



C.M.O.S. NEWSLETTER / NOUVELLES S.C.M.O.



DECEMBER / DÉCEMBRE

1983

VOL. 11 NO. 6

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CMOS DEVELOPMENTS AND TASKS FOR 1984

As mentioned in the June 1983 issue of the Newsletter, the survey carried out by the Society in late 1982 was very successful, some 750 completed questionnaires having been received. The June 1983 Newsletter also outlined some of the specific areas of concern which were highlighted in replies, for example in connection with CMOS publications, fee structure, and broadening the appeal of the Society. The Council has found these replies to be very valuable guidelines for the further development of the Society, and has already taken action to meet certain of the views expressed.

The most important change stemming from the survey concerns of course the fee structure. In the light of comments received, the Council recommended to the last AGM (1983, Banff) that from 1984 the membership fee be reduced from \$40.00 to \$20.00, and not include any longer the subscription for Atmosphere-Ocean. Except for the Newsletter, the membership fee will henceforth not include subscriptions for any Society publications which can be ordered separately on the membership form. This should make it easier for those who are more interested in one or both of the other Society publications, Chinook and Climatological Bulletin. It is nevertheless hoped that members will continue to support Atmosphere-Ocean, the only scientific publication of its kind in Canada and increasingly valued abroad.

Considerable efforts are being devoted to meet the desire expressed by a large number for a continued and if possible expanded publication of Chinook. Many difficulties, financial editorial and managerial have had to be tackled. The last (October 1983) issue of the Newsletter calls for volunteers to help Carr McLeod, our Publications Business Manager, in this task. It also calls for more articles by members so that Mike Newark, the editor, can put together issues that will have something of interest for all. It should also provide a welcome opportunity for operational meteorologists who would like to publish articles of specific operational or technical interest.

Still on the subject of Chinook, some financial difficulties have in the past been overcome through the use of the CMOS Development fund, so far the only use to which this fund has been put. The Council, during its first (1983) meeting, has decided that donations, received from members would be routed to this fund which, in the future could be used also for other purposes of expansion or development. It should be pointed out that such donations, which are deductible for income tax, will be particularly helpful during the next few years when the financial position of the Society may well deteriorate owing to the change in fee structure. Without donations it will be difficult if not impossible to continue any expansion or development. One relatively painless way of intending to discontinue subscribing to Atmosphere-Ocean, to donate the \$20.00 or the difference in costs between Atmosphere-Ocean and the alternative publication chosen.

Canadian Meteorological and Oceanographic Society
La Société Canadienne de Météorologie et d'Océanographie
Canadian Geophysical Union
Union Canadienne de Géophysique

HALIFAX '84

JOINT ANNUAL MEETING
REUNION ANNUELLE CONJOINTE
MAY 29-JUNE 1, 1984 DALHOUSIE UNIVERSITY

Two other areas of concern expressed in replies to the questionnaire have been addressed by the Council. The one concerns the expansion of activities in the area of operational meteorology. The Special Interest Group on Operational Meteorology (SIGMET) has been activated under the Chairmanship of Gerard Neault (AES, 6325-103 Street, Edmonton, Alta., T6H 5H6, Tel. (403) 437-1250). It is hoped that many operational activists will participate in the work of the Group.

The other area is that of professionalism. The new Chairman of the Professionalism Committee, Dr. G.K. Sato (Canada Oil and Gas, 355 River Road, Ottawa, Ontario, K1A 0E4 Tel. (613) 993-3760) is working hard on the thorny but important question of accreditation for consulting meteorologists in Canada. Dr. Sato would be glad to hear from anyone who has views on this subject and who has not been contacted by him already.

Finally, but certainly not a lesser importance than the rest, an active membership campaign is being prepared. Brian O'Donnell, the Membership Secretary is following up the many comments aiming at broadening the appeal of the Society. It is hoped members will help him in this work and that during 1984 every member will recruit a new member, a task that should be made considerably easier by the new fee structure of the Society.

Uri Schwarz
Executive Director

CMOS GUIDELINES FOR CONSULTANT ACCREDITATION

In response to a request by the CMOS members, it was decided that a Committee on Professionalism should be formed to draft a set of guidelines for the consideration by CMOS. Dr. N. Campbell, Vice-President of CMOS, requested Dr. K. Sato, COGLA, to serve as the chairman of this Committee.

The CMOS executive has decided that accreditation would not commence until the Society has become incorporated. In addition, a member of the executive is seeking legal advice on this matter.

A draft set of guidelines was drawn up based on discussions amongst N. Campbell, G. Holland, L. Muir and K. Sato. As the initial request and interest in the accreditation system arose in the consultants' sector, a copy of the draft guidelines was circulated to consulting firms and oil and gas companies. Most of the responses to the guidelines has been very favourable and constructive. In a couple of cases, the responses were completely negative about having an accreditation system.

The responses are being reviewed and further consultation will take place with those who responded and also with other sectors of CMOS such as members from the universities and government.

If you would like further information or would like to express your views, please write to:

Dr. K. Sato
Chief
Physical Environment Division
Environmental Protection
COGLA
355 River Road
Ottawa, Ontario
K1A 0E4

Ballot for New Logo

Some 150 replies were received by 1 December 1983, the concluding date for the balloting period. They are presently being counted and results will be submitted to the Council, as decided by the 17th AGM.

Request for Information by Venezuela

The Canadian Embassy in Caracas, Venezuela, requested us to provide the Oceanographic Society of Venezuela with information on oceanography in Canada. Films for showing during a "Canadian Week" in Porlamar, where the Venezuelan Oceanographic Institute is located, were also requested. The material was transmitted to them through the good offices of Departments of Fisheries and Oceans and External Affairs.

CMOS OTTAWA CENTRE - REPORT ON NOVEMBER MEETING

On the evening of November 24th, a meeting of the CMOS Ottawa Centre was held in the Auditorium of the Victoria Memorial Museum on Metcalfe Avenue. This was an open gathering, and 65 CMOS members and friends, and interested members of the general public, attended.

The guest speaker for this evening was Dr. Hans Weber of the Earth Physics Branch, Energy, Mines and Resources. As Chief Scientist for the Ice Station CESAR project, his lecture and accompanying slide presentation provided a fascinating insight into the logistics involved in a major on-location scientific project such as this.

Ice Station CESAR was a project undertaken this last spring to establish a scientific research camp on the Arctic ice pack, a few hundred kilometres from the North Pole. A variety of scientific programs were undertaken on the ice to observe and study the water and the ocean floor beneath. Studies were set up to investigate the chemical and biological make-up of the water column, the marine geology, the ocean bottom currents and sedimentation, magnetic and gravitational influences, and a variety of related parameters. A major objective of the project was to determine whether or not the Alpha Ridge, situated off Ellesmere Island between the Canada and the Makarov Basins, is of continental origin. This objective has long-range ramifications as to who may have jurisdiction over future natural resource discoveries in the area.

