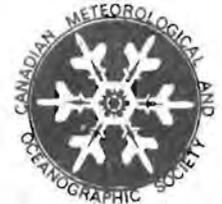




C.M.O.S.

# NEWSLETTER

S.C.M.O.



JULY 1981

Vol. 9 No. 3 & 4

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## WELCOME TO THE CMOS PRESIDENT PROFESSOR EDWARD LOZOWSKI

Ed was born in Nottingham, U.K. at the end of World War II and came to Canada in 1953. He attended the University of Toronto where he obtained a B.Sc. in 1965, an M.Sc. in 1967, and a Ph.D. in 1970. His thesis



research, which concerned the aerodynamics of hail, was conducted under the supervision of Roland List. An interest in geophysical fluid dynamics led him for a year to the Department of applied Mathematics and Theoretical Physics in Cambridge.

Upon his return to Canada in 1971, he accepted a position in the Division of Meteorology at the University of Alberta where he was recently promoted to professor. His teaching includes both physical and dynamical meteorology, while his research centres around cloud physics and weather modification.



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  
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Ed joined CMOS as a graduate student, and has served the Society in various capacities over the years as a member of several committees, chairman of the Alberta Centre, book review editor of Atmosphere-Ocean, and most recently as Vice-President. He is also a member of the RMS and the AMS.

Ed and his wife Elizabeth have three children - Sarah 9, Kenneth 4, and Alexander 1. His hobbies include gardening, singing, and speed-skating.

#### FROM THE PRESIDENT'S DESK

The Canadian Meteorological and Oceanographic Society exists for the advancement of meteorology and oceanography. Thanks to the hard work of a large number of members over the years; this statement is not only an article of the constitution, but a practical reality. A glance through the 'reports' section of the Atmosphere-Ocean Congress issue quickly tells the story. Thirteen Centres and Chapters, 12 Committees, two Special Interest Groups, a first rate journal, a newsletter, prizes and awards - these constitute the framework of the Society. But what makes the Society tick are its members. About 150 members serve in various offices or on committees and many more volunteer their time as meeting speakers, manuscript reviewers, science fair judges, conference organizers, report translators, ...the list is endless.

As your new President, I am proud to be associated with such a healthy Society, healthy precisely because it is so active. My hope for the year to come is that the Society will become even more lively, tackling the issues which lie before it, and fulfilling its responsibility, not only to its members but to the public at large. We have the tools. Let's get on with the job!

So much for the sermon. In practical terms, I would like to work towards a greater awareness of the Society, both among its members and in the wider community. The extent to which we know each other and are known and recognized from outside, will determine the effectiveness of the Society's work. How can this be accomplished? We can make a beginning by first individually and then collectively coming to grips with the issues facing the Society, some of which I have outlined below. Then we must each be prepared to roll up our sleeves and pitch in. Let the executive know where you stand. Don't wait to be asked - volunteer. And don't be afraid to use the newsletter to communicate with your fellow members.

I have indicated, by way of questions that follow, some of the issues which I would like to see the Society consider this year. Few of these are brand new. Most are ongoing concerns. So let me know how you feel about these, and keep me informed about other concerns you may have.

1. What can the Society do for science teachers, high school students and amateurs?
2. What does the Society have to offer the operational meteorologists/forecasters? Will the special interest group format serve their needs?
3. What publications should the Society produce beyond Atmosphere-Ocean and the Newsletter? (Other journals, brochures, films, position papers, press releases?) How can A-O and the Newsletter be improved?
4. How can the overall financial picture of the Society be enhanced? What about the internal distribution of funds?
5. Now that we are moving towards a permanent office, do we need a permanent secretariat (executive secretary)?
6. How do we increase awareness of the Society? How about a new logo?, or a directory of meteorologists? How can new members become more involved in Society activities, so that we don't always call upon the same people?
7. What role should the Society have vis-a-vis the "professional" meteorologist/oceanographer?
8. How can we promote membership recruitment?
9. Are Centres and Chapters making effective use of their subventions?
10. Should the Society take a stand on matters such as human rights?
11. Is the present executive election system satisfactory, or would a mail ballot be more appropriate?
12. How can the Society further promote high quality research in meteorology and oceanography?

