



c.m.o.s.

NEWSLETTER

s.c.m.o.



APRIL 1982

Vol 10 No 2

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CMOS NEWSLETTER is a bi-monthly Publication of the Canadian Meteorological and Oceanographic Society.

Editor:

Avard S. Mann
Atmospheric Environment Service
Argyll Centre
6325 - 103 Street
Edmonton, Alberta
T5H 5H6

FROM THE PRESIDENT'S DESK

As this will be my last "President's Desk", I wish to take this opportunity to thank all of you who have contributed in your own way to the functioning of the Society this year. To name names would necessitate the duplication here of a significant proportion of the membership list, so I'll refrain from doing that. Suffice it to say, that one of the satisfactions of the President's office is to perceive the commitment of members to the Society's aims, and the efforts of so many individuals directed towards the achievement of those aims. I thank you all.

Since the last Newsletter, much has transpired in the Society. As usual, I'll try to summarize here what I feel is most pertinent and interesting. There are a number of items, in particular, about which we solicit your opinion, so please do read on.

16th CONGRESS

One hundred and thirty-five abstracts have been accepted by the scientific program committee and organized into sessions which will begin early on May 26 and end at noon on May 28. Wednesday morning will be devoted entirely to a plenary session on the theme of sea ice, featuring Mr. G.N. Ewing as theme speaker, and four keynote speakers who will review the present state-of-the art in areas ranging from icebergs to the relation

between sea ice and global climate. An innovation this year will be a special plenary session on Thursday morning in which Mr. J.P. Bruce, Mr. G.N. Ewing, and Mr. G. MacNabb will present reports to the Society on the present and future of meteorology, oceanography and their research in Canada. In view of the bilingual nature of the Society and the location of the Congress, the present plans include providing simultaneous translation for these plenary sessions.

The Annual General Meeting will be held on Wednesday evening, and I hope that all members who attend the Congress will plan to be there. Nevertheless, it does concern me that the AGM attendance is typically only a small fraction (10-15%) of the entire membership, particularly when decisions are frequently made there which affect everyone. Because of this concern, I wish particularly to bring to your attention a proposal made by Council at its last meeting that regular membership fees be increased from \$30 to \$40. Council plans to present this proposal to the AGM. New initiatives undertaken by the Society, combined with the ravages of inflation, have necessitated the first proposed membership fee increase in several years. I welcome your written comments on the proposal, particularly if you are unable to attend the Congress.

If you are in the habit of long-range planning, you may wish to know that the Alberta Centre is planning to extend an invitation to the Society, at the AGM, to hold the 17th Congress at the Banff Springs Hotel, May 2-5, 1983. Please note the early date in May. The proposed theme is "Day-One Forecasting".

SPECIAL INTEREST GROUPS

Council has been notified of an imminent petition to form a special interest group in Agricultural and Forest Meteorology. This will be considered at the Congress Council meeting. There has also been a suggestion made regarding a possible special interest group in Operational Meteorology. Any supporters of this motion should get in touch with Darryl Sortland (phone 403-973-8184).

CHINOOK

I am sorry to have to report on the demise of Chinook magazine. Mike Newark, its publisher, says that it just hasn't been financially viable. Although this promising popular Canadian meteorological magazine had no direct affiliation with the Society, over 100 members were receiving it as part of a special bulk subscription arrangement which the Society had negotiated. Suffice it to say, that both the Society and the publisher will endeavour to arrange appropriate compensation to those whose subscription will not be completed. Nevertheless, I do wonder whether the Society might wish to do a little more than merely lament this untimely passage. Once again, I'd appreciate comments, particularly from those of you who were receiving Chinook.

MEDIAROLOGY

If you have ever wondered why the weather forecast on your favourite radio station was brought to you by someone from Philadelphia, now is the time to speak up! The Committee on Professionalism is beginning to think of ways in which the Society, in concert with AES, may be able to address the problem of the Americanization of our radio forecast. The Committee, I'm sure, would welcome the views of both individual and corporate members on this matter (phone Bob Charlton, 403-432-5672).

MEMBERSHIP

The Society's continued growth, as witnessed by the more than 30 new members accepted at the last Council meeting, is very gratifying, but should not leave us complacent. A recent survey indicates that fewer than half of the complement of AES meteorologists and scientists actually belong to the Society. While many individuals will have their own legitimate reasons for not wishing to join CMOS, for many others, it may simply be a matter of oversight. Do your part, and invite a friend or colleague to join the Society! Membership application forms are available through your local Centre executive, from the Corresponding Secretary, or from me.

Best wishes,

Edward Lozowski
President

NEW MEMBERS

Daniel Kelley
Halifax, N.S.

Chris Fund
Toronto, Ont.

Rebecca Milo
Nepean, Ont.

Prof. W. James
Hamilton, Ont.

G. Hugh MacKay
Winnipeg, Man.

Normand Michaud
Alymer, Que.

Michael D. Moran
Tallahassee, Fla.

Gerald L. Diamond
Toronto, Ont.

Nigel T. Roulet
Hamilton, Ont.

Thomas P. Barker
Vancouver, B.C.

Yves G. Bajard
Vancouver, B.C.

G. Blaine Jelley
Gloucester, Ont.

Robert A. Halliday
Regina, Sask.

Susan A. Digby
Ottawa, Ont.

ENERCORP Instruments Ltd.
Toronto, Ont.

Michael C. Gow
Victoria, B.C.

Brendan Holden
Victoria, B.C.

James B. Dempsey
Victoria, B.C.

William J. Blackburn
Ottawa, Ont.

Douglas L. Golding
Vancouver, B.C.

Gaynor P. Williams
Ottawa, Ont.

James W. S. Young
Toronto, Ont.

Terry R. Allsopp
Richmond Hill, Ont.

Boris Weisman
Downsview, Ont.

Harold S. Belore
Willowdale, Ont.

William James
Hamilton, Ont.

Karen Finstad
Edmonton, Alta.

Kenneth H. Clark
Ottawa, Ont.

Byron D. Brodie
Dartmouth, N.S.

Armand Lachance
Rimouski, Ont.

J. Walter Strapp
Richmond Hill, Ont.

David M. Pollock
Nepean, Ont.

CORPORATE MEMBERS

Aanderaa Instruments Ltd. Victoria, B.C.	Hermes Electronics Ltd. Dartmouth, N.S.
Airflow Development Canada Ltd. Mississauga, Ontario	Hymeteq A.L. Ltd. Downsview, Ontario
Alberta Agriculture Advisory Committee on Weather Modification Three Hills, Alberta	MacDonald Dettwiler & Assoc Ltd. Richmond, B.C.
Bendix Aviation Electric Ltd. St. Laurent, P.Q.	MacLaren Plansearch Ltd. Dartmouth, N.S.
Bristol Aerospace Ltd. Winnipeg, Manitoba	M. E. P. Ltd. Downsview, Ontario
Dobrocky Seatech Ltd. Victoria, B.C.	NORDCO Ltd. St. John's, Nfld.
Fenco Consultants Calgary, Alberta	Ontario Hydro Oakville, Ontario
Frederick Goertz Ltd. Willowdale, Ontario	Petro-Canada Calgary, Alberta
Geneq Inc. Anjou, Quebec	Wellsdale Research Limited Edmonton, Alberta
INTERA Environmental Consultants Ltd. Calgary, Alberta.	