The logistics involved in setting up the CESAR Camp was a story unto itself. In early February, an AES Ice Reconnaissance Lockheed Electra flew Side-Looking Airborne Radar (SLAR) swaths over the proposed site at 85° 30'N latitude and 110°W longitude to identify favourable ice conditions. The subsequent ice drift was monitored by plotting positions of four buoys of the Arctic Buoy Program. In March, two twin Otters were used to search for a specific CESAR site on a suitable lead of first-year ice. By mid-March, a site was located and the Canadian Armed Forces paratropped men and equipment to prepare a 450 metre runway on the ice. Subsequently, 300 tonnes of supplies and equipment were airlifted to the site from Resolute via C-130 Hercules aircraft. By April 3rd, Ice Station CESAR was fully operational and the scientific program was started.

During the course of the project the number of people at the CESAR location varied as specific scientific investigations were initiated and

completed. The average camp occupancy during the scientific period was about 37. Investigators came from various government agencies and universities across Canada, and also included scientists from the Universities of Wisconsin, Miami, and Washington, and from Oslo, Norway.

All was not hard work at Ice Station CESAR, however. A 4 km cross-country ski race was held on May 11th with winners declared in both men's and women's categories. Tea parties, sumptuous Sunday dinners, and other social events were organized to offset the routine of life on the Arctic pack. Norwegian Arctic expert Leif Lundgaard even managed to construct a sauna for the use of the camp members.

A highlight of the project was a visit to the Soviet Ice Station NP25, located 357 km west of CESAR. NP25 is primarily a meteorological station with a normal contingent of 14. Hans Weber led the Canadian group to the station via twin Otter in the early afternoon of May 1st. Although the station appeared almost deserted upon arrival, a large contingent of Russians eventually turned out to greet them, their population, however, had swollen to 29 as they were in the midst of the yearly crew change. They hosted an extensive tour of the camp complete with a fine meal washed down with champagne and vodka. When the meal was referred to at one point as breakfast, it dawned on the Canadian group that they had crossed the International dateline and had awakened the Soviet camp at 02:30 local time.

With the completion of scientific programs in mid-May, the evacuation of Ice Station CESAR began. Although ice drift track plots indicated that the camp had drifted some 76 km over the 46 day period, the starting point and end point were less than 16 km apart. The last flight out on May 23rd was evidently none too soon, as an overflight of the area a few days later revealed no sign of the runway among a field of broken ice.

Dr. Weber concluded his talk by noting that all of the scientific data collected during this project has not yet been analysed and evaluated. Thus, there is still much work to be done before the CESAR83 Polar Expedition can be officially terminated. Dr. Weber also indicated that it is still too early to give a definitive answer as to the true origin of the Alpha Ridge. Finally, he stated that there are plans afoot to establish a camp on a large ice island which has broken off the Ward Hunt Ice Shelf and which is presently located west of Yelverton Bay. This ice island may very well be occupied within the next two years, and thus Dr. Weber's arctic adventures are by no means over.

After Dr. Weber's presentation, members and guests retired to the Museum Salon for a wine and cheese reception. From a social, as well as scientific viewpoint, the entire evening was most successful and the Ottawa Centre is certainly planning more future events such as this in addition to its regular monthly luncheon gatherings.

NEW MEMBERS

New members approved at Council Meeting No. 1 - October 27-28, 1983

Mr. Arjen Verkaik Islington, Ontario	- Regular Member - Toronto Centre
Gordon D. Stublely Waterloo, Ontario	- Regular Member - Toronto Centre
Prof. Renald C. Naud Ste-Foy, Québec	- Regular Member - Québec Centre

CANADIAN METEOROLOGICAL AND OCEANOGRAPHIC SOCIETY

The Canadian Meteorological and Oceanographic Society exists to advance all aspects of meteorology and oceanography in Canada. It assumed its present constitution in June 1977. This development recognized the growth and contributions of an active Oceanographic section within the parent Canadian Meteorological Society established in 1967. Membership in the Society is open to individuals and organizations with genuine interests in the fields of meteorology and oceanography.

Through its fourteen local Centres and Chapters, the Society provides a forum for members to participate in discussions and hear guest speakers. Members with special fields of interest are encouraged to join Special Interest Groups within the Society.

The Society sponsors an annual Congress each spring, usually lasting three days, where papers are presented and discussed, various awards are given, and the yearly business meeting is held. The location of the Congress varies, with the local Centres serving as hosts.

The Society publishes four periodicals including the CMOS Newsletter which carries correspondence, notices, book reviews and other items of general interest to members. Atmosphere-Ocean is a quarterly scientific journal containing articles on all aspects of meteorology and oceanography as well as relevant notes, correspondence, and book reviews. The Climatological Bulletin is a semi-annual journal containing articles and notes of particular interest to the field of climatology. Chinook is a quarterly magazine giving a more popular treatment to meteorological and oceanographic themes. The Newsletter is distributed to all members free of charge while the other publications are available at favourable subscription rates.

New members are accepted into the Society by the National Executive at approximately monthly meetings.

LA SOCIÉTÉ CANADIENNE DE MÉTÉOROLOGIE ET D'OcéANOGRAPHIE

La Société Canadienne de Météorologie et d'Océanographie a pour but de stimuler tous les aspects de la météorologie et de l'océanographie au Canada. Sa constitution date de juin 1977, alors que la Société Canadienne de Météorologie, établie en janvier 1967, a reconnu la croissance et les contributions dues à l'activité de sa section d'océanographie et a changé son nom. Toute personne ou organisation intéressée à la météorologie peut en devenir membre.

Les quatorze centres locaux et sections de la Société fournissent aux membres autant de lieux pour discuter et recevoir des conférenciers invités. Les membres qui ont des intérêts particuliers sont encouragés à joindre des groupes d'intérêts spéciaux au sein de la Société.

La Société organise un Congrès annuel au printemps d'une durée de trois jours où l'on présente et discute des exposés, où l'on distribue des récompenses et où l'on tient la réunion générale annuelle. L'emplacement choisi pour le congrès varie selon le centre qui en est l'hôte.

