



Canadian Meteorological
and Oceanographic
Society

La Société Canadienne
de Météorologie et
d'Océanographie

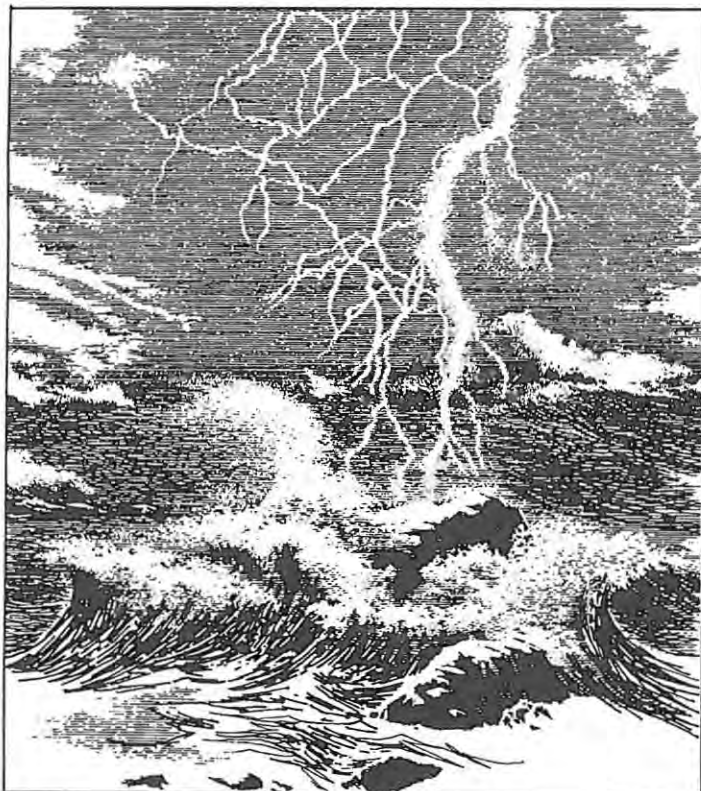
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SEVERE WEATHER AND ITS IMPACT



JUNE 7 - 10

ROYAL
CONNAUGHT
HOTEL

HAMILTON

ONTARIO

**IMPORTANT NOTICE TO COMMITTEES, SPECIAL INTEREST
GROUPS, EDITORIAL BOARDS, CENTRES AND CHAPTERS**

Reports on activities during 1987 were due on February 1, 1988. If they have not yet been submitted they should be sent urgently to the Editor of the Annual Review, Mr. E. Truhlar, AES Downsview, Ontario, (Telephone: 416 - 739-7413, Telemail: 416 - 739-4521) if possible in English and French.

If Council approval of changes to Committee/Board memberships or terms of reference is required and proposals have not yet been submitted, they should be sent to the Corresponding Secretary as soon as practicable, together with the names of candidates who have confirmed their willingness to serve.

U. Schwarz
Executive Director

**AVIS IMPORTANTE AUX COMITES, GROUPES D'INTERETS
PARTICULIERS, CONSEILS DE REDACTION, CENTRE ET
SECTIONS**

Les rapports sur les activités en 1987 étaient dus le 1 février 1987. S'ils ne sont pas encore soumis, il faut les envoyer immédiatement aux Editeurs de la Revue annuelle, M. E. Truhlar, AES Downsview, Ontario, (Tél: 416 - 739-7413, Telemail: 416 - 739-4521) si possible en anglais et français.

S'il est nécessaire d'obtenir l'accord du Conseil concernant des changements de la composition des comités/conseil de rédaction ou de leurs mandats, ces propositions doivent être envoyées au secrétaire-correspondant aussitôt que possible. Les propositions doivent inclure les noms des candidats qui ont consenti à servir.

U. Schwarz
Directeur exécutif

SUMMARY OF THE REPORT OF THE TASK FORCE ON FUTURE OF CHINOOK TO THE FEBRUARY, 1987 CMOS COUNCIL

Task force members Susan Lally, John Loder and Mark MacNeil were given the following mandate:

"It is the philosophy of CMOS that its publications be self-supporting financially. In 1983, CMOS purchased Chinook, and it has been running at a loss ever since, in spite of valiant efforts by several members. A decision must be made as to whether to continue Chinook in some altered, more viable form, or to drop it. Therefore, the task force is asked to:

- (1) Examine the objectives of Chinook as stated in the summary of CMOS publications and elsewhere, and see if these objectives have been or could be attained.
- (2) Assess the potential for financial viability of Chinook.
- (3) Present a draft report to the January Executive No. 5 meeting.
- (4) Make final recommendations to the February Council meeting regarding whether to:
 - (a) Change Chinook in any way so as to make it a viable publication, or;
 - (b) Close it down."

SUMMARY AND RECOMMENDATIONS:

The task force concluded that, although Chinook is presently contributing towards some of its stated objectives, it cannot be considered that these objectives are being achieved. Furthermore, there is some doubt that the magazine in its present format and with its present organizational structure (i.e. without paid promotional staff) is likely to achieve these objectives. The task force would like to re-iterate that Chinook is unlike other CMOS publications because it must survive in the competitive world of magazine publishing. Thus, it is appropriate that the Society seriously consider alternatives for achieving these objectives. The task force felt, however, that the extent to which the Society should financially support a publication with Chinook's objectives is a matter which should be

decided by the membership after they have been informed of the financial implications and potential for success of various options.

The task force identified six options, not necessarily mutually exclusive. These options were:

- (1) Status Quo.
- (2) High quality glossy magazine supported by an endowment fund.
- (3) Newsletter aimed at high school students with free distribution.
- (4) Merger with CMOS newsletter.
- (5) Regular contribution to another magazine like Canadian Geographic.
- (6) Disbandment of Chinook.

Each option was presented itemizing CMOS requirements/commitments and listing pros and cons. It was suggested that the CMOS Executive and Council identify the leading options for the membership's consideration and discussion, taking into account the task force's comments, the Society's financial status, professional advice where appropriate on the cost and probability of success of the various options, the response to present promotional efforts and other relevant input.

PROGRESS REPORT ON CHINOOK

The task force on the future of Chinook was convened by last year's Council and its report was received one year ago. On the basis of this report, Council proposed to the 1987 Annual General Meeting that a mail ballot be distributed to the membership to decide whether to continue publishing after the end of 1987.

After spirited discussion at the 1987 Annual General Meeting, motions from the floor instructed Council to continue publishing Chinook, not to distribute a mail ballot, and to make every effort to bring the cost to the Society down to \$5000 per year. (These motions will appear in the 1987 AGM minutes in the forthcoming Annual Review issue of this Newsletter.)

Since the publication year was well advanced at the time of the AGM, economies in the production of Chinook have had little impact on the 1987 budget. The net cost to the Society was \$19,110, with revenues of \$15,577 and expenditures of \$34,687. This compares with net costs of approximately \$8,000 in 1983 and 1984, and \$15,000 in 1985 and 1986.

During 1977 a bulk order for 550 subscriptions was received from AES, for distribution to selected volunteer weather observers, in addition to approximately 800 subscriptions received through regular channels. This provided a very welcome 69% increase in distribution, but the subscriptions were sold at a negotiated rate which did not substantially affect the net budget.

In the current year (1988) we have eliminated the promotion and advertising budget, noting that advertisements for Chinook subscriptions in publications such as the Canadian Geographical magazine have not been cost-effective. We will reduce the number of pages per issue and eliminate colour printing except for the front and back covers, bringing the estimated printing and distribution cost down to \$4,000 per issue. We are reducing the portion of CAP office services charged to Chinook and are negotiating with CAP to reduce the fee for processing non-member subscriptions. Finally, we are negotiating with AES to renew their bulk subscription order at the prevailing non-member rate. With all these changes in place we are able to budget for total revenues of \$14,800 and total expenditures of \$18,600 for a net cost to the Society of \$3,800 in 1988, a more sustainable figure than in the recent past. These figures are subject to revision and may not be identical to those to appear in the Annual Review issue.

The AGM motion also committed individual members to take up the task of selling Chinook subscriptions in their local areas. If each member could sell only one new subscription per year (e.g. to local schools, libraries, etc.), we would see an increase in circulation of nearly 1000 copies per year and would soon have a profitable Chinook. Despite dedicated efforts by a few members, this has not yet been happening on a large scale. Members are reminded that there is still time to send in 1988 subscriptions, and for their convenience a subscription form is reproduced in this issue.

SUBSCRIPTION ORDER

Please enter my subscription to Chinook for one year (1987, 4 issues) at the following rate (please check one):

- | | |
|--|---------|
| <input type="checkbox"/> CMOS Member | \$10.00 |
| <input type="checkbox"/> Non-member Individual | \$12.00 |
| <input type="checkbox"/> Institution | \$15.00 |

Name _____ (PLEASE PRINT)

Address _____ (PORTAL CODE)

School or University (if student) _____

Mail with payment to CMOS, Suite 903, 151 Slater Street, Ottawa, Ontario K1P 6H3.

This is a ☐ NEW order; a ☐ subscription renewal. \$ _____ is enclosed.

Back issues: \$3.00 each; 10 or more: \$2.50

ABONNEMENT

Je désire m'abonner à Chinook pour une année (1987, 4 numéros) au tarif suivant (veuillez cocher):

- | | |
|--|----------|
| <input type="checkbox"/> Membre de la SCMO | 10,00 \$ |
| <input type="checkbox"/> Non-membre | 12,00 \$ |
| <input type="checkbox"/> Institution | 15,00 \$ |

Nom _____ (EN MAJUSCULES S.V.P.)

Adresse _____ (CODE PORTAL)

École ou université (pour étudiant) _____

Envoyez votre paiement à la SCMO, Suite 903, 151, rue Slater, Ottawa (Ontario), K1P 6H3.

Premier abonnement ☐

Renouvellement d'abonnement ☐

Numéros épuisés: 3,00 \$ chacun; pour 10 ou plus: 2,50 \$ chacun

J'inclus _____ \$

NOTICE TO ALL MEMBERS

In accordance with By-Law 7(b), Meetings, of the Canadian Meteorological and Oceanographic Society, I am giving notice that the Annual General Meeting will be held on Tuesday, June 7, 1988 at 7:00 P.M. in the Aberdeen Room of the Royal Connaught Hotel, Hamilton. This meeting will include those items listed under By-Law 10(c):

1. To receive and consider the reports of Council, the auditor, the ballot counters, the Committees, the Centres, the Chapters, the Editorial Boards and the Special Interest Groups.
2. To approve the annual budget of the Society.
3. To establish the membership fees for the next calendar year.
4. To discuss and determine such other questions as may be proposed relating to the affairs of the Society.
5. To install new officers for the ensuing year.

The agenda for the Annual General Meeting will be published in the Annual Review which will be mailed to all members before the AGM.

Donald J. Lawrence
Corresponding Secretary

CORRECTIF

La Constitution et les Règlements du SCMO

La Constitution et les Règlements du SCMO suivant* ont été approuvés à l'Assemblée Générale Annuelle de St-Jean, Terre Neuve, le 17 juin 1978. Les changements sur la version précédente de la Constitution et des Règlements établis par cette Assemblée ont reçu l'approbation Ministerielle (Consommation et Corporations Canada) le 20 août 1987. Le département, cependant, a demandé qu'un nombre de changements sera requis pour les mettre en ligne avec les nouvelles directives établies pour les Sociétés sans profits. Ces changements seront faits de la manière usuelle pour les amendements à la constitution et aux Règlements du SCMO, c'est-à-dire, circulation aux membres et soumission subséquent à l'Assemblée Générale Annuelle de 1988. Donc, les membres sont invités à conserver cet exemplaire du Bulletin de Nouvelles comme matériel de référence pour les changements qui seront proposés.

URI SCHWARZ
Directeur exécutif

*Publiés dans Nouvelles SCMO
dec. 1987 (Vol. 15, N° 6)

AVIS A TOUS LES MEMBRES

Conformément au Règlement 7(b) de la Société de météorologie et d'océanographie, je donne l'avis que l'Assemblée générale annuelle aura lieu mardi, le 7 juin, 1988 à Hamilton, dans la Salle Aberdeen d'Hotel Royal Connaught, à 1900 h. Cette assemblée examinera les points contenus dans l'Article 10(c), qui sont:

1. De prendre connaissance des rapports du Conseil d'administration, du (des) vérificateur(s), des scrutateurs, des Comités, des Centres, des Chapitres, des Comités de rédaction, et des Comités d'intérêts spécial.
2. D'approuver le budget annuel de la Société.
3. De fixer les montants des cotisations pour la prochaine année civile.
4. De discuter et de prendre des décisions sur les questions concernant les affaires de la Société.
5. De procéder à la l'investiture des administrateurs élus pour l'année suivante.

L'ordre du jour pour l'Assemblée générale annuelle sera publié dans la Revue générale qui sera posté à tous les membres avant l'AGA.

