# **Noticeboard**

# Diary

Further dates for your diary

International Conference on the Role of the Polar Regions in Global Change. Fairbanks, Alaska Details from: Gunter Weller, Geophysical Institute, University of Alaska, Fairbanks, Alaska 99775-0800, USA.   International Whaling Commission Science Meeting. Noorwijk, Netherlands. Details from: International Whaling Commission, The Red House, Histon, Cambridge CB4 4NP, UK.   Annual meeting of the Society for Cryobiology. Binghamton, New York, USA. Details from: J.G. Baust, Center for Cryobiological Research, State University of New York, Binghamton, New York 13901, USA.   Details from: Statleen L. Horwath, Center for Cryobiological Research, State University of New York, Binghamton, New York, USA. Details from: Kathleen L. Horwath, Center for Cryobiological Research, State University of New York, Pork, Work, USA. Seventh Quadrennial Symposium in Solar-Terrestrial Physics. The Hague, Netherlands. Details from: Prof. C.H. Liu, Secretary, SCOSTEP, Department of Electrical and Computer Engineering, University of Illinois, 1406 West Green Street, Urbana, Illinois 61801-2991, USA. XXVIII COSPAR Plenary Meeting. The Hague, The Netherlands. Secretary: COSPAR Secretariat, 51 Boulevard de Montmorency, 75016 Paris, France. Symposium on Antarctica and Global Climatic Change. Cambridge, UK. Convener: Simon Mark, UK/NZ Committee Office, First Floor, New Zealand House, The Haymarket, London SW1Y 4TQ, UK.    1-6 July   Geocongress '90, 23rd Earth Science Congress of the Geological Society of South Africa. Cape Town, South Africa. [Main theme: Geology and mineral resources of continental margins: ancient and modern.] Details from: International Whaling Commission, The Red House, Histon, Cambridge CB4 4NP, UK.    The Biogeochemistry and the Circulation of Water Masses in the Southern Ocean. Brest, France. Details from: Southern Ocean Symposium Organizing Committee, Université de Bretagne Occidentale, Institut d'Etudes Marines 6, Avenue Le Gorgeu, 29287 Brest Cédex, France. SCOPE 26th Open Executive Committee and Related Meetings.	10-14 June	13th Polar Libraries Colloquy. Man's Future in Arctic Areas. Rovaniemi, Finland. Details from: Liisa Kurppa, Arctic Centre, University of Lapland, PO Box 122, 96101 Rovaniemi, Finland.
International Whaling Commission Science Meeting. Noorwijk, Netherlands. Details from: International Whaling Commission, The Red House, Histon, Cambridge CB4 4NP, UK.   Annual meeting of the Society for Cryobiology. Binghamton, New York, USA. Details from: J.G. Baust, Center for Cryobiological Research, State University of New York, Binghamton, New York 13901, USA.   20–23 June	11-15 June	International Conference on the Role of the Polar Regions in Global Change. Fairbanks, Alaska. Details from: Gunter Weller, Geophysical Institute, University of Alaska, Fairbanks, Alaska
Annual meeting of the Society for Cryobiology. Binghamton, New York, USA. Details from: J.G. Baust, Center for Cryobiological Research, State University of New York, Binghamton, New York 13901, USA.  4th International Cold Hardiness Symposium. Binghamton, New York, USA. Details from: Kathleen L. Horwath, Center for Cryobiological Research, State University of New York, Binghamton, New York 13901, USA.  Seventh Quadrennial Symposium in Solar-Terrestrial Physics. The Hague, Netherlands. Details from: Prof. C.H. Liu, Secretary, SCOSTEP, Department of Electrical and Computer Engineering, University of Illinois, 1406 West Green Street, Urbana, Illinois 61801-2991, USA.  