La Société publie quatre périodiques, comprenant Le bulletin de Nouvelles de la SCMO. Le bulletin publie des lettres, des avis, des revues de livres et d'autres communications d'intérêt pour les membres. Atmosphere-Ocean est

MEMBERSHIP APPLICATION FORM - DEMANDE D'ADHESION

(Please print in block letters -
Lettres moulées s.v.p.)Title/Nom Dr ___ Mr ___ Mrs ___ Miss ___ Other ___
M ___ Mme ___ Mlle ___ Autre ___PRIMARY FIELD OF INTEREST - SPHERE
D'INTERET PRINCIPAL

Name/Nom _____

Meteorology _____ Oceanography _____
Météorologie _____ Océanographie _____Special Interest Group Affiliation
Affiliation de Groupe d'intérêt spécial

Telephone _____

Hydrology _____ Air Pollution _____
Hydrologie _____ Pollution de l'air _____Occupation/
Emploi _____Agriculture & Forest _____ Operational Meteorology _____
Agriculture & forêt _____ Exploitation de la
météorologie _____(for records only; if student,
indicate institution and year
studies will be completed.
Pour dossiers seulement; l'étudiant
doit inscrire le nom de son
institution et l'année où il finira
ses études.)Please enroll me as a member of the
Canadian Meteorological and Oceanographic
Society in the category indicated for
1984.Je désire devenir membre de la Société
canadienne de Météorologie et
d'Océanographie dans la catégorie
indiquée pour 1984.

MEMBERSHIP CATEGORY - CATEGORIE DE MEMBRE

Regular _____ Student _____
Régulier _____ Etudiant _____Corporate or Sustaining
Corporation ou soutien _____Subscription Only
Abonnement Seulement _____

(please check one - Cochez un s.v.p.)

I attach a cheque for \$ _____ payable to the
Canadian Meteorological and Oceanographic Society
for the membership fee and/or any publication
subscription not included in the membership fee.J'inclus un chèque au montant de \$ _____ payable à
la Société canadienne de Météorologie et
d'Océanographie pour la cotisation de membre et/ou
des abonnements de périodique.PUBLICATION SUBSCRIPTIONS - ABONNEMENT
AUX PERIODIQUESAtmosphere-Ocean _____ Climatological Bulletin _____
Chinook _____

Date _____

Signature _____

Mail completed form to CMOS Membership at the
address below.
Faire parvenir au SCMO Demande d'adhésion à
l'adresse suivante:Suite 805, 151 Slater, Ottawa
Ontario, Canada K1P 5H3
Telephone (613) 237-3392

le journal scientifique trimestriel qui renferme des articles sur tous les aspects de la météorologie et de l'océanographie, de même que des notes, lettres et revues de livres appropriées. Le "Climatological Bulletin" est un journal semestriel qui renferme des articles et des notes d'intérêts sur la climatologie. "Chinook" est un périodique trimestriel qui publie des articles plus généraux sur les thèmes météorologiques et océanographiques. Le bulletin de Nouvelles de la SCMO est distribué sans frais additionnels à tous les membres. Les membres peuvent souscrire aux autres périodiques par abonnement à taux favorables.

Les demandes d'adhésion sont approuvées par le bureau d'administration à ses réunions mensuelles.

ANNUAL FEES FOR/
COTISATIONS ANNUELLES POUR 1984

Regular Membership/Membre régulier	- \$20.00
Student Membership/Membre étudiant	- 12.00
Corporate (Sustaining) Membership/Membre de Corporation (Soutien)	- 75.00 (minimum)

ANNUAL SUBSCRIPTION RATES FOR/
ABONNEMENTS ANNUELS POUR 1984

Atmosphere - Ocean	- \$20.00
Climatological Bulletin	- 10.00
Chinook	- 7.50

CORPORATE AND SUSTAINING MEMBERS

Aanderaa Instruments Ltd. Airflow Development
 Victoria, British Columbia Canada Ltd.
 Mississauga, Ontario

Alberta Agriculture Beak Consultants Ltd.
 Advisory Committee on Richmond
 Weather Modification British Columbia
 Three Hills, Alberta

Bristol Aerospace Ltd. Dr. R.W. Burling
 Winnipeg, Manitoba Vancouver
 British Columbia

Concord Scientific Corp. Dobrocky Seatech Ltd.
 Downsview, Ontario Sidney
 British Columbia

Envirocon Limited Environmental
 Vancouver, British Columbia Protection
 Canada Oil and Gas
 Lands Admin
 Ottawa, Ontario

Fathom Atlantic Ltd. Geneq Inc.
 Dartmouth, Nova Scotia Anjou, Qu'bec

Fenco Consultants Intera Environmental
 Calgary, Alberta Calgary, Alberta

Hermes Electronics Ltd. Macdonald Dettwiler &
 Dartmouth, Nova Scotia Assoc.
 President
 Richmond
 British Columbia

Dept. of Oceanography Petro-Canada Exploration
 Univ. of British Columbia Inc.
 Vancouver, British Columbia Calgary, Alberta

Ph.D. Associates Inc.
 Rexdale, Ontario

Seaconsult Marine Research Viatec Resource
 Ltd. Systems Inc.
 Vancouver, British Columbia Calgary, Alberta

Wellsdale Research Limited
 St. Albert, Alberta

HUNTSMAN AWARD CEREMONIES HELD AT
 BEDFORD INSTITUTE

DARTMOUTH - Dr. Ruben Lasker, eminent fisheries scientist and educator was presented with the 1983 Huntsman Award at the Department of Fisheries and Oceans' Bedford Institute of Oceanography, November 9, 1983.

Dr. Lasker is the chief of the Southwest Fisheries Centre, and associate professor of marine biology at the Scripps Institution of Oceanography in San Diego, California.

The 1983 Huntsman Award for excellence in marine science was presented by President of the Royal Society of Canada, Marc-Ad'lar Tremblay.

Following the award ceremony which was attended by the Honourable John E. Shaffner, the Lieutenant Governor of Nova Scotia, dignitaries, officials and representatives from all levels of government, the scientific community and the general public, the medalist delivered the Huntsman lecture, which dealt with his influence on the basic understanding of the nutrition, biochemistry and general physiology of marine organisms.

The award is supported jointly by the Department of Fisheries and Oceans, Energy Mines and Resources, the East Coast Petroleum Operators Association, and the Provincial Department of Fisheries.

FOR MORE INFORMATION:

C.E. Murray
 Public Relations Manager
 Department of Fisheries and Oceans
 Ocean Sciences and Surveys, Atlantic
 Bedford Institute of Oceanography
 Dartmouth, Nova Scotia
 B2Y 4A2
 Telephone (902) 426-3251 (Bus.)
 (902) 469-0912 (Res.)

LA REMISE DU PRIX HUNTSMAN S'EST TENUE
 A L'INSTITUT BEDFORD

DARTMOUTH - Le Dr Ruben Lasker, ichtyologiste éminent et éducateur renommé, s'est vu remettre le prix Huntsman 1983 à l'occasion d'une cérémonie qui s'est déroulée à 14 h le 9 novembre 1983, à l'institut océanographique de Bedford, du ministère des Pêches et des Océans.

