



C.M.O.S. NEWSLETTER

APRIL 1978

VOL. 6 No. 2

THE PRESIDENT'S REPORT

In a letter dated April 20, 1977 to the then President of the Society, Dr. John Hay, Gordon McBean commented on deficiencies, as he saw them, in the CMOS Awards and Prizes program. The letter was printed in Newsletter Number 2, 1977.

At a recent meeting of Council the concerns raised received final consideration and the decisions listed below were reached:

1. The terms of reference for the President's Prize will be referred to the Scientific Committee for consideration and recommendation.
2. The Society will continue to welcome the participation of the Atmospheric Environment Service in the CMOS Awards Luncheon so that the Patterson Medal and its annual recipient can receive the recognition deserving of that important service award in the Canadian Meteorology.
3. A list of previous winners of CMOS Awards and Prizes will be printed in the Congress Issue of Atmosphere-Ocean. (Also in this issue of newsletter, Ed.)
4. The current-year award winners will be announced at the Awards Luncheon, the President's Prize to receive the emphasis accruing to it as the Society's Senior Award for scientific endeavour in meteorology and/or oceanography in Canada.
5. The names of the winners of the CMOS Awards and Prizes will be suitably noted in the earliest issues of both Newsletter and Atmosphere-Ocean subsequent to the Awards Luncheon.

While the changes are modest it is believed they will tend to heighten interest in our awards program without altering substantially the pattern that has evolved to date. Comments from members on the changes will be welcomed by Council after the 1978 Congress.

EDITOR'S COMMENTS

With this years Congress soon upon us it brings us closer to the end of another active year. The '77-'78 season has seen the introduction of oceanography into our society's name and the subsequent change in our constitution. The CMOS is a growing society (see News and Notes Report on Membership). However, through my regular conversations with all the CMOS centres, my position as a meteorologist in an operational forecast office and hearing John Maybanks' conveyance of the concerns of the Regina Centre (concerns expressed at February 17 Council Meeting) there appears to be a small fracture developing in our society. The operational meteorologists (forecasters) are expressing their concern that the Society does not relate to their needs.

This same problem in the American Meteorological Society led to the formation of a splinter group called the National Weather Association and the publication of the National Weather Digest. Annual subscriptions to the Digest is \$14.00, for the newsletter \$4.00 and for membership \$10.00; for a total of \$28.00, which is comparable to our CMOS dues of \$15.00. Many Canadian forecasters are looking to the NWA because they feel they are getting return for their money through the highly operationally oriented National Weather Digest.

Perhaps this problem can be put into its proper perspective by making the following statement;

CMOS is a society run by volunteers, therefore you get what you put into it. This means your time not only your money. Hopefully those of us concerned with operational meteorology will realize this fact. On the other hand, like any volunteer organization some put more into it than others and by doing so are always expected to give more and more. Therefore to all those volunteers finding themselves in executive positions throughout the Society; the concerns of forecasters are now your concerns and hopefully they can be resolved satisfactorily in the coming year.

LETTERS TO THE EDITOR

No letters to the editor were received. Perhaps the next issue of Newsletter will see a large response to this issues editorial comment. (ed.)

NEWS FROM YOUR NATIONAL EXECUTIVE (as of March 3, 1978)

President	- Ken Harry	- Consultant (A.E.S. - retired)
Vice President	- Ron Burling	- Institute of Oceanography U.B.C.
Treasurer	- Garry Schaefer	- A.E.S. - B.C.
Recording Secretary	- Peter Sagert	- B.C. Hydro, Vancouver
Corresponding Secretary	- Brian Sagar	- Department of Geography, Simon Fraser University, Burnaby, B.C. V5A 1S6 (604) 291-3327

1. Executive meeting number 5 of the CMOS was held January 18, 1978 in Vancouver.
 - a. A letter from the office of the Prime Minister acknowledging the CMOS letter of concern over Dr. Michrowski's comments regarding weather modification was received. The letter indicated that a reply to the CMOS letter would come from the Fisheries and Environment Canada.
 - b. A.E.S. has indicated, subject to Parliamentary approval, that a grant of \$16,000.00 would be given to CMOS.
 - c. A draft of the CMOS booklet was received and forwarded to J. Hay for a detailed review.
 - d. The executive invited the Chairman of the Scientific Committee to the next council meeting.
2. Council meeting of the CMOS was held February 17, 1978 in Vancouver.
 - a. Mr. L. Shepherd of the A.E.S. Pacific Region has been appointed as auditor for the CMOS.