Donald J. Lawrence
Secrétaire-correspondant

NOTICE TO ALL MEMBERS

In accordance with By-Law 10(d) of the Canadian Meteorological and Oceanographic Society, I am providing you with:

1. The list of members of the current Council.
2. A list of nominations for 1988/89 made by the Nominating Committee.
3. Notification that nominations for Council will be received in accordance with By-Law 10(d)

Donald J. Lawrence
Corresponding Secretary

AVIS A TOUS LES MEMBRES

Selon les termes de l'Article 10(d) des Règlements de la Société de météorologie et d'océanographie, je vous fais parvenir:

1. La liste des membres du Conseil en cours.
2. La liste des mises en candidature pour 1988/89 telle que rédigée par le Comité des mises en candidature.
3. Notification que des mises en candidature pour le Conseil sera reçu selon les termes de l'Article 10(d).

Donald J. Lawrence
Secrétaire-correspondant

The Council of the Canadian Meteorological and Oceanographic Society for 1987/88 consists of:

President
Vice-President
Treasurer
Corresponding Secretary

Recording Secretary

Past President
Councillors-at-large

Local Centre Chairmen

Dr. Stuart Smith
Dr. Jim Young
Mr. J.M. Raymond St-Pierre
Dr. Donald J. Lawrence

Mr. Mark Mac Neil

Mr. William S. Appleby
Mr. Carr McLeod
Mr. Jean-Guy Cantin
Ms. Ann Gargett

Elected locally

Le Conseil de la Société canadienne de météorologie et d'océanographie pour 1987/88 se compose comme suit:

Président
Vice-Président
Trésorier
Secrétaire
correspondant
Secrétaire
d'assemblée
Président sortant
Conseillers

Présidents Régionaux
(élu localement)

The nominations for Council for 1988/89 are:

President
Vice-President
Treasurer
Corresponding Secretary

Recording Secretary

Past President
Councillors-at-large

Local Centre Chairmen

Auditor

Dr. Jim Young
Dr. Han Ru Cho
Mr. Bruno de Lorenzis
Mr. H.N. Kagawa

Mr. W.M. Schertzer

Dr. Stuart Smith
Mr. Fred Herfst
Dr. Carl Anderson
Dr. Vladimir Koutitonsky

Elected locally

Touche Ross & Co.
3140 Young St.
Toronto, Ont.

Mises en Candidature pour le Conseil pour 1988/89:

Président
Vice-Président
Trésorier
Secrétaire
correspondant
Secrétaire
d'assemblée
Président sortant
Conseillers

Présidents Régionaux
(élu localement)
Vérificateur

Proposed Amendments to CMOS By-Laws

The following proposed amendments consist primarily of those required by the Department of Consumer and Corporate Affairs to meet new Department guidelines for non-profit corporations. They deal mainly with the manner of holding Council and Executive meetings and with the remuneration and removal of elected and appointed officers. A small number of other amendments, proposed at the request of the CMOS Council, are also included and are marked "C". The amendments will be considered by the 1988 Annual General Meeting. (Note: The amendments refer to the CMOS By-Laws as amended by the 1987 Annual General Meeting and published in the December 1987 Newsletter (Vol. 15, No. 6).

BY-LAW 1 - Memberships

Amend second sentence of h) to read: "Council has the power to reject applications or remove members for cause, after giving the member to be removed an opportunity to express his or her views."

BY-LAW 3 - Publications

Amend c) to read: "The Society shall publish other publications, such as the Program and Abstracts for the Annual Congress, as required by the Council." (C)

BY-LAW 4 - Centres

Amend a) to read: "Upon receipt Council may, at its discretion, create a Centre at a location in Canada or in Canadian territory (e.g. a Canadian Forces base abroad), for the reading (rest unchanged)." (C)

BY-LAW 5 - Chapters

Amend a) to read: "In locations create a Chapter at a location in Canada or in Canadian territory (e.g. a Canadian Forces base abroad), for the purpose of reading (rest unchanged)." (C)

BY-LAW 11 - Appointed Officers

Amend a) to read: "Council shall appoint an Executive Director and a Director, CMOS Publications and determine their terms of office."

BY-LAW 12 - Removal of Officers

Amend to read: "Officers of the Society, including Chairmen and members of Committees and Editorial Boards, and Chairmen and Officers of Centres, Chapters and Special Interest Groups may be removed appointed them, after the Officer concerned had been given an opportunity to express his or her views."

BY-LAW 13 - Remuneration of Officers

Amend a) to read: "Except for the Executive Director, the Director, CMOS Publications and the Chairman and members of the Accreditation Committee, all other Officers of the Society, including the Chairmen and members of all other Committees and of Editorial Boards, and the Chairmen and other Officers of Centres, Chapters and Special Interest Groups, shall not be remunerated ... (rest unchanged)."

BY-LAW 14 - Council

Add the following at the end of present paragraph b): "Time and place of Council meetings, together with a proposed agenda, shall normally be disseminated to Council members at least two weeks before each meeting. The requirement for such notice may however be waived by members attending the meeting."

Proposition de changements aux règlements de la SCMO

Les changements suivants sont principalement ceux qui ont été exigés par les directives du Ministère de la consommation et des corporations pour les sociétés sans but lucratif. Elles concernent surtout la manière d'organiser les réunions du conseil d'administration et du bureau d'administration, et la rémunération et le renvoi des membres élus et nommés. Quelques changements, proposés à la requête du conseil, ont été inclus, et sont indiqués par "C". Les amendements seront considérés par l'assemblée générale annuelle 1988. (Note: les changements réfèrent aux règlements de la SCMO, tels que modifiés par l'assemblée générale annuelle de 1987, et publiés dans le bulletin de nouvelles de décembre 1987, Vol. 15, No. 6).

RÈGLEMENT 1- Adhésion

Modifier la deuxième phrase du b) pour lire: "Le conseil a le pouvoir de refuser une demande d'adhésion ou de renvoyer un membre pour juste cause, après avoir donné au membre l'occasion d'exprimer ses opinions."

RÈGLEMENT 3 - Publications

(Pas de changement dans le texte français).

RÈGLEMENT 4 - Centres

Modifier a) pour lire: "Aussitôt qu'une demande ..., le conseil d'administration peut, à sa discrétion, créer un centre situé au Canada ou en territoire Canadien (e.g. base des forces canadiennes à l'étranger), dédié à la lecture ... (la reste ne change pas)." (C)

RÈGLEMENT 5 - Sections

Modifier a) pour lire: "Aux endroits ..., créer une section située au Canada ou en territoire Canadien (e.g. base des forces canadiennes à l'étranger) ayant pour but la lecture ... (le reste ne change pas)." (C)

RÈGLEMENT 11 - Membres désignés de bureau

Modifier a) pour lire: "Le conseil d'administration désigne un directeur exécutif et un directeur commercial des publications de la SCMO, et décide des modalités de leur fonction."

RÈGLEMENT 12 - Renvoi des membres de bureau

Modifier pour lire: "Les membres de la société, comprenant le président et les membres des comités de rédaction, et les présidents et les membres des centres, des sections, et des groupes d'intérêt spéciaux, peuvent être renvoyés ... les a élus ou désignés, après que le membre en question ait eu une occasion d'exprimer ses opinions."

RÈGLEMENT 13 - Rémunération des membres de bureau

Modifier a) pour lire: "A l'exception du directeur exécutif et du directeur, publications SCMO, et le président et les membres du comité d'Accréditation, tous les autres membres de la société, comprenant le président et les membres des autres comités et du conseil de rédaction, et le président et les membres des centres, des sections, et des groupes d'intérêts spéciaux, ne sont pas rémunérés pour leurs fonctions ... (le reste ne change pas)."

RÈGLEMENT 14 - Le conseil d'administration

Ajouter ce qui suit à la fin du paragraphe b) existant: "L'heure et l'endroit de la réunion du conseil d'administration, avec l'ordre du jour proposé, seront distribués régulièrement aux membres du conseil au moins deux semaines avant chaque réunion. Les membres présents à la réunion peuvent décider d'annuler cette procédure."

Add the following at the end of present paragraph d): "Also, a Councillor may participate in a Council meeting by conference call if all Council members present at the meeting agree."

Amend h) to read: "Councillors shall have equal voting rights; those holding more than one office concurrently are entitled to only one vote at Council. An affirmative vote of a majority of the members present shall be required for the resolution of any question. In the event of a tie the Chairman, who does not normally vote, shall cast the deciding vote."

BY-LAW 15 - The Executive

Amend b) to read: "To facilitate meetings of the Executive and day-to-day business, Executive members are normally located in one or more nearby Centres or Chapters for three to four years after which a different area is chosen for the location of the Executive." (The remainder of this paragraph is to be divided into two paragraphs as shown below.)

New paragraph c): "The Executive meets as often as it deems necessary. Time and place of Executive meetings, together with a proposed agenda shall be disseminated to Executive members at least one week before each meeting. The requirement for such notice may however be waived by members attending the meeting."

New paragraph d): "Voting rights and procedures shall be the same as those for the Council, and conference call meetings or participation by conference call by individual members shall be permitted under the same terms as for the Council."

Re-number present paragraphs c) and d) as e) and f).

APPENDIX I TO BY-LAWS

Amend a) to read: "The President's Prize for a recent paper or book of special merit oceanography. The paper must have been accepted for publication in ATMOSPHERE - OCEAN, THE CLIMATOLOGICAL BULLETIN, or another refereed journal." (C)

FLOATING ICE SPECIAL INTEREST GROUP

Dr. Simon Prinsenberg of the Bedford Institute of Oceanography has been appointed chairman of the Floating Ice SIG for a 3 year term. The outgoing Chairman, Prof. John Lewis of Memorial University of Newfoundland, has tendered his resignation because he finds that growing involvement as one of the principals of a consulting firm has monopolized all of his time and effort not devoted to academic work.

Dr. Prinsenberg, formerly with Canada Centre for Inland Waters in Burlington is presently studying the movement of ice off Newfoundland and Labrador. He has also conducted a number of physical oceanographic studies in ice-covered waters of Hudson's Bay and the channels of the Arctic Islands.

Members with an interest in ice are asked to attend the Floating Ice SIG meeting during the 22nd Congress in Hamilton (June 7-10) and to contribute ideas for future activities of the SIG. In particular, the date, location and subject matter of a future Sea Ice Workshop will be on the agenda. (The Canadian East Coast Workshop on Sea Ice, held at Bedford Institute of Oceanography in June 1985, was co-sponsored by CMOS.)

Ajouter ce qui suit à la fin du paragraphe d) existant: "Un membre du conseil peut participer à la réunion par conférence téléphonique si tous les membres du conseil présents à la réunion sont d'accord."

Modifier h) pour lire: "Les membres du conseil auront le même droit de vote; ceux qui détiennent plus d'un poste à la fois n'ont droit qu'à un vote au conseil. Un vote positif de la majorité des membres présents sera nécessaire pour toute décision. Si il y a égalité des votes, le président, qui n'a pas d'habitude le droit de vote, tranchera."

RÈGLEMENT 15 - Le bureau d'administration

Modifier b) pour lire: "Pour faciliter les réunions de l'exécutif et les affaires courantes, les membres exécutifs seront basés dans des centres ou des sections voisines pendant trois ou quatre années, puis une nouvelle région est choisie pour l'exécutif." (le reste du paragraphe est séparé en deux, comme suit).

Nouveau paragraphe c): "L'exécutif se réunit aussi souvent qu'il le juge nécessaire. L'heure et l'endroit des réunions avec l'ordre du jour proposé, seront distribués aux membres au moins une semaine à l'avance. Les membres présents à la réunion peuvent décider d'annuler cette procédure."

Nouveau paragraphe d): "Le droit de vote et ses procédures seront les mêmes que ceux du Conseil d'administration, et les réunions ou la participation des membres par appel conférence seront autorisées de la même façon qu'au conseil."

Les paragraphes c) et d) existants deviendront e) et f).

APPENDICE I AUX RÈGLEMENTS

Modifier a) pour lire: "Le prix du président ... pour une excellente communication ou un livre de grande valeur ... ou océanographie. La communication doit être approuvée pour publication dans ATMOSPHERE-OCEAN, le Bulletin climatologique ou tout autre journal expertisé."

Welcome to the XXIInd Annual Congress of the Canadian Meteorological and Oceanographic Society, to take place in Hamilton, Ontario at the Royal Connaught Hotel in early June, 1988. Accommodation is available at the Royal Connaught Hotel as well as at other nearby hotels located in Hamilton's downtown core. The theme of this year's congress, severe weather and its impact, will be of interest to us all.

SEVERE WEATHER - AND ITS IMPACT

Severe weather strikes every corner of Canada. In summer we experience tornadoes, thunderstorms and hail while in winter we are hit by blizzards, freezing precipitation and savage winds. Although the associated moisture is often beneficial, severe weather can lead to the destruction of property and the loss of life. Much has been learned over the past few decades about the basic processes responsible for severe weather but our knowledge is far from complete. Let us review the progress that has been made towards understanding severe weather and its impact on the land and water and point out the steps required for further progress.