XXVIII COSPAR Plenary Meeting. The Hague, The Netherlands. Secretary: COSPAR Secretariat, 51 Boulevard de Montmorency, 75016 Paris, France.  Symposium on Antarctica and Global Climatic Change. Cambridge, UK. Convener: Simon Mark, UK/NZ Committee Office, First Floor, New Zealand House, The Haymarket, London SW1Y 4TQ, UK.  Geocongress '90, 23rd Earth Science Congress of the Geological Society of South Africa. Cape Town, South Africa. [Main theme: Geology and mineral resources of continental margins: ancient and modern.] Details from: The Congress Secretary, Geocongress '90, PO Box 1739, Bellville 7535, South Africa.  International Whaling Commission Plenary Session. Noorwijk, Netherlands. Details from: International Whaling Commission, The Red House, Histon, Cambridge CB4 4NP, UK.  The Biogeochemistry and the Circulation of Water Masses in the Southern Ocean.  Brest, France. Details from: Southern Ocean Symposium Organizing Committee, Université de Bretagne Occidentale, Institut d'Etudes Marines 6, Avenue Le Gorgeu, 29287 Brest Cédex, France.  SCOPE 26th Open Executive Committee and Related Meetings. Santiago, Chile Details from: SCOPE Secretariat, 51 Boulevard de Montmorency, 75016, Paris, France.	16-27 June	International Whaling Commission Science Meeting. Noorwijk, Netherlands.
Binghamton, New York 13901, USA.  4th International Cold Hardiness Symposium. Binghamton, New York, USA. Details from: Kathleen L. Horwath, Center for Cryobiological Research, State University of New York, Binghamton, New York 13901, USA.  Seventh Quadrennial Symposium in Solar-Terrestrial Physics. The Hague, Netherlands. Details from: Prof. C.H. Liu, Secretary, SCOSTEP, Department of Electrical and Computer Engineering, University of Illinois, 1406 West Green Street, Urbana, Illinois 61801-2991, USA.  XXVIII COSPAR Plenary Meeting. The Hague, The Netherlands. Secretary: COSPAR Secretariat, 51 Boulevard de Montmorency, 75016 Paris, France.  Symposium on Antarctica and Global Climatic Change. Cambridge, UK. Convener: Simon Mark, UK/NZ Committee Office, First Floor, New Zealand House, The Haymarket, London SW1Y 4TQ, UK.  Geocongress '90, 23rd Earth Science Congress of the Geological Society of South Africa. Cape Town, South Africa. [Main theme: Geology and mineral resources of continental margins: ancient and modern.] Details from: The Congress Secretary, Geocongress '90, PO Box 1739, Bellville 7535, South Africa. International Whaling Commission Plenary Session. Noorwijk, Netherlands. Details from: International Whaling Commission, The Red House, Histon, Cambridge CB4 4NP, UK. The Biogeochemistry and the Circulation of Water Masses in the Southern Ocean.  Brest, France. Details from: Southern Ocean Symposium Organizing Committee, Université de Bretagne Occidentale, Institut d'Etudes Marines 6, Avenue Le Gorgeu, 29287 Brest Cédex, France.  **SCOPE 26th Open Executive Committee and Related Meetings. Santiago, Chile Details from: SCOPE Secretariat, 51 Boulevard de Montmorency, 75016, Paris, France.	18-21 June	Annual meeting of the Society for Cryobiology. Binghamton, New York, USA.