- b. A request for a grant of \$6,000.00 has been made to O.A.S.
- c. It was proposed that a list of past CMOS prize winners should be printed in the Congress issue of Atmosphere (also in this issue of Newsletter).
- d. Dr. John Maybank, Chairman of the CMOS Scientific Committee attended this meeting at the request of the President of CMOS, Ken Harry. Dr. Maybank gave a thorough report on the history and future direction of the Scientific Committee.
- e. Dr. John Maybank also imparted the concerns felt by the operational meteorologists of the Regina Centre, that the CMOS directs very little of its resources towards the operational forecasters.

NEWS FROM YOUR CENTRES (As of March 3, 1978)

VANCOUVER	President	Paul Le Blond
	Vice President	John Knox
	Sec. Treasurer	Vello Puss
	Pro. Director	Noel Austin

On March 1st a seminar entitled "Tsunamis" was given by Dr. Tad Murty from Ocean Physics Institute of Ocean Sciences on secondment from Marine Environmental Data Service, Ottawa.

Dr. Davison, A.E.S./C.M.O.S. tour speaker will address the March 14th meeting. His talk is entitled Atmospheric Turbulence and Dispersion.

The CMOS B.C. centre's video tape, "A Forecasters Day" has finished its final editing and is now available for distribution. Letters to the B.C. Department of Education and the Vancouver School Board have been sent notifying them of the availability of the video-tape. Other CMOS centres can get copies for viewing by writing to D. Faulkner, Atmospheric Environment Service, 739 West Hastings Street, Vancouver, B.C. V6C 1A1.

The B. C. Ferries have been approached on the subject of putting information panels describing some of the oceanographic features of the Straits of Georgia.

ALBERTA	President	Bob Humphries
	Vice President	Lub. Wojtiw
	Sec. Treasurer	G. Lunn

A large turnout (approximately 25 members) was on hand at the January 31st meeting. At this meeting Terry Rachuk from the Alberta Research Council gave an interesting talk on Solar and Wind Energy Research in Alberta. Mr. Rachuk pointed out that one of the problems being addressed is the energy budget of wind and solar energy. In order to solve this problem instrumentation will soon be going up at A.E.S. sites in Alberta.

Dr. Davison, the A.E.S./C.M.O.S. tour speaker, commenced his assignment at the Alberta centre's February 23rd meeting.

Next meeting will be in April. This meeting will wind up the '77-'78 season. New executive officers will be elected.

The Alberta centre is designing a plaque and if ready in time will be presented to a winner with the best project in the field of meteorology at the Edmonton regional youth science fair. A monetary prize of Fifty dollars will also be given. Judging of projects will be done April 7.

REGINA	President	Don Bernachi
	Sec. Treasurer	Clarence Spelchak

New officers were elected early in February. This centre had been without a President for some time and much concern was voiced about the centre's inactivity. With the election of the new executive the Regina Centre is now attempting to rekindle interest among its members. One method may be to make meetings more social events such as dinner meetings with spouses attending.

Dr. Davison presented his talk on Atmospheric Turbulence and Dispersion at the February 27th dinner meeting.

The next meeting will likely deal with computers and automation since the Regina weather office is to see the introduction of computerization by early fall.

WINNIPEG	President	Doris Siemieniuk
	Vice President	Jay Anderson
	Sec. Treasurer	Pat Murray

The speaker for the January 19th meeting from the City of Winnipeg Works and Operations broke his leg and a substitute speaker Alf Warkentin from the Provincial Water Resources agreed to address the meeting.

On March 1st Dr. Davison gave his talk on Atmospheric Turbulence and Dispersion at the Birchwood Inn. The business of purchasing a projector and screen was also discussed at this meeting.

The last meeting of the '77-'78 season will be held in April.