Prof. Ed Lozowski

#### FROM THE OUTGOING PRESIDENT

This was the 15th annual Congress for the Society, and the first to be held in Saskatchewan. From my vantage point, it was an extremely hectic period, but everything seemed to proceed on course. As a member of the host Centre, I am a trifle reluctant to pronounce the affair a resounding success, but from the comments received from our guests I shall make that statement on their behalf. There were 160 or so paying registrants, plus about 20 to 30 complimentary partial or special attendees. The Local Arrangements Committee, under Jeff Whiting, SRC, Saskatoon, is to be congratulated for the smooth way all the different aspects of the meeting were planned and handled.

The scientific sessions were opened with a welcome from Dr. Leo Kristjanson, University of Saskatchewan President. He took the occasion to express his willingness, eagerness in fact, to have the oft-promised Federal Hydrology Research Institute located on the

University campus in Saskatoon. As such a move should provide for a welcome strengthening of CMCS's Saskatchewan Centre, I was happy to endorse the invitation in my remarks.

The first of the two invited speakers, Mr. J.P. Bruce, Assistant Deputy Minister, AES, then addressed the Congress, establishing its primary theme of hydrometeorology. The second invited speaker, Dr. F.B. Smith, U.K. Meteorological Office spoke the next day, opening the air pollution sessions. Altogether there were some 125 submitted papers, including poster presentations. Oceanographic topics accounted for 20% or so of the total program and audience, a quite respectable proportion considering the extreme inland venue. I should like to express the Society's appreciation to the program chairman, Barry Goodison, AES, Downsview and his committee members for putting together a stimulating and well-organized technical program.

Following custom, the day before the Congress opens is given over to meetings of our various committees. It was impossible for one person to attend them all (two or three would be meeting concurrently) and detailed reports of their deliberations will appear elsewhere; nevertheless, I should like to mention here a few of the items and motions that arose.

The editor of Atmosphere-Ocean, Henry Leighton, was able to report to his editorial committee that manuscript submissions for the journal had shown an encouraging increase in number during the past six months. He was cautiously optimistic that the trend would continue. I am glad to report it, and once again would urge all would-be authors to seriously consider publishing their research in our own Society journal.

There was a meeting of Centre Chairmen held at the same time that Tuesday morning, the first of what may well become a regular Congress event. The purpose was to discuss problems common to Centre operations, and to share innovative ideas and approaches to these problems. The best time to change the local executive each year was one such topic. Currently this happens to be September, January or May depending on the Centre; no rules are laid down. The chairmen in attendance seemed to favour May as the most appropriate (i.e. at same time as the National Executive changes), but it was agreed to seek the opinions of the absent chairmen before making any recommendation toward uniformity.

In the afternoon there were concurrent meetings of the Scientific Committee, the Membership Committee and the Public Information Committee. The first was particularly well attended, with discussion being focused on meteorological satellite research and the need for a major Canadian computing facility. Significant progress in both areas has been made over the past year. Full reports from each of these Committees will be available in due course.

At the Council Meeting that evening, approval was given to the establishment of a second CMOS Special Interest Group, this was in

Hydrology. Chairman for it is Gary Schaefer, AES, Vancouver. Members interested being affiliated with it should contact him. Council also approved a series of recommendations concerning the Society's Prizes. One established a new prize in applied oceanography, roughly analogous to the Andrew Thomson Prize in applied meteorology. A second important proposal resulted in converting our "ad hoc" prizes and citations committees into a single permanent committee, (with members serving several years on a rotating basis). It was felt that this would provide for greater continuity and consistency in nominee selection. The Council meeting adjourned just in time for the Councilors to join the membership at large in a Wine and Cheese Reception.

The Annual General Meeting was the following evening, and was very well attended (perhaps because Saskatoon isn't exactly a hot nightlife city!). Chief items of business were the bylaw changes to set up a code of Ethics (as recommended by the Committee on Professionalism) and the establishment of a "reduced privilege" membership category (as proposed by the Membership Committee). After much debate, the former was rejected and the latter approved for a trial two-year period, during which time present "Full Members" would not be able to transfer to "Associate Member" category. This restriction was felt necessary to ensure the continued circulation level for Atmosphere-Ocean until an assessment of new category's popularity and potential could be made. Details of what Associate Membership might provide (it would exclude Atmosphere-Ocean, for a start) and of what might be an appropriate fee were left up to the incoming Executive to ascertain. The AGM closed with a "No-Host" fluid flow symposium at the U. of S. Faculty Club; it seemed an appropriate way to wind up the affair and one that kept attendance fairly high right to the end!

