

SOUTH WEST CHARTERING

continuing to specialize in Polar Chartering
Over 40 years providing ice-strengthened ships for expeditions to the Arctic and
Antarctic — for charter — for purchase
Our service includes all other types of survey vessels



Contact: Polar Department, South West Chartering (UK) Limited, Suite Five, Lloyds Wharf, Mill Street, London SE5 2BA Tel 01 231 8565 Telex 886819 Fax 01 231 3712
Member of the Baltic Exchange

ANNOUNCEMENTS

POLAR RECORD BACK NUMBERS 1931-87 (1-147) are available from Bluntisham Books, Oak House, East Street, Bluntisham PE17 3LS, UK, Tel (1487) 840 449. Prices: Pre-1982 (1-129) £2.50 each; 1982-85 (130-141) £5.00 each; 1986-87 (142-47) £10.00 each. Postage extra.

ADVERTISING IN *Polar Record*

Quarter page (118 x 81 mm) : £50.00 (US\$90.00)

Half page (240 x 81 mm or 118 x 165) : £70.00 (US\$130.00)

Whole page (240 mm x 165 mm): £100.00 (US\$180.00)

Flier (A4 or A5): £100.00 (US\$180.00)

Announcements: £2.00 per column line.

VAT of 15% is payable on all UK orders. Please send payment or an official order form with your order. There are negotiable discounts for running the same advertisement in three successive issues. We make up advertisements (from £20.00) and print fliers (from £50.00) by arrangement.

Contact the Editor, *Polar Record*,
Scott Polar Research Institute, Lensfield Road,
Cambridge CB2 1ER, UK.

ADVENTURE CRUISES TO ANTARCTICA

Join Mountain Travel on our new Norwegian adventure ship, the MV *Nordbrise*. Our inaugural season itineraries include two 17-day cruises to the Falkland Islands on November 25 and March 8, and seven cruises along the Antarctic Peninsula departing on December 9, December 25, January 4, January 17, January 29, February 10 and February 22. Come enjoy the exotic wildlife, tumbling glaciers, and the rare opportunity to set foot on the "Last Continent".

Please contact:

Mountain Travel

6420 Fairmount Avenue, Dept. 175

EI Cerrito, CA 94530 USA

Phone: (415) 527-8100, ext. 175

FAX: (415) 525-7710

Each departure is limited to just 39 passengers, so make your reservations early!

Arctic

The Quarterly Journal of the Arctic Institute
of North America
of the University of Calgary

The journal Arctic

- A treasured high-quality academic journal covering all disciplines and technologies; published continually for 42 years
- All issues offer primary northern research, along with provocative editorials, reviews and profiles

An indispensable aid to northern research

Arctic should be on the desk of every northern scholar for state-of-the-art Arctic information

Available by direct subscription, along with *Information North* monthly and *What's New*, or through membership in the Arctic Institute
2500 University Drive NW
Calgary, Alberta, Canada T2N 1N4

Recent Polar and Glaciological Literature

* has the largest circulation of any bibliography devoted to polar subjects

* provides wide, *annotated* coverage of books, papers, reports and reviews on all aspects of polar life and science, both Arctic and Antarctic

* can be mailed to you directly three times per year from the Scott Polar Research Institute, Lensfield Road, Cambridge CB2 1ER

Annual subscription £15.00

SCOTT POLAR RESEARCH INSTITUTE UNIVERSITY OF CAMBRIDGE Opportunities in Graduate Studies

M.Phil in Polar Studies

A one-year post-graduate course leading to the degree of Master of Philosophy, providing a broad background of polar knowledge and opportunity to study one topic in depth. Some 60 seminars cover the natural environment, peoples, history, resources, development and administration of the Arctic and Antarctic regions.

Ph.D and M.Sc studies

Courses leading to Ph.D and M.Sc are available. Many programmes relate to current research areas within the Institute. Options include glaciology, polar oceanography, marine biology, geophysics, remote sensing, history, anthropology, native rights and northern affairs.

Visiting scholars

The Institute provides facilities for advanced scholars wishing to pursue their own courses of study and research for periods of between a few weeks and one year.

Facilities

The Institute's research facilities include the world's finest polar library, outstanding archival collections and specialized laboratories, including two cold rooms (-40°C).

Cambridge University

The University now accommodates some 12,000 undergraduate and graduate students and has a long tradition of excellence in teaching and research.