SUSTAINING MEMBER

N. Sargent
Downsview, Ontario.

16th ANNUAL CONGRESS - OTTAWA UNIVERSITY

MAY 26-28, 1982

With the Congress and Annual Meeting less than two months away, it is time to provide you with an update on earlier information. Please take note of these details and pass along copies to any of your colleagues who might be attending the Congress but may not see this Newsletter.

REGISTRATION

It is hoped that most of you who will be attending the Congress will have already registered by the time you read this. If not, pre-registration may still be made by mail, using the form included in this Newsletter. The hotels advise that they will be unable to hold the rooms we have reserved beyond April 23rd due to the very heavy seasonal demand of tulip festival, conventions, etc., so late registrants may have difficulty with accommodation.

A registration desk will be established in the lobby of the Fauteux building during the following periods:

May 25	1800 - 2300
May 26	0730 - 1030
May 27	0800 - 1000

All delegates are asked to report to the registration desk to obtain additional Congress material, name tags and information concerning university facilities.

ACCOMMODATION

For those of you who will be staying at the University, registration for accommodation will be located in the Stanton Building, 100 Hastey Street (see maps, attached). The accommodation desk is open 24 hours a day, phone (613) 231-5400. Checkout time is 11:00 A.M. The location of the hotels is also shown on one of the maps.

Please note that all reservations for both hotel and university accommodation are being handled by the University of Ottawa Convention and Catering Services located at:

648 King Edward Avenue
Ottawa, Ontario (Canada)
K1N 6N5
Phone: (613) 231-7055

UNIVERSITY FACILITIES

Parking permits will be available at the accommodation and registration desk (\$1.50 per day).

Meals may be obtained in the Cafeteria located in the University Centre. Cafeteria hours are 7:00 A.M. to 7:00 P.M. Bar facilities are located on the second floor of the University Centre.

Passes (\$0.75 per day) for use of University facilities which include pool, gymnasium, squash courts, etc., will be available at the accommodation registration desks.

SOCIAL PROGRAM

An interesting social program is planned for the 1982 Congress in Ottawa.

Activities will begin with an "Ice Breaker" at Fauteux Hall, University of Ottawa, on Tuesday May 25, from 7:00 to 10:00 P.M. Wine and cheese, non-alcoholic punch, and a limited coffee service will be provided. This event will be an excellent opportunity to meet with old friends and make new acquaintances in informal surroundings.

Thursday evening will begin with a Cash Bar at the University of Ottawa Cafeteria at 6:30 P.M. followed by the Congress Banquet at 7:30 P.M. The guest speaker, Capt. Tom C. Pullen, is sure to provide an interesting and entertaining address. The Patterson Medal and CMOS awards and prizes will also be presented, and a fine evening is expected.

In addition to planned Congress functions, the National Capital Region has much to offer delegates and spouses alike. Good restaurants, night spots, historic sites and jogging trails are all within walking distance of the University and Congress hotels. Activities available include cruises along the Rideau, White-Water Excursions and shopping on Sparks Street Mall. Special arrangements have been made for a tour of the Governor General's residence on Friday, May 28th at 9:45 A.M.

EXHIBITS

This year's Congress will include equipment display by 20 companies in the fields of meteorology, hydrology and oceanography. At the time of writing (March 19), 14 of these display areas have already been reserved. Companies wishing to reserve one of the remaining spaces should contact Brian O'Donnell or Bob Jones at (819) 997-3511 as soon as possible.

On Thursday, May 27 from 2:45 to 4:00 P.M., there will be a "special period" set aside for delegates to meet with representatives of these companies. This period will also focus on the poster sessions of the Congress.

CMOS CONGRESS PROGRAM OF EVENTS

<u>Time</u>	<u>Session/Event</u>	<u>*Location/Room No.</u>
May 26-28	Poster Sessions (20)	3rd Floor Walkway

Tuesday - May 25

08:00 - 17:00	DCP Workshop - CACRS	Moot Court
08:00 - 12:00	CMOS Professional Committee	323
08:00 - 12:00	CMOS Public Information Committee	322
09:00 - 12:00	CMOS Editorial Committee	315
13:00 - 17:00	CMOS Education Committee	316
13:00 - 17:00	CMOS Membership Committee	323
13:00 - 17:00	CMOS Scientific Committee	321
14:00 - 17:00	CMOS Centre Chairman Committee	322
18:00 - 23:00	Registration	Lobby
18:00 - 20:00	CMOS Council Meeting	361
19:00 - 22:00	Wine and Cheese/Icebreaker	3rd Floor

Wednesday - May 26

07:30 - 10:30	Registration	Lobby
08:30 - 08:45	Welcoming Address	Moot Court
08:45 - 09:30	Keynote	Moot Court
10:00 - 12:00	Theme - Sea Ice	Moot Court
13:00 - 15:00	1A Remote Sensing of Sea Ice	351
13:00 - 15:00	1B DCP Networks/Stations	359
13:00 - 15:00	1C Large Scale Circulation	361
15:30 - 17:15	2A Regional Sea Ice Conditions	351
15:30 - 17:15	2B DCP Sensors	359
15:30 - 17:15	2C Boundary Layer/Mesoscale Modelling	361
19:00 -	CMOS Annual General Meeting	Moot Court

*All events in Fauteux Hall except where noted.

