

C.M.O.S. NEWSLETTER

FEBRUARY 1978

Vol. 6 No. 1

THE PRESIDENT'S REPORT

In the December issue of Newsletter it was mentioned that members must expect to assume a greater share of the cost of operating the Society since informal sources of financial support are tending to disappear. That this is so is illustrated by the 1978 Congress fee which has been set at \$40.00, an increase of \$15.00 from last year.

There are two reasons for the increase, both of which are beyond the control of the organizing committees and which effectively arise from the same cause - spending cutbacks. In the first instance, the Learned Societies under whose aegis we are meeting in 1978 have set a basic service fee of \$25.00 per registrant. In response to criticism of this high fee the conference organizer for the Learned Societies has pointed out that in the recent past substantial conference deficits have been incurred and that this year, since other organizations can not be expected to assist, there must not be one. Secondly, a grant in support of the Congress from the Province of Ontario will not be forthcoming.

In discussion with the Congress committees, the executive decided to hold the registration fee at \$40.00, a figure lower than proposed. From the CMOS share of the conference fees the local arrangements and scientific programs committees must manage the Congress, provide an interesting and challenging scientific program and cater the Awards luncheon. Understandably the reduction introduces restraint, a situation we are not unfamiliar with these days.

We have been advised that the Learned Societies will be distributing conference literature about the time this issue of Newsletter arrives. Since accommodation on campus may not be sufficient to meet demand and since rooms will be let on a first come - first serve basis, members wishing to counter the higher registration fees by using campus accommodation are advised to register early.

Since we wished members to be aware of the circumstances behind the increase in Congress fee, which incidentally is far from being extravagantly high by current standards, we have taken this opportunity to discuss the matter. Doubtless the Society will wish to review at an appropriate time future associations with the Learned Societies though we note that in 1979 at Victoria and in 1980 at Toronto we will be meeting apart. In the meantime, knowing something of the program being prepared for the 1978 Congress at the University of Western Ontario, I can assure you good value will be offered. See you there ...

EDITOR'S COMMENTS

The recent sensational reporting of Dr. Michrowski's personal theories has brought quick response from both the Atmospheric Environment Service of

Canada and our own society. See the news and notes section of the newsletter. Gary Schaeffer a member of our national executive, was interviewed on the CBC Good Morning Radio on December 15th. He brought to the attention of the public Dr. Michrowski's credentials. Dr. Michrowski works for the Planning Systems and Services Branch, Secretary of State. His job is to evaluate social and cultural programs in Canada including federal education and biculturalism. His doctorate is in architecture and planning.

I hope that this society will play a larger role in rebutting or correcting misleading press reports on meteorological and oceanographic matters. I feel that the membership through the newsletter can play an important role in bringing to light some of these problems especially those which occur locally.

LETTERS TO THE EDITOR

Dear Editor;

You have been asking for suggestions as to contents of the CMOS Newsletter. I would like to second the suggestion of Ed Barks in your December 1977 issue that a certain amount of personal (or perhaps personnel?) news be included. I have always found such material an interesting part of the AMS Bulletin.

When almost all meteorologists were in the Met Service (and oceanographers few indeed) the matter was well handled by the 'Forecaster'. Now however, your readers form a far more diverse group and anything promoting kinship may be worthwhile.

Another AMS Bulletin feature I read is the occasional short summary of an interesting scientific meeting. This feature too may be worth copying in moderation. TED WALKER

I feel that news about our members and short summaries of interesting scientific meetings would be of interest to our readers. I now invite members to forward these articles for publication in the CMOS newsletter. Ed.

Dear Editor;

Firstly, I will congratulate you on your new appointment as Editor of the Newsletter.

At the moment, I haven't any "Letters to the Editor" to submit. However, I wonder whether you will accept a small "want-ad" for some forthcoming issue. Some time ago, I asked Prof. Sagar whether such a thing would be acceptable material for the "Newsletter", when he was Corresponding Secretary, and he seemed to think it would be OK. The items I am trying to get are out-of-print books, and I have not yet managed to find any of them in book stores.

The text of the advertisement is given below. NORMAN THYER

WANTED: Copies of the following books:

"Meteorological Instruments" - Middleton & Spilhaus (University of Toronto Press)

"Snow Structure and Ski Fields" - G. Seligman (MacMillan)

"Handbook of Statistical Methods in Meteorology" - C.E.P. Brooks & N. Carruthers (H.M.S.O.)