THE VENUE

The steel capital in the heart of the Golden Horseshoe surrounding the western end of Lake Ontario and with a population of 300,000, Hamilton is a bustling commercial and industrial centre. Besides such outstanding natural attractions as Niagara Falls and cultural centres such as Niagara-on-the-Lake found nearby, of particular interest are McMaster University in Hamilton, the Canada Centre for Inland Waters, Burlington, at a distance of 25 km, and the Atmospheric Environment Service Headquarters at Downsview at a distance of 85 km. Hamilton in June enjoys an average daily maximum temperature of 24° and the least precipitation of any but the winter months. The site of Congress 88 is the historic Royal Connaught Hotel located conveniently in the middle of downtown Hamilton close to business, shopping, dining and theatre districts. Hamilton is well served by public transportation; by air it may be reached both from its municipal airport, Mount Hope, or from Pearson International (Toronto) by hourly limousine service. Buffalo Airport is 100 km by road.

INVITED SPEAKERS

The invited speakers will provide Congress attendees with several perspectives related to the theme. The climatology of severe weather in Canada will be presented by **Mr. M. Newark** (Atmospheric Environment Service, Downsview). Mesoscale observations and forecasting of severe weather will be presented by three speakers. **Mr. C. Crozier** (AES, Downsview) will discuss the King City Doppler radar facility and its usefulness in detecting severe weather, **Dr. L. Lemon** (UNISYS, Independence, Missouri) will discuss mesoscale vortices within summer severe storms and their detection, and **Mr. A. Wallace** (AES, Edmonton) will present information on the meteorology and the tragic consequences of the Edmonton tornado.

Bienvenue au 22^e congrès annuel de la Société canadienne de météorologie et d'océanographie, qui se tient début juin 1988 à l'hôtel Royal Connaught de Hamilton, Ontario. On peut loger à l'hôtel même, ou à d'autres hôtels proches situés dans le centre-ville. Le thème du congrès 1988, Le temps violent et ses répercussions, sera d'un grand intérêt pour nous tous.

LE TEMPS VIOLENT ET SES RÉPERCUSSIONS

Le temps violent peut frapper partout au Canada. En été, se produisent les tornades, les orages et la grêle; en hiver, nous sommes assaillis par les tempêtes de neige, les gels et les vents violents. Bien que ces intempéries apportent souvent une humidité souvent utile, elles peuvent aussi entraîner des dégâts matériels et des décès. Ces dernières décennies nous ont beaucoup appris sur la formation des intempéries, mais nos connaissances sont encore loin d'être complètes. Examinons les progrès récents sur notre compréhension du mauvais temps, ses répercussions sur les surfaces couvertes et non couvertes d'eau, ainsi que les étapes nécessaires à une amélioration de la situation.

LE LIEU

Capitale de l'industrie sidérurgique canadienne, à la pointe ouest du lac Ontario, et avec une population de 300 000 habitants, Hamilton est un important centre commercial et industriel. Outre les extraordinaires attractions naturelles, telles les chutes du Niagara, et les centres culturels tout proches, comme Niagara-on-the-Lake, se trouvent aussi l'Université McMaster de Hamilton, le Centre canadien des eaux intérieures à Burlington, à 25 km, et le Service de l'environnement atmosphérique à Downsview, à 85 km. En juin, la moyenne de température diurne à Hamilton est de 24°C, et les précipitations sont au minimum. Le site du Congrès 88 sera à l'hôtel historique Royal Connaught, situé au centre ville de Hamilton, près des entreprises, magasins, restaurants, cinémas, etc. La ville est bien desservie par les transports publics; par avion, on peut s'y rendre depuis son aéroport municipal de Mount Hope, ou l'aéroport international Pearson de Toronto avec transfert toutes les heures par limousine. L'aéroport de Buffalo est à 100 km par la route.

INVITÉS

Les orateurs invités proposent aux participants plusieurs exposés sur le thème général. La climatologie du temps violent sera présentée par **M. M. Newark** (du Service de l'environnement atmosphérique, à Downsview). Les observations à moyenne échelle et les prévisions du temps violent seront présentées par trois scientifiques: **M. C. Crozier** (du SEA de Downsview), qui parlera de l'installation radar à effet Doppler de King City et de son utilité dans la détection du temps violent; **Dr L. Lemon** (UNISYS, à Independence, Missouri), dont le sujet sera les tourbillons à moyenne échelle dans les forts orages d'été, et leur détection; et **M. A. Wallace** (du SEA d'Edmonton) qui discutera de la météorologie et des tragiques conséquences de la tornade d'Edmonton. Les maquettes et les études de synthèse feront l'objet des exposés de **Dr W. Cotton** (Université d'État du Colorado), qui parlera de la simulation numérique des orages d'été, et de **Dr L. Ucellini** (NASA Goddard), qui se concentrera sur ce qui se passe pendant de tels orages.

Modelling and synthesis studies will be the focus of presentations by Dr. W. Cotton (Colorado State University) who will discuss the numerical simulation of summer severe storms and by Dr. L. Ucellini (NASA Goddard) who will focus on the processes occurring within severe winter storms. The impact of severe weather will be illustrated by Dr. A. Davenport (University of Western Ontario) in his presentation on the destructive power of strong winds and by Dr. T. Murty (Institute of Ocean Sciences) in his presentation of the dependence of sea state on severe weather.

This range of severe weather topics will provide the attendees with an appreciation of current scientific issues, forecasting capabilities, and destructive consequences. Progress in improving our prediction and response to such extreme weather events will be enhanced through the interaction of these complementary areas.

SCIENTIFIC SESSIONS

The agenda of the Congress is presently being formulated, and it will be finalized by early March. Authors will be notified shortly thereafter as to the disposition of their papers. Additional enquiries concerning the agenda should be directed to Dr. R.E. Stewart (416-739-4608) at the Atmospheric Environment Service, Downsview.

TRANSPORTATION

AIR CANADA is the official airline for the XXII CMOS Annual Congress. AIR CANADA is offering a convention fare which is 20% off the regular economy fare for travel within Canada and 25% off the regular economy fare for travel between Canada and United States. Delegates who qualify for other fares that represent greater savings will have their reservations confirmed at the lowest fare available. To take advantage of this great offer delegates or their travel agents are asked to call the AIR CANADA CONVENTION CENTRAL toll free number 1-800-361-7585 from Canada and USA. Please specify "Convention #25 - 1988 CMOS Congress".

IMPORTANT NOTE: For every 30 reservations made through Convention Central, AIR CANADA will provide CMOS with 1 complimentary economy class ticket to/from any AIR CANADA serviced destination within Canada and USA. These tickets will be used to assist students to travel to the Congress. You are therefore urged to book your seats through Convention Central.

Congress attendees disembarking at Pearson International Airport in Toronto may reach the Royal Connaught Hotel directly by the airport bus for \$14.75 or by private limousine services, such as Airways Transit at (416) 689-4460. The airport bus to Hamilton runs at near-hourly intervals. For those arriving by automobile public parking is available close to the congress site.

Les répercussions du temps violent seront illustrées par Dr A. Davenport (Université Western Ontario), qui commentera la force destructrice des vents violents, et par Dr T. Murty (Institut des sciences océaniques), qui parlera de la dépendance de l'état marin sur le temps violent.

Toutes ces questions sur le temps violent donneront aux participants une bonne idée des problèmes scientifiques actuels, des possibilités de prévisions et des conséquences désastreuses du temps violent. Ces exposés nous permettront à long terme d'améliorer nos prédictions et mieux faire face au temps violent.

SESSIONS SCIENTIFIQUES

Nous mettons au point le programme du congrès, qui devrait être prêt début mars. Peu de temps après, il sera indiqué aux auteurs où ils doivent envoyer leurs exposés. Pour toute autre question sur le programme, consulter Dr R. E. Stewart (416-739-4608), au SEA de Downsview.

TRANSPORT

AIR CANADA représente la compagnie aérienne officielle pour le 22^e congrès annuel de la SCMO. AIR CANADA offre, sur la classe économique régulière, des rabais de 20% pour les vols à l'intérieur du Canada, et de 25% pour ceux entre le Canada et les É.-U. Pour tout délégué pouvant bénéficier d'un tarif plus économique, la réservation sera confirmée au tarif le plus faible. Pour profiter de ces rabais, le délégué ou son agence de voyage doit appeler le SERVICE DES CONGRÈS D'AIR CANADA (AIR CANADA CONVENTION CENTRAL), gratuitement au 1-800-361-7585, à partir du Canada ou des É.-U., en indiquant: «Congrès n° 25 - Congrès 1988 de la SCMO».

IMPORTANT: Pour chaque total de 30 réservations effectuées par l'intermédiaire du Service des congrès, Air Canada offrira à la SCMO un billet gratuit de classe économique de/vers n'importe quelle destination desservie par Air Canada au Canada et aux É.-U. Ces billets permettront à des étudiants de se rendre au congrès. Nous vous encourageons donc à réserver par l'intermédiaire du Service des congrès.

Les participants au congrès arrivant à l'aéroport international Pearson de Toronto peuvent se rendre au Royal Connaught par l'autobus de l'aéroport, au prix de 14,75 \$, avec transfert presque toutes les heures, ou par service de limousine privé, tel Airways Transit, tél. (416) 689-4460. Un parc de stationnement est également disponible près de l'hôtel.

AIDE POUR LA PARTICIPATION DES ÉTUDIANTS

La SCMO aidera à nouveau plusieurs étudiants à participer au congrès. Air Canada propose un billet gratuit pour chaque total de 30 réservations effectuées par l'intermédiaire de son Service des congrès. De plus, la Société a prévu des fonds pour le voyage et le logement des étudiants, sur la base de leurs résumés et du manque d'autres fonds en vue de leur participation.

Tout étudiant désirant bénéficier d'aide pour son voyage doit remplir la Demande d'aide prévue dans ce bulletin et l'envoyer, accompagnée de son résumé, avant le 1^{er} avril 1988, au Comité local de la SCMO.

STUDENT ATTENDANCE ASSISTANCE

CMOS will once again assist a select number of students to attend this year's Congress. Air Canada will provide one free return ticket for every 30 CMOS Congress delegates who book through AIR CANADA CONVENTION CENTRAL. In addition, the Society has allocated some funds to assist in travel and accomodation expenses. The allocation of these funds will be based on relevance of the students abstract and the lack of other funds to support his/her attendance.

Students wishing to apply for Air Fare Travel Assistance are asked to complete the Student Assistance Form in this Newsletter and send it with a copy of their abstract to the LAC Chairman by April 1, 1988.

SPONSORS TO DATE OF CMOS CONGRESS '88

Hamilton-Wentworth Region
Macdonald Dettwiler
Ontario Ministry of Natural Resources
World Weather Watch/The MEP Company
Concord Scientific Corp.
Arctec Canada Ltd.
Ontario Ministry of Environment

SOCIAL

A full schedule of social events has been planned for this year. These include an Ice-Breaker on Monday evening, the Patterson Luncheon on Tuesday, as well as wine and cheese in the evening, a tour to Niagara Falls and the famous Shaw Festival Wednesday evening, and the Congress Banquet on Thursday night. Details of the social program are given on a subsequent page of this newsletter. Spouses are encouraged to attend these social events.

The Niagara tour is a good opportunity to see one of the wonders of the world, enjoy a pleasant evening meal (at a restaurant of your choice) and attend a play at the internationally recognized Shaw Festival Theatre. The cost per person will be \$35.00, payable with your pre-registration by May 6. This price does not include dinner in Niagara Falls.

A substantial (but not exhausting) spousal tour program has been arranged for this year. The itinerary is reproduced on a separate page of this newsletter. The cost for the complete program (including two luncheons) is \$35.00 and is payable at the time of pre-registration. Please indicate on the pre-registration form whether your spouse will be participating in the program and include the fee (by May 6) with positive responses. It is important to note here that we need a minimum of 20 spouses pre-registered for the spousal program. In the event that we do not attract this number, it will be necessary to cancel the program.

COMMANDITAIRES ACTUELS DU CONGRÈS 1988 DE LA SCMO

Région de Hamilton-Wentworth
Macdonald Dettwiler
Ministère ontarien des Ressources naturelles
Veille météorologique mondiale/The MEP Company
Concord Scientific Corp.
Arctec Canada Ltd.
Ministère ontarien de l'Environnement

ACTIVITÉS SOCIALES

Cette année, de nombreuses activités sociales sont prévues, parmi lesquelles une réception de bienvenue le lundi soir, le déjeuner «Patterson Luncheon» le mardi midi et une réception vins-fromages le soir, une visite aux chutes du Niagara et au célèbre Shaw Festival le mercredi soir, ainsi que le banquet officiel le jeudi soir. Voir plus loin tous les détails du programme. Nous encourageons les conjoints à participer à ces activités sociales.

La visite à Niagara donnera l'occasion d'admirer l'une des merveilles naturelles du monde, de déguster un agréable dîner (au restaurant de votre choix) et d'assister à une pièce de théâtre du Shaw Festival, de renommée internationale. Coût par personne: 35 \$, à payer avec les frais d'inscription, avant le 6 mai. Ce prix ne comprend pas le dîner à Niagara Falls.