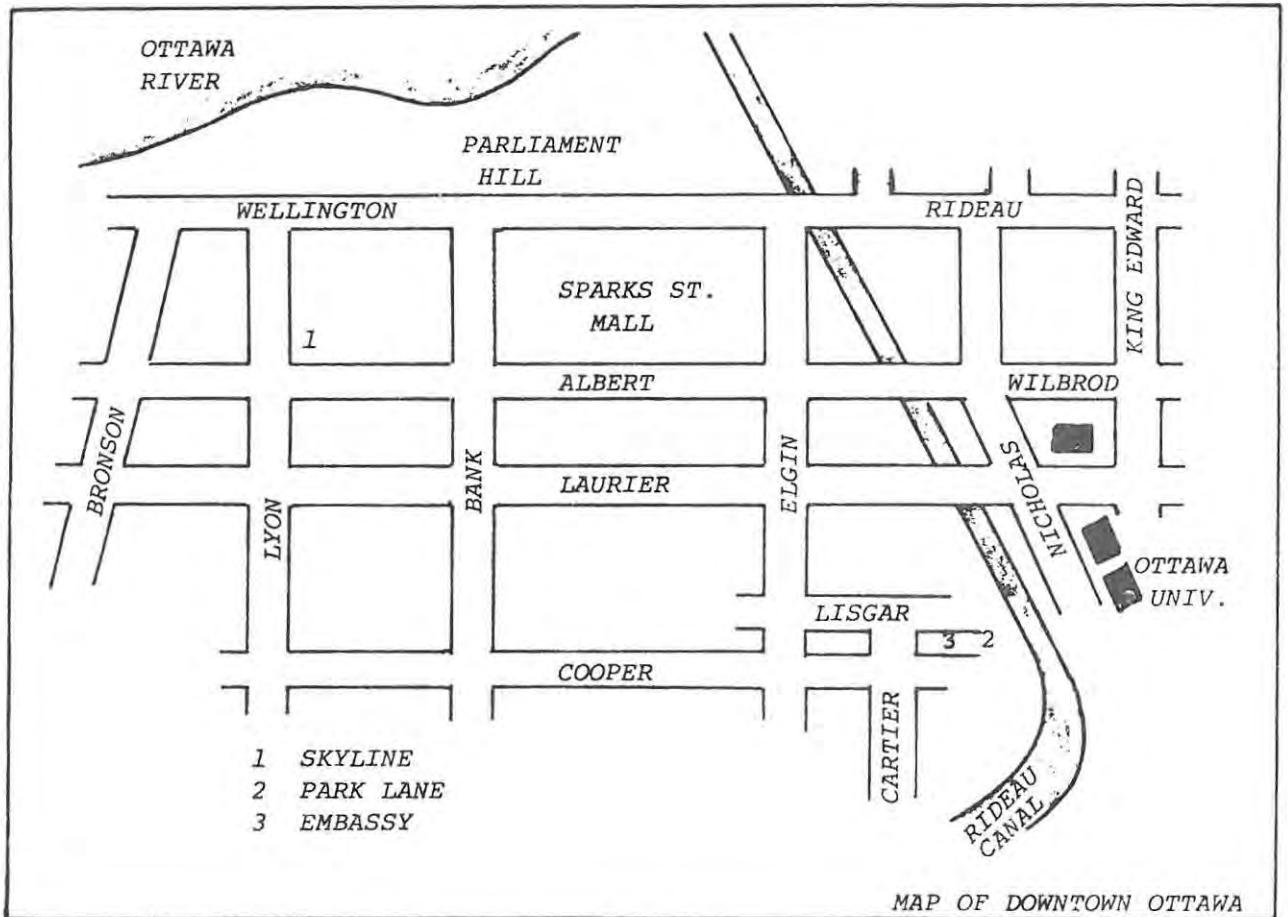
CMOS CONGRESS PROGRAM OF EVENTS

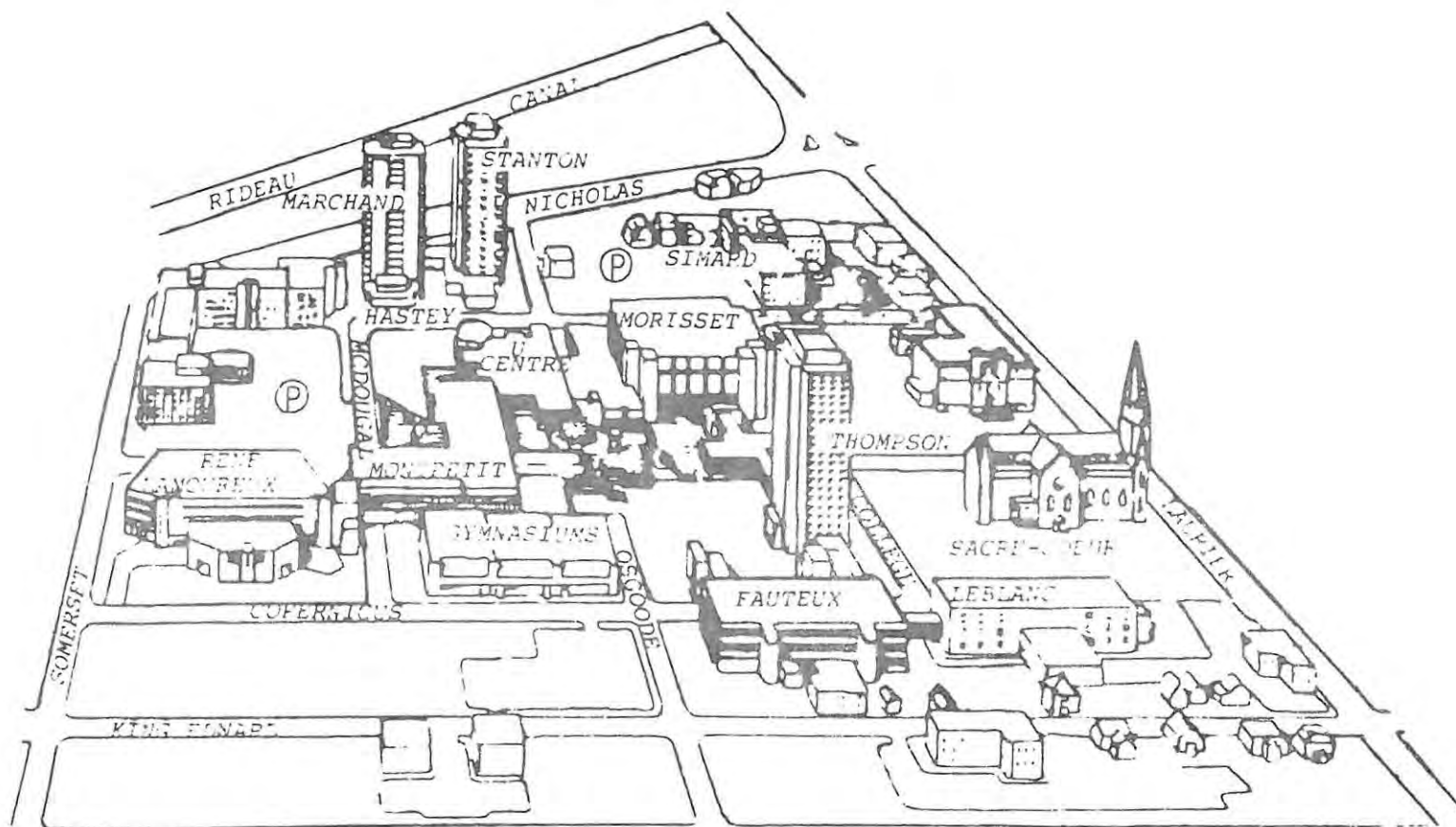
<u>Time</u>	<u>Session/Event</u>	<u>*Location/Room No.</u>
08:00 - 10:00	Registration	Lobby
08:00 - 12:00	CACRS Meeting	315
08:00 - 09:45	Special Session - Today and Tomorrow	Moot Court
10:15 - 12:00	3A Sea Ice Modelling	351
10:15 - 12:00	3B Weather Forecasting	359
10:15 - 12:00	3C Biometeorology	361
13:00 - 14:45	4A Icebergs	351
13:00 - 14:45	4B LRTAP Models	359
13:00 - 14:45	4C Numerical Weather Prediction	361
14:45 - 16:00	Commercial Exhibits/Posters	3rd Floor
16:00 - 17:15	5A Circulation-Estuarines, Coastal, Lakes	359
16:00 - 17:45	5B Cloud Physics	351
16:00 - 17:15	5C Ice Engineering	361
18:30 - 19:30	Cocktails - Cash Bar	Cafeteria U. Centre
19:30 -	CMOS Awards Banquet	Cafeteria U. Centre

Friday - May 28

08:30 - 09:45	5A Oceanic Mixing/Water Mass Modification	359
08:30 - 09:45	6B Air Quality	351
09:45 - 10:45	Tour of Governor General's Residence	-
10:15 - 11:00	7A Low Frequency Waves	361
11:00 - 12:00	7B Oceanic Modelling	361
10:15 - 11:30	7C Boundary Layer Meteorology	359
10:15 - 12:00	7D Climate	351

*All events in Fauteux Hall except where noted.





UNIVERSITY OF OTTAWA
PARTIAL MAP OF CAMPUS

PRE-REGISTRATION: ANNUAL CONGRESS AND GENERAL MEETING 26-28 MAY 1982

NAME _____ (PLEASE PRINT)

ADDRESS _____ POSTAL CODE _____

TELEPHONE NUMBER _____ EMPLOYER _____

I enclose the registration fee, as indicated:

☐ Member (\$60); ☐ Non-member (\$80); ☐ Retired Member (\$30); ☐ Student (\$10)

☐ My spouse will also be attending and would be interested in participating in one or more of the tours.