Le Dr Lasker est directeur du Centre des pêches du Sud-Ouest et professeur adjoint de biologie marine au Collège océanographique Scripps, à San Diego, en Californie.

Le prix Huntsman 1983 pour excellence en science marine lui a été remis par le président de la Société royale du Canada, M. Marc-Ad'lar Tremblay.

Après la cérémonie, à laquelle assistaient l'honorable John E. Shaffner, Lieutenant gouverneur de la Nouvelle-Ecosse, ainsi que de nombreux dignitaires et des représentants des divers paliers de gouvernement, du monde scientifique et du grand public, le récipiendaire du prix Huntsman a prononcé une conférence sur les connaissances fondamentales en matière de nutrition, de biochimie et de physiologie des organismes marins.

Le prix est décerné sous le patronage conjoint du ministère des Pêches et des Océans, du ministère de l'Energie, des Mines et des Ressources, de la East Coast Petroleum Operators Association et du ministère provincial des Pêches.

POUR RENSEIGNEMENTS:

C.E. Murray
 Direction des relations publiques
 Ministère des Pêches et des Océans
 Sciences et levés océaniques (Atlantique)
 Institut océanographique de Bedford
 Dartmouth (Nouvelle-Ecosse)
 B2Y 4A2
 Téléphone (902) 426-3251 (bureau)
 (902) 469-0912 (résidence)

J.P. TULLY MEDAL

Each year, at the CMOS congress, meteorologists honour one of their members as well as the memory of an influential Canadian meteorologist by awarding the Patterson Medal to a worthy recipient. The occasion is both joyous and dignified, the medal usually being attributed to a senior scientist whose work, influence and personal qualities have earned him/her the respect and endearment of his/her peers.

At the Banff Congress, following the luncheon where the Patterson Medal was bestowed on Sven Orvig, a small group of oceanographers (Rick Thomson, Sus Tabata, Neil Campbell and Paul LeBlond) discussed the possibility of instituting such a medal to honour major contributors to Canadian oceanography. Our attention quickly focussed on J.P. Tully as a suitably eminent early Canadian oceanographer after whom to name the medal. A short bibliography of Dr. Tully can be found in this newsletter.

The first medal would be awarded to Tully himself, hopefully in the spring of 1984. Future awards would be made upon recommendation of the CMOS awards committee, to a scientist whose contributions over the years have had a significant impact on the development of oceanography in Canada.

The CMOS council has approved the idea. Dr. Tully has been approached and a good photo obtained of him to engrave on one side of the medal. The other side would bear the name of CMOS (in French and English), the date of the award and the name of the recipient.

If you are sympathetic to the project and wish to contribute to the cause, send your cheque payable to CMOS - Tully Medal Fund at:

The Canadian Meteorological and Oceanographic Society
Suite 805, 151 Slater Street
Ottawa, Ontario
K1P 5H3

We thus call on your generosity as "Friends of Tully" to contribute to this enterprise which will keep his name alive among Canadian oceanographers, provide a vehicle to reward and honour deserving scientists, and attract attention to marine sciences in Canada.

BIBLIOGRAPHY OF JOHN PATRICK TULLY

John Patrick Tully was born in Brandon, Manitoba, November 29, 1906. He received a B.Sc. in 1931 from the University of Manitoba, and a Ph.D. in Chemical Oceanography from the University of Washington in 1948.

Dr. Tully joined the staff of the Biological Station, Fisheries Research Board of Canada, in Nanaimo, in 1931 as an Assistant Scientist. While with the Station he was involved in research on oyster quality and nutrition, sea water analyses, and coastal and physical oceanography. He was seconded to the Royal Canadian Navy in 1942 until the end of World War II. During this period he conducted extensive research studies on underwater acoustics and sound ranging. On his return to Nanaimo, he was appointed Oceanographer-in-Charge of the Pacific Oceanographic Group. Under Dr. Tully's guidance this Group developed an international reputation on North Pacific oceanography and its impact on the salmon fishery. Dr. Tully's personal research spanned many fields of endeavour and included estuarine and pollution research on pulp mill effluents, hydraulic modelling, tidal mixing, long-term temperature and salinity changes, mass transport, etc. His unique contributions dealing with pulp mill effluents in Alberni Inlet, estuarine circulation and flushing, and the structure and circulation of the Northwest Pacific Ocean are considered classic by students and professional oceanographers worldwide.

Dr. Tully is a Fellow of the Royal Society of Canada, a member of the American Geophysical Union, the Canadian Institute of Chemistry, the

American Society of Limnology and Oceanography - Sigma XI, American Association for the Advancement of Science, on which he served as President of the Western Division in 1963. He was an Honorary Lecturer at the University of British Columbia from 1950 to 1953, where he contributed significantly in the formative years of the Institute of Oceanography through his lectures and training of students.

In 1966, Dr. Tully came to Ottawa to assume the position of Secretary of the Canadian Committee on Oceanography and acted as the senior oceanographic consultant to the Fisheries Research Board of Canada. He retired in 1969 but remained as an active consultant until 1975.

Dr. Tully's many interests embraced international oceanography and included joint programs in the Arctic with the United States; and in the Pacific with Japan, the USSR and the USA. He served the intergovernmental Oceanographic Commission and the World Meteorological Organization in the development of joint ocean and meteorological Organization in the development of joint ocean and meteorological services. He was the first Chairman of the Integrated Global Ocean Station System (IGOSS). He pioneered many studies in Canada, particularly those related to estuarine research and the application of oceanography to fisheries and defence. His publications (over 100) are a testimony to his energy, expertise and contributions to oceanography both nationally and internationally.

Careers in

R&D

Cloud Physicist

The Alberta Research Council is a crown corporation dedicated to promoting responsible economic development of natural resources and industry in the Province of Alberta through a broad range of research in science and technology.

Our Atmospheric Sciences Department is seeking an experienced researcher to participate in an advanced research program involving the use of a research aircraft in planned and inadvertent weather modification and air quality projects. The position will involve spending about 5 months in the field each year in the role of mission scientist aboard the research aircraft.

Candidates should possess a Ph.D. in Atmospheric Sciences, meteorology or physics. Previous experience in directing research aircraft extemporaneously and in the vicinity of severe storms from on board the aircraft is essential.

Experience in hail suppression, rain/snow augmentation and air quality research programs is desirable. Also desirable is experience in instrument development for research aircraft and expertise in the field of nucleation and cloud physics.

Please apply in writing quoting Competition No. ARC - 684 to:

**ALBERTA
RESEARCH
COUNCIL**

Human Resources Department
Alberta Research Council
5th Floor, Terrace Plaza
4445 Calgary Trail South
Edmonton, Alberta, Canada
T6H 5R7

This competition will remain open until a suitable candidate is selected.