The highlight of the Congress Banquet on the following evening was the address by Mr. Morley Thomas, AES, Downsview. A few years back he generously agreed to act as Society Archivist, and his topic therefore was the founding of CMOS and its development during the past 15 years. Getting him on the program turned out to be doubly auspicious, when to the surprise of the Local Arrangements Committee who had asked him to speak, Morley Thomas was awarded the AES's Patterson Medal for 1980. Congratulations!.

The last day of the Congress saw the initial meeting of what will surely become an important component of the Society's structure and activities. On the recommendation of the Scientific Committee, and with AES's active encouragement, an Education Committee was formed to investigate Canada's future needs for professional meteorologists, of ways to meet these needs, and of the types of training that might be required. Terms of reference are now being finalized; needless to say, membership on the committee will be heavily weighted towards those universities that are presently offering meteorological courses. An analogous committee for oceanography may well be struck in the future, should oceanographers so desire.

I should like to close by thanking the outgoing members of the National Executive for all their work on behalf of the Society: Ed Lozowski, Vice-President; Randy Angle, Treasurer; Peter Kociuba, Corresponding Secretary; and Jim Renick, recording Secretary. Also to John Powell, Past President whose term of office is now over. I'm sure they will join with me in welcoming our recently elected Vice-President, Richard Asselin, and our new recording secretary, Carr MacLeod, to the Executive. This first stage in transferring the Executive locale from the west to the Ottawa area should provide for a most interesting year.

John Maybank

ARK 1 - PROFESSOR BALFOUR CURRIE

I read with sorrow the obituary of Professor Balfour Currie in the February 1981 issue of the CMOS Newsletter. I did not enjoy a personal acquaintance with Prof. Currie but I do know that he had for a number of years a significant influence on meteorology in Canada. As an Assistant Professor of Physics he took a year off from the University of Sask. for term employment with the Meteorological Service to act as physicist at the special observing station at Chesterfield Inlet during the 1932-33 International Polar Year. During this international effort the MSC was responsible for special observing stations at Coppermine, Chesterfield, and Cape Hope's Advance, PQ and special observations at Meanook, Alberta and Saskatoon. During the same period, the British Meteorological Office manned a station at Fort Rea in the Northwest Territories. For those interested in this expedition, I refer you to John Patterson's report in the August/September 1932 issue of the Bulletin of the American Meteorological Society entitled "Canada's Program for the International Polar Year". Subsequently, in 1940, a 452-page volume was published containing observational data from the Canadian stations.

Although Prof. Currie's speciality was physics of the upper atmosphere, he maintained an active interest in meteorology and climatology. For 30 years after his participation in the Polar Year exercise, he continued to publish papers and articles on the Canadian climate with specific reference to the Prairie provinces. During this time and especially in the late 1930s, Prof. Currie recruited several Saskatchewan graduates for the Meteorological Service. Several of our colleagues, now retired, say that their interest in meteorology had been sparked by him and that he was primarily responsible for them entering the Service.

The Society Archivist would appreciate hearing from any of those meteorologists who were steered in the direction of the Meteorological Service on graduation by Prof. Currie or similar professors. It is important that succeeding generations know the contributions made to meteorology in Canada, not only by meteorologist who have had careers in the Service, but also by other scientists and professors whose careers were outside. Any information sent to me will be put in the Society Archives for the use of those who wish to learn and/or write about the history of meteorology in Canada.

Morley Thomas

1981-82 EXECUTIVE

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CONGRESS HIGHLIGHTS

Several proposals arose out of the **Centre Chairmen's meeting**. An attempt will be made to encourage all Centres and Chapters to coordinate the timing of the executive change-over to coincide with that of the national executive. This will, hopefully, simplify communication with the Centres and Chapters. This year the executive will try to obtain advice from the Centres and Chapters before making a final selection of speakers for the AES/CMOS tour. **The Centre subvention formula** will be amended so that Centres will receive \$1.50 per member for membership beyond 100. (The previous amount was \$1.00). Some Centres or Chapters may wish to follow the example of the Ottawa Centre, who increased their attendance by 100% by holding luncheon meetings with sandwiches, beer, and (presumably) a speaker.

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An **Education Committee** has been formally established to "review, on behalf of CMOS, all matters relating to the professional education of meteorologists at Universities and to their subsequent employment opportunities in Canada". The Committee, consisting of representatives of the Universities, AES, and other employers, is expected to meet at least once a year, and will, we hope, find creative and equitable solutions to the problems of education, recruitment and employment of meteorologists in Canada.