NOTES: Those attending the meeting of the CMOS Hydrology Special Interest Group will also use this registration form and register as CMOS Members (\$60).
: Except for students, the registration fee includes the banquet.

ACCOMMODATION - We have reserved accommodation as follows:

University of Ottawa - Single (\$18)
(Residences on campus) - Double-twin bedded (\$25)
- Shared Room (\$12.50)

Embassy Hotel - Bachelor Apt : Single (\$39) - Double (\$44)
25 Cartier Street - 1 Bedroom Apt: Single (\$44) - Double (\$49)

Skyline Hotel
101 Lyon Street - Single (\$55) - Double (\$55)

Park Lane Hotel
111 Cooper Street - Single (\$51) - Double (\$63)

All reservations will be made by the University of Ottawa on a first-come first-served basis. Please indicate your preferences in the space below. Hotel preferences in order of priority should also be given in the event that University of Ottawa rooms are full. Dates/times of arrival/departure should also be included.

1.....

2.....

3.....

PLEASE RETURN THIS FORM BEFORE APRIL 16, 1982 ALONG WITH PAYMENT FOR REGISTRATION ONLY (CHEQUE OR MONEY ORDER PAYABLE TO CANADIAN METEOROLOGICAL AND OCEANOGRAPHIC SOCIETY) TO THE FOLLOWING ADDRESS:

University of Ottawa
Convention and Catering Services
648 King Edward Avenue
Ottawa, Ontario (Canada)
K1N 6N5

Reference: CMOS Congress

NEWS FROM THE CENTRES

Alberta Centre - The annual meeting of the Alberta Centre was held on 7 December 1981. Several documents dealing with "Qualifications for Professional Status", "The Need for Credentials", and "A Code of Ethics for Professional Members" were discussed. The election of the 1982 Executive took place with the following results:

Chairman	- C.M. Sackiw
Vice-Chairman	- E.T. Hudson
Secretary-Treasurer	- A. Davis
Public Information Officer	- Dr. R.G. Humphries
Calgary Representative	- Professor R.D. Rowe

Following the election, an informal slide and film presentation was made by some of the members.

On 3 February, the Centre had its first meeting of 1982. Mr. F. Robitaille, of the Alberta Research Council, presented a talk on assessing the weather modification techniques used by I.P. Krick Associates in southern Alberta. Part of this assessment is to prove or disprove the existence of ice nuclei pools created by the ground generators operated during 1981. If these pools are proved to exist, then future assessment will determine the effects of these ice nuclei on ice formation.

On 17 February, the CMOS speaker, Dr. P. Taylor, spoke to a group of CMOS members in Calgary. Then on 3 March, Dr. Taylor came to Edmonton for a dinner meeting and presented his talk on wind power in Canada. This was a well attended meeting which was enjoyed by everyone in attendance. Dr. Taylor briefly explained some of the work being done in southern Alberta and then continued his talk by discussing both wind energy potential in Canada and project AEOLUS.

The Local Arrangements Committee for the 1983 Congress was formed earlier in the year and plans are well underway for next year's Congress.

Ottawa Centre - Since the last newsletter report, the Ottawa Centre has had three general meetings. On December 2, Dr. Rene Ramseier gave a talk on the AES/RadarSat Experiment conducted at Mould Bay during this past October. Rene outlined the technical aspects of the experiment but concentrated on the human aspects including the impact of a large group of outsiders on a small northern base and his experiences with the Inuit technical help that was used. On January 27, Dr. George Hobson, the Director of the Polar Continental Shelf Project discussed the "Impact of Mega Projects

on the North". His talk revolved around the social, economic and environmental impacts and ways to minimize the negative impacts on this sensitive area and its people. On February 24, the AES/CMOS touring speaker, Dr. Peter Taylor, gave his lecture on Wind Power in Canada. This talk combined an excellent technical discussion on the merits and theory of generating electrical power from the wind with a lighter description of the practical aspects.

In keeping with the luncheon format of our meetings, the Ottawa Centre has tried to present speakers with general interest topics rather than highly technical dissertations. Judging from the attendance, which averages about 40 people (60% of our membership), this tactic has been received favourably.

Future plans include our annual dinner meeting on March 30 and another luncheon meeting in April. The dinner meeting speaker will be Phil Tilney, heard regularly on CBC radio, speaking on "Weather Lore".

Halifax Centre - We will talk of our meeting activities in another Newsletter. Meanwhile, there is one thing worth noting. The 1981-82 elected Chairman, Denis Lefavre, being close to moving out of the area, a shuffling of executive of the Halifax Centre was in order. We took the opportunity to add a membership officer to the group.

Here is the new Executive of the Centre, elected at our March 3rd meeting, to complete the year:

Mr. Eldor J. Oja, AES	- Chairman
Dr. Don J. Lawrence, B.I.O.	- Secretary
Dr. Francis C. Tan, B.I.O.	- Treasurer
Mr. Bill Richards, A.E.S.	- Membership Officer

Quebec Centre - Two distinguished members of SMQ have recently published major works in meteorology. First, G.O. Villeneuve's, Glossaire de météorologie et de climatologie has gone to a revised second edition. This book is a real gold mine of definitions, short explanations and French to English meteorological vocabulary. The second is Urban Climate by H.E. Landsberg. This work constitutes a landmark in urban climatology and will be of the utmost interest for anyone concerned with this field. I am including a photocopy of the first page of these books for full reference.

G.-Oscar Villeneuve

GLOSSAIRE DE MÉTÉOROLOGIE ET DE CLIMATOLOGIE

*Deuxième édition
entièrement revue et augmentée*



CHRONOMA 75

LES PRESSES DE L'UNIVERSITÉ LAVAL
Québec 1990

The Urban Climate

HELMUT E. LANDSBERG

*Institute for Physical Science and Technology
University of Maryland
College Park, Maryland*



ACADEMIC PRESS

A Subsidiary of Harcourt Brace Jovanovich, Inc.
New York, London, Sydney, Tokyo, Singapore

GRADUATE THESES 1981

UNIVERSITY OF BRITISH COLUMBIA

Department of Oceanography

Ph.D.

- | | |
|--------------|---|
| W.W. Hsieh | Resonant interactions between continental shelf waves. |
| D.J. de Mora | Manganese chemistry in the Fraser Estuary. |
| A.E. Hay | Submarine channel formation and acoustic remote sensing of suspended sediments and turbidity currents in Rupert Inlet, B.C. |

Engineering Department

Ph.D. (1980)

- | | |
|--------------------|--|
| Dianne V. Ingraham | Rainfall Estimation from Satellite Images. |
|--------------------|--|

Geography Department

Ph.D

- | | |
|--------------------|--|
| Donald L. Forbes | Babbage River Delta and Lagoon: Hydrology and Sedimentology of an Arctic Estuarine System. |
| John L. Knox | Atmospheric Blocking in the Northern Hemisphere |
| Michael D. Novak | Moisture and Thermal Regimes of a Bare Soil in the Lower Fraser Valley during Spring. |
| David Spittlehouse | Measuring and Modelling Evapotranspiration from Douglas Fir Stands. |

M.Sc.