1983 SOCIETY AWARDS

Call for Nominations

Nominations are requested from members and Centres for the 1983 Awards to be presented at the XVIIth Annual Congress. Five awards are open for nomination:

1. **President's Prize**
to an individual or individuals for a recent paper of special merit in the fields of oceanography or meteorology. The paper must have been published in Atmosphere-Ocean or have been presented to the Society membership at a national or local meeting and has been accepted for publication in a referred journal.
2. **Dr. Andrew Thomson Prize in Applied Meteorology**
to a member of the Society for an outstanding contribution in the field of applied meteorology.
3. **Prize in Applied Oceanography**
to a member or members of the Society for a significant contribution to the application of oceanography in Canada.
4. **Rube Hornstein Prize in Operational Meteorology**
to an individual for providing outstanding operational meteorological service in its broadest sense, but excluding the publication of research papers as a factor, unless that research is already incorporated as an aid in the day-by-day performance of operational duties. The work for which the prize is awarded may be cumulative over a period of years or may be a single notable achievement.
5. **Graduate Student Prizes**
to graduate students for contributions of special merit in meteorology and/or oceanography.

With the exception of the Rube Hornstein Prize, all awards will be based on contributions during the 1983 calendar year.

Nominations are also requested for the award of citations to individuals or groups who have made some outstanding contribution in helping to alleviate pollution problems, in promoting environmental improvements, or in developing environmental ethics.

All nominations should reach the secretary of the Awards Committee at the following address no later than February 1, 1984.

Dr. Paul Leblond
Department of Oceanography
University of British Columbia
6270 University Blvd.
Vancouver, B.C.
V6T 1W5

AWARDS COMMITTEE

The Society annually gives awards to individuals and groups "with a view to recognizing scientific achievement and promoting interest in meteorology and/or oceanography among scientists and the community in general". (By-law 14a) These awards are made by Council on the recommendations of the Awards Committee. Since its inception, the Committee has carried out this most important task quietly and efficiently, working hard to ensure the worthiness of award recipients and maintain the prestige of these Society honours. Most of its business is conducted by correspondence and telephone conferences, thus allowing a broad

representation on the Committee with minimal financial burden. In addition to recommending award recipients, the Committee also maintains the Terms of Reference for awards and recommends changes to Council as appropriate.

The Committee has six or more members who are appointed by Council for three year terms. Normally two members are replaced each year to ensure stability and uniformity. The chairman is elected by the Committee from its own membership. Current members of the Committee are:

Dr. David Huntley - term expires 1984 (chairman)
Dr. Desmond O'Neil - term expires 1984
Mr. Gary Wells - term expires 1985
Dr. Steve Calvert - term expires 1985
Dr. Phil Merilees - term expires 1986
Dr. Paul LeBlond - term expires 1986

The Awards Committee recommends to Council its own new members. This is usually done in September of each year in time for the first meeting of Council in October. Any member of the Society wishing to serve on this auspicious Committee should contact its chairman shortly after the annual congress.

John Falkingham
Corresponding Secretary

Meteorological and Environmental Consulting

Environmental Meteorology

- air pollution meteorology
- meteorological studies
- air quality (local & L.R.T.) modelling
- long range transport and acidic deposition studies
- wind field modelling
- wind energy potential assessments
- environmental emergency response

Air Sampling and Monitoring

- air quality monitoring and assessments
- sampling network design, installation and operation
- regulatory compliance assessments
- toxic chemicals/hazardous substances
- quality assurance studies

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Canada M3H 2V2



Contact: Martha Ghent
(416) 630-6331
Dept. CMS-12

THE PATTERSON MEDAL AWARD 1983

The Patterson Medal Award for distinguished service to meteorology in Canada was established in 1946 in honour of Dr. John Patterson who was Controller of the Meteorological Service of Canada from 1929 to 1946. It is the intention of the present members of the Patterson Medal Committee to call for nominations for the award annually.

The award is given for unique outstanding achievement or for sustained contributions over several years to any resident in Canada. In reviewing the terms under which the award is made, the Committee wishes to re-emphasize that the award is one for which all people engaged in meteorology in Canada, whether at the technical or professional level, may be nominated.

Should you wish to submit a nomination, the "Nomination Form", together with supporting material, should be returned by registered letter to the Secretary, Patterson Medal Committee, 4905 Dufferin Street, Downsview, Ontario, M3H 5T4, not later than January 31, 1984. It should be noted (as indicated in Part A of the Instructions) that the decision in choosing the recipient is based solely on the material submitted by the nominator and not on information available from other sources such as personal acquaintance, etc.

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Vancouver, British Columbia V6E 2W3
(604) 684-5377, Telex: 04-508765

THE PATTERSON MEDAL AWARD
1983
NOMINATION FORM

Name of Nominee

Address of Nominee

.....

Nature of contribution or service to Meteorology -
(use separate sheet for details)

.....

.....

.....

.....

Name of Nominator

Address of Nominator

.....

Signature of Nominator

Date

Note: Nominations and all supporting material should be forwarded by registered mail to the Secretary, Patterson Medal Committee, 4905 Dufferin Street, Downsview, Ontario, M3H 5T4, not later than January 31, 1984.

REMOTE SENSING - FROM RESEARCH TOWARDS
OPERATIONAL USE

CALL FOR PAPERS

The 1984 IEEE International Geoscience and Remote Sensing Symposium (IGARSS '84) will be held at the Council of Europe, Strasbourg, France, from 27-30 August 1984. This Symposium will be the fourth of its kind. Because of the great interest that this type of international symposium on geoscience and remote sensing arouses, conference will be held alternately in the USA, and other countries. Strasbourg will host the second symposium to be held outside the USA. The meeting is being sponsored by the IEEE Geoscience and Remote Sensing Society and co-sponsored by the European Chapter Geoscience and Remote Sensing Society, Council of Europe, DFVLR, EARSL, ESA, and NASA.

A primary goal of the symposium is to enable participants to gain a general overview of the present status and future prospects of the geoscience disciplines and the techniques of remote sensing, together with more detailed summaries of recent technical progress in these fields.

The broad view will be stressed in a small collection of Review Papers to be presented by a number of distinguished authorities in geoscience and remote sensing. Most of the Review Papers, together with a limited number of Invited Papers, are intended to demonstrate the standard of experience in geoscience and remote sensing in Europe. Recent technical progress in these areas will be reported in Contributed Papers and other Invited Papers. Specially organised sessions will emphasise a number of topics of current interest. Poster sessions will be organised especially for presentations of a strong visual nature.