A prominent member of A.E.S. and CMOS donated monies for a CMOS Prairie Award to be given to the individual with the best meteorology related paper in the past year. Mike Balshaw is chairman of the Selections Committee. There is enough money for the award to be presented for the next 3 years.

TORONTO	President	Nancy Waller
	Treasurer	Fred Conway
	Secretary	Isaac Savdie
	Pro. Director	Thor Jakobsson

Dr. G. K. Rodgers A/Director, Canada Centre for Inland Waters addressed the January 25th meeting. His talk was entitled "Research at Canada Centre for Inland Waters".

On March 2nd Dr. Doug. Davison the A.E.S./C.M.O.S. tour speaker presented his talk on "Atmospheric Turbulence and Air Quality" to the Toronto Centre.

Dr. C. O. Hines, Professor, University of Toronto will address the April 5th meeting. Dr. Hines' talk is entitled "Short-term Sun-Weather Correlations".

OTTAWA	President	Don Boyd
	Vice President	Neil Campbell
	Sec. Treasurer	Ken Morris

At the February 13th meeting Dr. A.E. Collin, Assistant Deputy Minister of the Atmospheric Environment Service gave a talk on "Arctic Ocean Science". He made the point that both the U.S. and U.S.S.R. have had research stations on floating ice in the Canadian sector. Dr. Collin also related his experiences on ice island T3.

Dr. Davison the A.E.S./C.M.O.S. tour speaker, is scheduled for the March 9th meeting.

The last meeting of the '77-'78 season is planned for April. New executive officers will be elected at this time.

The Ottawa centre will be taking part in the regional youth science fair in Ottawa. Last year a plaque was made and presented. This plaque will be presented again this year.

MONTREAL	President	Conrad East
	Secretary	Gilles Desautels
	Treasurer	Serge Roy

On February 15th J.I. Bisson from Hydro Quebec gave a talk to the members of the Montreal centre entitled "La prevision du reussellement naturelle".

Dr. Davison the A.E.S./C.M.O.S. tour speaker will present his talk on March 8th.

T.N. Krishnamurty from Florida State University will talk on "Analysis of G.A.T.E. Data".

Dr. Peter Yau from McGill University will present a talk on cloud physics to the attendees of the April 4th meeting.

A meeting scheduled for the end of April will feature Dr. Albert Watts from Hydro Quebec. Dr. Watts' seminar will be "Energie Eolienne". This meeting will be the last meeting of Montreal Centres' very active '77-'78 season.

QUEBEC	President	Gaston Paulin
	Vice President	Raymond Poiré
	Sec. Treasurer	Guy Bergeron

Dr. Davison A.E.S./C.M.O.S. tour speaker will be the speaker at the March 7th meeting.

M. Gabriel Polisois will talk on "Impact des activites energetiques sur le climat" at the March 22nd meeting.

On April 12 Dr. Albert Watts will present his talk entitled "Energie Eolienne". The December 14th meeting cancelled due to snow storm will be rescheduled for early May. The talk is by M. Gilles Taschereau on "Problemes d'environnement de l'air".

The Quebec centre will be providing their mobile meteorological unit (described in October 1977 newsletter) to the private secondary school, Jesus-Marie De Sillery, for a week long program entitled "Man and his Environment". The mobile

unit will be open during the day for school children and in the evening as an open house for the general public. The Quebec centre will also provide a number of meteorologists to man the display during the entire period. The on-duty meteorologist will give a talk and explain the apparatus. A video-tape and slides on Decertification provided by Ramon Perriere will also be used.

HALIFAX	President	Rod Shaw
	Secretary	John Dublin
	Treasurer	Dave Dockendorf

A very successful meeting attended by approximately 35 members was held January 23rd. The speaker at the meeting was Dr. Fred Dobson of the Bedford Institute. Dr. Dobson talked on the "Wave Follower Experiment".

Dr. Davison the A.E.S./C.M.O.S. tour speaker will give his presentation March 6th.

The Nova Scotia Museum has been contacted to distribute approximately 15 meteorological kits prepared by the Halifax Centre.