- | | |
|-------------------|---|
| Gary E. Barrett | Streamflow Generation in a Sub-Alpine Basin the Coast Mountains of British Columbia. |
| David P. Jones | Particle Vibration at the Boundary in Turbulent Shear Flow. |
| Charles H. Wallis | Development of a Climate-based Forage Growth Model for a Peace River Community Pasture. |

UNIVERSITY OF ALBERTA

Meteorology Division

and

Institute of Earth and Planetary Physics

Ph.D.

- | | |
|--------------|---|
| M.M. Oleskiw | A computer simulation of time-dependent rime icing on airfoils. |
|--------------|---|

M.Sc.

T.O. Goos	A finite-element method applied to a two-level quasi-geostrophic model atmosphere.
R.C. Hopkinson	Weather map types and associated cloud distribution over Alberta and British Columbia.
A.S. Nursall	The effects of weather conditions on the frequency and severity of migraine headaches in southwestern Ontario.
C. Park	Industrial cloud, fog, and precipitation at very low temperatures.
J.G. Wieler	The application of satellite and radar data in thunderstorm research.

McGILL UNIVERSITY

M.Sc.

Thomas Carrieres	Evaporation and drop interactions in a rainshaft.
Gaetan Ferland	L'influence des particules géantes et ultra-géantes dans les premiers stades de formation de la pluie.
Pierre Koclas	Numerical simulation of frontogenesis using the finite-element method.
Alain Patoine	Etude non-linéaires d'ondes baroclines longues forcées.

Ph.D.

Aldo Bellon	Short term forecasting of precipitation using digital radar and satellite data.
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UNIVERSITE DU QUEBEC A RIMOUSKI

Département d'Océanographie

Mario Bergeron	Contribution à la géochimie du bore dans l'estuaire du Saint-Laurent.
Joseph-Marie Briand	Etude descriptive des amplitudes des ondes de tempête de l'Est du Canada et de l'estuaire du Saint-Laurent.
Yves Gratton	Le phénomène de Hurst en Océanographie.
Guy Fortin	Etude de la sédimentation dans le port de Gros-Cacouna, estuaire du Saint-Laurent.
Christiane Ciupka-Luzzi	Etude de la structure d'une communauté benthique de substrat rocheux du littoral de l'estuaire maritime du Saint-Laurent et influence des facteurs édaphiques.
Nelson Belzile ('82)	Processus hydrogéochimiques de l'estuaire de la Rivière Rimouski.
Rémy Morin ('82)	Contribution à la sédimentologie de la région de Trois-Pistoles.

UNIVERSITY OF MANITOBA

Geography Department

M.A.

- | | |
|--------------------------|--|
| Harold L. Driedger ('69) | An analysis of the relationship between total daily solar radiation receipt and total daily duration of sunshine at Winnipeg, 1950 to 1967. |
| Bhawan Singh ('73) | Break-up and freeze-up dates: A case study of inconsistencies in climatological data. |
| Allan M. Sawchuk ('74) | The climatology of multiply reflected global radiation at Toronto, Canada, 1 January to 30 June, 1970: A Case study of climatological application. |
| Andreas Georgiadis ('76) | Power spectrum analysis of wind speed in the prairie provinces. |
| Larry R. Partap ('76) | Structural behaviour of inversions in lowest 810 feet during their development and decay in winter at Winnipeg. |
| Ian M. Graham ('78) | Analyses of selected climatic factors important to agriculture in northern Manitoba and Saskatchewan: Radiation and temperature. |
| Marcia A. Faurer ('81) | Evidence of sea ice conditions in Hudson Strait 1750-1870, using ships' logs. |
| Susan L. Dunlop ('81) | An agroclimatology of southern Manitoba. |
| Gerry N. Madison ('81) | Reconstruction and testing of historical dates of first frost and first snow, James Bay, Ontario, 1705-1870. |
| Mary A. Magne ('81) | Two centuries of river ice dates in Hudson Bay region from historical sources. |
| John D.B. Krpan ('82) | The characterization and estimation of soil temperatures in Manitoba. |

GUELPH UNIVERSITY

M.Sc.

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|---------------------|--|
| F.S. Foo ('80) | Weather-based model for estimating oil palm fruit yield. |
| N. Livingston ('80) | The development and field use of a steady-state diffusion porometer. |
| D. Day ('81) | Leaf osmotic potential measurements in corn, and use of wind machines for frost protection in Ontario. |

DALHOUSIE UNIVERSITY

Department of Oceanography

M.Sc.

- | | |
|---------------|---|
| C. K. Chong | Enzymatic activities as indicators of fish metabolism. |
| M. G. Lowings | Carbonate chemistry in the Central Arctic Ocean. |
| Juszko, B.A. | The Strait of Belle Isle - physical aspects and biological implications of the flow. |
| K. E. Thomas | Seabird distribution in Cabot Strait, variability and associated oceanographic features. |
| J. LaRoche | Ammonium regeneration: its contribution to phytoplankton nitrogen requirements in a eutropic environment. |

Ph.D.

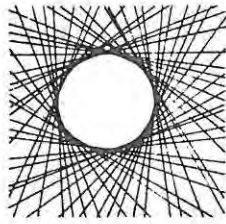
- | | |
|---------------|---|
| R. M. Gershey | The isolation and partial chemical characterization of bubble transportable organic matter in seawater. |
| G. M. Quinlan | Numerical models of postglacial relative sea level change in Atlantic Canada and the Eastern Canadian Arctic. |

SPECIAL INTEREST GROUP

APSIG Update

The second issue Spring 1982 appeared about a month ago. It is published by the Air Pollution Meteorology Special Interest Group and includes reports on two recent conferences, reviews of recent books, a report on an acoustic sounder project in Alberta, and an oxidant study for Greater Vancouver.

For further information, contact Dr. John Reid, Atmospheric Environment Service, Downsview.



ENERGEX '82

An International Energy Exposition and Conference

August 23-29, 1982 Regina, Saskatchewan

ENERGEX'82 will explore the technical, economic, and human dimensions of energy self-reliance. The Solar Energy Society of Canada Inc. (SESCI), will be holding its eighth annual conference during ENERGEX '82. A highlight of the conference is the high calibre of guest speakers and panelists from around the world, including: Ivan Head, President of the International Development Research Centre; Stuart Smith, President of the Science Council of Canada; Hazel Henderson, energy futurist and author; and the Hon. J. H. Okwanyo, Minister of Energy, Government of Kenya.

August 23 - 27

SESCI Conference

- over 20 technical sessions
- workshops
- energy tours
- panel discussions

August 26 - 29

Exposition

Displays on:

- conservation • gas • coal
- geothermal • hydro • ocean
- uranium • solar • wind
- heavy oil • photovoltaics
- biomass

Hear what the experts have to say about the world's energy future by attending ENERGEX '82.

For registration in the conference or participation in the exposition contact:

Chairman
ENERGEX '82
SESCI '82 Conference
University of Regina
Regina, Saskatchewan
Canada S4S 0A2

ENERGEX '82 is sponsored by the Solar Energy Society of Canada Inc., the University of Regina, and more than 30 Canadian businesses, professional organizations and governmental departments.

GEORGE W. ROBERTSON, P.Ag.

CONSULTING AGROMETEOROLOGIST

Member's Activities

Mr. George W. Robertson, P.Ag., recently conducted a Roving Seminar on Agrometeorology in Asia for the World Meteorological Organization. This involved a two-week lecture series in each of five countries: Pakistan, Sri Lanka, Bangladesh, Burma and Thailand. Participants included professional personnel from the national meteorological agencies and from national agencies responsible for agriculture and food.

