



Canadian Meteorological  
and Oceanographic  
Society

La Société Canadienne  
de Météorologie et  
d'Océanographie

# C.M.O.S.

# NEWSLETTER / NOUVELLES

## S.C.M.O.

ISSN 0827-0384

DECEMBER/DEC 1985

VOL. 13 NO. 5/6

SECOND CLASS MAIL REGISTRATION PENDING

#### NEWS FROM EXECUTIVE COUNCIL

Draft Guidelines for the accreditation of consultants were received by Council from the Professionalism Committee. These were discussed and returned with comments for final revision. Following the February Council meeting the draft Guidelines will be published in the February issue of the Newsletter for comments by members.

A flyer advertising Chinook has been prepared and 2000 copies printed for distribution: 1500 in English and 500 in French.

Members' comments and suggestions on the draft Constitution and By-Laws will be received and considered until December 5, 1985, after which final drafts in English and French will be prepared for publication in the Newsletter and approval at the 1986 Annual General Meeting.

Membership Committee Chairman, Bill Richards, has prepared and distributed posters to attract new members to the Society, and has sent membership recruiting packages to CMOS Centres and Chapters; encouraging follow-up on inquiries. In future, notices of change-of-address will appear in the Newsletter in addition to notices of new members. In both cases the Centre/Chapter affiliation of the member will be indicated.

The following Board and Committee appointments were made at the October 28-29 Council Meeting.

#### PUBLICATIONS

Chinook Editorial Board

#### APPOINTMENTS

Howard Freeland  
Yves Gratton

Climatological Bulletin Board

Sus Tabata  
Elaine Wheaton

Atmosphere-Ocean Editorial Board

Vit Klemes

Annual Review 1985

Ed Truhlar, as Editor

#### COMMITTEES

Professionalism

Bob Jones to Chair  
Sue Lally

Nominating

Sue Lally to Chair  
John Merrick

The name of the lecture tour co-sponsored by CMOS has been changed to "AES/DSS/CMOS Lecture Tour" to reflect the contribution of Ocean Science and Surveys to its support.

Council has approved the application to NSERC for scientific publication grants for Atmosphere-Ocean and for the Climatological Bulletin, and the application for support for Chinook to the MOSST Public Awareness Program.

#### NEWS REGARDING CONGRESSES

1. The preliminary report on the 1985 Congress reports total income as \$49,797 and expenses as \$40,732.
2. The budget for the 1986 Congress to be held in Regina has been approved.
3. Council has approved Memorial University of Newfoundland as the site, and June 17-19 as the dates, for the 1987 Congress. Dr. Brian Sanderson has been appointed Chairman of the Local Arrangements Committee and Dr. Alex Hay has been appointed Chairman of the Scientific Program Committee.

4. Toronto Centre will be recommended to the upcoming Annual General Meeting as the host for the 1988 Annual Congress.

5. Rimouski Centre will be recommended as the host for the 1989 Annual Congress.

#### 1985 - 1986 AES/DSS/CMOS LECTURE TOUR SCHEDULE

WESTERN TOUR                    WESTERN TOUR                    WESTERN TOUR

SPEAKER:                    Mr. Ron Portelli                    (416/630-6331)

Concord Scientific Corporation

TITLE:                    ATMOSPHERIC SCIENCES IN THE PRIVATE SECTOR

#### SCHEDULE:

Winnipeg                    Evening, Dec. 9, 1985

Saskatoon                    Afternoon, Dec. 10, 1985

Edmonton                    Evening, Dec. 11, 1985

Toronto                    Last week of January - first week of February 1986

Ottawa                    (same as for Toronto)

Montreal                    (same as for Toronto)

Quebec                    (same as for Toronto)

EASTERN TOUR                    EASTERN TOUR                    EASTERN TOUR

SPEAKER:                    Dr. Boris Weisman                    (416/477-0870)

Meteorological and Environmental Planning Company Ltd.

TITLE:                    THE OCEANOGRAPHIC-METEOROLOGICAL INTERFACE IN INDUSTRY

#### SCHEDULE:

St. John's                    Evening, Dec. 2, 1985

Halifax                    Afternoon, Dec. 3, 1985

Fredericton                    Afternoon, Dec. 4, 1985

Rimouski                    Afternoon, Dec. 5, 1985

Vancouver                    Last week in January 1986

Victoria                    \* \* \* \* \*

#### NEWSLETTER SUBMISSIONS

The following summarizes the publishing schedule for future issues of the Newsletter. The editor would appreciate receiving material in ELITE type print and set in columns of 13cm width where possible.