--- N. H. THYER, R.R. 2, NELSON, B.C. V1L 5P5

NEWS FROM YOUR NATIONAL EXECUTIVE (as of January 4, 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. Fifth Executive Meeting of the CMOS was rescheduled from November 16 to November 21 because of a ferry strike.
 - a. A revised list of approximately 760 members was released by R.B. Sagar with the exception of foreign members.
 - b. A letter was received from the Secretary of State regarding procedure to nominate a candidate for the Queen's 25th Anniversary Jubilee Medal.
 - c. Third quarter revenues consist of \$747.00 for dues and subscriptions and \$42.00 interest. Expenditures were \$363.00 for last Newsletter and U. of T. commissions of \$149.00.
 - d. The change of name has introduced some complications in the registration of our Canada Savings Bonds and Bell Canada shares. Since only 12 shares of Bell Canada stock is held by the Society, the option to automatically reinvest interest and dividends in Bell Canada will not be taken.
 - e. In response to the alleged claims of Dr. A. Michrowski, J. Z. Knox requested action of the executive in forwarding a letter to the Prime Minister. (See news and notes. Ed.)
 - f. It was moved that an issue of Atmosphere-Ocean be devoted to the 1st International Workshop on Hailfall Measurement held in Banff, Alberta on 22-26 October 1977.
2. Sixth executive Meeting of the CMOS was held December 14, 1977. Business was conducted from 10:00 A.M. to 4:00 P.M. with a break for lunch at the U.B.C. Faculty Club. Ron Burling graciously picked up the tab for the lunch.
 - a. The AES - CMOS speaker to be Dr. D.S. Davison from INTERA Environmental Consultants in Calgary. His topic is "Overview of the relations between turbulence and dispersion".
 - b. Dr. Oke, editor of the Atmosphere, has made significant changes to the CMOS Journal. Beginning with Volume 16, March 1978, the changes will include a larger page size, new cover style and paper format.
 - c. Provision will be made for copyright revenue as a consequence of the change in the U.S. copyright laws.
 - d. New editorial board being established for Atmosphere-Ocean.

NEWS FROM YOUR CENTRES (as of January 5, 1978)

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

The second meeting of the Vancouver Centre was held November 30. The speaker was Dr. Noel E.J. Boston. His talk was entitled "The First GARP Global Experiment".

The third meeting is scheduled for the week of January 20 and the topic will be Coupled atmospheric-ocean numerical models. The speaker is to be Kirk Bryan (Geophysical Fluid Dynamics Program at Princeton, New Jersey).

ALBERTA: President Bob Humphries
 Vice President L. Wojtiw
 Sec. Treasurer G. Lunn

Alberta Centres second meeting took place in the new Western Region A.E.S. quarters. This meeting held November 29, gave George Legg, Regional Director an opportunity to show off the new facilities. It also gave non-A.E.S. personnel the opportunity to acquaint themselves with the various groups and sections within the regional A.E.S. component.

The third meeting is scheduled for January 31. Terry Rachuk of the Alberta Research Council and head of the Solar and Wind Energy Research Project will be giving a talk on the feasibility aspects of solar and wind energy in Alberta.

REGINA: President (Vacant)
 Sec. Treasurer R.J. O'Brien

The Presidency of this centre is still vacant. A meeting is tentatively scheduled for the end of January.

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

At an executive meeting held in December, the item of the Winnipeg Centre's large bank account was discussed. The decision was taken to purchase a CMOS banner to be used for occasions such as WMO days, science fairs etc. The centre will also be purchasing a projector and screen in attempts to move away from their dependency on A.E.S.

A meeting is planned for January 19 at the Fort Garry Hotel. The speaker will be from the City of Winnipeg Works and Operations. The topic is snow removal and street maintenance.

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

A meeting was held December 21. The title of the talk was "The Atmosphere of Jupiter, Mars and Venus". The speaker was Dr. J.C. McConnell, Physics Department, York University.

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

Les MacHattie will be the Ottawa centre's January 18th speaker. His topic will be the application of meteorology to forestry, in particular the forest fire problem.

MONTREAL: President Conrad East
 Secretary Gilles Desautels
 Treasurer Serge Roy

At the Montreal Centre's December 7th meeting Dr. Isztar Zawadzki spoke on the "Relations entre le taux maximal de precipitation a certain parametres de l'echelle moyenne".