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The **Public Information Committee** is working on three pamphlets. The first on carrers in meteorology should be ready for publication within a year. The second on the Society, and the third on science fair projects for high school students are in preparation.

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A new **special interest group** in hydrology has been formed. The chairman is Gary Schaeffer. We wish them well in their endeavours! See items elsewhere in this NEWSLETTER on this group and the AIR POLLUTION METEOROLOGY SPECIAL INTEREST GROUP.

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The category of **associate membership** has been formally established, on a trial basis, for a period of two years. Regular CMOS members however may not change their status in this period. **Associate membership** is primarily intended for individuals in related fields (possibly special interest group members) who wish to be affiliated with a group or a Centre, but who do not wish all the rights and privileges of a regular member. At a **reduced membership fee**, an associate member of CMOS will be able to participate in Centre and special interest group activities, but will not be entitled to serve on the national executive, as Centre chairman nor as the chairman of a national committee, or to a vote at the annual general meeting. An associate member will also not ordinarily receive Atmosphere-Ocean.

**Congratulations to the Society's award recipients:** Paul Lebond and Lawrence Mysak who won the President's Prize; Brian Barge and Bob Humphreys who won the prize in applied meteorology; and Douw Steyn and John Loder who won the Graduate Student Prizes. The Rube Hornstein Prize and the Citations were not awarded this year. Now is the time to start thinking of recipients for next year's awards, and don't forget to submit documentation along with your nomination.

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The **Committee on Professionalism** was formally established by vote of the Annual General Meeting. However, the **Code of Ethics**, as presented to the meeting, was turned down. Our sincere thanks to Bob Charlton and his committee for the very substantial effort that went into producing both the Directory of Consultants in Meteorology and Oceanography, and the Code of Ethics.

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**Three Centres failed to submit annual reports** for the Congress issue of Atmosphere-Ocean. We hope that this isn't a sign of incipient lethargy in the Society!

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Following a recommendation of the Prizes and Awards Review Committee the **Prizes and Awards Committee and the Citations Committee will be combined** beginning this year, and made a standing committee of the Society.

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Next year's Congress will be held in **Ottawa, May 26-28, 1982**. The theme of the Congress will be "Ice". The local arrangements' chairman is Leo O'Quinn, Secretary, CCO, 240 Sparks Street, 7 Floor West, Ottawa, K1A 0E6. The program chairman will be appointed shortly. Possible sites for future Congresses are Edmonton in '83 and Halifax in '84. A suggestion was made at the AGM to move the Congress into mid to late June. The advice of the membership is sought by the Executive on this matter.

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**Tim Oke and John Powell** have been appointed to serve as CMOS representatives on the interim **Editorial Board of the Climatological Bulletin**, while the future of that publication is being determined.

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A **Committee of Past Presidents** of the Society has been formed to undertake a housekeeping review of the Society's By-Laws. For further information, or if you have suggestions, contact John Maybank, Sask. Research Council, 30 Campus Drive, Saskatoon, Sask S7N 0X1.

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The Society was fortunate this year in having **J.P. Bruce**, Assistant Deputy Minister, Environment Canada, as theme speaker at the opening of the Congress. He did not, however, restrict his participation to the first morning. His active participation in many of the sessions, the AGM and the Education Committee were most welcome.

### PATTERSON MEDAL AWARDED TO MORLEY THOMAS

Morley Thomas, Director General of the Canadian Climate Centre of the Atmospheric Environment Service (AES) and the man who over a period of 35 years put Canadian climatology on the map, has won the 1980 Patterson Medal, Canada's highest meteorological award. The award was made by Jim Bruce, Assistant Deputy Minister, Environment Canada, at the 15th Annual congress of the Canadian Meteorological and Oceanographic Society held in Saskatoon.

Morley became a meteorologist in 1941 and has had a distinguished career in climatology spanning four decades. He is the author of numerous professional papers and several extensively-used atlases and books including *The Climate of Canada* (Wiley 1974, revised 1979) and the first *Climatological Atlas of Canada*, 1977.

He is currently president of the World Meteorological Organization's Commission for Climatology and Applications of Meteorology, and in this capacity he has guided the development of the World Climate Programme. Within Canada, he is leading the design and execution of the Canadian Climate Program.