#### REVISED

#### DEADLINE FOR SUBMISSIONS

	VOLUME AND ISSUE
NOV. 15, 1985	DECEMBER VOL 13 NO. (5/6)
FEB. 7, 1986	FEBRUARY VOL 14 NO.1
FEB. 28, 1986	APRIL VOL 14 NO.2 (ANNUAL REVIEW)
JUNE 20, 1986	JUNE VOL 14 NO.3
AUG. 15, 1986	AUGUST VOL 14 NO.4
OCT. 17, 1986	OCTOBER VOL 14 NO.5
DEC. 12, 1986	DECEMBER VOL 14 NO.6

## 1985 CMOS AWARDS

### Call for Nominations

Nominations are requested from members and Centres for the 1985 CMOS Awards, to be presented at the 20th Annual Congress. Six awards are open for nomination:

#### **1. President's Prize**

To an individual or individuals for a recent paper of special merit in the fields of meteorology or oceanography. The paper must have been published in Atmosphere-Ocean or have been presented to the Society membership at a national or local meeting and have been accepted for publication in a refereed journal.

#### **2. Tully Medal**

To an individual whose scientific contributions have had a significant impact on Canadian oceanography.

#### **3. Dr. Andrew Thomson Prize in Applied Meteorology**

To a member of the Society for an outstanding contribution in the field of applied meteorology.

#### **4. Prize in Applied Oceanography**

To a member or members of the Society for a significant contribution to the application of oceanography in Canada.

#### **5. Rube Hornstein Prize in Operational Meteorology**

To an individual for providing outstanding operational meteorological service in its broadest sense, but excluding the publication of research papers as a factor, unless that research is already incorporated as an aid in the day-by-day performance of operational duties. The work for which the prize is awarded may be cumulative over a period of years or may be a single notable achievement.

#### **6. Graduate Student Prizes**

To a graduate student or students for contributions of special merit in meteorology and/or oceanography.

With the exception of the Rube Hornstein Prize and Tully Medal, all awards will be based on contributions during the 1985 calendar year.

Nominations are also requested for Citations to individuals or groups who have made some outstanding contribution in helping to alleviate pollution problems, in promoting environmental improvements, or in developing environmental ethics.

All nominations should reach the secretary of the Awards Committee at the following address no later than January 31, 1986.

Mr. G. Wells  
Pacific Weather Centre  
Atmospheric Environment Service  
1200 West 73rd Ave., Suite 700  
Vancouver, B.C.  
V6P 6H9

### **LA POLITIQUE EDITORIALE**

Le BULLETIN DE NOUVELLES de la SCMO est la voie principale par laquelle ses membres peuvent échanger des articles d'information et d'intérêt. C'est une publication bimestrielle qui est expédiée à tous les membres et qui, sauf pour les revenus de la publicité, est financée par les frais d'adhésion. Les articles sont acceptés dans l'une ou l'autre des langues officielles et le contenu demeure la responsabilité de l'auteur. Même si les idées exprimées ne sont pas nécessairement celles de la SCMO, la rédaction tentera de maintenir un niveau d'intégrité digne de la société.

Adresse postale : C. Fraser Mac Neil  
Rédacteur, SCMO  
Service de l'environnement  
atmosphérique  
1496 Bedford Highway  
Bedford, Nova Scotia  
B4A 1E5

### LETTERS WRITTEN BY SCIENTIFIC COMMITTEE

At the last meeting of the Scientific Committee of CMOS in Montreal on 11 June, the committee decided to write two letters on topics of concern to CMOS members. The first letter was addressed to Prime Minister Mulroney and concerned the future of the national program in ocean science and technology, and the role to be played by government, industry and university participants. The second letter on the topic of scientific cooperation in a potential LRTAP model validation study was addressed to Mr Jim Bruce, Assistant Deputy Minister responsible for the Atmospheric Environment Service. The purpose of this note is to make members aware of the contents of both letters.