20–23 June  4th International Cold Hardiness Symposium. Binghamton, New York, USA. Details from: Kathleen L. Horwath, Center for Cryobiological Research, State University of New York, Binghamton, New York 13901, USA.  Seventh Quadrennial Symposium in Solar-Terrestrial Physics. The Hague, Netherlands. Details from: Prof. C.H. Liu, Secretary, SCOSTEP, Department of Electrical and Computer Engineering, University of Illinois, 1406 West Green Street, Urbana, Illinois 61801-2991, USA.  XXVIII COSPAR Plenary Meeting. The Hague, The Netherlands. Secretary: COSPAR Secretariat, 51 Boulevard de Montmorency, 75016 Paris, France.  Symposium on Antarctica and Global Climatic Change. Cambridge, UK. Convener: Simon Mark, UK/NZ Committee Office, First Floor, New Zealand House, The Haymarket, London SW1Y 4TQ, UK.  Geocongress '90, 23rd Earth Science Congress of the Geological Society of South Africa. Cape Town, South Africa. [Main theme: Geology and mineral resources of continental margins: ancient and modern.] Details from: The Congress Secretary, Geocongress '90, PO Box 1739, Bellville 7535, South Africa.  International Whaling Commission Plenary Session. Noorwijk, Netherlands. Details from: International Whaling Commission, The Red House, Histon, Cambridge CB4 4NP, UK.  The Biogeochemistry and the Circulation of Water Masses in the Southern Ocean.  Brest, France. Details from: Southern Ocean Symposium Organizing Committee, Université de Bretagne Occidentale, Institut d'Etudes Marines 6, Avenue Le Gorgeu, 29287 Brest Cédex, France.  SCOPE 26th Open Executive Committee and Related Meetings. Santiago, Chile Details from: SCOPE Secretariat, 51 Boulevard de Montmorency, 75016, Paris, France.  XXI SCAR Meeting. São Paulo, Brazil.		
New York, Binghamton, New York 13901, USA.  Seventh Quadrennial Symposium in Solar-Terrestrial Physics. The Hague, Netherlands. Details from: Prof. C.H. Liu, Secretary, SCOSTEP, Department of Electrical and Computer Engineering, University of Illinois, 1406 West Green Street, Urbana, Illinois 61801-2991, USA.  XXVIII COSPAR Plenary Meeting. The Hague, The Netherlands. Secretary: COSPAR Secretariat, 51 Boulevard de Montmorency, 75016 Paris, France.  Symposium on Antarctica and Global Climatic Change. Cambridge, UK. Convener: Simon Mark, UK/NZ Committee Office, First Floor, New Zealand House, The Haymarket, London SW1Y 4TQ, UK.  Geocongress '90, 23rd Earth Science Congress of the Geological Society of South Africa. Cape Town, South Africa. [Main theme: Geology and mineral resources of continental margins: ancient and modern.] Details from: The Congress Secretary, Geocongress '90, PO Box 1739, Bellville 7535, South Africa.  International Whaling Commission Plenary Session. Noorwijk, Netherlands. Details from: International Whaling Commission, The Red House, Histon, Cambridge CB4 4NP, UK.  The Biogeochemistry and the Circulation of Water Masses in the Southern Ocean.  Brest, France. Details from: Southern Ocean Symposium Organizing Committee, Université de Bretagne Occidentale, Institut d'Etudes Marines 6, Avenue Le Gorgeu, 29287 Brest Cédex, France.  SCOPE 26th Open Executive Committee and Related Meetings. Santiago, Chile Details from: SCOPE Secretariat, 51 Boulevard de Montmorency, 75016, Paris, France.	20-23 June	4th International Cold Hardiness Symposium. Binghamton, New York, USA.
Seventh Quadrennial Symposium in Solar-Terrestrial Physics. The Hague, Netherlands. Details from: Prof. C.H. Liu, Secretary, SCOSTEP, Department of Electrical and Computer Engineering, University of Illinois, 1406 West Green Street, Urbana, Illinois 61801-2991, USA.  XXVIII COSPAR Plenary Meeting. The Hague, The Netherlands. Secretary: COSPAR Secretariat, 51 Boulevard de Montmorency, 75016 Paris, France.  Symposium on Antarctica and Global Climatic Change. Cambridge, UK. Convener: Simon Mark, UK/NZ Committee Office, First Floor, New Zealand House, The Haymarket, London SW1Y 4TQ, UK.  