The Patterson Medal is awarded by AES for outstanding achievement in meteorology. It was awarded in 1954 to Dr. John Patterson, controller of the Meteorological Service of Canada, 1919-46, and has since been awarded annually to people who have made outstanding contributions to atmospheric sciences and their application in Canada.

### CMOS AWARDS

The Graduate Student Prize was awarded to John W. Loder, Dept. of Oceanography, Dalhousie University, for outstanding contributions to our understanding of the physical oceanography of Georges Bank in his Ph.D. work entitled "Secondary tidal effects in tidally-energetic shallow seas with application to the Gulf of Maine"; and to Douw G. Steyn, Dept. of Geography, University of British Columbia for his excellent contribution to our understanding of atmospheric processes over a city including both a unique field observation program and innovative theoretical development in his Ph.D. work entitled "Turbulence, diffusion and the daytime mixed layer depth over a coastal city".

Dr. Andrew Thomson Prize in Applied Meteorology to R.G. Humphries and B.L. Barge, Radar Group, Alberta Research Council in recognition of their excellent contribution to the development of techniques for detecting severe weather conditions and for visual presentation of weather radar data.

The President's Prize to Paul H. LeBlond and Lawrence A. Mysak, University of British Columbia in recognition of their outstanding ocean research, specifically their extensive and original studies of waves, as presented in 1980 at CMOS meetings and published in their recent book "Waves in the Ocean".

NEW MEMBERS

Ahmed Aissaoui  
Rimouski, Quebec

Aaron Gergye  
Cote St. Luc, Quebec

John E. Mullock  
Gander, Newfoundland

William Appleby  
Nepean, Ontario

Ronald Goodson  
Portage La Prairie, Man.

Dr. Mervin Palmer  
Toronto, Ontario

François Aubin  
Calgary, Alberta

Tim O. Goos  
Edmonton, Alberta

Steven K. Sakiyama  
Edmonton, Alberta

Rinaldo Bianchi  
Toronto, Ontario

William S. Harley  
Coquitlam, B.C.

Brian J. Tait  
Orleans, Ontario

Joseph R. Buckley  
Calgary, Alberta

Mary Ann Jenkins  
Toronto, Ontario

Mark D. Ursacki  
Whitby, Ontario

Douglas Chan  
Toronto, Ontario

Ted A. Kendaris  
St. John's, Nfld.

Dr. Rene Verreault  
Chicoutimi, Quebec

Narayan Chidambaram  
Edmonton, Alberta

Claire Lauze  
Laval, Quebec

Sherman Waddell  
Halifax, N.S.

John H. Duffus  
Victoria, B.C.

Peter Mills  
Beaverlodge, Alberta

SUSTAINING MEMBERS

N. Sargent  
Downsview, Ontario

Change of Address Notice

All CMOS members are asked to notify the Corresponding Secretary or the CMOS permanent office of address changes. CMOS will notify University of Toronto Press regarding your address change for Atmosphere-Ocean and Notices to Members.

P. J. Kociuba  
Corresponding Secretary

CORPORATE MEMBERS

Alberta Agriculture Advisory  
Committee on Weather Modification  
Three Hills, Alberta

Airflow Development Canada Ltd.  
Mississauga, Ontario

Beak Consultants  
Vancouver, B.C.

Bendix Aviation Electric Ltd.  
St. Laurent, P.Q.

Bristol Aerospace Ltd.  
Winnipeg, Manitoba

Dobrocky Seatech Ltd.  
Victoria, B.C.

Geneq Inc.  
Anjou, Quebec

Hermes Electronics Ltd.  
Dartmouth, N.S.

MacDonald Dettweiler Assoc. Ltd.  
Richmond, B.C.

MacLaren Plansearch Ltd.  
Dartmouth, N.S.

Nordco Ltd.  
St. John's, Nfld.

Ontario Hydro  
Oakville, Ontario

Younge Atmospheric Consulting  
Services Ltd.  
Calgary, Alberta

We wish to apologize to MacLaren Plansearch Ltd. for accidentally omitting their name from the CORPORATE members' list in the 1981 Newsletter issues and the Atmosphere-Ocean Congress issue.