The letter to the Prime Minister voiced the concern that government restraint or cuts might have a greater impact on the overall national program in ocean sciences and technology than would be apparent from looking at their impact on government laboratories alone. An example was given that the Institute of Ocean Sciences might cut the program for Canada's only manned deep submersible, Pisces IV, even though it is critical to the programs of other government departments and universities. The letter stressed that a rational mechanism or forum to establish priorities and to identify facilities or programs which have a national importance was necessary. That forum should include representatives of those conducting or managing ocean science as well as of the user community, from both government and industry. Forceful representation from university departments of oceanography should also be included.

The second letter was sent to Mr. Bruce, in his capacity as Co-Chairman of the Research and Monitoring Coordinating Committee of the joint federal and provincial government programs on the Long Range Transport of Airborne Pollutants (LRTAP). The letter addressed the fact that a large effort is being planned to validate the new Eulerian LRTAP models under development in Canada and the United States. The model performance evaluation project might cost as much as \$50 million, with Canada contributing approximately \$5 million. The letter stressed the need for better cooperation and coordination with the whole Canadian meteorological community, including experts in numerical weather prediction, boundary layer, cloud physics, mesoscale, climate, radar and satellite which have not participated fully in past air quality field experiments or model developments. Methods for achieving better cooperation and coordination could include organizing special planning committees, scientific reviews of plans, special workshops, and designation of funds to encourage "new ideas". The letter offered the services of the scientific committee and CMOS to help involve the entire meteorological community in this project.

These letters were mailed in mid August but no responses have yet been received. Any developments will be reported in the newsletter.

G. A. Isaac  
Chairman,  
Scientific Committee  
November 1, 1985

### **EDITORIAL POLICY**

The CMOS NEWSLETTER is the principal medium by which Society members may exchange items of CMOS news and interest. It is a bi-monthly publication mailed to all members and, except for advertising revenue, is funded through Society membership fees. Articles are accepted in either official language, and responsibility for content rests with their respective authors. Although views expressed are not necessarily those of CMOS, the editorial staff shall endeavour to maintain a level of integrity deserving of the Society.

Mailing Address : C. Fraser Mac Neil  
Editor, CMOS  
Atmospheric Environment  
Service  
1496 Bedford Highway  
Bedford, Nova Scotia  
B4A 1E5

TWENTIETH ANNUAL CMOS CONGRESS/CHS: 86

The Saskatchewan Centre of the Canadian Meteorological and Oceanographic Society and the Associate Committee on Hydrology of the National Research Council will host the Twentieth Annual CMOS Congress/Canadian Hydrology Symposium: 86 from June 3 to 6, 1986 at the University of Regina. The theme is "Drought: The Impending Crisis? The registration has been set at \$100 for early registration. It will include a copy of the program and abstracts volume for all CMOS members, the reception and a banquet ticket.

Registration and a reception will occur on the evening of Tuesday, June 3, 1986. Formal sessions will be held during the day from June 4 to 6. The Hydrology Special Interest Group is planning a dinner meeting on June 4 prior to the CMOS Annual General Meeting scheduled for later that evening. The banquet will take place on Thursday evening, June 5 and will feature a special guest speaker, W.O. Mitchell, who will provide an entertainment pertinent to the theme of the joint conference. Mr. Mitchell is a well known Canadian novelist, playwright and raconteur, much of whose writing reflects his Saskatchewan upbringing.

The members of the Local Arrangements Committee are:

D.L. MacLeod	- Co-Chairman (ACH)
R.F. Hopkinson	- Co-Chairman (CMOS)
A.B. Banga	- Secretary/Publicity
K.H. Jones	- Treasurer/Registration Convenor
Dr. A. Paul	- Facilities Convenor
R.A. Halliday	- Social Convenor
J. Whiting	- Exhibits Co-Convenor
R. Herrington	- Exhibits Co-Convenor
Dr. W. Nicholaichuk	- Program Committee Liaison

Full details on registration and accommodation will appear in the February issue of the CMOS Newsletter. The "Call for Papers" appears elsewhere in the November issue of the CMOS Newsletter.