**FOR FURTHER PARTICULARS APPLY TO: THE DIRECTOR, SCOTT POLAR
RESEARCH INSTITUTE, UNIVERSITY OF CAMBRIDGE
CAMBRIDGE CB2 1ER UK**

Cambridge

Geological Maps

Their Solution and Interpretation

T. BOLTON

This illustrated textbook will aid all earth science students in geological map interpretation. It makes frequent reference to actual examples on which many of the problem maps are based. The text includes exercises on borehole interpretation and extensive worked solutions are given, making this an invaluable resource for teachers, lecturers and students.

£25.00 net Hc 0 521 36158 3 151 pp. 1989

£10.95 net Pb 0 521 36705 0

Living Ice

Understanding Glaciers and Glaciation

ROBERT P. SHARP

Glaciers are complex, dynamical systems, sensitive to their surroundings and constantly changing shape and form. Robert Sharp explains the activity and effects of glaciers in non-technical language combining interesting facts with anecdotes and stunning illustrations.

£15.00 net 0 521 33009 2 235 pp. 1989

The Elements of Palaeontology

Second Edition

RHONA M. BLACK

This thoroughly revised and updated textbook combines the beginners approach of the first edition with a depth and breadth of coverage ideal for those wishing to delve further. New features include trace fossils, microfossils, pollens and electron micrograph illustrations.

'... a beautifully illustrated palaeontological textbook...' *Nature*

£27.50 net Hc 0 521 34346 1 415 pp. 1989

£12.95 net Pb 0 521 34836 6

Now in paperback

The Beginning of the Age of Dinosaurs

Faunal Change Across the Triassic-Jurassic Boundary

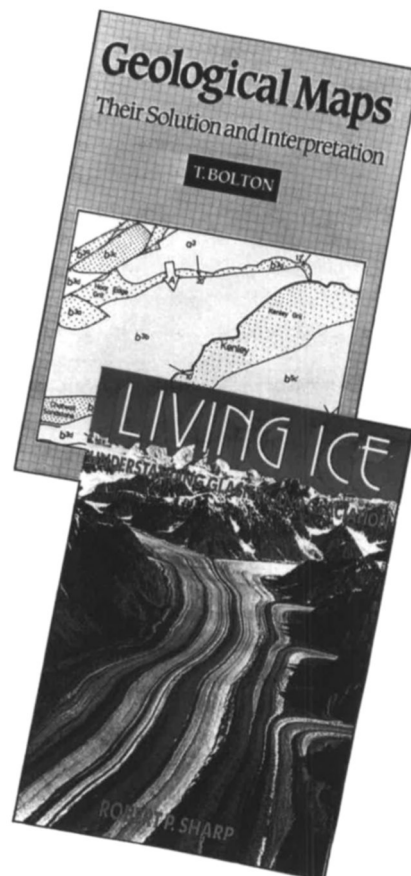
KEVIN PADIAN

Specialists examine the fauna, flora, climate, stratigraphic relationships and evolutionary changes of the time which saw dinosaurs develop and dominate the world.

'... valuable to anyone interested in large-scale evolutionary problems. The debates (on the success of dinosaurs) will continue, but this volume provides a new benchmark from which they can proceed.'

Journal of Geology

£22.50 net Pb 0 521 36779 4 390 pp. 1989



For further information please write to Jacqueline Arthurs at the address below



Cambridge
University Press

The Edinburgh Building, Cambridge CB2 2RU

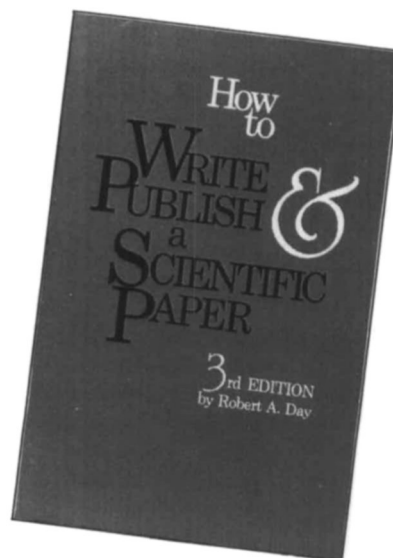
How to Write and Publish a Scientific Paper

Third Edition

ROBERT A. DAY

Save time and improve the appearance and accuracy of your work with this new edition of the definitive 'how-to' book.

