregonia* (gen. nov., sp. nov.), a new freshwater rhodophyte from Oregon (USA).

14.40 : WILLIAMS, D.M. (The Natural History Museum, London) - The perizonium of *Fragilariformis virescens*: missing elements or missing data?

15.00 : MARIN, B., MATZKE, C. & MELKONIAN, M. (University of Cologne, Germany) - Ultrastructure and variation of flagellar hairs of *Tetraselmis* (Prasinophyceae, Chlorophyta).

15.20 : Tea

Session A - Biom mineralization

15.40 : YOUNG, J.R. (The Natural History Museum, London) - Coccolith biomineralization - adding a taxonomic perspective.

16.00 : RAVEN, J.A. (University of Dundee) - Calcification and inorganic carbon assimilation by algae.

Session B - Macroalgae

15.40 : BIRKETT, D.A. & DRING, M.J. (Queen's University, Belfast) - Longitudinal distribution of phosphate uptake rates along the blade of *Laminaria saccharina*.

16.00 : CONNOLLY, D.J. & McLEAN, R.O. (University of Paisley) - Optimising conditions for callus and suspension culture in *Laminaria* sp.

16.20 : JAYASURIYA, P.M.A. & KAIN, J.M. (National Aquatic Resources Agency, Colombo, Sri Lanka & Port Erin Marine Laboratory) - Experimental culture of *Gracilaria edulis* in a coastal lagoon in Sri Lanka.

17.00 : British Phycological Society AGM

19.30 for 20.00 : British Phycological Society Dinner.

7th January 1993

Session A - Molecular biology

9.00 : BHODAY, R., RUSSELL, S.J., JOHNSON, L.R., GACESA, P. & JOHN, D.M. (The Natural History Museum, London & University of Wales, Cardiff) - Morphological and molecular species concepts: their degree of congruence in some algae traditionally placed in the Chaetophorales (Chlorophyta).

- 9.20 : MEDLIN, L., BAUMANN, M. & RUTTKOWSKI, T. (Alfred Wegener Institute, Bremerhaven, Germany) - Genetic differentiation between *Phaeocystis globosa* and a *Phaeocystis* species isolated from the Weddell Sea.
- 9.40 : CONTE, M.H., THOMPSON, T., EGLINTON, G., GREEN, J.C., MANTOURA, R.F.C. & BARLOW, R.G. (University of Bristol & Plymouth Marine Laboratory) - Genetic variation in the synthesis of key lipid biomarkers and pigments by the coccolithophorid alga *Emiliana huxleyi* in the North Atlantic.
- 10.00 : BARKER, G.L.A., HAYES, P.K., MEDLIN, L.K. & GREEN, J.C. (University of Bristol, Alfred Wegener Institute, Bremerhaven & Plymouth Marine Laboratory) - Genetic diversity in *Emiliana huxleyi*.
- 10.20 : WARD, B.A. & MAGGS, C.A. (Queen's University, Belfast) - A comparison of plastid DNA restriction patterns in the "*Ceramium diaphanum* / *strictum* complex" (Rhodophyta) in the British Isles.

Session B - Physiology / Biochemistry

- 9.00 : WRIGHT, P.J., GREEN, J.R. & CALLOW, J.A. (University of Birmingham) - Induction of cell wall release from unfertilised eggs of *Fucus* by a sperm extract.
- 9.20 : McGEOWN, P.W. & DRING, M.J. (Queen's University, Belfast) - Quantum requirements and long term reciprocity for blue light-sensing in the brown alga *Scytosiphon lomentaria*.
- 9.40 : SCHMID, R. & DRING, M.J. (Queen's University, Belfast) - Photocontrol of light saturated photosynthesis and external pH in brown algae.
- 10.00 : MABERLEY, S.C. (Institute of Freshwater Ecology, Windermere) - Sources of inorganic carbon in photosynthesis by *Asterionella formosa*.
- 10.20 : RAVEN, J.A. (University of Dundee) - Metabolic implications of the low osmolarity of certain freshwater algae.