His lectures covered several topics relative to the development of an agrometeorological services within the national meteorological agency. Emphasis was placed on organization and management as well as on problems associated with the recognition and evaluation of weather-sensitive agricultural problem areas worth of research time and service efforts by a national meteorological agency.

Special emphasis was placed on the practical analyses and interpretation of current and historical data to meet the local weather-sensitive requirements of agriculture. Practical exercises were undertaken by the participants using local data for gaining first hand experience in data analyses and interpretation for specialized purposes such as the use and management of land and new crops. Also stressed, was the monitoring of current data, particularly rainfall, for the purpose of crop-weather surveillance systems for providing an early warning of crop failure as required by national food security programmes. The use of crop-weather models for forecasting crop yield and production was also discussed.

A number of other topics were covered briefly during the seminar. These included agrometeorological services for insect and disease control programmes, remoting sensing applications in agrometeorology, and farm-weather forecasts.

The participants were keenly interested in the seminar topics. They had been carefully selected for their sincere interest and activity in weather-sensitive problem areas. Most of them have little or no opportunity to attend international seminars and symposia outside their country. Furthermore, they do not have ready access to recent scientific and technical publications. Starved for up-to-date information on new technologies and developments in agrometeorology, they welcomed the opportunity for discussions with a visiting professional.

JAPAN METEOROLOGICAL SOCIETY

The Meteorological Society of Japan is celebrating its 100th Anniversary on May 3, 1982. In honor of the occasion, the Society will be holding a meeting May 25-28 (unfortunately coincident with the CMOS Congress) at Nihon-Kyoiku-Kaikan, Tokyo. If any member of CMOS is planning to attend this meeting, would they please identify themselves to the President, as we would like, if possible, to personally convey a message of congratulations from CMOS to the MSJ.

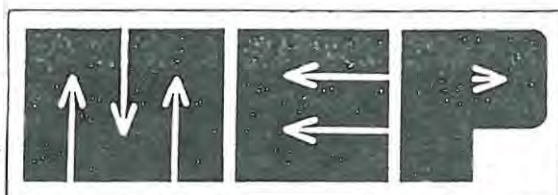
MEETING REPORT - SYMPOSIUM ON

THE FISHERIES AND THE OCEANOGRAPHY OF THE STRAIT OF GEORGIA

About a decade ago Jacques Cousteau, after being flown over the Strait of Georgia to evaluate its potential as a marine park, declared it moribond and estimated that it would be "dead within 50 years". With all his experience of clear photogenic seas, he was not used to silt, at least not in the lavish quantities with which the Fraser River paints the surface of the Strait of Georgia during freshet. The influence of the Fraser River on the oceanographic environment of the Strait of Georgia was only one of the many topics covered during the "Symposium on the Fisheries and the Oceanography of the Strait of Georgia", held in Nanaimo on February 18 and 19, 1982. About 200 people attended, drawn from industry, governments and universities, and attracted by the broad interdisciplinary nature of the proceedings. The Tally Ho Motel has comfortable rooms, an active pub, and reasonable conference facilities which combined to make the meeting congenial and informative. The organizers (the chairpersons of the various sessions) are to be thanked for their efforts. Some of the review papers should appear in the Canadian Journal of Fisheries and Aquatic Sciences at a later date.

Paul H. LeBlond

METEOROLOGISTS



MEP (Meteorological and Environmental Planning Limited) is a progressive privately owned consulting company specializing in the application of Meteorology and Oceanography for industrial use.

THE FORECAST OPERATIONS DIVISION of MEP has several positions available for meteorologists interested in specialized forecasting for agriculture, air pollution, aviation and marine activities.

Successful candidates should have comprehensive knowledge of synoptic meteorology and operational procedures as would normally be obtained from a government sponsored forecasting course. Additional in-house training in specialized areas will be available to successful candidates. An understanding of computer techniques would be an asset.

MEP offers excellent compensation and a comprehensive benefit package, as well as the opportunity to become personally involved with a rapidly growing meteorological consulting company.

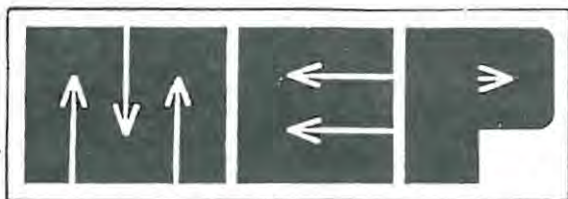
ALL APPLICATIONS WILL BE HELD IN STRICT CONFIDENCE.

Interested persons are invited to submit a letter of application and résumé to:

DIRECTOR,
FORECAST OPERATIONS DIVISION,
MEP COMPANY,
850 MAGNETIC DRIVE,
DOWNSVIEW, ONTARIO.
M3J 2C4

CONSULTING PROFESSIONALS

WITH BACKGROUND IN ATMOSPHERIC SCIENCE, METEOROLOGY OR OCEANOGRAPHY



Meteorological and Environmental Planning Limited (MEP) is a rapidly growing Canadian consulting group providing Integrated Environmental Services for Industry and Government in the following areas:

- Air Pollution Assessment - meteorological and climatological studies, state of the art dispersion modeling, monitoring network design and interpretation
- Specialized Forecasting - forecasting for industrial and marine applications, supplementary control systems, comprehensive weather information
- Environmental Prediction Systems - ocean waves, oil spill motion, emergency preparedness

Several positions have been created in the Consulting Services Division requiring senior scientists with extensive background in atmospheric science (physics, chemistry, meteorology) or oceanography relating to the air-marine interface.

Scientists or engineers with relevant experience should send their résumés in strict confidence to:

DIRECTOR,
CONSULTING SERVICES DIVISION,
MEP COMPANY,
850 MAGNETIC DRIVE,
DOWNSVIEW, ONTARIO.
M3J 2C4

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Lavalin

METEOROLOGISTS METEOROLOGICAL TECHNICIANS

MACLAREN PLANSEARCH IS LOOKING FOR METEOROLOGISTS AND TECHNICIANS TO JOIN THEIR WEATHER FORECASTING CENTRE IN DARTMOUTH, NOVA SCOTIA. SUCCESSFUL CANDIDATES SHOULD BE AT MT4 TO MT6 AND EG6 LEVELS OR EQUIVALENT. EXPERIENCE IN COASTAL AND OFFSHORE FORECASTING WOULD BE BENEFICIAL.

MACLAREN PLANSEARCH IS THE ENVIRONMENTAL CONSULTANCY WITHIN THE LAVALIN GROUP OF COMPANIES AND OFFERS EXCELLENT BENEFITS AND COMPENSATION AS IS CONSISTENT WITH THE SIZE OF THE ORGANIZATION.

ALL APPLICATIONS WILL BE HELD IN STRICT CONFIDENCE.

INTERESTED PERSONS SHOULD SEND THEIR RESUMES TO:

MACLAREN PLANSEARCH
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DARTMOUTH, NOVA SCOTIA
B3B 1L7





B O O K S

Book Review by T. Barluk, SBO.

SEA STATE FORECASTING - Graham P. Britton.
After a quick reading, this publication appears to be a comprehensive description of meteorological factors affecting sea state.

The book is well written without any rigorous mathematics, but a number of sections would require more than a casual reading to be fully appreciated.

Nomograms are provided for forecasting deep water waves, but two nomograms are required to determine height and period rather than the one Bretschneider currently used. Nomograms are also provided for shallow water waves which would be of particular interest in the Beaufort.