SYMPOSIUM SUR LA CHIMIE DE LA NEIGE
ET DE LA GLACE ET L'ATMOSPHERE

Peterborough, Ontario
19-24 Août 1984

Technical sessions will be co-ordinated to provide a well-balanced, comprehensive programme stressing the problems and perspectives of the geoscientific disciplines, instrumentation system & data processing techniques, and sensor-target models. Within this context, the topics listed overleaf are intended as suggestions, although full consideration will be given to papers on other relevant subjects. Authors are invited to submit proposals for papers or poster session contributions (in Summary form) to the Chairman of the Technical Programme Committee not later than 15 November 1983. Inquiries regarding the technical programme may be directed to the Chairman of the Technical Programme Committee.

For further information contact:

Prof. P. Gudmandsen, IGARSS '84 General Chairman
Technical University of Denmark
Lyngby (Copenhagen), Denmark
Tel: (02) 880588, telex: 37529

SYMPOSIUM ON SNOW AND ICE CHEMISTRY
AND THE ATMOSPHERE

Peterborough, Ontario
19-24 August 1984

A symposium "Snow and Ice Chemistry and the Atmosphere" will be held at Champlain College, Trent University, Peterborough, Ontario, in 1984. Registration will be on Sunday, 19 August, and sessions will be held through Friday, 24 August. The Symposium is being organized by the Subcommittee on Glaciers, National Research Council of Canada.

Accommodation will be available in Champlain College, Trent University, or, if preferred, in hotels or motels within 5 km of the campus.

Although the Subcommittee on Glaciers is organizing the symposium, the scope of its theme "Snow and Ice Chemistry and the Atmosphere" is NOT limited to glacier ice.

Analyses of ice cores provide a baseline for monitoring atmospheric contamination and a record of past climates, volcanism, cosmic and anthropogenic effects. How changes in the earth's atmosphere are expressed as variations in ice and snow chemistry is the theme of this conference. Topics to be discussed include: ice core records of particulate and chemical constituents in ice masses; models of transport, air chemistry and climatic change; methods of atmospheric and ice core sampling and analysis; volcanic and cosmic contributions to atmospheric and ice chemistry; processes of incorporation of airborne constituents into ice sheets and snow.

Those who would like to contribute to the symposium should submit titles and extended abstracts (two to three double-spaced pages) by December 1, 1983, to:

Dr. W.P. Adams,
Dean of Science,
Trent University,
Peterborough, Ontario,
Canada K9J 7B8

Titles and extended abstracts should be in English or French. The abstracts will be mailed to participants before the symposium. Arrangements are being made for publication of the symposium proceedings in a reputable journal. Papers presented at the symposium will be considered for publication in the Proceedings volume provided that they have not been submitted for publication elsewhere.

Le symposium sur la "Chimie de la neige et de la glace et l'atmosphère" aura lieu en 1984 au collège Champlain, Université Trent, Peterborough (Ontario). Les inscriptions se prendront le dimanche 19 août. Les séances se poursuivront jusqu'au vendredi 24 août. Le Symposium est organisé par le Sous-comité sur les glaciers du Conseil national de recherches du Canada.

Les participants pourront loger au collège de l'Université Trent ou dans des hôtels ou motels situés à quelque cinq kilomètres du campus universitaire.

Quoique le Symposium soit organisé par le Sous-comité sur les glaciers, le thème "Chimie de la neige et de la glace et atmosphère" ne se limite pas aux glaciers.

L'analyse de carottes de glace fournit des normes de contrôle de la contamination atmosphérique et permet de déterminer les paléoclimats ainsi que les effets passés volcaniques, cosmiques et anthropogéniques. La conférence a pour thème la transposition des variations chimiques de la glace et de la neige en modifications de l'atmosphère terrestre. Les sujets à débattre sont: l'analyse de particules et de constituants chimiques dans les carottes de glace; les modèles de transport; la chimie de l'air et les changements climatiques; les méthodes d'échantillonnage et d'analyse de l'atmosphère et des carottes de glace; les influences volcaniques et cosmiques sur la chimie de l'atmosphère et de la glace; et les processus d'incorporation de constituants atmosphériques aux carottes de glace et à la neige.

Les personnes intéressées à présenter des mémoires à l'occasion du symposium devront faire connaître les titres et adresser un résumé détaillé (deux à trois pages dactylographiées à double interligne) d'ici le 1er décembre 1983 à:

M. W.P. Adams, Ph.D.
Doyen, faculté des sciences,
Université Trent
Peterborough (Ontario)
Canada
K9J 7B8

Les titres et les résumés peuvent être rédigés en anglais ou en français. Ils seront expédiés aux participants avant le symposium. Des négociations ont été entreprises afin de publier les comptes rendus dans un journal réputé. Les mémoires ne seront imprimés que s'ils n'ont pas parus dans d'autres publications.

27TH GREAT LAKES RESEARCH CONFERENCE

The International Association for Great Lakes Research will hold its annual conference in St. Catharines, Ontario, from April 30 to May 3, 1984. For more information contact:

J. Terasmae,
Dept. of Geological Sciences,
Brock University,
St. Catharines, Ontario, L2S 3A1
Phone: (416) 688-5550

Venue:

Halifax - city by the sea featuring Historic Properties, Maritime Museum, Bluenose II and the Citadel - is full of attractions for visitors. The east coast lobster and fish chowder are unforgettable. Come and join your friends and colleagues, enjoy Nova Scotian hospitality and help make this the best Congress ever.

Call for Papers and Exhibits:

The 18th Annual Congress of the Canadian Meteorological and Oceanographic Society and the 11th Annual Meeting of the Canadian Geophysical Union will be held jointly at Dalhousie University, Halifax, Nova Scotia from May 29 - June 1, 1984. Abstracts, not to exceed 400 words related to the theme sessions or on any topic in meteorology, oceanography and geophysics will be accepted until January 27, 1984 and are to be sent to S.D. Smith (CMOS) or H.R. Jackson (CGU), Bedford Institute of Oceanography, P.O. Box 1006, Dartmouth, Nova Scotia, Canada, B2Y 4A2. Commercial displays in the fields of oceanography, meteorology and geophysics are invited and are being coordinated by Mr. John Brooke, 24 Flamingo Drive, Halifax, Nova Scotia, B2M 1S7 - telephone (902) 443-2932.