10.40 : Coffee

Session A - General

- 11.00 : ANDERSON, N.J. (Danish Geological Survey) - The use of diatom sediment assemblages to define pre-disturbance phosphorus conditions in lakes.
- 11.20 : ECCLESTON, J.D. & LEADBEATER, B.S.C. (University of Birmingham) - The regeneration of nutrients by heterotrophic nanoflagellates.
- 11.40 : JOSLIN, P.A., EATON, J.W., ZHENG, W. & HUNT, S.M. (Acer Environmental & University of Liverpool) - The occurrence of blooms of a skeletonless form of the silicoflagellate *Dictyocha speculum* in the Liverpool docks.
- 12.00 : HOOPER, R.G. & WHITTICK, A. (Memorial University of Newfoundland) - Effect of thermal effluent on seaweed communities in Newfoundland.
- 12.20 : BRODIE, J. (Bath College of Higher Education) - Population dynamics of *Chondrus crispus* (Rhodophyta) on a shore in Somerset, England.

Session B - Biochemistry

- 11.00 : IBELINGS, B.W. (University of Amsterdam & University of Bristol) - Inhibition of photosynthesis in *Microcystis* surface waterblooms.
- 11.20 : HAYES, P.K., WALSBY, A.E. & BOJE, R. (University of Bristol & Institut für Meereskunde, Kiel, Germany) - Gas-vacuolate cyanobacteria in the Baltic Sea.
- 11.40 : BUCHHOLZ, B., HAYES, P.K. & WALSBY, A.E. (University of Bristol) - The interaction between GvpA and GvpC in cyanobacterial gas vesicles.
- 12.00 : PAGE, R.S., GALLON, J.R., HIPKIN, C.R., EADY, R.R. & PAU, R.N. (University of Wales Swansea & AFRC-IPSR Brighton) - Molybdenum-independent nitrogenases in cyanobacteria.
- 12.20 : CALDWELL, S.B., McLEAN, R.O. & NICHOL, D.S.T. (University of Paisley) - Heavy metal shock proteins in filamentous green algae.

13.00 : Lunch

AGM

BRITISH PHYCOLOGICAL SOCIETY

41st ANNUAL GENERAL MEETING

1700 - 6th JANUARY

UNIVERSITY OF WALES, SWANSEA

ANNUAL GENERAL MEETING

AGENDA ON NEXT PAGE

British Phycological Society

41ST ANNUAL GENERAL MEETING

Chair: The President, Dr B.A. Whitton

17.00 - 6th January 1993
University of Wales Swansea.

AGENDA

1. Minutes of the 40th Annual General Meeting, held at Birmingham University on 8rd January 1992.
2. Matters arising from the Minutes.
3. Presidential report
4. Reports from Council:
 - (a) Report of the Hon. Secretary
 - (b) Report of the Hon. Treasurer and presentation of accounts for 1992.
 - (c) Report of the Hon. Editor of the British Phycological Journal.
 - (d) Report of the Membership Secretary.
 - (e) Report of the Marine Algal Flora Committee.
 - (f) Report of the Conservation Committee.
 - (g) Report of the Hon. Editor of the Newsletter.
5. Election of Members of Council for 1993.

Council has made the following nominations for Vice-Presidents:

Prof. J.A. Raven - (President elect)

Prof. M. Melkonian - Overseas Vice-President

Nominations have been received for the 3 vacancies for ordinary members:

Dr Martin Gibson

(Wallace Evans)

Dr Paul K. Hayes

(Bristol University)

Dr Andrew M. Johnston

(Dundee University)

Proposed: Dr B.A. Whitton

Seconded: Dr D.M. John

Proposed: Dr N.W. Kerby

Seconded: Prof. J.A. Raven

Proposed: Dr J.M. Lewis

Seconded: Dr N.W. Kerby

6. Constitution - ratification of proposed re-wording.

7. Freshwater flora (Dr B.A. Whitton).

8. Algal conservation issues.

9. Publicity

10. Nomination of honorary member.

11. Election of auditors for 1992.

12. Any other business.

Please notify the Hon. Secretary before 9.00 on the 6th Jan. of any items for consideration.

