



# C.M.O.S. NEWSLETTER

JUNE 1978

VOL. 6 NO. 3

EDITOR: MERT HORITA, 4160 COWLEY CRESCENT, RICHMOND, B. C. V7B 1B8  
TELEPHONE 273-2543

## THE PRESIDENT'S REPORT

In his comments in the most recent issue of Newsletter the editor touched on some of the concerns that the executive are hearing and feeling concerning the operational professionals in our Society. With so many employment areas now available, it is not easy for one organization to meet equitably the needs of all members, particularly when there are program restraints. At this time it is policy to develop Atmosphere-Ocean as a top-flight scientific periodical in meteorology and oceanography which will be attractive to scientists, nationally and internationally, as a publishing and information medium. For this reason the editor can not accept some of the items submitted to Atmosphere-Ocean, to the voiced disappointment of some.

To react, certain things are being done. For example, Newsletter in the past year has been up-graded from an irregularly issued bulletin to a scheduled paper designed to meet the communication needs of all members of the Society. The extent that Newsletter will continue to develop will certainly depend upon the demands placed upon it by members.

Also the editor of Atmosphere-Ocean is seeking ways by which the publication and informational needs of operational employees can be better met. He has included two of these in his editorial committee and the executive is co-operating by offering travel assistance so that they may attend the editorial committee meeting to be held in London during Congress. The editor again is exploring the possibility of co-operative publishing programs with both the Royal Meteorological Society and the National Weather Association and discussion on these matters is certainly expected in London.

While the Society is trying to react to the expressed needs of its members, we must echo the comments of the editor of Newsletter - it is your Society and your executive can best serve you if your needs are well identified. Through Newsletter and through your Centre or Chapter, let it be known what you want so that the Canadian Meteorological and Oceanographic Society can prosper by meeting the societal needs of meteorologists and oceanographers in Canada.

## EDITOR'S COMMENTS

Report on the C.M.O.S. Newsletter 1977 - 78

The present editor replaced the former editor, Bill Creswick, with the publication of the October 1, 1977 newsletter. Bill Creswick retired as editor after approximately 5 years. His first issue as editor was September 14, 1973.

Beginning October 1, 1977 the C.M.O.S. Newsletter became a bi-monthly publication.

Also with this issue the banner officially changed from C.M.S. to C.M.O.S. reflecting the constitutional change in our society. As of the February 1978 issue, volume and serial numbers were appended. The February 1978 issue became Volume 6 No. 1.

The Newsletter now has a structured format. The format headings are:

Presidents Report  
Editor's Comments  
Letters to the Editor  
News from Your National Executive  
News from Your Centres  
News and Notes  
Our New Members  
Announcements  
Employment Opportunities

Typing of the Newsletter is done commercially at approximately \$30.00 an issue. Printing and mailing is done by Toronto Press at roughly \$250.00 - \$300.00 an issue.

The editor wishes to thank all those who have contributed to the Newsletter during the past year. Special recognition should go to all the Centre Presidents who have been extremely cooperative in sharing their time and news.

#### LETTERS TO THE EDITOR

This section is reserved for comments from our members. Deadline for the August issue is July 3rd.

#### NEWS FROM YOUR NATIONAL EXECUTIVE (as of May 5, 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

- I. Executive meeting Number 6 of the C.M.O.S. was held April 11, 1978 in Vancouver.
  - a. The C.M.O.S. Booklet is under review and recommended action will be forthcoming.
  - b. Travel funding for N. Yakowar and M. Hacksley to the London Congress was discussed and the needed monies were approved.
  - c. The 1980 Congress will be in Toronto in conjunction with the American Geophysical Union. At present it appears very little correspondence is taking place between the C.M.O.S. and the A.G.U.

- d. Tim Oke, editor of Atmosphere-Ocean is investigating the feasibility of setting up some type of arrangement with the Royal Meteorological Society and/or the National Weather Association in order to obtain for our members the publications Weather and/or National Weather Digest.
- e. At the time of this meeting the Executive were pleased to see that the arrangements for the London Congress were moving along smoothly.
- f. The Executive discussed the very extensive research and preparation done by the Committee on Meteorological Consulting Standards in Canada. This item will be discussed at the London Congress.

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

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

The speaker program has now been recessed until September.

Elections of new executive officers will take place in September.

The B. C. Centre's project to supply the B. C. Ferries with oceanographic information posters has been approved by the B. C. Ferry Corporation. The posters are now being prepared at U.B.C. and will be available on the ferries before the summer season.