Un programme de visites important (mais pas fatigant) pour les conjoints a été prévu. Il est indiqué sur une page jointe à ce bulletin. Coût pour ce programme complet (y compris deux déjeuners): 35 \$, également à payer à l'inscription. Veuillez indiquer sur la demande d'inscription si votre conjoint participera à ce programme et, dans ce cas, inclure le montant prévu (avant le 6 mai). Important: Pour ce programme des conjoints, il faut un minimum de 20 conjoints. Si ce chiffre n'est pas atteint, le programme sera annulé.

L'hôtel Royal Connaught est situé dans le centre ville, qui fait l'objet d'une modernisation importante, stimulée par la présence du théâtre Hamilton Place et du Copps Coliseum. Le premier présente régulièrement des spectacles culturels de classe mondiale et sert de base à l'Orchestre Philharmonique de Hamilton; quant au dernier, on y présente des spectacles sportifs et des concerts. Côté restauration, plus de 70 restaurants du centre ville seront indiqués dans le guide spécial (disponible lors de l'inscription).

Hamilton est aussi réputée pour ses merveilleux Jardins botaniques royaux. Autres points d'intérêt: le château Dundurn (résidence de sir Allan Napier McNab), la Maison Whitehern (élégante résidence du 19^e siècle), le Musée et temple de la renommée du football canadien, la Galerie des beaux-arts de Hamilton, Wild Water Works (la première piscine à vagues et à ciel ouvert du Canada), et le Musée de l'aviation militaire canadienne.

The Royal Connaught Hotel is centrally located in a downtown area which is undergoing rapid modernization, stimulated by the presence of the internationally acclaimed Hamilton Place and Copps Coliseum. The former regularly hosts world-class cultural and entertainment events and is the home of the Hamilton Philharmonic Orchestra while the latter is well known for its sporting and concert activities. For your dining pleasure, there are more than 70 downtown restaurants listed in the Hamilton Dining Guide (which will be available at registration).

Hamilton is well known for its beautiful Royal Botanical Gardens - one of the few in the world with the 'Royal' designation. Other locations of interest are Dundurn Castle (home of Sir Allan Napier McNab), Whitehern (an elegant 19th century home), the Canadian Football Hall of Fame and Museum, The Art Gallery of Hamilton, Wild Water Works (Canada's first outdoor wave action pool), and the Canadian Warplane Heritage Museum.

The Visitor and Convention Services of the Regional Municipality of Hamilton-Wentworth will be represented at the congress by 'Lady Hamiltons', who will be able to assist attendees and their spouses with restaurant, theatre, sports, entertainment, etc. information and suggestions.

So that spouses do not feel abandoned at the hotel, the Congress has set aside boardroom number 5, where they can meet, socialize and perhaps organize their own private mini-tours. Coffee and tea will be available in the boardroom prior to the departures of the spousal tours.

Finally, the hotel pool boasts the largest indoor water slide in eastern Canada - come on and try it out!

EXHIBIT SPACE AVAILABLE

ATTENTION PROSPECTIVE EXHIBITORS

You are invited to exhibit your products and services before an anticipated gathering of more than 300 scientists from across North America. Five rooms at the Royal Connaught will be fitted with exhibit booths during the '88 Congress.

The rental fee for an exhibit booth is \$500 CAN and will include the cost of two Congress registrations and a ticket to the Ice Breaker, Wine and Cheese and Annual Banquet.

Each booth will have a table, chairs and a standard power outlet. Telephone/data links are available at cost. Rooms will be locked after hours.

Details concerning shipment of materials, setup times etc. will be sent with the fee receipt.

Complete and sign two copies of the following application form and mail to:

R. B. Saunders
CMOS '88 Exhibits Convenor
519 Cody Crescent
Newmarket, Ontario
Canada
L3Y 5L9

(416) 739-4981

Le service de tourisme de la Municipalité régionale de Hamilton-Wentworth mettra à disposition des hôtes «Lady Hamilton», pour aider les participants et leurs conjoints en matière de restaurants, théâtres, sports, spectacles, renseignements, conseils ...

Afin que les conjoint(e)s ne souffrent pas trop d'isolement à l'hôtel, le Congrès a réservé le salon n° 5 à leur intention, où ils (elles) pourront se rencontrer et éventuellement organiser leurs propres visites. Café et thé seront offerts dans ce salon, avant les départs des visites pour les conjoints.

Enfin, l'hôtel se targue d'avoir le plus grand toboggan aquatique intérieur dans l'Est du Canada; venez donc l'essayer.

ESPACE DISPONIBLE POUR L'EXPOSITION

À L'ATTENTION DES EXPOSANTS ÉVENTUELS

Vous êtes invités à présenter vos produits et services à un public qui devrait atteindre plus de 300 scientifiques de l'Amérique du Nord. Cinq salles de l'hôtel Royal Connaught seront munies de kiosques pour l'exposition commerciale pendant le congrès.

Le prix de location d'un kiosque est de 500 \$ CAN, qui comprend le prix de deux inscriptions au congrès, un billet pour la réception de bienvenue, la réception vins-fromages et le banquet officiel.

Chaque espace d'exposition aura une table, des chaises et une prise de courant électrique. Des lignes téléphoniques et de communications peuvent être fournies en payant leurs frais d'installation. Les salles seront fermées en dehors des heures de visite.

Les détails concernant l'expédition du matériel, les dates et heures d'installation, etc. seront envoyées avec le reçu de l'inscription.

Veuillez remplir et signer les deux exemplaires de la demande d'inscription et les envoyer à l'adresse suivante:

R. B. Saunders
CMOS '88 Exhibits Convenor
519 Cody Crescent
Newmarket, Ontario
L3Y 5L9

(416) 739-4981

SPECIAL MEETINGS

The following is a tentative list of meetings of committees and Special Interest Groups. For corrections or additions, please call the Carr McLeod at (416) 739-4909.

All meetings are at the Royal Connaught. Meeting room assignments will be noted in the front lobby of the hotel.

COMMITTEE/SIG	MEETING TIME
ACCREDITATION	Mon June 6 0900-1600
EDUCATION FOR OCEANOGRAPHY	Mon June 6 0900-1200
EDUCATION FOR METEOROLOGY	Mon June 6 0900-1200
MEMBERSHIP	TBA
PROFESSIONALISM	Mon June 6 1430-1630
SCIENTIFIC	Mon June 6 0900-1200
MESOSCALE SUB COMMITTEE	Mon June 6 1300-
AGRIC. AND FOREST MET. SIG	Tue June 7 1600-1800
AIR POLLUTION SIG	Mon June 6 1500-1700
FLOATING ICE SIG	TBA
HYDROLOGY SIG	Not meeting
OPERATIONAL METEOROLOGY SIG	Mon June 6 0900-1200
SCOR	Mon June 6 0900-1600
CMOS CENTRE CHAIRPERSONS	Mon June 6 1300-1600
ATMOSPHERE OCEAN EDITORIAL BOARD	Mon June 6 1300-1600
CLIMAT. BULLETIN EDITORIAL BOARD	Mon June 6 0900-1200
CHINOOK EDITORIAL BOARD	Mon June 6 1300-1600
CMOS NATIONAL COUNCIL	Mon June 6 1600-1700 and 2000-2400
ANNUAL GENERAL MEETING	Tue June 7 1900-2400

REGISTRATION

Pre-registration must be received before May 6, 1988. A \$10 CAN late registration surcharge will be imposed. Registration fees are \$90 CAN for CMOS members, \$110 CAN for non-members, \$40 CAN for retired members and student members.

The cost of the banquet is included in the basic registration fee (except for retired members and students registration). Extra tickets for the banquet, at \$25 each, can be purchased in advance or at the registration desk.

Delegates wishing to attend the Patterson Luncheon should pay an extra \$15 with their registration.

Those wishing to participate in the Niagara Falls/Shaw Festival Bus Tour should indicate this on the pre-registration form. Please indicate the number of persons and include payment (\$35 per person) with your pre-registration form.

Please indicate whether your spouse will participate in the Spousal Program and include the cost (\$35) with your pre-registration form.

SOCIAL PROGRAM

Monday, June 6 Ice-Breaker

7:00 - 10:00 p.m. Ice-breaker in the vicinity of the Connaught Square Room

Tuesday, June 7 Patterson Luncheon

12:30 - 2:00 p.m.

RÉUNIONS SPÉCIALES

Voici une liste préliminaire de réunions des comités et groupes d'intérêt particulier (SIG). Pour toute correction ou addition, veuillez appeler Carr McLeod au (416) 739-4909.

Toutes les réunions auront lieu au Royal Connaught. La répartition des salles sera indiquée dans le hall de l'hôtel.

COMITÉ/SIG	DATES ET HEURES
ACCREDITATION	Lun. 6 juin 0900-1600
ÉDUCATION POUR L'Océanographie	Lun. 6 juin 0900-1200
ÉDUCATION POUR LA MÉTÉOROLOGIE	Lun. 6 juin 0900-1200
SITUATION DES MEMBRES	À ANNONCER
PROFESSIONALISME	Lun. 6 juin 1430-1630
RÉUNION SCIENTIFIQUE	Lun. 6 juin 0900-1200
SOUS-COMITÉ MOYENNE ÉCHELLE	Lun. 6 juin 1300
MÉTÉO AGRIC. ET FOREST. - SIG	Mar. 7 juin 1600-1800
POLLUTION ATMOSPHERIQUE - SIG	Lun. 6 juin 1500-1700
GLACE FLOTTANTE - SIG	À ANNONCER
HYDROLOGIE - SIG	Pas de réunion
MÉTÉO OPÉRATIONNELLE - SIG	Lun. 6 juin 0900-1200
SCOR	Lun. 6 juin 0900-1600
PRÉSIDENTS DES CENTRES SCMO	Lun. 6 juin 1300-1600
RÉDACTION ATMOSPHERE - Océans	Lun. 6 juin 1300-1600
RÉDACTION BULLETIN CLIMATOL.	Lun. 6 juin 0900-1200
RÉDACTION CHINOOK	Lun. 6 juin 1300-1600
CONSEIL NATIONAL DE LA SCMO	Lun. 6 juin 1600-1700 et 2000-2400
ASSEMBLÉE GÉNÉRALE	Mar. 7 juin 1900-2400

INSCRIPTIONS

Les demandes d'inscription doivent être reçues avant le 6 mai 1988. Tout retard fera l'objet d'une pénalité de 10 \$ CAN. Frais d'inscription: 90 \$ CAN pour les membres de la SCMO, 110 \$ CAN pour les non-membres, 40 \$ CAN pour les membres retraités et étudiants.

Le coût du banquet est inclus dans les frais d'inscription (sauf pour les membres retraités et étudiants). D'autres billets pour le banquet, à 25 \$ l'unité, peuvent être obtenus à l'avance ou au bureau d'accueil.

Les délégués désirant participer au Patterson Luncheon doivent payer 15 \$ de plus, au moment de l'inscription.

Les personnes désirant participer à la visite en autobus des chutes du Niagara et du Shaw Festival doivent indiquer, sur la demande d'inscription, le nombre de personnes intéressées et inclure le paiement (35 \$ par personne) avec l'inscription.

Prière d'indiquer si le conjoint participera au Programme des conjoints; dans ce cas, inclure le montant de 35 \$ avec l'inscription.

PROGRAMME DES ACTIVITÉS SOCIALES

Lundi 6 juin

Réception de bienvenue - 19h00 à 22h00, près du salon «Square Room» du Royal Connaught.

Mardi 7 juin

- Déjeuner Patterson Luncheon - 12h30 à 14h00.
- Réception vins-fromages dans le salon «Square Room» - 17h00 à 19h00.

Tuesday, June 7

Wine and Cheese

5:00 - 7:00 p.m. Wine and cheese in the Connaught Square room

Wednesday, June 8

Guided Evening Bus Tour to Niagara Falls and the Shaw Festival

3:00 p.m. Meet in hotel lobby
3:30 - 6:30 p.m. Bus tour to Niagara Falls. Find your own dinner near the falls.
6:30 - 8:00 p.m. Bus tour to Niagara-on-the-Lake.
8:30 p.m. Attend performance of War and Peace (Tolstoy) at the Shaw Festival Theatre.
11:00 - 11:30 p.m. Return to hotel.

Thursday, June 9

Banquet

6:30 p.m. Cocktails outside Ballroom (cash bar)
7:30 p.m. Banquet in the Ballroom with Emily Cain speaking on the warships, Hamilton and Scourge, which sank during a severe weather event near Hamilton during the War of 1812.