BRITISH PHYCOLOGICAL SOCIETY

Minutes of the 40th Annual General Meeting of the Society, held at Birmingham University at 16.00 on Tuesday 8th January 1992. The President, Dr B.A. Whitton, was in the chair, 50 members were present.

1. Apologies for absence were received from Prof. J.A. Raven.

2. Minutes of the 39th Annual General Meeting were approved and signed.
Proposer: Dr R.I. Jones, Seconder: Dr E.A. Haworth.

3. Matters arising: Future of the journal. The Hon. Editor presented a resumé of last year's meeting on the future of the journal in an increasingly competitive world and an account of subsequent action. As the suggestion that the British Phycological Journal be relaunched as the European Journal of Phycology, with a new editorial structure and format had been accepted at last year's AGM, various publishers had been approached to give tenders before the summer Council meeting. Of those received only one, from Cambridge University Press, offered a significant advantage over the current publishers (Academic Press). The Hon. Treasurer and Hon. Editor had a fuller discussion with CUP and were favourably impressed. AP presented a revised proposal after being informed of the CUP tender, but the Hon. Editor did not consider AP's response adequate and had recommended to Council in the summer that publication of the revised journal be with CUP, subject to a suitable contract being agreed.

The journal would have an Editor in Chief, 8 Associate Editors responsible for particular fields, who would share the work of handling manuscripts. Members of an expanded editorial board would be nominated by the associate editors. The journal profile would be raised; it should become a focus for phycology in Europe, but would still be a fully international journal, available at reduced rates to members of the society. There was no question of control passing from BPS to a European Federation until the latter had the competence and stability to contribute to its running.

There was an extended discussion on a number of issues including: the appropriateness of the epithet European in a journal produced by a British society; the nationality of the Editor in Chief; whether associate editors should be encouraged to publish in the journal; nationality of the associate editors. A native English speaker would be preferred as Editor in Chief; the Hon. Editor would prefer a British editor. Associate editors should not be barred from publishing in the journal, but would not receive preferential treatment. It was pointed out that the Journal of Phycology publishes many non-US papers, but that the associate members must be PSA members. In connection with the proposed name, some suggested that European be dropped although others considered that this would encourage Europeans to publish; another asked whether those in favour were simply remaining silent. The question whether the change of name was a decision for members was raised. Dr D.M. John pointed out that, at the last AGM, Council had received authority to make this decision. A recommendation that support be given to Council on this matter was passed on a show of hands.

In response to a query on payment of associate editors the Hon. Editor replied that no payment had been promised. Associate editors would however receive a free copy of the journal.

4. Reports from Council:

a. Hon. Secretary. This year's meeting attracted 63 oral and 19 poster contributions, exceeding the previous record. As a result there were 2½ days of parallel sessions. For the first time a more applied session on Algae & Water Quality had been organised with invitations being issued to Water Authorities, NRA and industry. As a result 90 non-members and 118

members registered for the meeting. Two special topics (Molecular & Cell Biology, Modern approaches to Algal Systematics) were also covered. The 2nd Founders' lecture was given by Dr P.A.Tyler, one of the current Vice-Presidents of the Society, which was a particular pleasure. An abstract booklet was produced for the meeting.

The Hon.Secretary expressed her thanks to several colleagues (in particular the Photographic and Reprographic Unit, Dept. of Animal & Plant Sciences, Sheffield), who helped with layout and presentation, and assisted with the folding and dispatch of circulars and programmes.

Dissatisfaction about the positioning of the posters and the fact papers were not of the same duration were expressed. Some of the practical difficulties were mentioned, but it was agreed that both issues would be considered for future meetings.

b. Hon.Treasurer. Thanks were expressed to Dr J.C.Green, Dr L.A.Terry and the auditors for their help as the Hon.Treasurer completed her first year of service. There had been problems with the banks but it was hoped that these were now resolved.