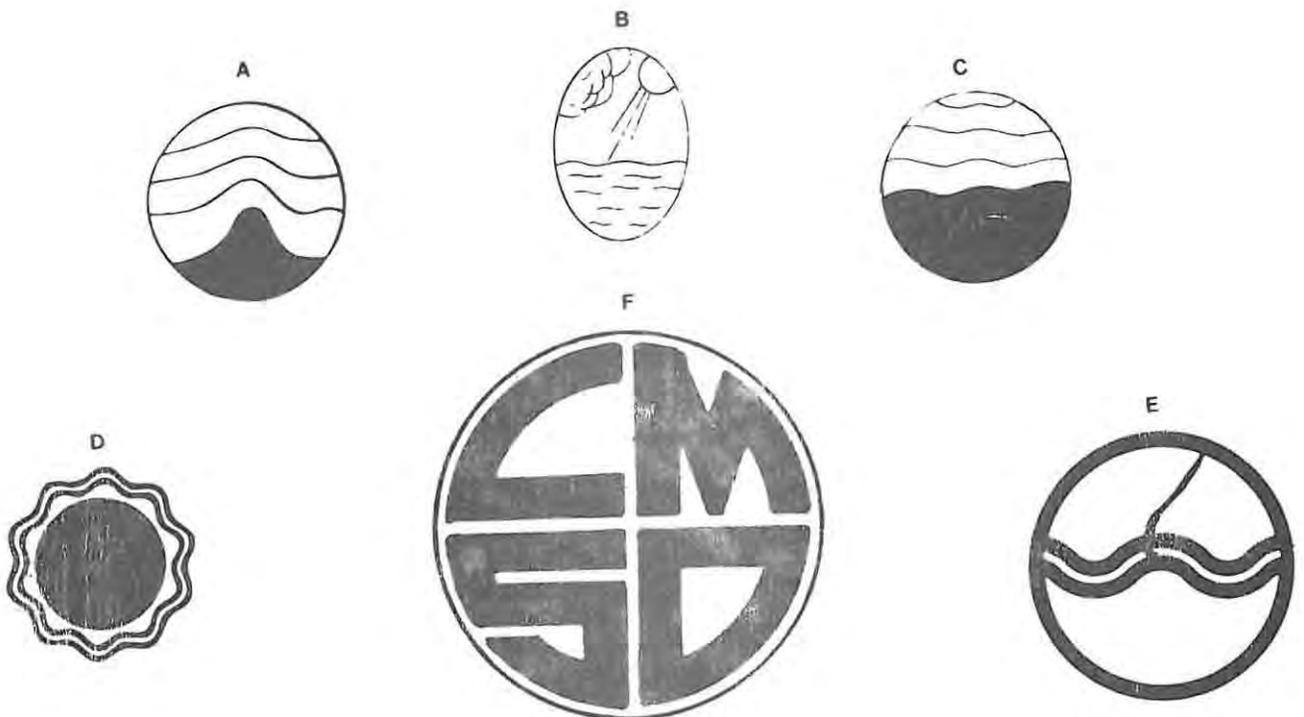
AES-CMOS TOUR SPEAKER - 1982

It is time to start thinking about arrangements for the 1982 tour speaker. The executive would like all members to consider potential candidates for the tour, and to pass their ideas on the President or any member of the executive whose addresses and phone numbers appear elsewhere in the NEWSLETTER.

CMOS LOGO

The principal reason for the suggestion about a year ago that the Society look actively for a new logo is that the Snowflake, though symbolic of Meteorology, does not adequately reflect the Society's Oceanography component. A secondary reason is that the Snowflake is not entirely unique. The International Glaciological Society, for example, sells a lapel pin with a snowflake very reminiscent of our own (though, I suppose, no two snowflakes are identical!). In order to obtain member advice in the formulation and selection of a new logo, an appeal for ideas was published in an earlier Newsletter. As a result, 26 suggestions were displayed, along with the posters, at the Congress in Saskatoon. Four new logos which received favourable comments are displayed here, and a sixth, which has come in since the Congress.

The purpose of this note is to advise members of the current status of the search for a new logo, to present the more popular ideas submitted so far, and to invite your comments and suggestions. It is my hope that the final choice of a new logo, or a decision to retain the Snowflake, will be made by the time of next year's Congress. Would you therefore please write and let me know whether you feel: a) we don't need a new logo (I'd particularly like to know if oceanographers feel this way); b) the present selection is not of a sufficient standard to allow a choice to be made at present; c) the present selection should be submitted for a mail ballot to the membership; d) you have an idea which tops any of those assembled thus far. Where we go from here depends on you. Unless I receive a deluge of letters favoring option (a), my intention is to submit several designs (including the present ones, the Snowflake, and any promising new ones we may receive) for a mail ballot in the Newsletter, prior to the end of 1981. The successful design will then be presented for ratification to Council and the Annual General Meeting.