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

At the March 20 meeting Don Storr, Consultant to Alberta Environment, presented a talk on the Comparison of snow melt rate calculated by the U.S. Corp. of Engineer's model with measured rates on a snow pillow at Marmot Creek.

The local Science Fair winner in meteorology was Sindy Pinowar, a grade 7 student. Her award was for a project where she set up a mini weather station and prepared her own forecasts. Sindy was awarded a \$50.00 cash prize plus a plaque. A second plaque was for display at her school and to be returned to the Alberta C.M.O.S. Centre next year.

The last meeting of the season was held April 27. The speakers were Ben Jang, A.E.S., and Av Mann, Alberta Oil Lands Environmental Research Program. Their talk discussed the objectives of the Alberta oil lands research project. Ben Jang added with the climatology of the tar sands project area.

A new executive was voted in at the April 27 meeting. The new executives are: President Lub Wojtiw, Vice President Randy Angle and Secretary Treasurer Av Mann.

REGINA	President	Don Bernachi
	Sec. Treasurer	Clarence Spelchak

The Regina Centre participated in the Regina High School Science Fair, unfortunately there was no worthwhile meteorological entry.

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

The selection committee is to meet May 2, 1978 to choose a winner of the C.M.O.S. Prairie Award for the best meteorology related paper in the past year. A second selection committee will be meeting in mid-May to choose a winner of the Burn Lowe Award for outstanding contribution to meteorology.

At the May 2 meeting, the speaker was George Pratt, Plant Sciences Division, Agriculture Canada.

The final meeting of the season will be held in the middle of May, at which time a new slate of officers will be voted in.

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

The Toronto Centre will have their final meeting of the season May 17. It's to be a wine and cheese affair. The speaker will be Dr. Donald Gilman, Chief Long Range Prediction Group N.O.A.A. His topic will be Long Range Prediction in the U.S.A.

New officers will be elected at this meeting.

The Toronto Centre, in order to plan next years program, has sent out a questionnaire to ascertain information about the following areas; (i) general membership information; (ii) level of satisfaction with the centre; (iii) what requires changes in the format of the meetings; (iv) what new activities should be engaged.

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

At the Ottawa Regional Science Fair held at Carlton University April 7-8, the special award donated by the Ottawa Centre was won by Susan conklin and Kathy Vajda for their display of freezing water. The winners were presented with a trophy and a \$25.00 prize. Immaculate High School will display the Ottawa Centre's plaque during the coming year.

The final meeting of the season was held May 3rd. The speaker was Dr. Warren Forrester, Canadian Hydrographics Service. His topic was Meteorological, Tidal and other influences on the flow through Little Current Channel. New officers were elected at this meeting. They are: President Dr. N.J. Campbell; Vice President E.J.A. Hamilton and Secretary Treasurer R.B. Saunders.

MONTREAL	President	Conrad East
	Secretary	Gilles Desautels
	Treasurer	Serge Roy

The meeting featuring Dr. Watts was cancelled.

The new officers of the Montreal Centre are: President Hubert Allard,; Secretary Gilles Desautels and Treasurer Jean-Guy Cantin. Elections were held April 19.

The Montreal Centre is discussing the feasibility of awarding a prize each year by conducting an Expo Science Fair. The award would be for the best meteorological program.

The last meeting of the season is scheduled for the end of May. It is to be a social meeting.

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

The April 12 meeting with guest speaker Dr. Watts was cancelled.

Next meeting is scheduled for mid-May with speaker M. Gabriel Polisois. His topic is Impact des activites energetiques sur le climat.

The final meeting of the season will be held June 9. New officers will be elected at this meeting. Also at this meeting, the Quebec Centre will announce the winner of the Quebec Centre C.M.O.S. plaque for outstanding work in the field of meteorology in the province of Quebec. This is the second year for this award. The first winner was Dr. j.O. Villeneuve who was the first director of the Quebec Meteorological Service.

HALIFAX	President	Rod Shaw
	Secretary	John Dublin
	Treasurer	Dave Dockendorf

The Halifax Centre was not able to be contacted in time for the C.M.O.S. Newsletter deadline. A full report will appear in the August Newsletter.

#### NEWS AND NOTES

##### Ken Harry Past President C.M.O.S.

After the successful London Congress Ken Harry has reached the honored chair of Past President C.M. O.S. In his year as President the Society saw the change in its name from C.M.S. to C.M.O.S. The Newsletter became a regular publication and the Atmosphere-Ocean saw much change in its format and physical size. The Society has prospered and grown during this past year.