The financial statement for 1991 was presented. Subscriptions had been down but were now recovered. Profit from the Journal had increased to £5700. The Society is running at a loss of £2700 but this will be offset by the increase in membership dues. Contributions to income came from Drs Edyvean (advertising income - Newsletter); Happey-Wood (surplus from the Bangor Winter Meeting); Kerby (industrial support) and those who contributed to the auction.

Interest rates remained fairly favourable so that there were reasonable earnings on capital. The bank inadvertently taxed the society on its interest, but this has since been recovered. Credit card service charges have been raised to 3% this year so it has become necessary to charge 60p extra to those members who choose to pay in this way.

Awards from the Scientific fund were more than doubled, although this did not meet demand. Extra income mentioned above met the additional cost.

The Scientific Meetings and Irene Manton funds will be accounted for separately; the latter will be used to fund a student prize.

Because of the change of amount and bank the Hon.Treasurer expressed concern about Banker's orders. Members were asked to check and if they had not done so, to change their orders immediately.

c. Hon.Editor of the Journal. Production of Volume 26 proceeded normally and appeared on time. The Abstracts from the last winter meeting appeared in the March issue although two were inadvertently omitted and appeared in June. It was not possible to correct any inaccuracies if errata were not to proliferate, but a tighter schedule has allowed proofs of the Abstracts to be available during the meeting so that authors can check their own proofs. Numbers of manuscripts submitted was comparable with the average of previous years. Rejection rate remains stable at about 25%. This is scarcely sufficient to sustain the journal in its present form, underlining the need for reassessment of the future of the journal.

The Hon.Editor expressed his appreciation of the time and effort given by referees during 1991.

In reply to a question concerning delay between receipt and publication, the Hon.Editor replied that the minimum time achieved between receipt and notifying the authors of acceptance was 2 weeks; time to appearance could be up to 3 months later, depending on the timing with respect to publication of the parts.

Dr D.G.Mann offered his congratulations to the Hon.Editor for the work he performed.

d. Membership Secretary. Progress is being made on the computerization of records although this is not yet complete. Prof.W.D.P.Stewart was made an Honorary Member of the Society by unanimous decision of Council. A summary of the membership was presented. Losses exceeded gains, so that the total

membership and active membership were both down on 1991 although there was a slight increase in new members. Banking associates are those whose bankers orders have not been up-dated and thus have not paid the full subscription. Numbers in arrears at 20th Sept. 1991 were higher but this may have been due to call for subscriptions for 1991 being inconspicuous within circulated information. Four new members have joined in advance for 1992.

The Membership Secretary was not 100% happy about the term associate member as this implies second-class status, which is not the case. It was recommended that this be changed to member not taking the journal. Full member becomes member taking the journal.

Members were encouraged to return the green membership forms as this information will go onto the database. Similarly any problems concerning receipt of the journal should be addressed to the Membership Secretary.

Dr J.M.Jones suggested that there was a place for members to offer to pay the subscription of phycologists of countries with "soft currencies", or for a fund to be established for this purpose.

e. Marine Algal Flora Committee. Progress on the Flora was reported. The text for Vol.1 (Rhodophyta), Part 2b is under revision and editing; completion is planned for 1992. Dr C.A.Maggs expects copy of the text of Part 3a to be ready for the publishers by April 1992. Volume 2 (Chlorophyta) was published in September 1991.

Work is continuing on the other volumes and support is being sought for work on the final part of Vol.1, Vols 5,6 and 7. Thanks were expressed to both the NCC and BP for financial support.

Following a proposal from Dr B.A.Whitton consideration is being given to the production of a Freshwater Algal Flora.

f. Conservation Committee. Dr D.M.John reported that the committee had not met as no issues had been brought to their attention.

An issue arising from Plant Life is that a committee has been established to compile a lower plant Red Data Book, to include the Republic of Ireland. Sponsorship is also being sought to set up nature trails.