CONFERENCES

Quebec City P.Q.	July 27-31, 1981 Sponsor: AMS/ Université Laval, Ministère de l'Environnement Gouvernement du Québec	Port and Ocean Engineering under Arctic Conditions
Montreal, P.Q.	August 4-7, 1981 Sponsor: SESCOI and Université of Quebec à Montréal	National Conference on Solar Energy
Calgary, Alberta	August 25-26, 1981 Sponsor: Kananaskis Environmental Research Centre	2nd Plains Aquatic Research Alberta Conference
Palo Alto, CA.	August 25-28, 1981	12th NATO/CCMS International Meeting on Air Pollution Modelling and its Application
Reno, Nev.	October 5-7, 1981	8th Conference on Inadvertent and Planned Weather Modification - AMS
Reno, Nev.	October 7-9, 1981	Fourth Conference on Hydrometeorology - AMS
Steamboat Springs, CO.	November 10-13, 1981	Seventh Conference on Fire and Forest Meteorology and Second Conference on Mountain Meteorology - AMS
Washington, D.C.	March 14-18, 1982	Sixth Symposium on Temperature - Its Measurement and Control in Science and Industry
The Hague, Netherlands	May 10-14, 1982 AMS/KNMI	1st International Conference on Meteorology and Air/Sea Interaction of the Coastal Zone.
San Diego, CA.	June 7-11, 1982	4th Conference on Ocean Atmosphere Interaction
Denver, CO.	June 13-17, 1982	AWRA International Symposium on Hydrometeorology
Seattle, WA.	June 28 - July 2, 1982	9th Conference on Weather Forecasting and Analysis.



## *Books*

**WEATHERING THE WILDERNESS.** By William F. Reifsnyder. 1980. 88 pages. \$8.95. Paperbound. Sierra Club Books. Charles E. Scribner's Sons, 597 Fifth Avenue, New York, N.Y. 10017.

This book was written for persons planning outdoor recreation activities, especially backpacking, in eight different regions of North America located mainly in the United States, with some extensions into nearby Canada. He is to be commended for filling a void in our literature: "weather to safely backpack by."

The text is divided into two general sections. The five chapters of Part I cover some basic meteorological concepts in The Air Around Us, Air Masses and Air Mass Weather, Storms and Frontal Systems, Microclimate and Mountain Meteorology, and Weather Hazards of the Back Country. Reifsnyder does a fine job of covering these topics for a generally lay audience in 97 4"x8" pages concerning hypothermia, hyperthermia, windchill, and snow avalanches in the section on Weather Hazards - might save many backpackers from suffering and even death.

**ACID RAIN AND INTERNATIONAL LAW** by Irene H. van Lier, L.L.M.

April 1981, approx. 220 pp.

Dfl. 40.00/US \$20.00

ISBN 90 286 2231 4

Can. \$23.00/US \$20.00

(North America) ISBN 0 7703 0185 1

This timely book treats the legal, economic and scientific aspects of acid rain - the environmental issue of the decade. Growing awareness of the ecological impact of this form of pollution has created a need for a clear readable account of the economic implications of both damage and control, as well as a need for a comprehensive assessment of the international legal process available to deal with transboundary movement of air pollutants in Europe and North America.

A readable, up-to-date, challenging and though-provoking treatise. An excellent source book for policy makers and international lawyers, as well as readers who wish to expand their understanding of this environmental problem beyond a simple understanding of the production and the consequent hazards.

**REPORT OF THE JOC STUDY CONFERENCE ON CLIMATE MODELS: Performance, Intercomparison and Sensitivity Studies, Volumes 1 and 2.** Edited by W. Lawrence Gates. 1979. GARP Publications Series, No. 22. 1049 pages. \$55.00 per set. Paperbound. UNIPUB.

This two-volume report is the result of a conference on climate modeling held in Washington, D.C., on 3-7 April 1978 and sponsored by the Joint Organizing Committee (JOC) of the Global Atmospheric Research Program (GARP). It symbolizes the dramatic, and almost overwhelming, increased interest in climate-related studies that has occurred during the last decade. This field rapidly is becoming one of the major research areas in the atmospheric sciences, thanks partly to the relevance of the subject and partly to adequate funding.