VINGTIEME CONGRES ANNUEL SCMO/SCH: 86

Le Centre de la Saskatchewan de la Société canadienne de météorologie et d'océanographie et le Comité associé d'hydrologie du Conseil national de Recherches seront les hôtes du Vingtième congrès annuel de la SCMO et du Symposium canadien d'hydrologie: 86, qui se tiendront du 3 au 6 juin 1986, à l'université de Régina. Le thème en est: "La Sécheresse: une menace à l'horizon?"

Le taux d'inscription sera de 100\$ pour ceux qui s'inscrivent de bonne heure; ce taux inclu la réception, un billet pour le banquet ainsi qu'un volume de programme conjoint avec résumés.

L'inscription et la réception auront lieu le soir, mardi, le 3 juin 1986. Les sessions formelles se tiendront durant le jour commençant le 4 juin et se termineront le 6 juin. Le 4 juin, l'affiliation du Groupe d'intérêt spécial sur l'hydrologie a planifié une réunion au cours de l'heure du dîner. Plus tard le soir, la réunion générale du SCMO aura lieu. Le banquet aura lieu jeudi soir, le 5 juin et le conférencier sera M. W.O. Mitchell, personnage bien connu dans le monde canadien comme romancier, dramaturge et raconteur. Nous nous attendons à un banquet très intéressant car son thème est directement relié à la conférence.

Le comité organisateur des arrangements locaux se compose comme suit:

D.L. MacLeod	- Co-président CAH
R.F. Hopkinson	- Co-président SCMO
A.B. Banga	- Secrétaire - publicité
K.H. Jones	- Trésorier/inscription
Dr. A. Paul	- Responsable location des lieux
R.A. Halliday	- Activités sociales
J. Whiting	- Expositions
R. Herrington	- Expositions
Dr. W. Nicholaichuk	- Liaison entre SCMO et CAH

Pour obtenir des renseignements supplémentaires, concernant chambre d'hôtel et inscription, veuillez consulter l'édition de Nouvelles du SCMO du mois de février. Pour des renseignements concernant "l'appel pour résumés" veuillez voir les Nouvelles du SCMO, novembre.

CHINOOK CHRISTMAS GIFT SUBSCRIPTIONS

An ideal Christmas gift to friends and relatives with an interest in weather and the Oceans, particularly those with offspring in high school who may need inspiration for science projects, is a subscription to Chinook. Members may order gift subscriptions at the low member rate of \$10.00. (The non-member rate is \$12.00.) Please send the gift subscription order to CMOS, suite 805, 151 Slater Street, Ottawa, Ontario K1P 5H3, with a cheque for \$10.00

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Signature of member \_\_\_\_\_

Please enclose \$10.00 per subscription ordered.

per subscription ordered. If more space is needed, simply attach a list of the additional names and addresses.

Chinook Promotions Manager

Chinook, the newest CMOS publication, requires a Promotion Manager to direct a national subscription drive which, together with increased advertising revenue based on anticipated circulation, can put this magazine on a sound financial basis. The Promotion Manager will serve as chairman of the Promotion Working Group, which will formulate and implement strategy to bring this magazine to the public and in particular to school systems. The Manager will work closely with the CMOS Publications Business Manager and with the editor of Chinook.

As a magazine presenting a general treatment of meteorological and oceanographic topics with a Canadian perspective, Chinook is an ideal vehicle for increasing public awareness of, and advancing, meteorology and oceanography in Canada. This is then an opportunity for CMOS members (or others) with contacts in educational circles, and with business know-how and enthusiasm, to make a valuable contribution to the Society. While there is no financial remuneration for these position (as with all CMOS Board and Committee memberships), the Promotion Working Group will have a (limited) operational budget at its disposal.

Interested persons should contact CMOS, 151 Slater St., Ottawa, K1P 5H3 or by telephone, Mr. Carr McLeod, (416) 667-4848.