It is possible that the scheme to construct a road along the foreshore of Pegworth Bay may be revived. If a Public Inquiry is called a representative may be required to attend. Dr Tittley reported that a compromise has been reached on the proposed sea-wall at Birchington.

Any conservation issues should be transmitted to Dr S.Hiscock.

g. Hon.Editor of Newsletter. Issue 30 was the only one to appear in 1991. Henceforth 3 issues, in soft glossy covers, will be published per year. Absolute deadlines have been set: 31 Jan., 31 May, 30 Sept.

The spring issue will include a summary on Council discussions by the President and reports of Council committees. The summer issue will contain general news and an early call for the Winter Meeting. The winter issue will contain the programme for the forthcoming Winter Meeting.

Beginning in 1993 Winter Meeting abstracts will be published in the Newsletter which has an ISSN number. 2 associate editors will be appointed. It was suggested (Dr D.G.Mann) that another name with a less ephemeral sound be sought. Dr R.I.Jones was in favour. It was also suggested that a distinction be made between sections containing serious articles and material of a chattier nature.

Thanks were expressed to all who had given time towards the running of the society, including the invaluable support of various institutions.

The adoption of the above reports was proposed by Dr C.M.Happey-Wood, seconded by Dr J.M.Jones and carried unanimously.

5. Election of Council for 1992. As five nominations had been received for the 3 vacancies for ordinary members of Council a postal ballot had been

held. The results were that Dr M.E.Callow, Dr D.G.Mann and Dr P.K.Robinson were elected.

It was noted that only a small proportion of the membership responded. Thanks were expressed to retiring members of Council, Dr A.E.Bailey-Watts, Dr N.W.Kerby and Dr C.A.Maggs.

5. Fund raising. Thanks were expressed to the Birmingham organisers for the money raised from industry.

Prizes: Council recommended that money from the interest on the Manton Bequest be used for a student prize, for the best paper presented at a Winter Meeting. The prize would be £75 plus a certificate. Prof.L.V.Evans would chair the committee to allocate this.

Any other suggestions on means of raising Society funds should be transmitted to Council.

6. Freshwater flora. Council have recommended that a Freshwater Flora committee be formed to initiate the production of a Freshwater Flora of the British Isles. The first priority would be a practical handbook with keys to identification, but basic taxonomic monographs and the production of wall charts, etc. would also fall within its remit. A 5 year target is envisaged for the handbook.

Dr L.K.Medlin pointed out that the Dutch have produced a database which can incorporate photographs and this could be of use.

7. Federation of Phycological Societies. Following a meeting in March 1991, Dr B.A.Whitton and Prof.T.A.Norton should have prepared a document for the AGM on the form of a Federation between European Phycological Societies, but this has not been achieved. There has also been a lack of feedback from Europe. A formal document with proposals for or against the formation of such a Federation will be presented to the AGM in 1993, circulated beforehand in the Newsletter.

8. Special activities. Dr J.A.Brodie announced that a field meeting in North Wales has been arranged for 17th-19th July 1992. This will be led by Dr Eifion Jones and will concentrate on seaweed identification. Costs will be kept to a minimum and members were encouraged to consider attending and to recommend it to others.

Suggestions for other activities were solicited.

9. Election of auditors for 1992. The auditors, Dr Anne Rumpus and Mr Brian Knights, have expressed their willingness to serve again.

Proposed: Dr J.M.Lewis. Seconded: Dr L.A.Terry.

10. Winter Meeting 1993. This will take place in Swansea, from 4th - 7th January. Dr K.J.Flynn has kindly agreed to act as local secretary. The meeting will include a broadly similar industrial day to that in Birmingham, but with the emphasis on marine systems

11. Any other business. It was suggested that the dates and times of arrival for Winter Meetings be considered in relation to the availability of Apex fares to encourage foreign members to attend.

The meeting ended at 18.25.