Geocongress '90, 23rd Earth Science Congress of the Geological Society of South Africa. Cape Town, South Africa. [Main theme: Geology and mineral resources of continental margins: ancient and modern.] Details from: The Congress Secretary, Geocongress '90, PO Box 1739, Bellville 7535, South Africa.  International Whaling Commission Plenary Session. Noorwijk, Netherlands. Details from: International Whaling Commission, The Red House, Histon, Cambridge CB4 4NP, UK.  The Biogeochemistry and the Circulation of Water Masses in the Southern Ocean.  Brest, France. Details from: Southern Ocean Symposium Organizing Committee, Université de Bretagne Occidentale, Institut d'Etudes Marines 6, Avenue Le Gorgeu, 29287 Brest Cédex, France.  SCOPE 26th Open Executive Committee and Related Meetings. Santiago, Chile Details from: SCOPE Secretariat, 51 Boulevard de Montmorency, 75016, Paris, France.  XXI SCAR Meeting. São Paulo, Brazil.		
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25 June-6 July  XXVIII COSPAR Plenary Meeting. The Hague, The Netherlands. Secretary: COSPAR Secretariat, 51 Boulevard de Montmorency, 75016 Paris, France.  Symposium on Antarctica and Global Climatic Change. Cambridge, UK. Convener: Simon Mark, UK/NZ Committee Office, First Floor, New Zealand House, The Haymarket, London SW1Y 4TQ, UK.  Geocongress '90, 23rd Earth Science Congress of the Geological Society of South Africa. Cape Town, South Africa. [Main theme: Geology and mineral resources of continental margins: ancient and modern.] Details from: The Congress Secretary, Geocongress '90, PO Box 1739, Bellville 7535, South Africa.  International Whaling Commission Plenary Session. Noorwijk, Netherlands. Details from: International Whaling Commission, The Red House, Histon, Cambridge CB4 4NP, UK.  The Biogeochemistry and the Circulation of Water Masses in the Southern Ocean. Brest, France. Details from: Southern Ocean Symposium Organizing Committee, Université de Bretagne Occidentale, Institut d'Etudes Marines 6, Avenue Le Gorgeu, 29287 Brest Cédex, France.  SCOPE 26th Open Executive Committee and Related Meetings. Santiago, Chile Details from: SCOPE Secretariat, 51 Boulevard de Montmorency, 75016 , Paris, France.  XXI SCAR Meeting. São Paulo, Brazil.		Details from: Prof. C.H. Liu, Secretary, SCOSTEP, Department of Electrical and Computer
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23–29 July SCOPE 26th Open Executive Committee and Related Meetings. Santiago, Chile Details from: SCOPE Secretariat, 51 Boulevard de Montmorency, 75016, Paris, France.  15–27 July XXI SCAR Meeting. São Paulo, Brazil.		
Details from: SCOPE Secretariat, 51 Boulevard de Montmorency, 75016, Paris, France.  15–27 July XXI SCAR Meeting. São Paulo, Brazil.	23 20 July	SCOPE 26th Open Executive Committee and Related Meetings Santiago Chile
15–27 July XXI SCAR Meeting. São Paulo, Brazil.	23-29 July	Details from: SCOPE Secretariat 51 Roulevard de Montmorency 75016. Paris, France.
•	15–27 July	
Unairman of focal organizing commuce: DT A.C. Kocha Campos.	10 2, 04.3	Chairman of local organizing committee: Dr A.C. Rocha Campos.
30 July- First Latin-American Conference on Antarctic Geophysics, Geodesy and Space Research.	30 July-	
4 August Buenos Aires, Argentina.	•	Buenos Aires, Argentina.
Co-ordinator: Dr Otto Schneider, Facultad de Ciencias Exactas y Naturales, Universidad de Buenos	-	
Aires, Casilla de Correo 1766, Buenos Aires, Argentina.		
14–16 August Polar Tech '90. Copenhagen, Denmark.	14-16 August	Polar Tech '90. Copenhagen, Denmark.
Details from: Conference Secretariat, Danish Hydraulic Institute, Agern Alle 5, DK-2970 Horsholm, Denmark.		