Ken Harry's interests have been in meteorology for some time. He joined the Canadian Meteorological Service May 18, 1942 after graduating from U.B.C. Ken spent his contact training at Western Air Command in Victoria. From Victoria a short time was spent at the base in Terrace. When Prince George opened a forecast center Ken manned the office with colleagues John Henderson, Don McIntyre and Don Slater until it closed in 1945. After the closure of Prince George

forecast office most of the years up to 1972 were spent in Vancouver. A Short break of 2 years was spent at C.A.O. Ken became Officer in Charge of the Vancouver Weather Office in 1963. October 1, 1965 Ken became Regional Superintendent of General Weather Services. December 4, 1972 saw a move to the Maritimes as the Regional Director of the Atlantic Region. Ken Harry retired from the Atmospheric Environment Service August 30, 1975.

The retirement from the public service did not stop Ken from continuing his active involvement in meteorology. His present work as a Meteorological Consultant has involved him in studies such as the Robert Banks Superport Environmental Impact Study.

Ken Harry, many thanks for guiding the Canadian Meteorological and Oceanographic Society through another successful year.

#### OUR 1977 C.M.O.S. AWARD WINNERS

##### President's Prize - P. E. MERILEES

"For his important and fundamental contributions to the field of General Circulation Dynamics including Spectral Representation and Predictability: for his support of the journal Atmosphere and his paper 'Experiments with Polar Filter and a One-Dimensional Semi-Implicit Algorithm'. Atmos., 15, 19-32".

##### Andrew Thomson Prize for Applied Meteorology - J. I. MacPHERSON

'for his scientific and technical leadership in instrumentation of the NRC T-33 aircraft and analysis of data obtained in its use in atmospheric measurements".

##### Rube Hornstein Prize in Operational Meteorology - K. LEE

"For outstanding operational meteorological service in setting and maintaining over many years, high standards in weather analysis and prognostication. latterly in the Pacific Weather Centre".

##### Grad Student Prize - L. W. DIEHL

"For his M.Sc. Thesis "Dynamics of Baroclinic Waves and Blocking Ridge Development", in which stability of a two-level baroclinic model including variable static stability, sensible heat exchange with the surface, horizontal and vertical turbulent transports and a harmonic perturbation field of variable meridional wavelength was investigated".

##### C.M.O.S. CITATION - NEW ALCHEMY INSTITUTE

"To the New Alchemy Institute (P.E.I.) for their initiative in promoting environmental improvements through the conception and the building of a self-contained, self-sufficient living environment, the ARK. This concept is based on the philosophy that wasteful human technologies must be replaced by efficient, low consumption technologies, powered by the renewable resources of sun, wind and biological systems".

##### CORRECTIONS TO OUR LAST NEWSLETTER

With the Editor's apologies the following corrections should be noted.

Page 7 - Prize in Applied Meteorology should read Andrew Thomson Prize for Applied Meteorology.

Page 7 - The 1976 winner of the Andrew Thomson Prize for Applied Meteorology should read S. Orvig and E. A. Vowinckel.

Page 8 - The 1976 winner of the Rube Hornstein Prize in Operational Meteorology should read S.V.A. Gordon.

Page 10 - Our new members; Strongatis should read as Stogatis. Mikleva should read as Nikleva.

#### THE C.M.O.S. SCIENTIFIC COMMITTEE IS HEARD

In a recent AES report to the Review Committee concerning Ocean Weather Station PAPA Operations, the AES has made the following recommendation:

"It is recommended that weathership operations be continued until such time as an alternative system has been tested, put in place and proven to be adequate to meet AES data needs, and that adequate funds be reallocated to permit the AES to design, develop and implement an alternative system by FY 1983/84".

This recommendation was made after considerable consultation both within the AES and outside the organization. The recommendation of the C.M.O.S. Scientific Committee was seriously considered and the report made the following statement:

"The views of scientific societies are of interest to the Crown. The Canadian Meteorological and Oceanographic Society (C.M.O.S.) has expressed an opinion through its Scientific Committee. The C.M.O.S. Newsletter of April 1978 contains the following item:

"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, CO<sub>2</sub> monitoring and precipitation measurements". ---"

#### OUR NEW MEMBERS

Anlauf, Kurt	Downsview, Ontario
Bailey, W. G.	Beaverlodge, Alberta
Bussieres, Normand	Quebec, Quebec
Gabison, Raphael	Willowdale, Ontario
Hodgins, Donald	Vancouver, B. C.
Huyer, Adriana	Corvallis Oregon
Melling, Humfrey	Sidney, B. C.
Newell, John	Clarkes Beach, Newfoundland
Osborn, Thomas	Vancouver, B. C.
O'Toole, Anne	Oshawa, Ontario
Stovel, Leslie	Edmonton, Alberta
Stuart, Ambury	Downsview, Ontario
Stubbs, Kenneth	Vancouver, B. C.
Suzuka, Hiromasa	Scarborough, Ontario
Tait, Brian	Grimsby, Ontario
Yao, Tom	Dartmouth, Nova Scotia