EUROPEAN JOURNAL OF PHYCOLOGY

Most readers will by now be aware that the December issue of the British Phycological Journal will be the last. From 1993 the BPJ will be replaced by the European Journal of Phycology, the first issue of which is scheduled for February 1993. This change is the culmination of lengthy discussions at (as well as in between) a number of Council meetings. Many differing views have been expressed, and some readers of the Phycologist may shed a quiet tear at the passing of the BPJ in its familiar red and grey livery. Nevertheless, promotion of a vibrant and forward looking scientific journal is a fundamental purpose of our society, as expressed in the constitution, and Council has decided that this purpose will be best served in the future by a change in the nature of the journal. The rationale for, and nature of the changes which are being instigated have been set out in an Editorial in the British Phycological Society (Volume 27 (2): 105, 1992), but briefly

the changes you will see are: a new title; a redesigned format and style for both contents and cover, with an increase to A4 size to allow improved layout of papers and illustrations; and an expanded editorial structure. Council has also established a small Journal Management Committee to oversee the broader policy issues relating to the journal.

The new editorial structure has been established in order to involve a wider range of expertise in the running of the journal and to relieve the burden of work which currently falls on the editor. An Editor-in-Chief will retain overall editorial control, but will be assisted by eight Associate Editors, each responsible for a particular subject area. A wider Editorial Board will assist the Associate Editors in the evaluation of submitted manuscripts. The initial editorial composition for the journal is shown below.

European Journal of Phycology - Initial Editorial composition

Editor in Chief:

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Dr N.M. Price (Montreal, Canada)

Dr G. Samuelsson (Umeå, Sweden)

Prof. N.A. Walker (Sydney, Australia)

Dr C. Wilhelm (Mainz, Germany)

Cell Biology

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Prof. G.B. Bouck (Chicago, U.S.A.)

Dr D. Menzel (Ladenburg, Germany)

Prof. J. Pickett-Heaps (Melbourne, Australia)

Dr S. Waffenschmidt (Köln, Germany)

Molecular Biology

Dr S. Douglas (Halifax, Canada)

Prof. L. Druehl (Bamfield, Canada)

Dr P. Gacesa (Cardiff, U.K.)

Dr L.K. Medlin (Bremerhaven, Germany)

Prof. P. Sitte (Freiburg, Germany)

Macroalgal systematics

Dr C. J. Bird (Halifax, Canada)

Dr R.L. Fletcher (Portsmouth, U.K.)

Dr C. A. Maggs (Belfast, U.K.)

Dr H. Nozaki (Ibaraki, Japan)

Microalgal systematics

Dr J. Kombrék (Třebon, Czechoslovakia)

Dr O. Moestrup (Copenhagen, Denmark)

Dr C.J. O'Kelly (Palmerston North, New Zealand)

Dr D.M. Williams (London, U.K.)

Dr A. Sournia (Roscoff, France)

Applied phycology and biotechnology

Dr H. Fallowfield (Auchincruive, U.K.)

Dr N.W. Kerby (Dundee, U.K.)

Dr L. Stal (Amsterdam, The Netherlands)

Dr A. Vonshak (Negev, Israel)

The European Journal of Phycology will be an international journal with a world-wide circulation and publishing top quality papers on all aspects of phycology from every continent. However, the intention is that the journal will provide a new focus for the activities of European phycologists at a time when the prospects for closer scientific collaboration throughout the whole of Europe are improving rapidly. To this end, the journal will provide space for publicising the phycological activities in Europe and especially news of European phycological societies or equivalent

groups. Discussions have been taking place about the formation of a Federation of European Phycological Societies which could co-ordinate and promote phycology within Europe, and the new journal will be available as an outlet for information about this Federation.

Papers dealing with any aspect of phycology are welcomed for consideration for publication in the European Journal of Phycology. Authors intending to submit a paper should read the following brief guidelines:

European Journal of Phycology - Instructions to Authors

The European Journal of Phycology is an international journal which publishes papers on all aspects of the ecology, physiology, biochemistry, cell biology, molecular biology and systematics of algae (including cyanobacteria). Papers dealing with applied aspects of phycology are equally welcome. All manuscripts will be subject to multiple peer review before publication. The criterion for publication is the scientific merit of the submitted material. Purely descriptive papers and preliminary notes will not be accepted. Submitted manuscripts may not have been accepted for publication or be under consideration elsewhere. It is the responsibility of authors to ensure that nothing in a submitted manuscript would be in breach of any copyright agreement.