- easy to use, tried and tested format
- designed specifically for use by the scientist
- up-to-date information on electronic manuscripts and new computer techniques
- covers all forms of publishing from journal articles to complete books



No scientific research is complete until the results have been written-up and presented, and yet scientists are frequently criticised for their inability to write clear and concise English. This new edition of *How to Write and Publish a Scientific Paper* contains advice, hints and guidelines for all stages of writing, from the selection of a title to dealing with editors. It includes practical advice on grammar, proof reading, tables and illustrations and a list of commonly used and misused abbreviations, expressions and terms. Extra chapters have been added to examine the preparation of electronic manuscripts, poster sessions and desk-top publishing.

Contents: 1 What is scientific writing?; 2 Origins of scientific writing; 3 What is a scientific paper; 4 How to prepare the title; 5 How to list the authors and addresses; 6 How to prepare the abstract; 7 How to write the introduction; 8 How to write the materials and methods section; 9 How to write the results; 10 How to write the discussion; 11 How to state the acknowledgements; 12 How to cite the references; 13 How to design effective tables; 14 How to prepare effective illustrations; 15 How to keyboard the manuscript; 16 Where and how to submit the manuscript; 17 The review process (How to deal with editors); 18 The publishing process (How to deal with proofs); 19 How to order and use reprints; 20 How to write a review paper; 21 How to write a conference report; 22 How to write a book review; 23 How to write a thesis; 24 How to present a paper orally; 25 How to prepare a poster; 26 Ethics, rights and permissions; 27 Use and misuse of English; 28 Avoiding jargon; 29 How and when to use abbreviations; 30 A personalized summary; Appendices; References; Index.

£20.00 net Hc 0 521 36572 4
£7.95 net Pb 0 521 36760 3
244 pp. 228 x 152 mm 1989

With sales of the first and second editions topping 100,000 copies this new edition is bound to become a standard reference for all scientists

For further information on this, and other C.U.P. science titles, please write to Jacqueline Arthurs at the address below.



Cambridge
University Press

The Edinburgh Building, Cambridge CB2 2RU

postage. POSTMASTER: send address changes in the USA and Canada to *Polar Record*, Cambridge University Press, 110 Midland Avenue, Port Chester, New York, NY 10573.

Claims for missing issues can be considered only if made immediately after receipt of the subsequent issue.

Back issues

For vols 1-23 inclusive apply to Bluntisham Books, Oak House, East Street, Bluntisham, Huntingdon, PE17 3LS, UK. For vols 24 onward apply to Cambridge University Press, UK or USA.

Advertising

Prices appear in the advertisements section; for details apply to the Editor or to the publishers.

Advice to contributors

Polar Record publishes original articles (2000 to 8000 words) and notes (usually less than 2000 words) of current and historic polar interest. Manuscripts, maps and photographs are accepted on the understanding that they are original, do not infringe copyright, and are not currently being offered elsewhere. Receipt is acknowledged; manuscripts are submitted to referees and any rejected will normally be returned to the author within six to eight weeks. Where the subject matter is appropriate, the Editor is usually prepared to advise authors on ways of making their material acceptable.

Presentation

Typescripts should be double-spaced with 3 cm margins, on one side only of A4 or similar paper. Send two copies and keep one for reference. Give name, affiliation and address of each author on the title page, noting which author the Editor corresponds with. Follow the style of articles and notes in the most recent issue of *Polar Record*.

Articles should start with an abstract of 150-250 words and a table of major headings; secondary and tertiary headings are not listed. Indicate in margins where tables and illustrations fit. Footnotes are discouraged; places where they are considered essential are marked in text with a superscript number, and the footnotes are listed at the end before the References.

Notes are short articles, generally of less than 2000 words. They do not require an abstract or table of headings, but either the first or the final paragraph should summarize the content.

References (essential ones only, please) are cited in text; full references appear in the listing under References at the end; for forms of citations and references see the most recent issue of *Polar Record*. *Authors alone are responsible for the accuracy of their references*. References to privately printed or other unpublished reports and data are not accepted unless copies of the material are freely available from a named library or similar repository. *Tables* should be kept as simple as possible and typed on separate sheets. They will normally be fitted across the single- or double-column page, only exceptionally lengthwise.