**CMOS NEW MEMBERS APPROVED  
AT  
COUNCIL MEETING 28 - 29 OCTOBER 1985**

MEMBER	ADDRESS	CENTRE
Dr. Geoffrey L. Austin	Ste-Anne, P.Q.	Montreal
Mr. David L. Bagg	Downsview, Ont.	Toronto
Mr. Luigi Bertolone	Toronto, Ont.	Toronto
Mr. Thomas Carrieres	Downsview, Ont.	Toronto
Mr. Richard Changnon	Ottawa, Ont.	Ottawa
Mr. Bruno De Lorenzis	Aurora, Ont.	Toronto
Mr. Charles Gobeil	Quebec, P.Q.	Quebec
Mr. Ralph C. Harvey	Downsview, Ont.	Toronto
Dr. Motoyoshi Ikeda	Dartmouth, N.S.	Halifax
Mr. Ghislain Jacques	Charlesbourg, P.Q.	Quebec
Mr. Louis Jaworski	Montreal, P.Q.	Montreal
Ms. Barbara-Ann Juszko	Victoria, B.C.	Vancouver Island
Mr. Walter Lawrynuik (Meteorologist/Manager)	Weston, Ont.	Toronto
Mr. Frank D. Manning	Downsview, Ont.	Toronto
Mr. Leo Mapanao	Downsview, Ont.	Toronto
Dr. T. Mathews	Calgary, Alta.	Alberta
Mr. Octavio T. Melo	Toronto, Ont.	Toronto
Mr. Chuck Molenkamp	Livermore, CA, U.S.A.	
Dr. C.R. Murthy	Burlington, Ont.	Toronto
Mr. Van T.V. Nguyen	Chicoutimi, P.Q.	Quebec
Mr. Thomas R. Nichols	King City, Ont.	Toronto
Mr. Michal Niewiadomski	Willowdale, Ont.	Toronto
Dr. Jacob Padro	Willowdale, Ont.	Toronto
Mr. James E. Ploc	Edmonton, Alta.	Alberta
Mr. Lewis Poulin	Toronto, Ont.	Toronto
Dr. Murray Press	Victoria, B.C.	Vancouver Island
Mr. Nigel Reed	Reading, Berkshire, England	
Mr. Michael T. Reischel	Huntsville, Alabama U.S.A.	
Mr. Keith D. Sashegyi	Annandale, Virginia U.S.A.	
Dr. John Norton Smith	Halifax, N.S.	Halifax
Mr. David Ray Smith	Trenton, Ont.	Ottawa
Mr. Kelsey P. Spring	Richmond, B.C.	B.C. Mainland
Dr. Graham Bymonds	Dartmouth, N.S.	Halifax
Mr. Kazufumi Takayanagi	Quebec, P.Q.	Quebec
Mr. Yuxiang Tang	Dartmouth, N.S.	Halifax
Mr. Bechara Toulany	Dartmouth, N.S.	Halifax
Mr. Gilles H. Tremblay	Quebec, P.Q.	Quebec
Mr. Fernand Trudeau	Longueuil, P.Q.	Montreal

Dr. Verena Tunnicliffe  
(University Faculty)      Victoria, B.C.      Vancouver Island

Mr. David Woodman      Dorval, P.Q.      Montreal

Dr. Eric Kunze  
(Postdoc. Fellow)      Woods Hole, MA

U.S.A.

Miss Carmen Old  
(Student)      Edmonton, Alta.      Alberta

Dr. Lyn McNutt  
(Ice Applications  
Co-ordinator)      Ottawa, Ont.      Ottawa

Mr. Malcolm G. Lowings  
(Arctic Oceanographer)      Lethbridge, Alta.      Ottawa

**CALL FOR PAPERS**

**TWENTIETH ANNUAL CMOS CONGRESS**

**CANADIAN HYDROLOGY SYMPOSIUM '86**

The Saskatchewan Centre of the Canadian Meteorological and Oceanographic Society (CMOS) and the Associate Committee on Hydrology (ACH) of the National Research Council of Canada will host the Twentieth Annual CMOS Congress and the Canadian Hydrology Symposium '86 from 3 - 6 June, 1986 on the campus of the University of Regina in Regina, Saskatchewan. The theme is "Drought, the Impending Crisis ?". Contributions are particularly sought on the meteorology, climatology and hydrology of droughts with emphasis on the physical processes and linkages between them.

For the CMOS Congress, abstracts on any topic in meteorology and oceanography will be received until February 1, 1986 and should be sent to: Dr. G.A. McBean, Institute of Ocean Sciences, 9860 West Baanich Road, Sidney, British Columbia, V8L 4B2; telephone (604) 656-8448. Each abstract, not to exceed 300 words, is to be typed single spaced on a sheet of 216mm by 279mm (8.5 inches by 11 inches) paper with 25mm (1 inch) margins. Clean, camera-ready copy with black type is required. Elite type (12 pitch) is preferred. The reading block should consist of the following items on successive lines.