ANNOUNCEMENTS

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

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

EMPLOYMENT OPPORTUNITIES

OVERSEAS JOB OPPORTUNITY

THE POSITION Aviation Meteorologist/Forecaster

LOCATION The Gambia, West Africa

THE JOB An Aviation Meteorologist/Forecaster is needed by the Hydrometeorology Department to work in its forecasting office at the new Yundum Airport. Duties will include:

- a) Compiling specific meteorological data for aviation needs
- b) Keeping track of weather patterns in the area
- c) Interpret information received by new equipment being installed at the airport
- d) Provide meteorological information to the general public
- e) General administrative duties

THE PERSON Qualifications for the position include formal study of Geography or Climatology. Forecasting training and experience is essential.

terms of service

CUSO is a private, non profit organisation which places a variety of qualified technical and professional people in over 40 developing countries in Africa, Asia, Latin America, South Pacific and the Caribbean.

Salaries are paid by the employing government or agency in the host country at local rates of pay — not Canadian. Adequate standard of living is enjoyed, however.

CUSO provides training, return transportation, medical and life insurance and covers interest on federal student loans, if applicable.

Applicants must be Canadian citizens or have Landed Immigrant Status and are normally resident in Canada.

Married couples are eligible provided both husband and wife are suitably qualified. In the case of families with school age children special arrangement can sometimes be made.

application

CUSO is represented across Canada by 80 Local Committees at universities, colleges, institutes of technology and community colleges and 4 Regional Offices, addresses overleaf. Contact the nearest Regional Office or CUSO Recruitment, Ottawa for the address of the nearest Local Committee to you if you have any difficulty.

The Local Committee will give you all the necessary application forms if eligible and arrange an interview.

CUSO assignments call for qualities of common-sense, initiative, self-reliance, sensitivity and an ability to relate to different values and conditions.

If this job described above has been filled, remember there may be other openings. Just ask your Local Committee.

Applicants will be assessed for suitability by CUSO and the host employing agency overseas.

CUSO recruitment, 151 Slater, Ottawa, K1P 5H5

NORANDA GROUP

METEOROLOGIST

Description:

Assuming responsibilities of weather office operations and control system of SO<sub>2</sub> emissions of copper smelter at Noranda.  
Forecasting meteorological parameters related to atmospheric diffusion.  
Taking decisions and actions for controlling air quality.

Qualifications:

University graduate (B.Sc. or M.Sc.). One year experience in meteorology.  
(Meteorological technician with good experience and formation may apply.)  
Good knowledge of french.

Salary:

According to formation and experience; fringe benefits very interesting.  
Possibilities of specialized courses in air pollution.

Apply to: Director of Personnel,  
Noranda Mines Limited,  
P. O. Box 4000,  
Noranda, P.Q.  
J9X 5B6

Description:

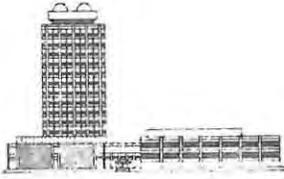
Assumer responsabilités des opérations d'un bureau de météo et d'un système de contrôle des émissions de SO<sub>2</sub> à l'usine de cuivre de Noranda.  
Prédire des paramètres météorologiques reliés à la diffusion atmosphérique.  
Prendre des décisions et des actions pour contrôler la qualité de l'air.

Qualifications:

Cours universitaire (B.Sc. ou M.Sc.).  
Un ans d'expérience en météorologie (techniciens en météorologie avec bonne expérience et formation peuvent appliquer). Bonne connaissance du français.

Salaire:

Selon formation et expérience; bénéfices marginaux très intéressants.  
Possibilité de cours spécialisés en pollution de l'air.



UNIVERSITY OF TORONTO  
DEPARTMENT OF PHYSICS



ASSISTANT OR ASSOCIATE PROFESSORSHIP IN DYNAMIC METEOROLOGY

Requirements: Research experience in atmospheric dynamics and teaching experience in meteorology

Duties: To establish a research program in dynamic meteorology, to teach graduate and undergraduate courses, and to supervise graduate students

The starting date for this regular University position is July 1, 1979; applications with vitae should be submitted not later than October 1, 1978. Inquiries and applications should be directed to Prof. R. List, Department of Physics, University of Toronto, Toronto M5S 1A7, Canada