NEWS AND NOTES

About our Tour Speaker

This years A.E.S./C.M.O.S. tour speaker is Dr. Douglas S. Davison, a meteorologist with INTERA Environmental Consultants Ltd., Calgary.

Dr. Davison's talk on Turbulence and Dispersion was given to the centres: Edmonton February 23, Regina February 27, Saskatoon February 28, Winnipeg March 1, Toronto March 2, Halifax March 6, Quebec City March 7th, Montreal March 8, Ottawa March 9, Victoria March 13 and Vancouver March 14.

Dr. Davison holds a B.Sc. degree (1968) in Physics from McMaster University, Hamilton, Ontario; and a Ph.D. (1973) in Meteorology from the Institute of Oceanography, Department of Physics, University of British Columbia, Vancouver, B.C.

Prior to his involvement with INTERA Environmental Consultants Ltd., Dr. Davison was a Research Scientist for the Boundary Layer Research Division, Atmospheric Environment Service, Canada Department of Environment, Toronto.

Dr. Davison's special qualifications are summarized as follows:

Co-ordinated the data handling and developed the computer programs necessary for analysis of the tethered sonde data for delivery to international data banks according to internationally set deadlines.

Supervised the redevelopment of a three-dimensional turbulence measuring system for INTERA's research aircraft. Developed the computer programs necessary to remove the effects of aircraft motion so as to derive environmental gust velocities. Developed the further computer programs necessary for the calculation of the turbulent parameters controlling dispersion including structure function analysis, autocorrelations joint probability distributions, spectral analysis and various statistical routines.

Designed and conducted a field program involving a network of instrumental towers for a micrometeorological study which

involved spectral analysis for determination of turbulent characteristics and phase velocities in a convectively unstable boundary layer.

Directed a group to produce a tethered sonde package and balloon system capable of operating for at least six uninterrupted hours at heights up to 1000 m from the helicopter landing deck of CCGS Quadra. Operated the tethered sonde system successfully and directed the boundary layer program on-board CCGS Quadra for Phase II of the Global Atmospheric Research Program Atlantic Tropical Experiment (GATE), in July-August, 1974.

C.M.O.S. AWARDS

A list of annual award winners is presented below.

President's Prize

1967	A. Robert
1968	A. W. Brewer
1969	G. T. Csanady
1970	R. E. Munn
1971	M. Kwizak and A. Robert
1972	T. R. Oke
1973	A. J. Chisholm and Marianne English
1974	Gordon A. McBean
1975	Not awarded
1976	W. F. J. Evans

Prize in Applied Meteorology

1967	A. Davenport
1968	D. Davies
1969	M. K. Thomas
1970	N. Yacowar
1971	J. S. Marshall
1972	P. W. Summers
1973	H. P. Wilson
1974	Roger Daley
1975	Gordon A. McKay
1976	S. V. A. Gordon

Graduate Student Prize

1967	S. Woronko
1968	Not awarded
1969	T. Warn
1970	N. A. McFarlane
1971	R. S. Schemenauer
1972	L. Ettinger
1973	V. S. Chung
1974	Geoffrey Strong
1975	Helen Warn
1976	H. Melling

Rube Hornstein Prize in Operational Meteorology

Awarded for the first time in 1975

1975 Waldimar L. Gutzman
1976 S. Orvig and E. A. Vowinckel

Citations

Committee nominations; all accepted

1973 John A. Livingston
 Pierre Dansereau
 P. D. McTaggart-Bowan

1974 Barbara Frum, Alan Maitland, Harry Browne
 & Staff, CBC 'As It Happens'.
 Alberta Environmental Conservation Authority
 Lydia Dotto (Globe & Mail Science reporter)

1975 Tony Le Sauteur

1976 Conseil Quebecois de l'Environnement.
 Douglas H. Pimlott

C.M.O.S. MEMBERSHIP AS OF FEBRUARY 17, 1978

Dr. Brian Sagar corresponding secretary of CMOS reports the following 'breakdown' of our membership list.