QUEBEC: President Gaston Paulin
 Vice President Raymond Poire
 Sec. Treasurer Guy Bergeron

The December 14 meeting was cancelled due to a snow storm. Hopefully it will be rescheduled to the spring sessions.

Meeting planned for January 18th. The speaker is M. Georges Gallagher who will talk about "Simulation du climat".

The next meeting will be held February 15. The title of the talk is "Energie Solaire" and will be given by M. Benoit Jean.

HALIFAX: President R. Shaw
 Secretary John Dublin
 Treasurer Dave Dockendorf

On December 13 the Halifax Centre held a panel discussion on liquified natural gas terminals. Speakers were Hugh Hall of E.P.S., Hans Neu of Bedford Institute and Paul Galbraith of A.E.S.

Material for meteorological kit was displayed and comments from attendees were solicited. (See October Newsletter for more about these kits).

On January 23 a dinner meeting will be held. The speaker, Dr. Fred Dobson, of Bedford Institute will discuss the "Wave Follower Experiment".

NEWS AND NOTES

Winter of 1976-77

The National Geographic has published an interesting pictorial account of last winters anomolous weather. It is entitled 'The Year the Weather went Wild', Vol. 152, No. 6, December 1977.

A Request from E.R. Walker

I have recently donated my journals (of the RMS and the AMS) to the library of the Institute of Ocean Sciences, Patricia Bay. However some numbers of the Q.J.R.M.S. have been lost along the way.

Missing are: V71, #309, #310; V72, #311, #314; V78, #315, #316; V74, #319, #320; V82, #354; V87, #373, #375; V89, #381; V92, #392; V102, #435.

If someone with a broken set wishes to donate any of the above the Institute address is P.O. Box 6000, Sidney, B.C. V8L 4B2.

C.M.O.S. REPLIES

The Right Honourable Pierre Trudeau
Prime Minister of Canada
Parliament Buildings
OTTAWA, Ontario

5888 Jaynes Road
Duncan, B.C. V9L 3B8
November 17, 1977

Dear Sir;

The sensational statements made recently by a Dr. A. Michrowski have greatly disturbed the Canadian meteorological community. In particular, the implication that he is reporting on government research along these lines reflects badly on the Government of Canada, the entire meteorological community and especially our colleagues working within the Atmospheric Environment Service.

The Scientific Committee of our Society wishes to draw to your attention its statement of November 16. "There is no basis in scientific principle or experiment for the connection claimed by Dr. Michrowski between electromagnetic transmissions of the type reported to be used by the USSR at Riga and the world wide weather patterns that occurred at the time. Dr. Michrowski's implied claim to be speaking on this topic as a Federal Government scientist reporting officially on research carried out by the government should be expressly and explicitly repudiated. Only in this way can the reputation of responsible and knowledgeable meteorological scientists - both within and outside Government Service - be preserved from unwarranted ridicule.

Finally, should Dr. Michrowski feel strongly enough that he has evidence of such a cause-effect relationship as he claims, obtained privately and not through government sponsored research in this area, we would encourage him to present his evidence to our scientific journal *Atmpsphere-Ocean* or to our annual Congress".

Yours very truly, K.F. Harry, President, Canadian Meteorological and Oceanographic Society.

A.E.S. REPLIES

1. Contacts between Dr. Michrowski and AES

Several AES Research Scientists had been involved some six months or more ago in discussions with Dr. Michrowski. They concluded that his theories were far-fetched and that scientific evidence for such effects on weather and climate was totally lacking. Dr. Michrowski is an Architect, not a Physicist, and

has developed his theories in his own time (they are unrelated to his duties).

2. It is generally conceded that significant departures of climate from long-term averages have been somewhat more prevalent throughout the world in recent years than they were several decades ago. Many of these major anomalies preceded October 1976, and the Sahel drought is an excellent example. High climatic variability is undoubtedly continuing today, on a global scale.
3. Purported deflection of westerly winds by electrical excitation. For all practical purposes, the lower atmosphere is electrically neutral and therefore unaffected by electrical energy, except in very small scale phenomena such as thunderstorms.
4. Further Background Material.