Illustrations. Drawings, maps and diagrams must be of professional standard, with lettering and numbers pencilled in clearly. Authors may be charged for re-drawing if an illustration is inadequate. They should if possible allow for about one-third reduction in width to fit a column (7.8 cm) or page (16.4 cm). Photographs (black and white only) that add substantially to the material are welcome. Glossy prints with high contrast, about one-third oversize, generally reproduce well.

Contributions on disc

The Editor welcomes contributions on floppy discs. The most suitable format is Apple Macintosh 3.5" disc. Output from a wide variety of word processing packages can be accepted, but in case of doubt, a MacWrite-compatible document should be produced. Diagrams also can be transferred on Macintosh discs. Discs from other microcomputers may be acceptable if the text is in the form of an ASCII file, with no word processing codes. TAB characters are acceptable. Currently, *Polar Record* can accept discs from Acorn BBC and Torch microcomputers, Amstrad PCW series microcomputers and, less readily, IBM PC compatible machines (5.25" discs only). If in doubt, please consult the Editor.

ISSN 0032-2474

POLAR RECORD

VOLUME 25 NUMBER 154 JULY 1989

CONTENTS

ARTICLES

The demise of elephant sealing at South Georgia, 1960–68. A. B. Dickinson p 185

J.-B. Charcot; father of French polar research. J. Malaurie p 191

Sovereignty, tribal government, and the Alaska Native Claims Settlement Act Amendments of 1987. T. A. Morehouse p 197

North Greenland ice islands. A. K. Higgins p 207

Reindeer herders of northern Yakutia: a report from the field. P. Vitebsky p 213

Across the ice curtain: Alaska-Siberia visits, 1988. J. F. Sheldon p 219

Driftwood on Heard Island. J. M. B. Smith, P. Rudall and P. L. Keage p 223

Particulate organic matter in shelf waters of Prinsesse Astrid Kyst, Antarctica. V. K. Dhargalkar and N. B. Bhosle p 229

Country food consumption during the Norman Wells Project, 1982–85. R. M. Bone p 235

Polar winters; chronic deprivation or transient hibernation? A. J. W. Taylor p 239

NOTES

The Northern Sea Route, 1988. T. E. Armstrong p 247

Fortieth annual meeting of the International Whaling Commission, May-June 1988. G. P. Donovan p 249

Measuring meltwater patterns around icebergs. J. F. Hirst p 252

Non-government aircraft in the Antarctic 1988/89. Charles Swithinbank p 254

First symposium on scrimshaw. J. West p 255

The wreck and salvage of SS *Telefon*. G. Hattersley-Smith p 255

REVIEWS

Russian exploration in southwest Alaska: the travel journals of Petr Korsakovskiy (1818) and Ivan Ya. Vasilev (1829). J. W. Vanstone (editor). *Terence Armstrong* p 256. The noose of laurels: the discovery of the North Pole. W. Herbert. *H. G. R. King* p 256. The journal of Rochfort Maguire 1852–54. John Bockstoce (editor). *W. Gilles Ross* p 256. To the Arctic: an introduction to the far northern world. Steven B. Young. *W. Gilles Ross* p 257. The northern forest border in Canada and Alaska: biotic communities and ecological relationships. J. L. Larsen. *B. Stonehouse* p 258. Biology of polar bryophytes and lichens. R. E. Longton. *B. Stonehouse* p 258. The social implications of agrarian change in northern and eastern Finland. T. Ingold (editor). *I. Whitaker* p 259. Brief reviews p 259

IN BRIEF

Link with Herbert Ponting: Alaskan tanker disaster; *Swedish Polar News*; European Science Foundation network on polar science; Earthquake near Macquarie Island; Posthumous honour for Arctic educator; Australia rejects CRAMRA; RGS Founder's Medal for polar scientist; p 260

OBITUARY

W. Campbell Smith; James Inglis Moore; Prof Nikolaas Tinbergen; p 261

SCAR BULLETIN No 94

Final Act of the Fourth Special Antarctic Treaty Consultative Meeting on Antarctic Mineral Resources p 263

Convention on the Regulation of Antarctic Mineral Resource Activities p 264

CAMBRIDGE UNIVERSITY PRESS

Published by the Press Syndicate of the University of Cambridge
The Pitt Building, Trumpington Street, Cambridge CB2 1RP UK
27 East 57th Street, New York NY 10022 USA
10 Stamford Road, Oakleigh, Melbourne 3166 Australia

Printed in Great Britain at the University Press, Cambridge.