	<u>Meteorologists</u>	<u>Oceanographers</u>	<u>Students</u>	<u>Sustaining</u>
B. C.	41	24	13	3
Alberta	66	1	9	1
Saskatchewan	23		3	
Manitoba	37		3	1
Toronto I	120	1	6	1
Toronto II	60	9	8	1
Ottawa	45	14	1	
Montreal	82	3	22	3
Quebec	10	9	3	
Halifax	43	42	1	2
Overseas	<u>41</u>	<u>4</u>	<u>4</u>	<u>—</u>
Total	568	107	73	12

Total membership is 760. The CMOS membership is growing slowly, approximately 100 new members over last 5 years.

THE 35th C.M.O.S. SCIENTIFIC COMMITTEE MEETING

The meeting was held November 16, 1977 in Downsview, Ontario. Members present were A. Fraser, G.G. Goyer, Sec., P. Hamblin, M. Kwizak, J. Maybank, Chairman, G.T. Needler, T. Oke, R.R. Rogers, and T. Warn. Participants were A. McKay, B. Boville, A. Chisholm, H. Martin, M. Phillips all from A.E.S., Downsview.

Report on Fluorocarbon research was given by B. Boville. A. Chisholm gave a report on the history and recent actions of the Weather Modification Legislation Committee. H. Martin from A.E.S. described A.E.S. funding policies; both the subventions program and the contracts program. The A.E.S.-N.R.C. relationship was also discussed.

The CMOS Scientific Committee came out in support of the maintenance of weathership PAPA. It was cited that the ship PAPA contributed not only to forecasting aid but also to oceanographic and upper atmosphere research, CO₂ monitoring and precipitation measurements. In addition, PAPA constitutes the third longest Canadian data base.

B. Boville reported for the GARP subcommittee. Chairman Maybank requested nominations for appointment to the NRC's Associate Committee on Scientific Criteria for Environmental Quality.

REPORT ON THE PACIFIC NORTHWEST MARINE SCIENCES WORKSHOP
(FEBRUARY 20-21, 1978 PARKSVILLE, B.C.) by Paul LeBlond

Starting in 1952, west coast oceanographers began to meet for two days in February of each year to exchange ideas and discuss forthcoming projects. This Pacific-Northwest Oceanographers Meeting (the south-of-the-border optic is reflected in the geographical description) originally gathered just a few scientists from the Universities of British Columbia and Washington - few enough that one of the early meetings could be held in G.L. Pickard's living room. The meeting rapidly grew and came to attract marine scientists from government, university and industrial laboratories from northern California to Alaska. The expanded meeting, however, lost its pristine spontaneity and gradually became more onerous to organize: it eventually floundered in the early seventies.

Much of the atmosphere of the early small Pacific-Northwest Oceanographers meetings was recaptured in the meetings organized by J. Sibert in 1975 and by A. J. Dodimead this year in the congenial surroundings of the Island Hall Hotel in Parksville, B. C. The participation is still interdisciplinary and of wide geographical coverage. The numbers are, however, low enough (70) that one can meet everybody. The February meeting will continue its existence on a biennial basis, with the next one to be organized by the Institute of Ocean Sciences in Pat Bay for 1980.

SOME NEWS FROM THE AMERICAN METEOROLOGICAL SOCIETY
(Via Bernice Brent, Editor of Zephyr and E. J. Truhlar)

The results of the 1978 election for the new President-Elect and Councilors of the American Meteorological Society were announced on 30 January at the 58th Annual Business Meeting of the Society at the DeSoto Hilton Hotel in Savannah, Ga.

The President-Elect who will assume office as President in 1979, is Dr. Chester W. Newton, Senior Scientist and Head of Empirical Studies at the National Center for Atmospheric Research in Boulder, Colo. Incoming President for 1978 is Dr. George P. Cressman, Director, National Weather Service, National Oceanic and Atmospheric Administration, Silver Spring, Md. He succeeds Dr. Werner A. Baum, Chancellor of the University and Professor, University of Wisconsin-Milwaukee, Wisc.