There is a close analogy between excitation of the ionosphere (Earth's atmosphere above 60 kilometres, or 40 miles) by intense radio waves from below and by intense energy bursts from the sun. These latter are visually evident as auroras and cause serious dislocation of radio reception at higher latitude. It has long been hypothesized that these solar outbursts have effects on the lower atmosphere even though the direct and measurable effects are confined to the ionosphere. The available statistical evidence suggests that effects on the lower atmosphere are very small and completely masked by day-to-day weather variations. At best, they can contribute only a trivially small fraction of climate variations. It follows that man-made excitation of the ionosphere would also have an insignificant effect on weather and climate.

5. UN Agreement on Weather-Modification.

AES research scientists participated in DFE discussions leading to the Canadian document which outlined various possible, as well as improbable, types of environmental warfare. This document assisted UN bodies in their discussion of the topic, which culminated in an UN treaty. COLLIN ADMA, TORONTO

13th CMOS CONGRESS (1979)

The Victoria Chapter of the CMOS in response to a request from the Society executive has agreed to sponsor the 13th Congress and Annual Meeting in 1979. The first meeting of the Coordinating Committee was held on October 5th at which time it was decided that the Congress should be held from May 30 to June 1 at the University of Victoria. This will put the CMOS Congress between (with some overlap) the annual conference of the Canadian Association of Geographers and an international workshop on fjords both of which will be held at the University.

The following people have agreed to work in key roles;

- Congress Chairman, Dr. Richard Bennett, 387-5318
- Co-chairmen of Scientific Program Committee - Mr. Mike Blake, 388-1975
Dr. Ted Walker, 656-8282

- Chairman of Local Arrangements Committee, Dr. Rick Wilson, 387-6387
- Treasurer, Dr. Rick Thomson, 656-8255

In addition coordinators were identified for some of the activities associated with local arrangements.

A Congress theme has yet to be decided upon. The committee will be attempting to ensure more overlap of the meteorological and oceanographic session. Consideration will be given to the inclusion of poster sessions.

As we have just begun there are a lot of decisions to be made and a lot of work to do. The coordinating committee is quite small and would welcome any interested members to join in our discussions. R. C. BENNETT

SHIP PAPA?

Dalhousie University professor Jean Thiebaut has been awarded a seven month contract by the Atmospheric Environment Service of Canada to conduct a network design study.

The service is considering possible alternatives to the present use of Ocean Weather Ship PAPA for taking meteorological observations. PAPA, based in the northeast Pacific, contributes to Canada's observation network for numerical weather forecasts. With a view to possible replacement of PAPA by a buoy-aircraft-satellite system, AES experiments will stimulate the normal forecasting operations with alternate input of observations.

The professor's role will be to define statistical features of meteorological variables in the North Pacific region and use this information to select observing arrays (collection of weather stations) for testing.

Dr. Thiebaut, a professor in the departments of mathematics and preventive medicine, has been the recipient of National Research Council grants since 1975. Her assignment with the service will be a natural extension of her ongoing research which aims at delimiting the statistical structure of the atmosphere. This is essential to increasing forecast accuracy and to the study of techniques for predicting climate change.

CANADA WIDE SCIENCE FAIR WINNER

Winners in the fair held during the summer of 1977 in Victoria were announced last fall. One of the winners, Gino Barichello from Central Public School in Windsor, Ontario was given the CMOS cash prize for his pollution control project.

The next annual Canada wide Science Fair will be held in Sudbury, Ontario May 7 - 13, 1978. It is here that up to four of the top projects from each of the Regional Science Fairs across Canada will compete for honors and awards.

OUR NEW MEMBERS

Burns, L.M., Willowdale, Ontario
Charest, J.F., Beaconsfield, Quebec
Drapeau, G., Rimouski, Quebec
Grant, H.L., Victoria, B.C.

Jones, H.A., Ottawa, Ontario
Hawkes, M.J., Ottawa, Ontario
Morgan, M.R., Ottawa, Ontario
Powell, J.W., Dartmouth, Nova Scotia
Teunissen, H.W., Downsview, Ontario
Smith, P.J., Fredericton, New Brunswick
Strong, D.C., St. Johns Newfoundland
Verkaik, A., Islington, Ontario

ANNOUNCEMENTS

CMOS 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, Dept. of Physics, the University of Western Ontario, London, Ontario, N6A 3K7.

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 DEPT. 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

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