- (a) the title in capital letters
- (b) the name(s) of the author(s) in upper and lower case letters

There should be a one-line space between the heading block and text. All lines, including the title, name and text, are to be typed left justified. Poster sessions may be held, depending on contributions. Speakers who prefer to give a poster presentation should so indicate. In an accompanying covering letter, the authors should give their affiliation as they would like it to appear in the program and abstracts volume that will be published for the Congress.

For the Canadian Hydrology Symposium '86, abstracts of 400 to 500 words on the subjects of climatology, surface water, ground water and the hydrology of droughts will be received until Nov. 15, 1985 and should be sent to: Professor J. Wighan, Civil Engineering Department, University of Saskatchewan, Saskatoon, Saskatchewan, S7N 0W0; telephone (306) 966-5336. Abstracts on climatological topics, submitted to CHS '86, may be considered for inclusion in the CMOS Congress, if appropriate. A proceedings of the papers to be presented in the Symposium will be published and authors of accepted papers will be required to submit final papers for publication by Feb. 15, 1986. Information on the format for publication will be provided.

Commercial exhibits will be on display during the Congress.

For further information, contact the co-chairmen of the Local Arrangements Committee, R.F. Hopkinson, or D.L. MacLeod, Joint CMOS/ACH Conference, P.O. Box 4080, Regina, Saskatchewan, S4P 3W5; telephone (306) 780-5739

OPERATIONAL METEOROLOGY WORKSHOP  
TENTATIVE PROGRAM

OPERATIONAL METEOROLOGY WORKSHOP  
TENTATIVE PROGRAM

Monday, February 3, 1986

TIME (CST)	EVENT
1900-2200	Registration
1900-2200	Icebreaker

Tuesday, February 4, 1986

TIME	EVENT
0700-1700	Registration
0830-0900	Introduction
0900-1020	Theme Papers
	1. The Human Element in Weather Forecasting (Dr. Charles Doswell)
	2. The Economics of Weather Services (Dr. Allan H. Murphy)
1020-1040	COFFEE
1040-1200	3. The State of the Science of Summer Severe Weather Forecasting (Dr. Joseph Schaefer)
	4. NWP - Past, Present and Future (Dr. Michel Beland)

1200-1330 LUNCH

1330-1450 Regular Session 1  
(Forecast Techniques I)

1450-1520 COFFEE

1520-1700 Regular Session 2

- a. Weather Services
- b. Forecast Models

1700-1900 Poster Session

1700-1900 Cash Bar

OPERATIONAL METEOROLOGY WORKSHOP  
TENTATIVE PROGRAM

Wednesday, February 5, 1986

TIME	EVENT
0830-1000	Regular Session 3
	a. Forecast Techniques II
	b. Data Acquisition
1000-1030	COFFEE
1030-1200	Panel Discussion on Using Weather Information
	1. Mr. A.E. Boyer, Ontario Hydro
	2. Mr. H.G. Doerksen, B.C. Forestry
	3. Not Finalized, Agriculture
	4. Not Finalized, Transportation

1200-1330 LUNCH

1330-1450 Regular Session 4

- a. Forecast Techniques III
- b. Remote Sensing

1450-1515 COFFEE

1515-1700 Laboratories  
(3 Concurrent Sessions)

1830-1900 Cocktails

1900-2200 Banquet

Thursday, February 6, 1986

TIME	EVENT
0830-0950	Regular Session 5
	a. Human Element in Forecasting
	b. Statistical Forecast Products
0950-1020	COFFEE
1020-1200	Regular Session 6
	a. New Techniques
	b. Verification
1200-1315	LUNCH
1315-1500	Laboratories
	(3 Concurrent Sessions)
1500-1515	COFFEE
1515-1630	Panel Discussion on AES Training and R&D Priorities
	1. Dr. I. Rutherford (Chairman)
	2. Mr. H. Allard
	3. Mr. M. Balshaw
	4. Mr. L. Bernsten

MARINE WORKSHOP - UNIVERSITY OF WASHINGTON

The Atmospheric Environment Service (AES) investigation by Professor Paul LaBlond into West Coast Marine Forecast Services resulted in a joint AES/United States National Weather Service (USNWS) marine workshop held at the Department of Atmospheric Sciences, University of Washington, Seattle, September 9-13, 1985. The workshop focussed upon explosively deepening oceanic storms and in particular the October 10-12, 1984 storm which caused considerable loss of life and damage to a British Columbia fishing fleet.