Also of particular interest are the sections discussing:

- method of determining effective winds
- effect of air density
- formation of waves with respect to current direction
- importance of wave steepness.

I feel this book would be valuable reference manual and a number of copies should be made available to operational forecasters dealing with a marine environment.

Handbook of Meteorological Forecasting for Soaring Flight. OSTIV (Organisation Scientifique et Technique Internationale du Vol a Voile). 1978. 101 pp. \$18.00. Paperbound. World Meteorological Organization (No. 495, Technical Note No. 158).

The Use of Satellite Data in Rainfall Monitoring (Eric C. Barrett and David W. Martin, 1981, 340 pp., \$57.00, hard cover, Academic Press, 111 Fifth Ave., New York, NY 10003) is an attempt to synthesize and analyze the more promising methods in the field of rainfall data gathering by satellites, either independently or in conjunction with conventional methods of rainguage and radar. At the same time the book looks for ways in which satellites might be used more effectively in rainfall monitoring in the future. It is meant to be of interest to scientists, both pure and applied, whose subjects involve rainfall hydrometeorology in some direct and indirect way.

Wind Machines (Second Edition) Frank R. Eldridge, 1979, 231 pp., \$17.95, hardbound, Van Nostrand Reinhold/The MITRE Energy Resources and Environment Series, 135 West 50th St., New York, N.Y. 10020) reviews the technical, economic, environmental, sociological and institutional aspects of wind energy. Topics include economic viability, public acceptance, wind availability, directions of current research and development, and applications. Siting problems, performance characteristics, and various system designs (such as horizontal and vertical axis rotors, Darrieus-type rotors, and vortex generators) are all explained in terms the layman can understand but with enough technical data for engineers.

CONFERENCES

San Diego, CA.	June 8-11, 1982	4th Conference on Ocean-Atmosphere Interaction.
Denver, CO.	June 13-17, 1982 AMS/AWRA.	International Symposium on Hydro-meteorology.
Fredericton, N.B.	June 14-15, 1982	Canadian Hydrology Symposium - 82. Hydrological Processes of Forested Areas.
Madison, WI.	June 21-25, 1982	11th International Laser Radar Conference.
Kingston, Ont.	June 21-24, 1982	1982 CAP Congress and Annual General Meeting.
Seattle, WA.	June 26-27, 1982	12th Conference on Weathercasting.
Seattle, WA.	June 28-July 2, 1982.	9th Conference on Weather Forecasting and Analysis.
Durham, New Hampshire	July 29-30, 1982	NATO Advanced Study Institute on the Air-Sea Exchange of Gases and Particles.
Rolla, MO.	August 2-6, 1982	6th International Symposium on the Physics and Chemistry of Ice.
Cannes, France	August 24-27, 1982	13th International Technical Meeting on Air Pollution Modelling and its Application.
Chicago, Ill.	Nov. 15-17, 1982	Conference on Cloud Physics.
Hamilton, Ont.	Oct, 19-23, 1982	The Man-Environmental Impact Conference.
Detroit, Mich.	Nov. 7-10, 1982	APCA Conference on Atmospheric Deposition.
Los Angeles, CA.	Nov. 29 - Dec. 3, 1982 - AMS/EPA	Fourth Conference on Precipitation Scavenging and Dry Deposition.



Canadian Meteorological and Oceanographic Society
La Société Canadienne de Météorologie et d'Océanographie
Suite 805, 151 Slater, Ottawa Ontario Canada, K1P 5H3
Telephone (613) 237-3392



March 28, 1982

NOTICE TO ALL MEMBERS:

In accordance with By-Law 4(c) of the Canadian Meteorological and Oceanographic Society, I am providing you with the following:

- a) A list of members of the current Council.
- b) A list of nominations for 1982-1983 made by the Nominating Committee.
- c) A copy of By-Law 4(d)

BY-LAW 4(d):

Nominations (in addition to those made by the Nominating Committee) will be accepted by the Recording Secretary up to the last day of March**, provided -

- (i) that the nominee is eligible for the office for which he is nominated,
- (ii) that the nominee acknowledges his willingness to accept office if elected by signing the nomination, and
- (iii) that the nomination is signed by four members.

RÈGLEMENT 4 (d):

Les déclarations de candidatures (en plus de celles proposées par le comité de mise en candidature) sont acceptées par le secrétaire d'assemblée jusqu'au dernier jour de mars**, pourvu -

- (i) que le candidat soit éligible au poste pour lequel il est présenté,
- (ii) que le candidat confirme sa volonté d'accepter le poste s'il est élu en contresignant l'acte de mise en candidature, et
- (iii) que l'acte de mise en candidature soit signé par quatre membres.

** before April 20, 1982 - avant 20 avril 1982.

Pete J. Kociuba
Corresponding Secretary/
Secrétaire correspondant



Canadian Meteorological and Oceanographic Society
La Société Canadienne de Météorologie et d'Océanographie
Suite 805, 151 Slater, Ottawa Ontario Canada, K1P 5H3
Telephone (613) 237-3392



March 28, 1982

The Council of the Canadian Meteorological and Oceanographic Society for 1981-1982 consists of the following:

<u>President/Président</u>	Dr. Edward Lozowski
<u>Vice President/Vice-Président</u>	Dr. Richard Asselin
<u>Treasurer/Trésorier</u>	Mr. Randy Angle
<u>Corresponding Secretary/ Secrétaire correspondant</u>	Mr. Pete Kociuba
<u>Recording Secretary/ Secrétaire d'assemblée</u>	Mr. J. C. McLeod
<u>Chairmen of Local Centres</u>	Elected locally
<u>Councillors-at-Large/ Conseillers</u>	Dr. Robert Benoit Dr. E. P. Jones Mr. L. D. O'Quinn
<u>Auditor/Verificateur</u>	H. B. MacDonald

The following have been nominated for the Canadian Meteorological and Oceanographic Society Council for 1982-1983, and all have agreed to serve, if elected:

<u>President/Président</u>	Dr. Richard Asselin
<u>Vice-President/Vice-Président</u>	Dr. R. O. Ramseier
<u>Treasurer/Trésorier</u>	Mr. K. B. Yuen
<u>Corresponding Secretary/ Secrétaire correspondant</u>	Mr. J. C. Falkingham
<u>Recording Secretary/ Secrétaire d'assemblée</u>	Mr. J. Carr McLeod
<u>Membership Secretary/ Secrétaire de membres</u>	Mr. Hank Jones
<u>Councillors-at-Large/ Conseillers</u>	Mr. P. J. Kociuba Mr. P. Ducharme Dr. G. T. Needler

NOTICE TO ALL MEMBERS

AVIS à TOUS LES MEMBRES

In accordance with By-Law a) Amendment of By-Laws, and By-Law 10, Meetings, of the Canadian Meteorological and Oceanographic Society, I am providing you with the following:

- a) Notice of Motion from Council to amend the By-Laws - attached.
- b) Notice that the Annual General Meeting will be held May 26, 1982 at 7.00 P.M., University of Ottawa.

In addition to item (a) above this meeting will include those items listed under By-Law 10 (d) which reads:

"A General Meeting, to be called the Annual General Meeting, shall be held each year, on a day and at an hour to be determined by Council, to approve the minutes of the preceding Annual General Meeting, to receive the reports of Council, the auditor or auditors, and the ballot counters, to establish the fees for the next calendar year, to discuss and determine such questions as may be proposed relative to the affairs of the Society, to appoint an auditor or auditors for the ensuing year, and to install the Council elected for the ensuing year.