20-23 August	10th IAHR Symposium on Ice. Helsinki, Finland.
C	Details from: Mauri Maattanen, Helsinki University of Technology, Otakaari I, Sf02150, Espoo,
	Finland.
26-31 August	IAPSO and IGS Symposium on Ice-Ocean Dynamics and Mechanics. Hanover, USA.
	Details from: Secretary General, International Glaciological Society, Lensfield Road, Cambridge
	CB2 1ER, UK.
August	Third International Symposium on South Atlantic Evolution. Rio de Janeiro, Brazil.
, rugust	Symposium Co-ordinator: Dimas Dias-Brito, PETROBRAS/CENPES/DIVEX/SEBIPE, Cidade
	Universitária, Q. 7–1 Fundão, 21910 Rio de Janeiro, RJ, Brazil.
28 August-	XXIII URSI General Assembly. Prague, Czechoslovakia.
5 September	Convener: Dr P. Bauer, Service d'Aeronomie du CNRS, B.P. 3, 91371 Verrières le Buisson
3 September	Cédex, France.
3–8 September	
5-6 September	International Volcanological Congress. Johannes-Gutenberg-Universität, Mainz, Federal Republic of Germany.
	Secretary: Dr Gerhard Brey, Saarstrasse 23, D-6500 Mainz, Federal Republic of Germany.
5–11 September	Seventh International Symposium of the Commission on Atmospheric Chemistry and Global
3–11 September	Pollution (CACGP) 'Chemistry of the Global Atmosphere'. Chamrousse, France.
	Details from: Dr R.J. Delmas, Laboratoire de Glaciologie et Geophysique de l'Environement, B.P.
12 16 Contombour	96, 38402 St Martin d'Heres Cédex, France
12–16 September	Second International Dyke Conference. Adelaide, Australia.
10 20 Camtamahan	Details from: IDC-2, ACTS, GPO Box 2200, Canberra, ACT 2601, Australia
18–20 September	Second International Conference on Ice Technology. Cambridge, UK.
	Details from: Liz Newman, Conference Secretary, Computational Mechanics Institute, Ashurst
24 20 Camtamban	Lodge, Ashurst, Southampton SO4 2AA, UK.
24–28 September	Past and Present Climate Dynamics: Reconstruction of Rates of Change. Canton of Ticino,
	Switzerland.  Details from K. Kelta ProClim 00, Poetfook 7612, CH2001 Parn Switzerland
05 20 0	Details from: K. Kelts, ProClim90, Postfach 7613, CH3001 Bern, Switzerland.
25–30 September	International Symposium on Glaciers-Ocean-Atmosphere Interactions (ICSI). Leningrad, USSR.
	Details from: Prof. V.M. Kotlyakov, Institute of Geography, Academy of Sciences USSR,
NT1	Staromonetny per., 29, Moscow 109017, USSR.
	Special Antarctic Treaty Meeting. Santiago, Chile
To be anounced	Ecology of the Antarctic Sea Ice Zone. Norway.
	Co-conveners: E. Sakshaug, Trondjem Biological Station, The Museum, University of Trondheim,
	Bynesveien 46, N-7000 Trondheim, Norway and C. Sullivan, Department of Biological Sciences,
	University of Southern California, University Park, Los Angeles, California 90089-037, USA.
To be announced	Third Polar Diatom Colloquium. Ottawa, Canada.
	Organizer: Dr M. Poulin, National Museum of Canada, Botany Division, Ottawa K1A 0M8, Canada.
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1991	
25–30 June	Gondwana VIII. Hobart, Tasmania.
• • •	Convener: Dr R.H. Findlay, Department of Resources and Energy, Box 56, Tasmania 7018, Australia.
2–9 August	XIII INQUA Congress. Beijing, China.
	Details from: Secretariat, XIII INQUA Congress, Chinese Academy of Sciences, 52 Sanlike,
	Beijing 100864, China.
4–10 August	Fourth International Phycological Congress, Duke University. Durham. North Carolina.
	Details from: Congress Secretariat, Department of Botany, Duke University, USA 27706
11–24 August	XX IUGG General Assembly. Vienna, Austria.
	Details from: IUGG 91 Organizing Committee, c/o ZAMG, Hohe Warte 38, A-1190 Vienna, Austria.
1–6 September	Symposium on the Physics and Chemistry of Ice. Sapporo, Japan.
	Details from: Norikazu Maeno, Institute of Low Temperature Science, Hokkaido University,
	Sapporo 060, Japan.