This workshop brought together marine specialists from the United States and Canada. The objectives of the workshop were to provide increased understanding of rapidly intensifying oceanic storms and to develop requirements for research into these phenomena.

The convener of the workshop was Dr. Fred Sanders. Invited speakers were Dr. Lance Bosart, Dr. Richard Reed, Mr. Marlan Saylor, Capt. Ken Lilly, and Dr. Robert Fett. In addition there were 36 registered participants of which 17 were Canadian meteorologists.

It appeared unanimous, among the participants and the speakers, in particular Dr. Sanders and Dr. Reed, that in the near future, satellite imagery and a good surface analysis with ample observations would be the marine forecasters best tool for predicting explosive deepening storms (BOMBS) in the Pacific.

The workshop brought together operational marine forecasters from the United States and Canada. The prime objective in doing so was to provide increased understanding into rapidly intensifying oceanic storms and to identify areas for research. These objectives were met. Furthermore, NOAA is viewing this as a pilot workshop which may spawn other similar operational field forecaster workshops. AES's additional aim was to use this workshop to provide training for the new Pacific Weather Centre marine forecasters.

AES participants are in the process of preparing a more detailed workshop report which will be submitted for publication to the Bulletin of the American Meteorological Society, the National Weather Association and CMOS. This report may be carried in a future issue of the NEWSLETTER.

The above information was taken from an internal report prepared by Mr. Mert Horita, Senior Development Meteorologist, Pacific Weather Centre.



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SUBSCRIPTION FORM FOR CMOS PUBLICATIONS

ANNUAL SUBSCRIPTION RATES/ABONNEMENTS ANNUELS (JAN. 1, 1986)

	MEMBERS MEMBRES	NON-MEMBERS NON-MEMBRES	INSTITUTIONS
ATMOSPHERE-OCEAN	\$20.00	\$30.00	\$55.00
CLIMATOLOGICAL BULLETIN	\$12.00	\$15.00	\$15.00
CHINOOK	\$10.00	\$12.00	\$15.00

I WOULD LIKE TO RECEIVE THE FOLLOWING CMOS PUBLICATIONS WHICH I HAVE INDICATED WITH A CHECK MARK.

ATMOSPHERE-OCEAN -----

CLIMATOLOGICAL BULLETIN -----

CHINOOK -----

I ATTACH A CHEQUE FOR \$\_\_\_\_\_ PAYABLE TO THE CANADIAN METEOROLOGICAL AND OCEANOGRAPHY SOCIETY FOR THE ABOVE INDICATED SUBSCRIPTIONS. MAIL CHEQUE TO CMOS, SUITE 805, 151 SLATER STREET, OTTAWA, ONTARIO, CANADA, K1P 5H3.

## FIRST ANNOUNCEMENT

### POSTGRADUATE SUMMER SCHOOL ON REMOTE SENSING APPLICATIONS IN METEOROLOGY AND CLIMATOLOGY

UNIVERSITY OF DUNDEE 17 AUG. to 6 SEPT. 1986

The summer school is intended primarily for meteorologists, postgraduate students, recent postdoctoral research workers and other workers in the field and will concentrate on recent developments and active areas of research work. The topics to be covered in the 1986 school are expected to include:

INTRODUCTION TO ATMOSPHERIC PHYSICS AND REMOTE SENSING  
DATA ACQUISITION  
PATTERN RECOGNITION AND IMAGE PROCESSING  
SATELLITE DATA AS INPUT TO NUMERICAL WEATHER PREDICTION  
MODELS  
SATELLITE DATA AND HURRICANE PREDICTION  
USE OF RADAR AND SATELLITE DATA FOR ESTIMATION OF  
PRECIPITATION  
OBSERVATIONS OF THE MIDDLE ATMOSPHERE FROM SATELLITES  
STUDIES OF SYNOPTIC AND MESOSCALE SYSTEMS FROM SATELLITE  
CINEMATOGRAPHIC METHODS FOR THE STUDY OF ATMOSPHERIC MOTIONS  
MULTISPECTRAL CLASSIFICATION OF CLOUDS, FOG, AND HAZE  
REMOTE SENSING OF SEA SURFACE WINDS  
ATMOSPHERIC MOISTURE AND OCEANIC LATENT HEAT FLUX  
CLIMATOLOGICAL DATA SET AND CLIMATOLOGICAL MODELLING  
EARTH-ATMOSPHERE RADIATION BUDGET AND CLIMATOLOGY FROM  
SATELLITES