- c) The agenda for the Annual General Meeting will be in the Congress issue of Atmosphere-Ocean to be mailed to members prior to the Congress.

* * * * *

Conformément aux règlements suivants de la Société Canadienne de météorologie et d'océanographie:

règlement 1 - Amendement aux règlements -, article a
règlement 10 - Réunions,

je vous envoie les avis suivants:

- a) Avis de motion par le conseil d'administration concernant l'amendement de certains règlements. - inclus
- b) Avis vous informant que l'assemblée générale annuelle aura lieu le 26 mai 1982 à 7.00 P.M., Université d'Ottawa.

En plus des amendements proposés en (a), l'assemblée examinera les différents points contenus dans l'article (d) du règlement 10, article qui se lit ainsi:

Une assemblée générale, appelée l'assemblée générale annuelle, est tenue chaque année, au jour et à l'heure déterminés par le conseil d'administration, aux fins d'approuver le procès verbal de l'assemblée annuelle précédente, de prendre connaissance des rapports du conseil d'administration, du (des) vérificateur(s) et des scrutateurs, de fixer les montants des cotisations pour la prochaine année civile, de discuter et de prendre des décisions sur les questions concernant les affaires de la Société, de choisir un (des) vérificateur(s) pour l'année suivante et de procéder à l'investiture des administrateurs élus pour l'année suivante.

- c) L'ordre du jour de l'assemblée générale annuelle paraîtra dans le numéro du congrès de la revue Atmosphere - Océan, numéro qui sera posté aux membres avant le congrès.

NOTICE OF MOTION FROM COUNCIL
PROPOSED BY-LAW AMENDMENTS 1982

Council, at its meeting of May 26, 1981, approved the recommendations of the Prizes and Awards Review Committee. Three recommendations in particular necessitate amendments to the By-Laws of the Society. In brief, these are:

1. The establishment of a permanent Awards Committee, which would take over the nominating responsibilities of the former AWARDS and Citations Committees, and also the administration of the Society's awards, a task formerly handled by the Corresponding Secretary.
2. A change in the terms of reference of the President's Prize to clarify the award is for a "publication" rather than a "contribution", that the recipient need not be a member of the Society, and to make it feasible to present the award for a more current publication than had been the possible under the existing terms of reference.
3. The establishment of a new prize in applied oceanography to complement the Dr. Andrew Thomson prize in applied meteorology.

In order to implement these recommendations, the following By-Law amendments are proposed:

- A. DELETE By-Law 6(d) as it presently stands.
- B. ADD By-Law 6(d). An Awards Committee shall be established. The Committee shall recommend annually to Council a list of recipients for the Society's Prizes and Citations, periodically review the nature, value, and terms of reference of the Society's awards, proposing changes to Council when appropriate, and administer the distribution of awards within the budget allocated by Council. The Committee shall have 6 or more members, appointed by Council with advice from the Committee, the Chairman being selected by Council. The terms of appointment of the Committee members will normally be three years. The Committee shall prepare an annual report of its activities for Council.
- C. DELETE By-Law 6(g) as it presently stands.
- D. RENUMBER the present By-Laws subsequent to By-Law 6(g) as follows:
 - By-Law 6(h) BECOMES By-Law 6(g)
 - By-Law 6(i) BECOMES By-Law 6(h)
 - By-Law 6(j) BECOMES By-Law 6(i)
- E. DELETE Appendix to By-Laws (a) President's Prize as it presently stands.
- F. ADD Appendix to By-Laws (a) President's Prize.

A President's Prize may be awarded each year to an individual or individuals for a recent paper of special merit in the fields of oceanography or meteorology. The paper must have been published in ATMOSPHERE-OCEAN or have been presented to the Society membership at a national or local meeting, or have been accepted for publication in a refereed journal.
- G. ADD Appendix to By-Laws (e) the Prize in Applied Oceanography.

A Prize in applied oceanography may be awarded in each calendar year to a member or members of the Society, for a significant contribution to the application of oceanography in Canada.
- H. CHANGE "Citations Committee" to "Awards Committee" in By-Law 15(b) and By-Law 15(c).

AVIS DE MOTION PRESENTE PAR LE CONSEIL

Projet d'Amendement aux Règlements

Le Conseil a, à sa réunion du 26 mai 1981, approuvé les recommandations formulées par le Comité d'examen des prix et des récompenses. Trois recommandations, résumées ci-dessous, nécessitent une modification des règlements de la Société.

1. Un Comité permanent des récompenses sera créé, pour s'occuper des mises en candidature (responsabilité autrefois dévolue aux anciens Comités décernés par la Société (ce dont s'occupait auparavant le secrétaire-correspondant).
2. On modifiera les conditions d'attribution du Prix du président, pour préciser que cette récompense s'applique à une publication plutôt qu'à un membre de la Société et que le Prix peut être décerné pour une publication plus récente que ne le permettent les conditions actuelles.
3. Pour compléter le prix Andrew Thomson attribué en météorologie appliquée, on décernera un nouveau prix dans le domaine de l'océanographie appliquée.

Pour que ces recommandations puissent être mises en oeuvre, on propose de modifier ainsi les règlements:

- A. ABROGER le règlement 6(d) actuel.
- B. AJOUTER le passage suivant comme règlement 6(d): Un Comité des récompenses sera créé, et il présentera annuellement au Conseil la liste des personnes méritant les prix et les distinctions adjugés par la Société. Le Comité devra périodiquement examiner la nature, la valeur et les conditions d'attribution des récompenses décernées par la Société, il recommandera au Conseil les modifications appropriées et il administrera la distribution des récompenses dans les limites du budget accordé par le Conseil. Le Comité devra comprendre au moins six membres, nommés par le Conseil sur l'avis du Comité. Le président du Comité sera toutefois choisi par le Conseil. Les membres du Comité sont normalement nommés pour une période de trois ans. Le Comité fera annuellement rapport de ses activités au Conseil.
- C. ABROGER le règlement 6(g) actuel.
- D. RENUMEROTER ainsi les règlements:
Le règlement 6(h) DEVIENT le règlement 6(g)
Le règlement 6(i) DEVIENT le règlement 6(h)
Le règlement 6(j) DEVIENT le règlement 6(i)
- E. ABROGER l'annexe (a) actuelle (Prix du président) aux règlements.

- F. AJOUTER le passage suivant comme annexe (a) (Prix du Président) des règlements:

On peut décerner chaque année un Prix du président à une personne ou à un groupe ayant récemment rédigé un article présentant un intérêt spécial dans les domaines de l'océanographie ou de la météorologie. L'article doit avoir été publié dans Atmosphere-Océan ou avoir été présenté aux membres de la Société lors d'une rencontre nationale ou locale, et il doit avoir été accepté par le comité de lecture d'une publication scientifique.

- G. AJOUTER le passage suivant comme annexe (e) (Prix en océanographie appliquée) des règlements:

On peut décerner, chaque année civile, un Prix en océanographie appliquée à un ou plusieurs membres de la Société ayant fait une importante contribution dans l'application de l'océanographie au Canada.

- H. REMPLACER "Comité des distinctions" par "Comité des récompenses" dans les règlements 15(b) et 15(c).

RECEIPTS FOR MEMBERSHIP DUES

1982 membership receipts will be mailed in June 1982. Anyone requiring a 1982 receipt prior to this date or for the 1981 year should contact the Corresponding Secretary, Pete Kociuba, (403-437-1250).

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