Notes:

1. Spouses are encouraged to attend all these events.
2. A charge of \$15.00 will be made for the Patterson Luncheon
3. A charge will be made for the Niagara Falls tour. You must indicate on the preregistration form how many will attend and include \$35.00 per person with your registration fee. Note that dinner is not included in the charge.
4. A banquet ticket for one individual is included in the congress fee. Extra tickets can be purchased at registration for \$25.00

SPOUSAL PROGRAM

Tuesday, June 7

Guided Walking Tour

10:30 a.m. Meet in lobby of hotel.
10:45 - 11:40 a.m. Whitehern (elegant 19th Century home) tour
11:45 - 12:30 p.m. Art Gallery of Hamilton.
12:30 a.m. - 1:30 p.m. Copps Coliseum tour.
1:30 p.m. Have lunch on your own in Jackson Square. Discover the Mall and Farmer's Market. Return to the hotel on your own.

Wednesday, June 8

Guided Morning Bus Tour

10:00 a.m. Meet in the hotel lobby.
10:15 - 11:15 a.m. City tour.
11:15 a.m. - 12:15 p.m. Tour of the Royal Botanical Gardens with lunch provided at the Turner Pavilion.
1:45 p.m. Return to hotel.

Mercredi 8 juin

Visite guidée en soirée aux chutes du Niagara et spectacle au Shaw Festival.

15h00 - Rassemblement dans le hall de l'hôtel.

15h30 à 18h30 - Visite des chutes du Niagara en autobus. Prévoir un dîner (à vos frais) près des chutes.

18h30 à 20h00 - Autobus vers Niagara-on-the-Lake.

20h30 - Pièce «Guerre et Paix» de Tolstoï, en anglais, au théâtre du Shaw Festival.

23h00 à 23h30 - Retour à l'hôtel.

Jeudi 9 juin

Banquet

18h30 - Apéritif près du Salon des bals (bar payant).

19h30 - Banquet dans le Salon des bals, avec discours d'Emily Cain sur Hamilton et Scourge, navires qui ont coulé lors d'une tempête violente près de Hamilton, pendant la guerre de 1812.

Remarques

1. Nous encourageons les conjoints à participer à ces activités.
2. Le déjeuner Patterson Luncheon coûte 15 \$.
3. La visite des chutes et le spectacle au Shaw Festival coûtent 35 \$ par personne, à payer avec l'inscription. Le dîner n'est pas compris.
4. L'inscription au congrès donne droit à un billet pour le banquet. BILLETS SUPPLÉMENTAIRES: 25 \$, à acheter lors de l'inscription.

PROGRAMME POUR LES CONJOINTS

Mardi 7 juin

Visite guidée à pied.

10h30 - Rassemblement dans le hall de l'hôtel.

10h45 à 11h40 - Visite de la Maison Whitehern (élégante résidence du 19^e siècle).

11h45 à 12h30 - Galerie des beaux-arts de Hamilton.

12h30 à 13h30 - Patinoire Copps Coliseum.

13h30 - Déjeuner (à vos frais) au centre commercial Jackson Square. Visite du centre et du marché. Retour à l'hôtel.

Mercredi 8 juin

Visite guidée en autobus.

10h00 - Rassemblement dans le hall de l'hôtel.

10h15 à 11h15 - Visite de la ville.

11h15 à 12h15 - Visite des Jardins botaniques royaux, avec déjeuner fourni au Pavillon Turner.

13h45 - Retour à l'hôtel.

Thursday, June 9
Guided Bus Tour

1 0:00 a.m. Meet in the hotel lobby.
10:15 - 11:15 a.m. Tour of Dundurn Castle.
11:30 a.m. - 12:30 p.m. Lunch provided at the
Plainsman Restaurant.
1:00 - 2:30 p.m. Andres Winery tour.
3:30 p.m. Return to hotel.

Notes:

1. Babysitting can be arranged privately with a local company (Q.C. International, 416-526-1465)
2. Boardroom 5 will be available for spouses during the Congress. Coffee and tea will be available prior to tour departures.
3. Spouses are encouraged to attend all of the events of the regular social program as well.

ACCOMMODATION

To maximize convenience accommodation has been reserved at the Royal Connaught just a short elevator ride from the site of the congress activities. Twenty-five rooms will be available on June 5 and a further one-hundred and fifty from June 6 to 10. The rate is \$72/day single or double occupancy. Note that this rate is lower than that available as the "Government Rate". To ensure a reservation, those attending are advised to fill out and send the enclosed Accommodation Form.

NEWSLETTER SUBMISSIONS

The following summarizes the publishing schedule for future issues of the Newsletter. If possible the editor would appreciate receiving material in ELITE type print, 12 characters/inch, and set in columns 50 characters wide. For example set the margins at column 10 and column 60.

DEADLINE FOR SUBMISSIONS

VOLUME AND ISSUE

FEB. 01, 1988	MAY	VOL. 16 NO. 2*
JUN. 17, 1988	JUNE	VOL. 16 NO. 3
AUG. 19, 1988	AUGUST	VOL. 16 NO. 4
OCT. 14, 1988	OCTOBER	VOL. 16 NO. 5

* VOL. 16 NO. 2 is the ANNUAL REVIEW and takes longer to prepare and print therefore the deadline is much earlier than for a regular issue.

Submissions should be sent to:

Mr. C.F. Mac Neil
Editor, CMOS Newsletter
Atmospheric Environment Service
1496 Bedford Highway
Bedford, Nova Scotia
B4A 1E5

phone: (902) 426-9134

Jeudi 9 juin

Visite guidée en autobus

10h00 - Rassemblement dans le hall de l'hôtel.
10h15 à 11h15 - Visite du château Dundurn.
11h30 à 12h30 - Déjeuner fourni au restaurant Plainsman.
13h00 à 14h30 - Visite de la distillerie Andrés.
15h30 - Retour à l'hôtel.

Remarques

1. Une garde d'enfants peut être arrangée avec une compagnie locale privée (Q.C. International, tél.: 416-526-1465).
2. Le salon 5 sera disponible pour les conjoints pendant le congrès. Café et thé seront proposés avant le départ de chaque visite.
3. Nous encourageons les conjoints à participer également à toutes les activités du programme des activités sociales pour les délégués.

LOGEMENT

Pour faciliter les déplacements, des chambres ont été réservées au Royal Connaught, séparées par un ascenseur du lieu des activités du congrès. Vingt-cinq chambres seront disponibles le 5 juin et cent-cinquante en plus, du 6 au 10 juin. Tarif: 72 \$ pour chambre simple ou double. À noter que ce tarif est inférieur au «Tarif gouvernement». Pour garantir votre réservation, prière de remplir et renvoyer la demande de logement ci-jointe.

ADVERTISING RATES - CMOS NEWSLETTER

The following rates are based on 8.5 x 11.5 inch (21.6 x 27.9cm) black and white camera ready copy. Additional charges apply where typesetting, artwork, or photographic plates are required. Distribution per issue is approximately 1000.

RATES PER ISSUE:

Type of Advertisement	Full Page	1/2 Page	1/4 Page
Commercial	\$150.00	\$80.00	\$50.00
Position Vacancy *	\$100.00	\$60.00	\$40.00
Employment Wanted (members only)	----- Free-----		

* Discounts Corporate and Sustaining members advertisements are charged at the Position Vacancy Rate.

Forward Advertisements To:

Mr. C. F. Mac Neil
Editor, CMOS Newsletter
Atmospheric Environment Service
1496 Bedford Highway
Bedford, Nova Scotia
B4A 1E5

phone (902) 426-9134

CMOS CONGRESS 1988

REGISTRATION FORM

NAME _____

Address _____

City _____ Province _____ Code/Zip _____

Tel. _____ Affiliation _____

Please indicate the items you want to pre-register for from the following list:

Registration fees

CMOS members fee	\$ 90	_____
Retired member	\$ 40	_____
Non-CMOS member	\$110	_____
Student	\$ 40	_____
Niagara Falls/Shaw Festival Bus Tour # _____ @	\$ 35	_____
Spousal Program	\$ 35	_____
Patterson Luncheon	\$ 15	_____
Extra banquet tickets # _____ @	\$ 25	_____

Total Enclosed _____

Pre-registration must be received before May 6, 1988. Make the cheque payable to:

CMOS Congress 88

Address:

Alan Bealby
Treasurer, CMOS 1988
1 Four Winds Drive, Apt. 707
Downsview, Ontario
Canada
M3J 2T1

A LATE REGISTRATION SURCHARGE OF \$10 WILL BE IMPOSED. The registration fee includes the banquet (except for retired membes and students registration). Receptions are open to all delegates and spouses.

CONGRÈS 1988 DE LA SCMO

DEMANDE D'INSCRIPTION

NOM _____

Adresse _____

Ville _____ Province _____ Code postal _____

Tél. _____ Affiliation _____

Prière de détailler les activités désirées dans la liste ci-dessous.

Frais d'inscription

Membre de la SCMO	90 \$	_____
Membre retraité	40 \$	_____
Non-membre de la SCMO	110 \$	_____
Étudiant	40 \$	_____
Visite chutes Niagara/Shaw Festival - Nbre _____ à	35 \$	_____
Programme des conjoints	35 \$	_____
Déjeuner Patterson Luncheon	15 \$	_____
Billets supplém. pour le banquet - Nbre _____ à	25 \$	_____
Total ci-joint		_____

Cette demande doit nous parvenir avant le 6 mai 1988. Chèque à l'ordre de

CMOS Congress 88

Adresse: Alan Bealby
Trésorier, CMOS 1988
1 Four Winds Drive, Apt. 707
Downsview, Ontario
Canada
M3J 2T1

UNE PÉNALITÉ POUR RETARD DE 10 \$ SERA IMPOSÉE. Les frais d'inscription comprennent le coût du banquet (sauf pour les membres retraités et les étudiants). Tous les délégués et leurs conjoints peuvent assister aux réceptions.

Accommodation Form
Royal Connaught Hotel
Hamilton, Ontario

CMOS Congress '88
June 6-10, 1988

Guest Name
Street
City Province
Postal Code

Home Phone # Business Phone #
Company
Arrival Date:
Departure Date

Roommate's name, if double accommodation is being requested
.....

Method of Payment:

Cheque Visa Mastercard Diner's Card
EnRoute American Express
Credit Card #

Signature

Note: Rooms will be held till 6 p.m. unless guaranteed by
deposit (\$72 single/double) or credit card number.
Rooms must be booked by May 6, 1988

Return to: Attn: Reservations
The Royal Connaught Hotel
112 King Street East
Hamilton, Ontario
L8N 1A8

Phone # (416) 527-5071

Demande de logement
Royal Connaught Hotel
Hamilton, Ontario

Congrès 88 de la SCMO
Du 6 au 10 juin 1988

Nom de l'invité _____

Adresse _____

Ville _____ Province _____

Code postal _____

Téléphone résidence: _____ Téléphone bureau: _____

Entreprise _____

Date d'arrivée: _____

Date de départ: _____

Nom du 2^e occupant, en cas de demande de chambre double

Mode de paiement:

Chèque _____ Visa _____ MasterCard _____ Diner's Card _____

EnRoute _____ American Express _____

N^o de carte de crédit _____

Signature _____

Remarque: Les chambres ne seront retenues que jusqu'à 18h00, à moins de fournir un dépôt de garantie (de 72 \$ par chambre simple ou double) ou un n^o de carte de crédit.

Demandes à renvoyer à: Attn.: Reservations
The Royal Connaught Hotel
112 King Street East
Hamilton, Ontario
L8N 1A8
(Tél.: (416) 527-5071)

CANADIAN METEOROLOGICAL AND OCEANOGRAPHIC SOCIETY

CONGRESS '88

JUNE 7 - 9

APPLICATION FOR EXHIBIT SPACE

The undersigned, (full name) _____
hereby applies to the Commercial Exhibits Convenor of the Canadian Meteorological and Oceanographic Society 1988 Annual Congress to have commercial space at the 1988 Congress.

We, the Exhibitor(s), agree to, and have signed two copies of this application form. We understand that one copy will be returned to us upon acceptance of our application, and that such acceptance constitutes a binding agreement between ourselves and the Local Arrangements Committee for the 1988 Congress. We are enclosing payment in the sum of Canadian to (1988 CMOS CONGRESS) for (#) 1 booth(s) at \$500.00 per booth.

NAME OF EXHIBITOR'S FIRM _____

ADDRESS OF EXHIBITOR'S FIRM _____

TELEPHONE NUMBER _____

TELEX NUMBER _____

NAME AND SIGNATURE OF AUTHORIZING REPRESENTATIVE

NAME (please print)

SIGNATURE

=====

ACCEPTANCE BY THE CANADIAN METEOROLOGICAL AND OCEANOGRAPHIC
SOCIETY 1988 CONGRESS

Booth(s) assigned _____ Date _____

Receipt for acceptance in the amount of \$ _____

Signature of Commercial Exhibit Convenor _____

=====

Mail Application forms to:

R. B. Saunders
519 Cody Crescent
NEWMARKET, Ontario
L3Y 5L9

SOCIÉTÉ CANADIENNE DE MÉTÉOROLOGIE ET D'OcéANOGRAPHIE

CONGRÈS 1988

DU 7 AU 9 JUIN 1988

DEMANDE D'ESPACE POUR L'EXPOSITION

Le soussigné (nom en entier) _____
demande par la présente à utiliser un espace d'exposition commerciale lors
du congrès 1988 de la Société canadienne de météorologie et d'océanographie.