MANUSCRIPTS may be submitted in the form of RESEARCH REPORTS or MINIVIEWS, and should be submitted in triplicate to the appropriate Associate Editor (names and addresses inside front cover). Articles exceeding 16 journal pages may incur page charges for the excess pages. Manuscripts should be typewritten using double spacing throughout (including references, tables and legends) with wide margins, on one side of A4 or quarto paper. All pages should be numbered serially, with the first page a title page, the second an abstract and the main text

commencing on page three. Do not justify right margins or use boldface for headings. Indicate italics by underlining. Species names should be underlined and should be followed by the authority when first used, unless a large number of names with authorities are grouped in a table. SI (metric) units must be used.

MINIVIEWS are short articles presenting the author's viewpoint on important recent developments in phycology. Such articles may take the form of a small review of recent progress in a particular field of research, but may also be a short resume, with critical interpretation, of an important article which has recently been published in the European Journal of Phycology or elsewhere. Potential contributors of miniviews are invited to consult the appropriate Associate Editor before preparing a submission.

RESEARCH REPORTS should be prepared according to the following format:

The Title Page includes the concise title, the name(s) and address(es) of the authors and a short running title suitable for page headings. Authorities for species names should not be included in the Title. It will be assumed that correspondence and requests for reprints should

be addressed to the first author unless otherwise indicated by means of a footnote.

The Abstract of not more than 300 words should be concise, informative and intelligible without reference to the main text. It should indicate both the main results and the main conclusions of the paper. Authorities for species names should not be included in the Abstract. Immediately following the abstract, a list of up to six keywords should be provided.

The Text should normally be subdivided into six sections: Introduction, Materials and Methods, Results (or Observations), Discussion, Acknowledgements and References, although this may not be appropriate for some articles (such as reviews and some taxonomic papers).

References in the text are cited by author and publication date. Multiple references should be arranged chronologically. For three or more authors use et al. In the list at the end of the paper, references should be typed double spaced in alphabetical order. Journal names and titles of books should be underlined for italics. Abbreviations of journal names should follow the World List of Scientific Periodicals or the selection Abbreviated Titles of Biological Journals issued by the Biological Council. References should appear in the following style:

PIPES, L. D., LEEDALE, G. F. & TYLER, P. A. (1991). Ultrastructure of *Tessellaria volvocina* (Synurophyceae). Br. phycol. J., 26: 259-278.

BOLD, H. C. & WYNNE, M. J. (1985). Introduction to the Algae, 2nd edition. Prentice-Hall, New Jersey.

SHEATH, R. G. & HAMBROOK, J. A. (1990). Freshwater ecology. In Biology of the Red Algae (Cole, K. M. & Sheath, R. G., editors), 423-453. Cambridge University Press, Cambridge.

Tables should be numbered in arabic numerals and each should carry a descriptive title above. Each table should be typed, double-spaced throughout, on a separate sheet. Tables should not include vertical lines.

Figures, whether line drawings or photographs, should be numbered consecutively in arabic numerals and referred to in the text thus: (Fig. 1), (Figs 2, 3), (Figs 1-4) etc. Legends for figures must be typed double-spaced in paragraph form together on a separate page. Each legend should