Congress Theme:

The theme of the meeting will be "The Marine Environment, Atmosphere, Ocean and Lithosphere". Theme sessions will be of interest to members of both CMOS and CGU and will include:

1. Opening Plenary session
2. Geophysical fluid dynamics: Atmosphere, Ocean and Lithosphere
3. Arctic expeditions: CESAR, LOREX and FRAM
4. Scientific services to the offshore industry
5. Climate Change
6. Coastal meteorology, oceanography and geophysics
7. Boundary processes

In addition to theme sessions, special sessions will highlight fields of particular interest. Chairpersons for theme and special sessions are now being nominated by the program committee. Special sessions will include the following:

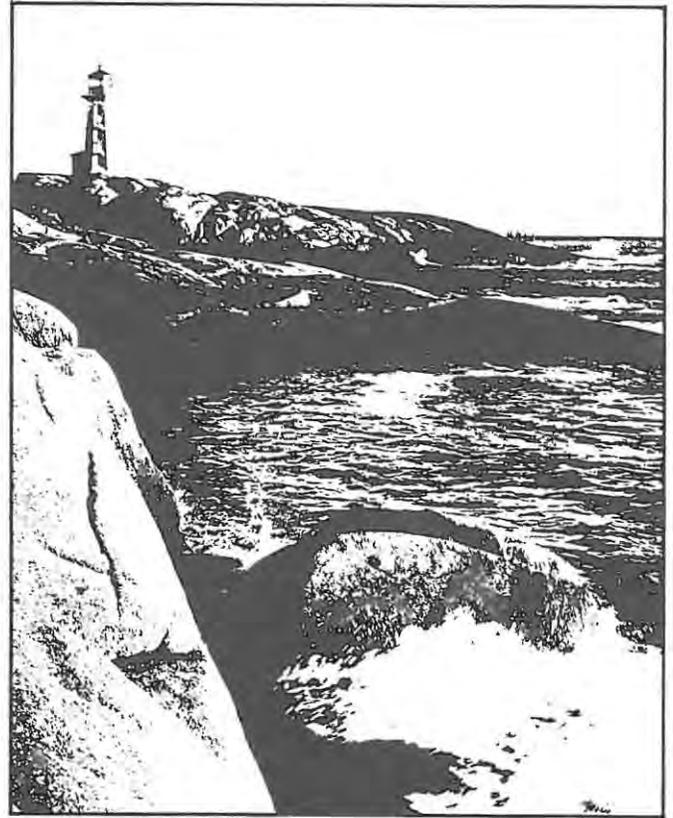
8. Air Pollution Meteorology
9. Hydrology
10. Agriculture and Forestry Meteorology
11. Operational Meteorology
12. Marine Sediment Geochemistry and Paleooceanography
13. Marine Chemistry
14. Trace Chemical Constituents and Analytical Methods
15. Sea Level, Tides and Storm Surges
16. Climatology-Atmosphere, Ocean and Ice
17. Prediction of Extreme Events in the Marine Environment
18. Lithospheric Stresses
19. Deep Crustal Studies: Results from COCRUST, plans for Lithoprobe
20. Hydrothermal activity at Ridge Crests

Facilities:

The Congress will be held on the campus of Dalhousie University, Halifax, Nova Scotia. The campus is a short walk from downtown and is near several major hotels. A special feature of the Congress will be a visit to the Bedford Institute of Oceanography Open House.

Accommodation:

250 rooms on campus have been reserved at the Shirreff Hall residence. These rooms are very comfortable and within easy walking distance of the Congress. Costs will be \$25.00 single and \$36.00 twin including parking and breakfast. Reservations must be made through the Local Arrangements Committee before May 1, 1984 on the accompanying form.



Peggy's Cove, Nova Scotia

For those who prefer hotel type accommodations, special rates have been obtained at the following hotels:

The Lord Nelson 1515 South Park St. P.O. Box 700 Halifax, N.S. B3J 2T3 (902) 423-6331	The Holiday Inn, Halifax Centre, 1980 Robie St. Halifax, N.S. B3H 3G5 (902) 423-1161
---	--

	Single	Double	Single	Double
	\$52.00	\$59.00	\$56.00	\$63.00

Room reservations must be made with the hotel directly. To qualify for special rates please specify that you will be attending the CMOS/CGU Congress and reserve before April 28, 1984.

Transportation:

Halifax is served by air, rail and highway links to most major North American cities. A bus service (fare approx. \$6.00) operates from the airport to downtown hotels. Taxi fares from the airport to downtown are approximately \$21.00.

Social Functions

An icebreaker is planned for Monday evening, May 29, and banquets will be held Wednesday, May 30 (CGU) and Thursday, May 31 (CMOS). Both

Submission of Abstracts

The abstract must be written either in English or in French. They should not exceed a maximum of 250 words, excluding title, names of authors, affiliation and address, but must be sufficiently complete to allow the Program Committee to evaluate the interest of the communication and its place in the Conference Program. In order to permit the Program Committee to prepare the final program for the conference, all participants are requested to submit abstracts to:

Dr. C.D. Walshaw
Department of Atmospheric Physics
Clarendon Laboratory
Parks Road
OXFORD - England OX1 3PU

Abstracts must reach the Secretary by 1 February 1984.

Publication of the Proceedings

With the sponsorship of the Commission of the European Communities, it is planned that all papers (including poster papers) presented at the Ozone Symposium will be published by the Reidel Publishing Co. in a single hard cover volume. This volume will be distributed free of charge to registered participants.

Co-Sponsors: Academy of Athens
American Meteorological Society
Commission of the European Communities

Hosts: Academy of Athens
University of Thessaloniki

Inquiries

Inquiries regarding the scientific programme and registration fees should be directed to:

Professor C.S. Zerefos,
Physics Department, Campus Box 149
University of Thessaloniki
Thessaloniki, GREECE telex: 412181

Inquiries regarding lodging should be directed to:

Athos Palace
17 Vassileos Konstantinou
Thessaloniki, GREECE
telex: 412396 PALL GR

METRICATION OF MANUAL SNOW SAMPLING EQUIPMENT

The Western Snow Conference announces the publication of the final report "Metrication of Manual Snow Sampling Equipment" by the working committee on metrication of the Western Snow Conference with research supported by member agencies from Canada and the United States and in cooperation with the Eastern Snow Conference, published April, 1983.

The report covers the compilation, analysis and comparison of data from 189 separate tests made with ten existing cutters in a variety of snowpacks in British Columbia, California, Montana and Ontario. Correction factors are derived from the data which may be used to adjust measured values of snow water equivalent to true values for the existing cutters. Through the test program, the design of a nominal metric cutter evolved, capable of measuring true value of the snow water equivalent. Drawings and specifications are included for both large and small diameter samplers.

Principal Contents:

- Metric Conversion in Canada and the United States
- Miscellaneous early tests: 1964 to 1978
- Cutter design evolution
- Test locations
- Test programs 1979 through 1981
- Small diameter deep snowpack sampler
- Large diameter shallow snowpack sampler
- Analysis of all snow sampler data
- Effects of snow density and other conditions
- Volumetric samplers
- Snow pit profiles
- Supplementary University testing programs
- Metric design recommendations
- Proposed metric conversion schedule

Enquiries to: The Western Snow Conference
c/o Robert T. Davis, Secretary
P.O. Box 14884
Spokane, Washington 99214
U.S.A.