En tant qu'exposant, nous avons accepté et signé deux exemplaires de cette
demande. Une copie doit nous être renvoyée pour indiquer que notre demande
a été acceptée, cette acceptation constituant un contrat entre nous-mêmes
et le Comité organisateur du congrès 1988. Nous joignons le paiement de
_____ \$ CAN, à l'ordre de «1988 CMOS CONGRESS», représentant _____
espace(s) à 500 \$ CAN l'unité.

NOM DE L'ENTREPRISE DE L'EXPOSANT _____

ADRESSE DE L'ENTREPRISE DE L'EXPOSANT _____

N° DE TÉLÉPHONE _____

N° DE TÉLEX _____

NOM ET SIGNATURE DU REPRÉSENTANT AGRÉÉ

NOM (en lettres majuscules)

SIGNATURE

ACCEPTATION PAR LE COMITÉ DU CONGRÈS 1988
DE LA SOCIÉTÉ CANADIENNE DE MÉTÉOROLOGIE ET D'OcéANOGRAPHIE

Nbre d'espaces assignés _____ Date _____

Reçu le montant de _____ \$

Signature du Responsable de l'Exposition commerciale _____

Demande à envoyer à: R. B. Saunders
519 Cody Crescent
NEWMARKET, Ontario
L3Y 5L9

STUDENT ASSISTANCE FORM

NAME/Nom: _____

University Address:

Adresse Universitaire:

Telephone:

Name of Supervisor/

Nom de Superviseur:

Telephone:

Assistance Requested:

Air Fare Yes _____ No _____

Registration Yes _____ No _____

Minimum Accomodation Allowance Required \$ _____

Return by April 1, 1988 to:

J. Carr McLeod
Superintendent
Forecast Systems Design
4905 Dufferin St.
Downsview, Ontario
M3H 5TR

DEMANDE D'AIDE POUR ÉTUDIANT

NAME/NOM _____

University Address/Adresse à l'Université

Telephone/Téléphone _____

Name of Supervisor/Nom du Superviseur

Telephone/Téléphone _____

Assistance Required/Aide requise

Air Fare/Billet d'avion Yes/Oui _____ No/Non _____

Registration/Frais d'inscription Yes/Oui _____ No/Non _____

Minimum Accomodation Allowance Required/
Allocation logement minimale requise: _____ \$

Return by April 1/1988 to/Demande à renvoyer avant le 1^{er} avril 1988 à:

J. Carr McLeod
Superintendant
Forecast Systems Design
4905 Dufferin St.
Downsview, Ontario
M3H 5TR



OMNI



OPERATIONAL METEOROLOGY NEWS AND INFORMATION

2nd WORKSHOP IN OPERATIONAL METEOROLOGY A SUCCESS

The 2nd Workshop on Operational Meteorology was held successfully on October 14-16, 1987 in Halifax. A total of 149 registrants enjoyed 3 days operationally oriented papers, laboratory exercises, a panel discussion, demonstrations, poster papers and social events.

Highlights of the program included:

- > 2 theme sessions with invited speakers Dr. Ron Stewart, a cloud physicist at AES Downsview; Dr. Fred Sanders, professor emeritus, MIT; Dr. Mel Shapiro from the NOAA/ERL Wave Propagation Lab, Boulder; and Cmdr. Ken Lilly, a meteorologist and captain of a NOAA research vessel, from Washington, D.C.;
- > the hands-on laboratory exercises dealing with topics such as frontal analysis, marine wind forecasting and explosive cyclogenesis;
- > an evening demonstration session at which several computer display and workstations were demonstrated;
- > a special panel discussion session at which a panel of providers of marine weather services (from the AES, the U.S. National Weather Service and MacLaren Plansearch, a private sector firm) exchanged views with a panel of users of marine weather services (a captain of a fisheries patrol vessel, a fisherman's union executive, a yachtsman and a representative of the oil and gas industry).

A 500-page preprint volume was produced and distributed to participants. A limited number of copies are still available and may be purchased from AES - Training Branch in Downsview, Ontario.



Local Arrangements and Program Committee members
Back row: Low Legal, Peter Bowyer, Jim Abraham, Jim Alexander, Ken Macdonald, Martha Danks, Gary Lines.
Front row: Laurie Wilson, Steve Hickey, Steve Miller, Bill Richards (absent is Merv Horita).

Besides the scientific program activities there were a number of events well attended by workshop participants and their spouses. These included:

- > tours of the Bedford Institute of Oceanography, the AES Maritimes Weather Centre and the Canadian Forces Meteorological and Oceanographic (MetOc) Centre;
- > a spouses' coffee hosted by Her Honour, Mrs. Alan Abraham at Government House, the residence of the Lt. Governor of Nova Scotia;
- > a siteseeing and shopping tour for spouses;
- > a banquet sponsored by the Province of Nova Scotia.

At the banquet Mr. Rube Hornstein presented the CMOS Hornstein Prize for operational meteorology to Mr. John O'Reilly of AES in recognition of his superlative effort in establishing a special Great Lakes High Water Level Program at the Ontario Weather Centre. Following the prize presentation, banquet attendees enjoyed an hilarious, irreverent, after-dinner talk by "General John Cabot Trail" alias Mr. David Harley, a local comedian who is gaining national prominence.

By all accounts, the 2nd Workshop on Operational Meteorology was a true success. Plans are now being formulated to hold a third workshop in the fall of 1989 in Montreal. OpMet SIG members are likely to be asked to vote for a new executive from the Montreal area in the coming months.

Ken Macdonald
Local Arrangements Chairman



Users and Providers of Marine Weather Services Panel Discussion

Despite being held on the final afternoon of the workshop, the panel discussion drew a large audience who were treated to a lively discussion.

INTRODUCTION TO CMOS GUIDELINES
FOR ACCREDITATION OF MEDIA
WEATHER BROADCASTERS

Background

The recent commencement of the CMOS program for Accreditation of Consultants has left one significant area of meteorological expertise unrecognized. The TV/radio "weathercasters" were not included in the Areas of Specialization for the accreditation of consultants because it was considered that this area needed special treatment. Consultants' qualifications in the CMOS Accreditation Guidelines are focused on not only basic educational requirements but also on professional recognition, scientific and technical output and previous consulting services.

While it was evident that the media broadcasters would not usually meet the criteria for accreditation of consultants, there is a need to accredit the broadcasters in some way. The American Meteorological Society (AMS) "Seal of Approval" certification program has been proposed as a model for a CMOS approval process. Many CMOS members have noted deficiencies in the way weathercasting is done in Canada.

Another reason for commencing a broadcast accreditation program now is that CMOS is considering giving an award for weather broadcasting. Evaluation of proposals for such an award would be done by a special committee. An obvious parallel in the review processes will exist and, once the accreditation program proposed here gets under way, the committee accrediting broadcasters would also be in the best position to make nominations for the CMOS award in weather broadcasting.

With the above in mind, and having received a request from CMOS Council to develop guidelines for accrediting media weather broadcasters, a second draft is proposed for the council's consideration at their November 9, 1987 meeting. It is anticipated that further drafts may be necessary and that final approval will require the consent of a CMOS Annual General Meeting.

Approach

The purpose of accreditation is to provide recognition to persons who provide weather forecasts and information on Canadian TV and radio stations. Such recognition will be an approval certificate, probably in the form similar to the CMOS logo, to which the media broadcaster can refer visually or orally during his broadcasts.

The requirements address three areas:

- (i) adequate training in, and knowledge of, meteorology;
- (ii) adequate communications skills; and
- (iii) adequate presentation skills.

Note: The French version of these Guidelines will be made available to participants of the 1988 Annual General Meeting.

Avis: La Version française de ces lignes directrices sera fournie aux participants de l'Assemblée Générale Annuelle 1988.

These requirements will ensure that a "CMOS Accredited Meteorological Broadcaster" possesses a set of objective qualifications to accurately and correctly describe weather maps, satellite pictures, forecast data, etc. that are normally available. They are not meant to assess the potential level of acceptance by the viewers/listeners or to dictate the style of a particular broadcaster. Normally, these assessments will be made by the hiring station by evaluating past performance, presentation techniques, other abilities and audience reaction.

Implementation of the Media Accreditation System

Upon concurrence of CMOS members, the proposed accreditation system will be started. It should be noted by CMOS members that those working in the weather broadcasting field will not be required by CMOS to be accredited in order to continue to do work in this field. Not having accreditation will not imply that a person cannot be a "weathercaster". The accreditation merely informs the public and station managers that a person has met a minimum set of CMOS requirements stated in the attached Guidelines. Following are the steps proposed to implement a CMOS accreditation system:

- 1) Discussion and revision of this document and the draft Guidelines by the Professionalism Committee in January 1988. (completed)
- 2) Approval in principle of the Guidelines and implementation process by CMOS Council by the spring of 1988.
- 3) If above timetable is met, the accreditation system will be put on the agenda of the 1988 AGM in Hamilton.
- 4) Following approval by the AGM, the Professionalism Committee would recommend a Broadcast Accreditation Committee of three persons at least two of whom would be CMOS members. One of the two CMOS members will be selected from meteorologists working in the academic (teaching) profession. The third person would ideally be a recognized practising media weathercaster and would not necessarily be required to hold CMOS membership. Constitution of this committee would be subject to CMOS Council approval, probably late in 1988. The media weathercaster chosen would become the first CMOS Accredited Broadcaster, as would the other members of the Committee, should they be practising meteorological broadcasters.
- 5) A CMOS letter, announcing the accreditation program, would be sent to radio and TV stations and media associations, AES staff and Canadian private sector companies.
- 6) The Broadcast Accreditation Committee, once constituted, would proceed to review and consider applications for accreditation in accordance with the approval guidelines. The Accreditation Committee's administrative arrangements would be co-ordinated through the CMOS Council and Executive.
- 7) The Broadcast Accreditation Committee would, in addition, nominate a chairman for approval by Council.

CMOS Guidelines for Accreditation of Media Weather Broadcasters

General

1. The presentation of weather information on the broadcast media rests largely with non-meteorologists who contract with television and radio stations to provide this service. The accreditation program has been established to recognize the training and qualifications required for media weather broadcasting in Canada. It does not guarantee the quality of work which could be performed by any particular accredited broadcaster.
2. An applicant may apply for accreditation in radio weather broadcasting, television weather broadcasting or both. Holders of single certificates in one medium may upgrade to both radio and TV but this will have the effect of submitting separate applications. Applicants may apply in a single submission to become accredited in both media.
3. An accreditation document will be issued upon approval by the Broadcast Accreditation Committee. In addition, for recipients of television broadcast accreditation, a "logo" or approval recognition symbol will accompany the accreditation document. This logo will be in a form suitable for displaying on television and will have the CMOS logo as a predominant background.
4. Accreditation will be on a calendar-year basis and will be valid until the end of the calendar-year following the year of accreditation. Names of persons accredited in each category will be published at least once per year in the CMOS Newsletter, in the CMOS Directory of Consultants and in a relevant media publication. Broadcast accreditation may be renewed annually provided a broadcaster continues to meet the accreditation criteria.
5. If the applicant is rejected by the Committee, the applicant has thirty days to appeal the decision to the Broadcast Accreditation Committee. Unsuccessful applicants may re-apply following a one year waiting period.
6. Accreditation may be withdrawn for cause if for example, in the opinion of the Broadcast Accreditation Committee, false information has been provided in the application.
7. In cases of dispute under guidelines 5 and 6 above, CMOS Council will have the final authority. Those involved in such disputes will be given an opportunity to present their case to Council.
8. All tapes provided will be returned to the applicant.

Criteria

9. The following are the requirements for accreditation:
 - (1) The applicant must possess sufficient knowledge of meteorology, having successfully completed an appropriate course or courses at a recognized institution.
 - (2) The applicant will be required to pass a short oral examination conducted by the Broadcast Accreditation Committee. This examination may be conducted by telephone and arranged at the applicant's convenience.
 - (3) The applicant must demonstrate acceptable communications skills.
10. Exceptions to these criteria may be considered by the Broadcast Accreditation Committee. An example would be the substitution of long-term experience instead of appropriate courses.

Application Form and Tapes

11. The purpose of the attached*application form and tapes submitted is to allow the Broadcast Accreditation Committee to determine whether the minimum requirements have been met. An applicant may be required to attend an interview for further clarification of qualifications. The applicant will normally be notified whether or not the requirements have been met within six months of receipt of the application form.
12. Copies of any relevant degrees or course certificates and diplomas should accompany the application.
13. Two letters of reference from individuals for whom the applicant has provided satisfactory broadcast meteorology services are preferred. If these cannot be provided, letter(s) of reference from supervisors of positions held involving presentation of meteorological information may be substituted.
14. The applicant must provide two tape segments, each segment to be two to five minutes in length, of on-air or simulated weather broadcasts or presentations that occurred within the previous six months. For one application for radio and TV accreditation, two tapes from each category must be provided.