**TURBULENT FLUXES THROUGH THE SEA SURFACE, WAVE DYNAMICS, AND PREDICTION.** Edited by A. Favre, Institut de Mécanique Statistique de la Turbulence, Marseille, France and Klaus Hasselmann, Max-Planck Institut für Meteorologie, Hamburg, Germany.

Proceedings of the NATO Conference on Turbulent Fluxes through the Sea Surface, Wave Dynamics, and Prediction, held in Marseille, France.

Contents: Fluxes through the air-sea interface. Non-linear dynamics of surface waves. Wind-wave interaction. Numerical wave prediction models. Index.

692 pages, 1978

\$49.50 (\$59.40 outside US).

HYDROLOGY SPECIAL INTEREST GROUP

A CMOS Special Interest Group in Hydrology was formed during the 15th Annual Congress in Saskatoon, bringing to fruition efforts over the past year of a number of individuals most notably the then past president, John Powell, Michael Church of UBC (on behalf of the Associate Committee on Hydrology) and Bill Pugsley and Barry Goodison, Hydrometeorology Division, Canadian Climate Centre.

The new group's terms of reference are as follows:

1. To encourage the participation of hydrologists and hydrometeorologists in the activities of the Society.
2. To be an identifiable national interest group within CMOS that would be a focus for water interests, would sponsor special sessions at CMOS Congresses and encourage written submissions to the refereed journal of the Society, "ATMOSPHERE-OCEAN".
3. To organize an ongoing CMOS program of activities of interest to the hydrological community, such as joint meetings of CMOS with other scientific hydrological associations - the Hydro-technical Conferences of the Canadian Society for Civil Engineers, the Canadian Water Resources Association, and the Canadian Hydrology Symposia of the Associate Committee on Hydrology.

With respect to the second item it should be noted that the Editorial Committee has agreed to broaden the scope of the Society's journal to include physical hydrology, broadly defined (details are to be spelled out by that Committee).

An executive and steering committee selected in Saskatoon include:

D. Garry Schaefer (Chairman)  
Atmospheric Environment Service  
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Vancouver, B.C.  
V6P 6H9 (694) 732-4856

U. Sporns (Secretary)  
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HYDROLOGY SPECIAL INTEREST GROUPS (Cont'd)

Jean-Pierre Fortin  
INRS-EAU  
Ste-Foy, Quebec  
(418) 657-2281

Affiliation with the group is open to CMOS members and to interested non-members. Those who have not previously indicated their interest may do so by contacting either the group executive or any member of the steering committee. Close to 50 individuals now belong to the Special Interest Group in Hydrology.

AIR POLLUTION METEOROLOGY SPECIAL INTEREST GROUP

Our Air Pollution Sessions at the Saskatoon Congress were a real success; 21 papers were presented orally and three as posters. Attendance at the sessions was encouraging, often exceeding 50. Our thanks to the local arrangements committee, under chairman Jeff Whiting, who made the physical arrangements run so smoothly.

We held a group business meeting on Wednesday the 27th at 10 a.m. A full steering committee was elected: R.P. Angle (Secretary), R.E. Munn, D.G. Steyn, J.D. Reid (Chairman), B. Weisman. Future group activities were discussed, special subject workshop meetings were favoured and a number of suggestions offered. Stay tuned for further information - better yet, join the group and receive our newsletters. Written versions of almost all our Congress papers will be in the proceedings which is now in press. Several authors said they were considering submitting these same manuscripts to Atmosphere-Ocean so it may well be that such proceedings enhance our journal.

Forms for group membership and subscriptions to the proceedings (\$15.00) are at the end of this newsletter.

J. D. Reid

REPLY FORM

AIR POLLUTION METEOROLOGY-SPECIAL INTEREST GROUP

NAME:

ADDRESS:

POSTAL CODE:

PHONE:

1. PLEASE ADD MY NAME TO YOUR MEMBERSHIP LIST.
2. PLEASE SEND ME A COPY OF THE PROCEEDINGS OF THE AIR POLLUTION SESSIONS OF 15TH ANNUAL PMOS CONGRESS. A CHEQUE OR MONEY ORDER FOR \$15.00 IS ENCLOSED FOR THE PROCEEDINGS.

TO: R. A. ANGLE  
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AIR POLLUTION METEOROLOGY GROUP  
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