In addition to the formal lecture programme, a number of less formal seminars will be held and there will be practical exercises based on photographic imagery, video, film and slide material and digital printouts organized in the laboratory. Practical exercises to illustrate to participants the important digital image processing operations are also expected to be available.

Some bursaries may be available to assist students to attend.

There will be sufficient free time to allow excursions to nearby places of interest.

Further particulars and application forms will be available from:

Dr. W.M. Young  
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## NOTICE

The following two volumes were submitted by the Environment Directorate of the OECD to the Environment Ministers Meeting in Paris, June 1985.

"STATE OF ENVIRONMENT REPORT 1985", OECD Paris, June 1985  
price \$ U.S. 16.00.

"OECD ENVIRONMENTAL DATA, COMPENDIUM 1985", OECD PARIS,  
June 1985  
price \$ U.S. 30.00.

The State of Environment Report is the result of several years of painstaking work to compile an environment data base and to interpret the data for assessment of environmental conditions and trends in OECD member countries.

The structure of the Report is based on a "stress-response approach" whereby observation of environmental change is treated in the context of stress generated by human activities. It describes the subsequent response of governments, enterprises, and the public to protect, conserve and rehabilitate the environment and the natural resource base. The assessments, wherever possible, were made on statistical evidence obtained from the participating OECD countries. Taking into account the caveats on data quality, coverage, and definitional distinction, there is an interesting, although limited, scope in making comparisons of Canadian environmental conditions with those of other OECD countries.

## FIRST ANNOUNCEMENT

The report begins with an overview of the state of the environment bearing on such areas as water resources, air, land, forests, wildlife, solid waste and noise. The second part discussed the current and emerging pressures on the environment focussing on agriculture, energy, industry, and transport. The third part records the available information on responses of governments, enterprises, and the public to environmental degradation. The Report concludes with a general assessment of "progress", "problems remaining", "emerging concerns", and "looking ahead".

This Report (and its accompanying data Compendium) fulfills an important public information need for an authoritative and systematic international assessment of the state of the environment. Periodic environmental reporting, both at the national and international level, is gradually establishing a niche in public accountability similar, in many respects, to accepted socio-economic reporting.

## REPORTS AVAILABLE AT

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OTTAWA -- More than \$300 million was invested in Canadian research by the Natural Sciences and Engineering Research Council (NSERC) during the 1984-85 fiscal year according to the annual Report of the President, released today.

Approximately 17,000 Canadian researchers were supported by NSERC's program of grants and scholarships. This represents a considerable investment in Canada's research and development future. The enclosed Report provides details of the Council's programs.

It was a difficult year due to the financial uncertainties which plagued the Council. At one point NSERC was faced with 1,388 applications for research equipment support and no money to respond. However, a one-shot allocation of \$20 million by the federal government, late in the fiscal year, enabled the Council to fund about 20% of the requests.

1984-85 was also the fifth year of the Council's first Five-Year Plan and, as such, was a time to reflect on accomplishments and on the tasks ahead. The objectives of the Plan were to:

- increase the supply of highly trained Canadian researchers;

- correct the severe obsolescence of scientific equipment in Canadian universities;
- increase the university research effort in areas of national concern and encourage university-industry collaboration; and
- to maintain a strong and healthy base of free research within the university community.

Although considerable progress has been made towards the achievement of these goals, the Council's ability to carry out fully the proposals of the first Five-Year Plan was restrained by available financial resources. Although NSERC did receive significant budget increases during the five-year period, certain initiatives outlined in the plan had to be deferred or cut back from optimum levels.

NSERC is now awaiting a decision on funding of its second Five-Year Plan, which was submitted to the government in late June. This new plan proposes a major budget increase to initiate new, and expand existing, programs that are essential for the future of research and development in this country. A decision on funding is expected in the fall.

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