* Available from Executive Director on request

Fees

15. A fee of \$150.00 in the form of a cheque, made out to the Canadian Meteorological and Oceanographic Society, should be included with each application.
16. If application for accreditation in both radio and TV broadcasting is made at the same time, the \$150.00 fee will apply. Separate applications will be treated as individual applications.
17. A refund of \$75.00 will be made if the application is unsuccessful.
18. Renewal notification will be sent to accredited broadcasters at the end of each calendar year.
19. The annual renewal fee shall be \$30.00 for members and \$50.00 for non-members.
20. If an individual fails to renew accreditation during the calendar year following the year of expiration, complete re-application will be necessary.

Second Meeting

Scaling, Fractals and

Non-Linear Variability in Geophysics

The Second Meeting on Scaling, Fractals and Non-Linear Variability (NVAG 2) will be held from 27 June - 01 July, 1988 at the (former) Ecole Polytechnique (in Paris' "Quartier Latin").

NVAG 2 will be devoted to providing stimulating confrontations between theories and experiments on scaling/fractal behaviour of geophysical fields (power-law spectra, lack of characteristic scales over wide ranges, small and large features related only by scale ratios, appearance of fractal dimensions and structures...). Contributions are solicited in climatology, oceanography, meteorology, hydrology and solid earth geophysics. Themes will include flow dynamics, precipitation, clouds and pollutants, waves, topography, fractures, infiltration, seismic sounding.... Theoretical emphasis will be given to turbulent chaotic and random processes involving hierarchies of critical exponents and dimensions, singularities and universality classes ("multifractal" behaviour). Applications will include time series analysis (filtering, prediction...), remote-sensing techniques (analysis, simulation and calibration), image processing (interpretation, zooms, simulation), deterministic and stochastic modelling.

for further information:
Daniel Schertzer, or Shaun Lovejoy
Physics Dept., McGill University
3600 University St.
Montreal, Que.
H3A 2T8, Canada

NEW CMOS MEMBERS

The following new members were approved at the Council meeting of 15 January, 1988.

NAME	CENTRE
Dr. Terry Hall (regular member)	Toronto
Mr. Keith Heidorn (regular member)	Toronto
Mr. Keith Davidson (regular member)	Toronto
Dr. Ambury Stuart (regular member)	Toronto
Mr. Richard Hogue (regular member)	Toronto
Mr. James B. Dempsey (regular member)	Newfoundland
Mr. David R. Sencill (regular member)	Newfoundland
Dr. Keith A. Thomson (regular member)	Newfoundland
Mr. L. Jacques Moulines (corporate member)	Ottawa

The following new members were approved at the Council meeting of 12 February, 1988.

NAME	CENTRE
Mr. Ed Heacock (student member)	Alberta
Mr. David G. Burley (regular member)	Newfoundland
Mrs. Martha A. Anderson (regular member)	Halifax
Mr. Stephen Grimaldi (regular member)	Vancouver Island
Mr. Donald L. Murphy (regular member)	
Mr. Toro Caesar (student member)	Rimouski Mainland

Fame and Fortune of Atmosphere-Ocean

The following exchange of letters is being published at the request of the Editor A-O in the hope that it may stimulate other members to speak up.

Dr. H.J. Freeland
Editor, CMOS
Institute of Ocean Sciences
P. O. Box 6000
Sidney, B.C.
V8L 4B2

2/12/87

Dear Howard:

This letter is the result of a recent lunch conversation concerning the fame and future of Atmosphere-Ocean (A-O). The general conclusion was that A-O is not as good a journal as it might be. The purpose of this letter is to suggest ways to encourage oceanographers to publish in A-O.

The best way to become popular is to be popular, a "Catch-22" situation. To get around this, in the case of A-O, I would suggest the active solicitation of articles. The premise is that good articles will attract others. I further suggest requesting review articles from some of the bright and medium-new oceanographers. Because they are bright, the reviews should be interesting and because they are medium-new they should be more willing since no prestigious journals are hounding them for their ideas. Non-Canadians should also be hounded, even if just to announce intentions. If Americans could be convinced to publish in A-O, Canadians would probably flock to it.

Some concrete changes at A-O might also encourage oceanographers to take an interest. The addition of more oceanographers on the editorial board might better reflect the present balance of oceanographic and meteorological articles. If A-O could develop a faster publication turnaround this would encourage people to submit articles. A speedy turnaround reduces much of the pain of publication. This speed would give A-O an edge over journals such as JPO and JMR.

In the long term, I think costs could be reduced by putting less effort into a glossy and costly journal. I would bet that JPO is much cheaper per page, even if the cost is scaled by the number of subscribers. The money saved could go into speeding up publication time. Perhaps reviewers could be paid an honorarium if they did their review within a reasonable period of time. My point is that the effort (read money) should go into good articles and good science.

My suggestions are intended as a means to encourage more oceanographers to publish in A-O. Once popular, the fame of A-O would be assured.

Yours sincerely,

Brad de Young
Coastal Oceanography

Dr. Brad de Young
Bedford Institute of Oceanography
P. O. Box 1006
Dartmouth
N.S. B2Y 4A2

5/1/88

Dear Brad:

You suggest that A-O is "not as good a journal as it could be" and identify "Catch 22" as a problem. In that estimate you are exactly right. Our main problem is that we are viewed as a rather 'provincial' journal and so Canadian authors tend to publish elsewhere. I get very jealous sometimes when I see an issue of J.P.O. with one third of its pages from Canadian sources. Of course, if Canadian authors saw A-O as a normal oceanographic journal then they would publish in it, the problem is that to be seen as 'normal' they first have to publish in it. That is our Catch-22. I see this changing, if slowly. The December issue contained an excellent paper by Kimio Hanawa on sub-tropical mode water, a paper that has no Canadian content whatsoever, the observations lie entirely west of the date-line. I have other papers, sub judice, that similarly have no Canadian content, one from a U.S. source and one from Mexico. The meteorologists seem to be less provincial, a higher proportion of their papers are from non-Canadian sources. One problem, of course, is that 'Atmosphere' became 'Atmosphere-Ocean' quite recently, and Canadian oceanographers are not yet in the habit of publishing in A-O.

In your 2nd paragraph you suggest soliciting review articles. I disagree, though I would have agreed 1 year ago. As one of the scientific editors, and so one of the people with responsibility for the quality of the scientific content, I do not want to be put in the position of feeling obliged to accept a paper, as I might if I solicited it. I have no strong objection to review articles per se, I will not, however, solicit review articles. I would consider the recent paper by Dan Wright, A-O 25(3), to be a review paper and, I would say, a very good one. I would like to receive more papers like that one. If you see the need for specific review articles then please feel free to make suggestions to your colleagues.

In your 3rd paragraph you suggest more oceanographers on the editorial board. I agree. In December 1987 two members retired, Paul LeBlond and George Boer. We have proposed replacing Paul with Bill Crawford, I feel we need at least one west coast oceanographer, and we propose replacing George with Lawrence Mysak who straddles the two disciplines. CMOS guidelines do, however, restrict the number of members of the editorial board, I would like to increase the number by one and appoint an oceanographer from Newfoundland, I will look into that option.

Further in the third paragraph, you discuss 'speedy turnaround'. I find this surprising, I doubt if any journal does better. In my experience a well prepared manuscript having proper attention to detail, for example using the correct style for references etc, will be processed rapidly. Some examples; a recent paper by Roger Flather (IOS Bidston) was written exceptionally well. The referees (I use three routinely) all commented on enjoying reading the paper and all responded positively within 2 weeks. The paper was first received here at IOS on 30 Oct 1986, and in revised form, at which point it was accepted, on the 8th of December 1986. A paper that was turned around

almost as fast was one by Ingrid Peterson, care in preparation led to swift acceptance. Ingrid, unfortunately, missed the deadline for 25(3) by a few days, so her m.s. had to wait almost 3 months before going to press for 25(4), this is a problem. We can correct that problem in only one way, publish more frequently. In 1986 51 papers were received, if this year had been as strong then I would have suggested publishing 6 issues per year. We actually received a total of 49 papers in 1987, so I do not propose that change now. If submissions do pick up I will recommend more frequent publication thus reducing the waiting time between press dates. As you can see the only place where the editors can really save time is in the interval between press dates, and we can potentially save only 1 month. Where the really big time savings can be made is entirely with the authors. One bad example, a paper was submitted to A-O, the reviewers liked the paper and made sensible and useful suggestions for improvement. The referees comments were easy to handle, but the revisions arrived on my desk 2 years later!

Finally, I would like to comment on your queries regarding financial aspects of A-O. Firstly, if you are genuinely concerned then do I ever have a job for you? CMOS needs a 'Director of Publications' who would chair the 'Publications management Committee' applications can be received by the CMOS national executive which is located very handy to your office. Yes, A-O does use a rather expensive glossy paper, this allows us to reproduce diagrams with a much resolution than most journals can. Roger Flather chose A-O in part because of the quality of paper used, his diagrams could not have been reproduced in J. Mar. Res. because the resolution is far too low. When I published a paper in A.-O. 22(2) I also chose A.-O. for exactly the same reason, some of my diagrams required high resolution. You suggest that A-O is 'costly', I would like to know the basis for that comment. Our subscriptions, \$20 members, \$30 non-members, \$55 institutional, are very low (and for Canadians they are tax deductible). Our page charge policy is modest, we ask for voluntary donations and suggest \$40 to \$50/page as a guideline. That is low compared to JPO or JGR. Recently here at IOS our library cancelled a subscription to Geophysical and Astrophysical Fluid Dynamics, because they put their subscription fees up to \$2760 (in Candn funds) for the 1988 volume. That is quite out of line with A-O, however, in 1986 A-O took a very small financial loss, in 1985 it made a small profit, and for 1987 we may see a small profit again. These imbalances are very small, less than 1% of the budget, and A-O should be regarded as a break-even venture that could be turned into a profitable one with a few minor changes (though the profit would never be large), e.g. we could raise the institutional subscription rate. I support the continued use of quality paper, because I feel it is one of the things that makes A-O different from other journals, it establishes an ecological niche among scientific journals.

Any further comments would be appreciated.

Sincerely,

Howard J. Freeland
Co-Editor, Atmosphere-Ocean

**DIVISION OF METEOROLOGY
DEPARTMENT OF GEOGRAPHY
UNIVERSITY OF ALBERTA
EDMONTON, ALBERTA**

SYNOPTIC METEOROLOGIST

Applicants are sought for a tenure-track, Assistant Professor position in Meteorology, beginning July 1, 1988. A completed Ph.D. is required and postdoctoral experience is desirable. The teaching responsibilities will include courses and labs in synoptic and operational meteorology. Forecasting experience would be an asset. The incumbent must have a strong research and publication record in meteorology, along with the ability to supervise graduate research in synoptic meteorology. The salary range for Assistant Professors at the University of Alberta is \$31,612 to \$45,340.

Please send applications with curriculum vitae, transcripts, pertinent reprints and the names and addresses of three referees to:

Dr. M.J. Hodgson, Chairman
Department of Geography
University of Alberta
Edmonton, Alberta
T6G 2H4 Canada

CLOSING DATE: February 29, 1988

The Division of Meteorology is active in research in physical, synoptic, satellite, and micrometeorology. It offers B.Sc., M.Sc. and Ph.D. programs in meteorology.

The University of Alberta is committed to the principle of equity in employment.

The Department of Earth and Atmospheric Science
YORK UNIVERSITY
Toronto, Ontario

Applications are invited for a contractually limited appointment as Assistant Professor in the Department of Earth and Atmospheric Science at York University, effective July 1, 1988. The Department consists of nine full-time and two part-time faculty members, and three affiliated faculty members from other departments. Undergraduate teaching responsibilities are in Geophysics, Geology and Meteorology, and graduate degrees are offered through the Centre for Research in Experimental Space Science (CRESS) and in the graduate programme in Physics. The Department has strong research interests in Meteorology, Planetary Studies, Global Geophysics and VLBI.

Applicants should possess a good academic and research record in one or more of the Department's major areas.

Applicants should send a complete curriculum vitae, list of publications, and the names of three referees, before March 31, 1988, to:

Chairman, Search Committee
Department of Earth and Atmospheric Science
York University, 4700 Keele Street
North York, Ontario
Canada, M3J 1P3.

In accordance with Canadian Immigration requirements this advertisement is directed to Canadian citizens and/or permanent residents of Canada. York University is implementing a policy of employment equity. Qualified women and men are invited to apply.

The Department of Earth and Atmospheric Science
YORK UNIVERSITY
Toronto, Ontario

Applications are invited for a tenure stream position in the Department of Earth and Atmospheric Science at York University, effective July 1, 1988. The appointment may be made at any rank and the incumbent may be asked to be the Departmental Chair. The Department consists of nine full-time and two part-time faculty members, and three affiliated faculty members from other departments. Undergraduate teaching responsibilities are primarily in Geophysics, Geology, Meteorology, and Remote Sensing. Graduate degrees are offered through the Centre for Research in Experimental Space Science (CRESS) and in the graduate programme in Physics. The Department has strong research interests in Meteorology, Planetary Studies, Global Geophysics and VLBI.