Each year, five Councilors are elected to three-year terms of office - four elected

by the Society's membership and one by the Council. Elected to the Council by the members of the Society are Dr. Bernice Ackerman, Senior Meteorologist with the Illinois State Water Survey, Urbana, Ill.; Dr. William D. Bonner, Director, Eastern Region, National Weather Service/NOAA, New York, N.Y.; Prof. Verner E. Suomi, Director of the Space Science and Engineering Centre, University of Wisconsin, Madison; and John E. Wallace, President, Weather Services, Corp., Bedford, Mass. Dr. James Phillip Bruce, Assistant Deputy Minister, Environmental Management Service, Fisheries and Environment Canada, Ottawa, was elected by the Council.

Of special interest to CMOS members is the election of Dr. James Phillip Bruce. Dr. Bruce - our congratulations (ed.)

OUR NEW MEMBERS

deBoer, Robert	Halifax, N.S.
Courbin, Patrice	St.-Sylvere, Quebec
Guimond, Edmond	Lantz, N.S.
Hendry, Ross	Dartmouth, N.S.
Lawrence, Donald	Dartmouth, N.S.
MacPherson, Ian	Ottawa, Ontario
Montambault, Paul	Co Levis, Quebec
Muir, Langley	Burlington, Ontario
Mikleva, Steve	Richmond, B. C.
Nkemdirim, Lawrence	Calgary, Alberta
O'Brien, Ralph	Bedford, N.S.
O'Quinn, Leo	Hazeldean, Ontario
Pender, Patrick	Brampton, Ontario
Sackiw, Chris	Edmonton, Alberta
Strongatis, Guy	Longueuil, Quebec

ANNOUNCEMENTS

C.M.O.S. TWELFTH ANNUAL CONGRESS

The Twelfth Annual Congress and Annual General Meeting of the Canadian Meteorological and Oceanographic Society will be held at the University of Western Ontario, London, Ontario, May 31 - June 2, 1978. The theme of the opening session will be "Energy, the Meteorologist and Oceanographer" is presented by invited and contributed papers. Subsequent sessions will deal with contributed papers on meteorology and oceanography, including sessions of common interest, according to the papers submitted. For more details contact Prof. D.R. Hay, Department of Physics, the University of Western Ontario, London, Ontario, N6A 3K7.

W.M.O. CONFERENCE

Conference on the Ozone Layer to be held at York University, June 26 - 30, 1978.

SYMPOSIUM/WORKSHOP ON SOLAR-TERRESTRIAL INFLUENCES ON WEATHER AND CLIMATE

Fawcett Center for Tomorrow, Ohio State University, Columbus, Ohio, U.S.A. July 24 - 28, 1978.

The first of a series of biennial symposia/workshops on Solar-Terrestrial Influences

on Weather and Climate will be held July 24-28, 1978, at Ohio State University. The purpose of this Symposium/Workshop is to present and adequately discuss experimental and theoretical results, exchange information about on-going programs, and develop ideas for new approaches to sun-weather/climate research. The Symposium/Workshop will serve to identify important areas of agreement and disagreement, and will focus attention on multidisciplinary research and key problems of the future. Adequate time will be allowed for discussion of important issues by the participants.

For further details write or phone -

Dr. Billy M. McCormac, Lockheed Palo Alto Research Laboratory
Department 52 - 10, Building 202
3251 Hanover Street
Palo Alto, CA. 94304 U.S.A.
Telephone 415/493-4411

CANADIAN SOLAR RADIATION DATA WORKSHOP

Sponsored by AES and NRC to be held April 17-19, 1978 at Toronto, Ontario, Canada.

Seven invited papers on such topics as instrumentation, network design, data archives, calculation and the data requirements of the designer, manufacturer and user of solar energy equipment. These papers will be followed by lengthy workshop sessions. On the optional third day there will be tours of the solar equipment test facility of the Ontario Research Foundation and the measurement, calibration and archiving facilities of the Atmospheric Environment Service. Contact Rhorne Won, Atmospheric Environment Service, Downsview for further details.