provide enough information for interpretation of the figure, and all abbreviations used on figures must be explained in the figure legends. Line drawings and diagrams should be on stiff white paper or stout tracing paper, large enough and with all lines, symbols and lettering bold enough to permit 1/2 to 2/3 reduction in size. Figures should be planned so that after reduction they will fit one column (8 cm) or two columns (17 cm) in width, and no more than 25 cm in length. Figures may either be lettered by the author or this may be left to the printer, in which case lettering etc should be marked lightly on the drawing with blue pencil or marked on a transparent overlay. Computer generated figures are generally not acceptable unless laser printed. A measured scale mark should be included on each drawing indicating magnification. Half-tone photographs will not be reduced or enlarged so should be printed to fit one column (8 cm) or two columns (17 cm) in width and no more than 20-22 cm in length so the legend will fit on the same page as the illustration. Photographs should be squared accurately and mounted on white card. Groups of photographs forming a single plate should be mounted with 2 mm spacing and the individual photographs should be of equal contrast to facilitate printing. A measured mark for scale determination must be included on each photograph; scale length may be indicated directly above the mark or in the legend. All numbers, letters, arrows and magnification scales on photographic plates must be inserted by the author using black or white Letraset. Copies of photographic plates intended for reviewers must be of photographic quality (not photocopies). Colour plates can be published at the author's expense, although in exceptional cases all or part of the cost may be covered by the journal.

Page proofs will be sent to the corresponding author directly from the printer, together with an offprint order form. After careful checking for any printer's errors or essential minor changes, the corrected proofs should be returned within three days to the Editor-in-Chief. Authors should pay particular attention to checking numerical material, tables and list of names, and to figure captions and markings. Excessive changes in proof, other than to printer's errors, may be charged to the author. Delay in returning the corrected proofs may result in the paper being held over to the following issue of the journal. Offprint order forms must be returned to the publisher at the address shown on the form. 50 offprints are provided free of charge.

Roger I. Jones

Editor-in-Chief

The Natural History Museum, London
University of Oxford, Department of Plant Sciences, Oxford
The Systematics Association

MODELS IN PHYLOGENY RECONSTRUCTION

Organisers:

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David M. Williams, Department of Botany, The Natural History Museum, Cromwell
 Road, London SW7 5BD, U.K.

Darrell J. Siebert, Department of Zoology, The Natural History Museum, Cromwell
 Road, London SW7 5BD, U.K.

An International Symposium to be held at the Natural History Museum, Cromwell
 Road, London, SW7 5BD, during August, 1993

In 1982 the Systematics Association published the proceedings of an international meeting on the topic of methods and problems in phylogenetic reconstruction. Since that meeting cladistic methodology has become almost universally accepted as the methods of choice for reconstructing the interrelationships between taxa. However, the assumptions underlying the method are still in dispute. Sets of assumptions (models) for phylogenetic inference have been developed by molecular systematists (at the level of the gene), by developmental biologists (at the level of ontogenetic transformations) and by evolutionary biologists (at the level of taxa).

This meeting will explore various models, and their relevance, to the construction of cladograms and what valid biological and evolutionary inferences can be made from cladograms.

The symposium should be of interest to all those involved in systematics and evolutionary biology.

If you wish to receive further information and registration details please contact **David M. Williams, Department of Botany, The Natural History Museum, Cromwell Road, London SW7 5BD, U.K.**

WHERE ARE YOUR OFFICERS

As usual we like to keep you informed of the contact addresses of office holders of the British Phycological Society. The main one you may need to contact are listed below. Please note the change of address of Dr. Cox and the new University name in Dr. Lewis' address.:

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REMEMBER

NEW COPY DEADLINES:

JANUARY 31

MAY 31

SEPTEMBER 30

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Tel:- 021 414 5579 Fax:- 021 414 5925

All articles, reports, notes etc. for THE PHYCOLOGIST, can be submitted on computer floppy disc and by electronic mail. Our publishing system is IBM compatible MS-DOS Microsoft word 5. Both 5.25 and 3.5 inch floppy discs can be handled and it is probable that most common word processing languages are acceptable, but please always include an ASCII file of your article on the disc as well. It would be best if the original is as simple as possible in layout (ie. avoid justification etc. This reduces the amount of editing. Electronic mail can be sent via the UK JANET network to the following address:

CHE6RGJE@UK.AC.LEEDS.UCS.CMS1

(CHE6RGJE@LEEDS.UCS.CMS1 if sending from within the UK)

Type, pen and ink, tablets of stone are still acceptable!!!

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