Applicants should possess a distinguished academic and research record in one or more of the Department's major areas and proven, or a potential for, administrative skills to guide it through the next stage of expansion and development.

Applicants should send a complete curriculum vitae, list of publications, and the names of three referees, before March 31, 1988, to:

Chairman, The Chair Search Committee
Department of Earth and Atmospheric Science
York University, 4700 Keele Street
North York, Ontario
Canada, M3J 1P3.

In accordance with Canadian Immigration requirements this advertisement is directed to Canadian citizens and/or permanent residents of Canada. York University is implementing a policy of employment equity. Qualified women and men are invited to apply.

The Department of Earth and Atmospheric Science
YORK UNIVERSITY
Toronto, Ontario

Applications are invited for a tenure track position in theoretical geodynamics at the Assistant Professor level in the Department of Earth and Atmospheric Science at York University, effective July 1, 1988. The Department consists of nine full-time and two part-time faculty members, and three affiliated faculty members from other departments. Undergraduate teaching responsibilities are in Geophysics, Geology and Meteorology, and graduate degrees are offered through the Centre for Research in Experimental Space Science (CRESS) and in the graduate programme in Physics. The Department has strong research interests in Meteorology, Planetary Studies, Global Geophysics and VLBI.

Applicants should possess a distinguished academic and research record in one or more of the following areas; earth rotation studies, dynamo theory and core dynamics, structure and dynamics of the earth's deep interior.

Applicants should send a complete curriculum vitae, list of publications, and the names of three referees, before March 31, 1988, to:

Chairman, Search Committee
Department of Earth and Atmospheric Science
York University, 4700 Keele Street
North York, Ontario
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In accordance with Canadian Immigration requirements this advertisement is directed to Canadian citizens and/or permanent residents of Canada. York University is implementing a policy of employment equity. Qualified women and men are invited to apply.

CONSULTANTS' PAGE

Entries on this page are restricted to CMOS Accredited Consultants. The accreditation process commenced in December 1986, and to date there are 18 Accredittees. The criteria, as set out in the document "CMOS Guidelines for Accreditation" are:

- (1) The applicant must possess an appropriate undergraduate degree from a recognized university.
- (2) The applicant must possess at least one of the following types of specialized training:
 - (i) post-graduate degree from a recognized university in meteorology or oceanography;
 - (ii) post-graduate degree from a recognized university in the natural or applied sciences or mathematics, specializing in one or more branches of meteorology or oceanography; or
 - (iii) three years of on-the-job meteorological or oceanographic experience.
- (3) Upon completion of the above educational and training requirements, the applicant must have spent at least two years of satisfactory performance, at the working level, in the field of specialization included in this document. This should include at least some consulting experience.

Individuals interested in applying for accreditation may contact the CMOS Executive Director at the Society's Ottawa address for copies of the Guidelines and Application form.

Noel Boston, P.Eng., Ph.D.
CMOS Accredited Consultant

**Physical Oceanography, Boundary Layer Meteorology,
Training**

The Environment Centre
Suite 200 - 1130 West Pender Street
Vancouver, British Columbia
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Land Planning
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(519) 824-4210 ext 2645 or
(519) 824-9504

51 Applewood Crescent
Guelph, Ontario N1H 6B3

David R. Hudak, Ph.D.

CMOS Accredited Consultant

Cloud Physics..Synoptic Meteorology..Weather Modification

Senior Scientist
KelResearch Corporation
850-A Alness St., Suite 9
Downsview, Ontario M3J 2H5
(416) 736-0521

Susan K. Lally
Meteorologist, CMOS Accredited Consultant

General Meteorology
Marine Meteorology

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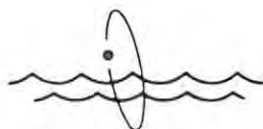
Oceanroutes Canada Inc.
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Bedford, Nova Scotia B4A 1E5
(902) 835-1617
Telex: 019-22888
Fax: (902) 835-6589

Tom B. LOW, Ph.D. P.Eng.

CMOS Accredited Consultant

Research and Development Meteorology

President
KelResearch Corporation
850-A Alness St., Suite 9
Downsview, Ontario M3J 2H5
(416) 736-0521



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R.R. 3, Caledon East,
Ontario, Canada L0N 1E0
Tel. (416) 880-0528

CMOS Support for PSMA

The following is the text of a letter from Dr. Rod Shaw, past-president of the CMOS:

July 30, 1987

R.V. Portelli, M.A.S.C., P.Eng.
Chairman, Interim Executive
Private Sector Meteorological
Association (CPSMA) of Canada
c/o Concord Scientific Corporation
2 Tippet Road
DOWNSVIEW, Ontario
M3H 2V2

Dear Ron:

I have recently received a copy of a letter from you to Doug Russell indicating a great deal of progress among private meteorological consultants in forming an association. On behalf of CMOS, I would like to congratulate you and the Interim Executive Committee of the PSMA on your initiative in establishing an association, and to wish you success in the future. The PSMA is a sign of a healthy and growing private meteorological sector in Canada which can only benefit the profession as a whole. I suggest that, as you become established, you may consider including oceanographic consultants in the PSMA because of the obvious linkage between the two professions.

Again, the best of success in the future.

Yours sincerely,

R.W. Shaw
President, CMOS
c.c. D. Lawrence
U. Schwartz

PSMA Constitution and By-Laws

The Interim Executive is currently preparing a draft proposal for the Constitution and By-Laws of the Association. This proposal or a modification thereof will be subjected to a membership review & formal endorsement will require a majority vote of the membership. The target for completion of the proposal is early November.

PSMA Organization Fund

The response to the request for \$100 contribution to the PSMA Organization Fund was excellent! To-date, twenty-six (26) firms or individuals from across Canada have contributed. The accompanying list identifies the contributors.

With this response the Interim Executive is proceeding to formally establish the Association. These funds will be used in support of this effort and in keeping you abreast of developments.

If your company has not joined and now wishes to do so please send a cheque or money order for \$100.00 made payable to Mr. G. McKay.

Mr. Gordon McKay
Treasurer, PSMA
122 Brooke St.
Toronto, Ontario
L4J 1Y9

List of Contributors to PSMA Organization Fund

1. Weather Consultants of Canada
2. Gordon McKay, Consultant
3. Concord Scientific Corporation
4. Ph.D. Associates Inc.
5. Meteorological Environmental Planning
6. Promet Environmental Group
7. Weather Tec Services Inc.
8. Ocean Routes Canada Inc.
9. Cirrus Consultants
10. Thermal Mapping Int'l Inc.
11. Telesat Canada
12. Environmental Application Group
13. Acres Int'l Ltd.
14. Nordco Ltd.
15. Kelresearch Corp.
16. Eltek Environmental
17. IDON Corp.
18. Lamothe & Periard
19. Monenco Consultants Ltd.
20. Met-Tech Services Eng.
21. MacLaren Plansearch/Lavalin (Halifax)
22. Aanderaa Instruments
23. Intera Technologies Ltd. (Calgary)
24. Sophos Inc.
25. MDA
26. Western Research

PSMA Interim Executive

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65 Marlborough Avenue
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M5R 1X5
(416) 968-7981

PSMA Activities Calendar

Dec 86 Initiation of PSMA

Jan/Feb 87 Questionnaire re interest in PSMA prepared, distributed.

Mar/Apr 87 Responses to questionnaire received strong interest in PSMA.

May 87 Planning, preparation to establish PSMA.

June 87 Results of questionnaire distributed along with request for \$100 contribution to PSMA organization fund.

Jul/Aug 87 Contributions received — strong support for PSMA.

Sept 87 Initiation of preparation of draft of PSMA Constitution & By-laws.

Oct 87 1st PSMA Newsletter prepared, distributed.

Nov 87 Draft Constitution & By-Laws distributed for comment.

Dec 87 Revision to draft Constitution & By-Laws. Vote on By-Laws & nominations for Directors & Officers.

Jan 88 Election of Directors & Officers of PSMA.

Feb 88 1st Annual PSMA Meeting. Installation of elected PSMA Officials.

Election of Directors & Officers

A Board of Directors and Officers of the PSMA will be elected by the membership according to the adopted By-laws. The elected Directors and Officers will take office at the first annual PSMA meeting.

Canadian Climate Planning Board

The Chairman of the Canadian Climate Planning Board, Dr. Kenneth Hare, informed the PSMA Interim Executive that it will consider, at its meeting this fall, private sector representation on the Board through the PSMA. Ron Portelli, Chairman, PSMA Interim Executive had met with Dr. Hare earlier to discuss possible PSMA representation.

1st Annual PSMA Meeting

The first annual PSMA meeting is being planned for February 1988 to be held in conjunction with AES' Annual Privatization Workshop which will be held in the Toronto area. Doug Russell, AES Special Advisor on Private Sector Meteorology, will be organizing the AES Workshop as a follow-up to the December 1986 workshop. Formal notices will be distributed once the location and dates have been confirmed.

AES 5-Year Privatization Plan

On September 30, 1987 the Interim Executive held a meeting at which Doug Russell presented an outline of AES' 5-year Privatization Plan, which was followed by a general discussion. The Plan will be distributed to the private sector during November for review and comment. The Interim Executive will await your comments before formulating a PSMA position on the plan for AES to consider.

Agrometeorology Society (CSAM)

The Canadian Society of Agrometeorology decided to honour some retired members of this fraternity in 1987. At the conference of the Agricultural Institute of Canada held in August, George W. Robertson, and Morley K. Thomas, and later in an informal ceremony at the University of Guelph, Lyman J. Chapman were made Fellows of the Society. George W. Robertson P.Ag. the first "official" Agrometeorologist in Canada, was employed by Agriculture Canada from 1951 until his retirement in 1969. Prior to this he spent 12 years with the Canadian Meteorological Service. Following retirement from the Public Service of Canada, he has acted as a consultant for the World Meteorological Organization and FAO in eight different countries. Morley K. Thomas served the Meteorological Service of Canada throughout his career from 1941 to 1980. In the 1960's he served on a steering committee for Agro-Climatic Classification for Agriculture Canada. He retired as the Director General of the Canadian Climate Centre in 1980. Lyman J. Chapman spent nearly his entire career at the Ontario Research Foundation from the early 1930's until retirement in 1973. Climate publications for Ontario and the agricultural regions of Canada were prepared by him or under his supervision. The presentation of the Fellow certificate to Dr. Chapman is shown below.



Mr. Lyman Chapman, centre, is made a Fellow of the Canadian Society of Agrometeorology in a ceremony at the University of Guelph, recently. Ken King, P.Ag. Professor and Chairman of the Agrometeorology graduate program at Guelph makes the presentation as Murray Brown, P.Ag. Past President of the Society, looks on.

ATMOSPHERE-OCEAN

Papers to appear in forthcoming issues:-

ATMOSPHERE-OCEAN 26(1), March 1988

An objective analysis of the low-frequency currents in the Strait of Georgia:
by Michael Stacey, Stephen Pond and Paul H. LeBlond.

Simulated fluctuations in annual Labrador Sea ice cover: by Motoyoshi Ikeda,
Tom Yao and G. Symonds.

A study of the growth and decay of eddy available potential energy and eddy
kinetic energy based on temporal correlations: by Steven J. Lambert.

Modelling surface energy fluxes and temperature in dry and wet bare soils:
by R.J. Stathers, T.A. Black, W.G. Bailey and M.D. Novak.

Assessment of wet deposition monitoring in Atlantic Canada: by B.L. Beattie,
R.W. Shaw and D.M. Whelpdale.

The oil-spill behaviour model of the Canadian Atmospheric Environment Service:
Part I Theory and model evaluation. Part II Evaluation of model guidance for
emergency response: by S. Venkatesh and others.

An investigation of the relationship between sub-Saharan rainfall and global sea
surface temperatures: by F.H. Semazzi, V. Mehta and Y. Sud.

Some recent trends in precipitation in Western Canada and their possible link to
rising carbon dioxide: by Maurice B. Danard and T. S. Murty.

Comments on 'The water and energy balance of Perch Lake (1969-1980)' by F.I. Morton.
Reply: by E. Robertson and P.J. Barry

ATMOSPHERE-OCEAN 26(2), June 1988 (not yet complete)

On the mean and tidal currents in Hudson Strait: by Ken Drinkwater.

On theoretical wind speed and temperature profiles over the sea with applications
to data from Sable Island, Nova Scotia: by John L. Walmsley.

Derived Lagrangian statistics on the Vancouver Island continental shelf and
implications for salmon migration: by H.J. Freeland.

Calibration of a three component angular distribution model of sky radiance:
by C.A. Coombes and A.W. Harrison.

Sea surface temperature variability in the shelf-slope region of the northwest
Atlantic: by K.R. Thompson, R.H. Locks and R.W. Trites.

Influence des rejets atmospheriques d'anhydride sulfureux sur la qualite de l'eau
des lacs de la region de Rouyn-Noranda: par J. Dupont.

and others.....

CMOS - SCMO

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