9-13 September Sixth International Symposium on Antarctic Earth Sciences. Ranzan-Machi, Saitama, Japan.

Convener: Prof. Y. Yoshida, National Institute of Polar Research, Kaga 1-9-10,

Itabashi-ku, Tokyo 173, Japan.

18-21 September SCAR-SCOR BIOMASS Colloquium. Alfred-Wegener-Institut, Bremerhaven,

Federal Republic of Germany.

Contact: Mrs Dr S. Schiel, Alfred-Wegener-Institut für Polar- und Meeresforschung, Postfach

1201612, Columbusstraße, D-2850 Bremerhaven, Federal Repub.ic of Germany.

23–28 September SCAR Antarctic Science Conference. Bremen, Federal Republic of Germany.

Contact: Dr H. Kohnen, Alfred-Wegener-Institut für Polar- und Meeresforschung, Postfach

120161, Columbusstraße, D-2850 Bremerhaven, Federal Republic of Germany.

September Sixth International Symposium on Ground Freezing, Beijing, China.

Details from: Hans Jessberger, Ruhr-Universität Bochum, PO Box 102148, D-4630 Bochum 1,

Federal Republic of Germany.

30 September— Antarctic Challenge IV Conference. Bremen, Federal Republic of Germany.

2 October Details from: Prof. Dr R. Wolfrum, Institut für Internationales Recht, Olshausenstraße 40,

D-2300 Kiel 1, Federal Republic of Germany.

Contact: Dr K. Messer, Auswärtiges Amt (Foreign Affairs), AS 504, Postfach 11 48, D-5300 Bonn 1,

Federal Republic of Germany.

PLEASE NOTIFY US OF YOUR MEETINGS — DIARY ENTRIES ARE FREE

## **News**

#### Antarctic pilot killed

Giles Kershaw, Antarctic pilot with British Antarctic Survey, Adventure Network and Trans-Globe Expedition, killed in an aircraft accident on 5 March on the Antarctic Peninsula.

#### Full station for Ecuador

Ecuador already has the Refugio Republica del Ecuador at 62°07'15.7"S, 58°23'42"W in Admiralty Bay. It is intended to establish a full station this year on Ash Point, Greenwich Island (62°27"S, 59°41'36"W. The station will be called Pedro Vicente Maldonado.

### New station for Czechoslovakia

Czechoslovakia is to build a station on Rip Point, Nelson Island (62°15'S. 58°59'W) this year.

#### Joint expedition to Antarctica

Pakistan has announced that it will take part in a joint Antarctic expedition with the Soviet Union.

#### Convention on the Regulation of Antarctic Mineral Resource Activities

New Zealand has announced that, to break the current deadlock, it will not continue to press for immediate ratification of CRAMRA. Prime Minister Palmer has stressed that agreement on waste disposal and pollution is a more pressing necessity. He has suggested that the present voluntary moratorium on mining could be made legally binding and long-term.

### New tourist ships

Two new ice-strengthened Antarctic cruise ships have been ordered from Rauma of Finland by Discoverer Reederei GmbH who own *World Discoverer* and *Society Explorer*. The first ship will be delivered in 1991. Each will carry 188 passengers and a crew of 130. The ships will be capable of 60 day cruises with a 15,000 km range.

#### Indian deaths

On 8 January 3 scientists and a naval technician died from carbon monoxide poisoning in a field camp in the Humboldt Mountain area.

#### Changes in the South African National Antarctic Research Programme.

From 1 August 1989, the administration of South Africa's Antarctic and Subantarctic Research Programme (SANARP) passed from the Foundation for Research Development of the CSIR to the Department of Environment Affairs. A new committee, the South African Committee for Antarctic Research (SACAR), now operates to give scientific advice to the department. Active scientists in the fields of biology, oceanography, and earth and physical sciences are members of SACAR. The South African National Committee for SCAR, however, will still be administered by the FRD, the South African body adhering to ICSU, in line with the non-governmental nature of SCAR. A suite of new research projects is planned to commence from 1991, with the emphasis swinging away from the subantarctic islands to the Antarctic continent. However, research at Marion Island, especially in the life sciences, is likely to continue. Internationally, perhaps the most important change is that Dr Pat Condy is no longer involved with SANARP.

### NISC Arctic and Antarctic regions database on CD-ROM

The National Information Services Corporation (NISC) has published its second earth sciences database on compact disc. The database contains over 147,000 citations compiled over 40 years by the Science and Technology Division of the US Library of Congress. The database includes abstracts of articles from thousands of different journals covering many disciplines and offers users the facility to search 40 years of Antarctic bibliography in seconds. For more information contact NISC USA, (301) 454 8040.

#### Correction

Halley II station was completed in 1967/68 and was abandoned in 1973/74 (see Vol. 2 p. 98)