Price: \$10.00 U.S. (Quantity Discount)

BROCHURES SUR LE CLIMAT MARIN

(Tiré de Environnement à la une, septembre 1983)

Le Centre climatique canadien d'Environnement Canada a publié trois brochures expliquant comment obtenir des données climatiques sur les zones hauturières et côtières du Canada - données essentielles à la planification des activités dans ces régions. Ces brochures distinctes, intitulées Origines des données climatiques de la mer, traitent des environnements marins de l'Atlantique, du Pacifique et de l'Arctique.

Elles décrivent les données climatiques et les services disponibles à la population tout en énumérant les principales sources d'information pour chaque région. De plus, elles identifient les facteurs climatiques à considérer dans l'élaboration de divers projets et activités, tels que le transport maritime, l'exploitation pétrolière et gazière en haute mer, la pêche et le canotage.

Vous pouvez obtenir ces brochures et d'autres informations en communiquant avec le Centre climatique canadien, Environnement Canada, 4905, rue Dufferin, DOWNSVIEW (Ontario) M5H 5T4. Pour ce qui est des publications sur des régions maritimes précises, il suffit d'écrire à l'une des adresses suivantes:

Atlantique
Environnement Canada
Service de l'environnement
atmosphérique
1496, avenue Bedford Highway
HALIFAX (Nouvelle-Ecosse)
B4A 1E5

Pacifique
Environnement Canada
Service de l'environnement
atmosphérique
1200, 73e avenue ouest, pièce 700
VANCOUVER (Colombie-Britannique)
V6P 6H9

Arctique
Environnement Canada
Service de l'environnement
atmosphérique
Centre Argyll
6325, 103e rue
EDMONTON (Alberta)
T6H 5H6

(Reprinted from Environment Update, September 1983)

Environment Canada's Canadian Climate Center has published three booklets describing how to obtain climate data for Canada's offshore and coastal areas - data essential for planning activities in those areas. Entitled "Sources of Marine Climate Data", they appear in separate editions for each of Canada's three marine environments: Atlantic, Pacific and Arctic.

They identify climate data and services available to the marine community and list the principal sources of climate information within the region. They also identify climate factors that should be considered in design and operations ranging from marine transportation and offshore oil and gas development to pleasure boating and fishing.

Copies of all three booklets, and other information on climate, may be obtained from the Canadian Climate Centre, Environment Canada, 4905 Dufferin Street, Downsview, Ont., M5H 5T4. For publications covering specific marine areas, write to one of the following addresses:

Atlantic
 Environment Canada
 Atmospheric Environment Service
 1496 Bedford Highway Avenue
 Bedford, N.S.
 B4A 1E5

Pacific
 Environment Canada
 Atmospheric Environment Service
 Suite 700, 1200 West 73rd Avenue
 Vancouver, B.C.
 V6P 6H9

Arctic
 Environment Canada
 Atmospheric Environment Service
 Argyll Centre
 6325-103 Street
 Edmonton, Alta.
 T6H 5H6

NEWSLETTER SCHEDULE

It is planned that the C.M.O.S. Newsletter will be published five times per calendar year. Deadlines for the input to these issues will be approximately two weeks prior to the mailing dates, as listed below:

Mailing Dates	Press Deadlines
1st - February 28	February 14
2nd - June 30	June 15
3rd - August 31	August 15
4th - October 31	October 15
5th - December 31	December 10

Apologies from the Editor(s):

"By accident the calendar of activities as printed in the last issue of the newsletter (October, 1983 VII N5) was in fact of the C.A.P. office and not that of C.M.O.S. The following is the correct calendar:"

- January 2 - The Corresponding Secretary turns over lists of speakers and nominations from local Centres and Chapters to the Awards Committee.
- February 1 - Deadline for annual reports from Committees, including the Nominations Committee, and from Centres and Chapters.
- Deadline for receipt of nominations for Prizes and citations from the membership.
- Deadline for receipt of ballots for the LOGO design.
- February 15 - Deadline for receipt of report from the Awards Committee.
- The ballots for the choice of a LOGO will be counted.
- February 16 - Discuss Nominations Committee report. Reports as received are read and submitted to the Editor of the Congress issue of A-O.
- SECOND COUNCIL MEETING - 17 - The 1984-85 budget proposal will be finalized.
- March 1 - Corresponding Secretary mails to members:
 - a) a list of members of current Council
 - b) the report of the Nominating Committee
 - c) a copy of the proposed By-Law Amendments
 - d) the notice of the AGM
 - e) a copy of By-Law 4d.

March 20 - Late reports are discussed and submitted for the Annual Review.
 FIFTH EXECUTIVE MEETING

March 31 - Deadline for receipt of nominations of candidates for executive positions from members.

April 13 - Ballots to be mailed to membership for election of officers if necessary.

May 8 - The Executive prepares for Congress and the AGM.
 SIXTH EXECUTIVE MEETING

May 15 - Deadline for receipt of ballots by Recording Secretary.

May 25 - Ballots counted.

May 29 - Congress begins.

Notes Notice of a motion to amend by-laws must be received by the Corresponding Secretary at least 8 weeks before the AGM and the membership must be informed at least 5 weeks before the AGM.

The February Newsletter will carry information on the Congress. The April issue will carry details on the AGM, Council meeting and Committee meetings.

CHINOOK ADVERTISING INFORMATION

GENEQ INC.

Established 1978.

Published by Weather Enterprises, Box 427, Brampton, Ontario L6V 2L4, Phone: (416) 459-2446

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1/2 Page	400	495	800
1/3 Page	295	390	700
1/4 Page	220	330	
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Double Page Spread	1,000	1,110	1,500

Discounts: 2 ti. 5%; 3 ti. 10%; 4 ti. 15%

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Pubr. & Editor: Michael J. Newark

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Montréal, Québec
Canada H1J 1H5
Tél: (514) 354-2511 Téléc: 05-829568

ATMOSPHERE-OCEAN
ADVERTISING RATES

Atmosphere-Ocean is the scientific journal of the Canadian Meteorological and Oceanographic Society. It is published quarterly in March, June, September and December and has a circulation of about 1200.

	Full Page	Half Page
Trim size	6 1/2" X 9 1/2"	
Full page	4 5/8" X 7 3/4"	
Camera ready copy	\$250	\$150
Typesetting charges if required	\$100	\$ 75

Discounts: Four consecutive issues 15%
Sustaining members of CMOS 25%

Forward Advertisements to:

Mr. E.J. Truhlar, ACRE
Technical Editor CMOS
Atmospheric Environment Service
4905 Dufferin Street
Downsview, Ontario
M3H 5T4

CMOS - SCMO

Suite 805

151 Slater St.

Ottawa, Ontario, Canada

K1P 5H3

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