INTERNATIONAL SYMPOSIUM ON LONG WAVES IN THE OCEAN NATIONAL RESEARCH COUNCIL, SUSSEX DRIVE, OTTAWA JUNE 6 - 8, 1978

Sponsored By:

Department of Fisheries and the Environment, Canada

Endorsed By:

International Union of Geodesy and Geophysics
American Meteorological Society
National Research Council, Canada
Canadian Meteorological and Oceanographic Society

Program Sessions and Keynote Speakers:

Welcome	A. E. Collin
Theme	P. H. LeBlond
1. Tidal theory	D. E. Cartwright
2. Tidal observation & analysis	(open for nomination)
3. Tsunami	S. Wigen
4. Storm surge	T. J. Simons
5. Continental shelf waves	L. A. Mysak
6. Instrumentation	(open for nomination)

Modification of this session arrangement could occur after an assessment of the titles of proposed contributions.

Program Committee

G. Godin (Chairman), D. Quirt, T.S. Murty, W.D. Forrester, P.A. Bolduc and F. Barber.

A Scientific Committee is being established and it is anticipated that the Committee will include representation from the Waterway, Port, Coastal and Ocean Division of the American Society of Civil Engineers.

Deadlines

Abstracts are due by March 1, 1978 and are to be distributed to participants before the meeting. Summaries of presented papers will be published, probably as a Manuscript Report. Contributions to this report should be no more than four pages and should be submitted by July 1, 1978.

General Information

The program, with a list of papers to be presented in each section as well as advice concerning available accommodation, will be mailed by the end of March. If you have not already done so, please indicate your intention to attend by completing the preliminary registration form attached and return to:

Organizing Committee
Long Wave Symposium
Marine Environmental Data Service
Dept. of Fisheries and Environment
Canada K1A 0E6

PRELIMINARY REGISTRATION, (OCTOBER, 1977) INTERNATIONAL SYMPOSIUM ON LONG WAVES IN THE OCEAN, CANADIAN DEPARTMENT OF FISHERIES AND THE ENVIRONMENT, JUNE 6-8, 1978.

PLEASE PRINT

NAME _____

ADDRESS _____

I intend to submit a contribution: _____ Yes _____ No

Tentative title of paper and number of session _____

International Symposium on Forest Meteorology

The World Meteorological Organization is sponsoring a symposium on forest meteorology to be held in Ottawa, Canada, 21-25 August 1978. The symposium is being hosted jointly by the Canadian Forestry Service and the Atmospheric Environment Service of Canada. The purpose of the meeting is to bring together scientists from all over the world who have a common interest in the scientific problems of forest meteorology as well as the applications of meteorology to forestry. Technical sessions are planned in the following areas:

Effects of climate and climatic variability on world forest distribution

Applications of climatology in forestry planning

Applications of meteorology in forestry operations

Meteorology and climatology in relation to management of forest fires

Meteorology in forest disease and insect control

Impact of environmental factors (including pollutants, wind, temperature, precipitation, etc.) on forest development and forest production

Role of forests and wildlands in global and/or regional balances of heat, carbon dioxide, hydrocarbons, etc.

Each session will be introduced by an invited keynote speaker followed by presentation of individual relevant papers and/or panel discussions. To permit flexibility in scheduling of papers, and to allow for papers on topics not on the formal agenda, one or more "poster" sessions will be scheduled. In these sessions, scientists can present current research results on prepared posters and be available for discussions with interested symposium participants. One field trip is planned during the symposium, a trip to Maniwaki Fire Management Research Application and Testing Station. Other pre and post symposium trips may also be planned.

The meeting will be held at the University of Ottawa in downtown Ottawa. Low cost dormitory accommodations will be available; additional hotel and motel accommodations are available nearby. Sightseeing programs for accompanying spouses are also being arranged.

For further information on submission of papers and abstracts, write to the Symposium Director, Professor William E. Reifsnyder, School of Forestry and Environmental Studies, Yale University, Marsh Hall - 360 Prospect Street, New Haven, CT. 06511, U.S.A. For information on accommodations, contact the Arrangements Coordinator, Dr. James B. Harrington, Jr., Forest Fire Research Institute, 240 Bank Street, Ottawa, Ontario K1G 3Z6, Canada.

Mert Horita
Editor, C.M.O.S. Newsletter
4160 Cowley Crescent
Vancouver International Airport
South
Richmond, B. C.
V7B 1B8

Telephone (604) 273-2543