



Canadian Meteorological
and Oceanographic
Society

La Société Canadienne
de Météorologie et
d'Océanographie

C.M.O.S. NEWSLETTER / NOUVELLES S.C.M.O.

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ATTENTION

THIS ISSUE CONTAINS A MEMBERSHIP LIST

CE NUMERO CONTIENS UNE LISTE DE MEMBRES

***** CMOS ADDRESS CHANGE *****

NEW ADDRESS: CMOS - SCMO
SUITE 903
151 SLATER ST.
OTTAWA, ONTARIO
CANADA
K1P 5H3

(old address was suite B05)

CORRECTION - GRADUATE STUDENT PRIZES

The following are corrections to the announcements regarding the recipients of the CMOS/SCMO GRADUATE STUDENT PRIZES. We apologize to Dr. D. KELLEY and to M. B. Bilodeau for the errors in the previous announcements.

The Editor

CANADIANS IN THE WORLD CLIMATE RESEARCH PROGRAMME

The WMO/ICSU World Climate Research Programme is moving ahead with the Tropical Oceans and Global Atmosphere (TOGA) Programme into its second year and the International Satellite Cloud Climatology Programme continuing. Recently the first informal Intergovernmental Planning Meeting was held in Geneva (May 12-16, 1986). About 25 nations were represented and considerable progress was made towards establishing the other components of the WCRP. P.J. Pender, Canadian Climate Centre, Downsview and Dr. C.R. Mann, Institute of Ocean Sciences, Sidney, were the Canadian representatives.

Many Canadian scientists have played a role in developing the plans for the SCRP. Dr. G.A. McBean, AES, Sidney, has been a member of the Joint Scientific Committee (JSC) for the WCRP since April 1984 and was recently elected Vice-Chairman of the JSC. Dr. G.J. Boer, AES Downsview, is a member of the Working Group on Numerical Experimentation and Dr. J.F.R. Gower, IOS, Sidney, is a member of the Working Group on Satellite Observing Systems for Climate Research. Dr. McBean is also a member of the JSC's Scientific Steering Groups on Sea and Climate and Land Surface Processes and Climate. AES, Downsview is the GOES-E sector processing centre for the ISCCP.

The oceanographic components of the WCRP are primarily the responsibility of the IOS/SCOR Committee on Climate Changes and the Oceans (CCCO). Dr. R.W. Stewart of the Alberta Research Council is the Chairman of CCCO. Dr. G.T. Needler of BIO has been appointed the Director of the WOCE International Project Office, now established at IOS, Wormley, United Kingdom. Dr. A. Longhurst of BIO is the CCCO Biological Aspects rapporteur. Numerous other scientists have been active at expert meetings, in committees or as consultants.

GRADUATE STUDENT PRIZE

is awarded to

Dr. D. KELLEY

For excellence in the study of the physical processes underlying the formation and evolution of THERMOHALINE STAIRCASES. The understanding of such Staircases and the ability to accurately predict heat fluxes as a result of the development of a theoretical description of thermal convection have contributed significantly to the Science of Oceanography.

UN PRIX AUX ETUDIANTS DIPLOMES

a

M. B. BILODEAU

Pour l'excellence de son travail de recherche, tel que décrit dans son mémoire de maîtrise intitulé "Veracité d'un modèle barotrope spectral tronqué: solutions numérique vis-à-vis solutions analytique" (Accuracy of a Truncated Barotropic spectral model: Numerical versus Analytic Solutions). M. Bilodeau fut le premier à démontrer que l'on peut utiliser un certain type de solutions analytiques, nouvellement découvertes, pour vérifier l'effet de la troncature du spectre dans un modèle atmosphérique. Les examinateurs furent unanimes à juger son travail "excellent".

CMOS NEWSLETTER

LETTERS WRITTEN BY SCIENTIFIC COMMITTEE

In the December/85 issue of the Newsletter, a description was given of letters written to Prime Minister Mulroney and Mr. Jim Bruce, Assistant Deputy Minister responsible for the Atmospheric Environment Service (AES). The letters were written in August/85 by Dr. Paul LeBlond, Chairman of the Scientific Committee, and expressed concerns on two important issues. The letter to the Prime Minister outlined serious problems regarding the future of the national program in ocean science and technology and suggested the need for improved high-level formal channels of communication between government, industry and universities. The letter to Mr. Jim Bruce encouraged involvement of the whole Canadian meteorological community in the expensive validation of the Eulerian LRTAP model and offered the services of the Scientific Committee and CMOS to assist in this process. In February/86, because no replies had been received, the President of CMOS, Dr. Stuart Smith, wrote a reminding letter. Other than an acknowledgement of Dr. Smith's letter, no response has been received from the Prime Minister. However, Mr. Howard Ferguson, the new Assistant Deputy Minister for AES has responded. Since, we promised to print these responses in the CMOS Newsletter, the text of that letter follows:

April 11, 1986

Dear Dr. Smith:

This will respond to your letter of February 11, 1986 concerning plans for a project for validation of the Eulerian LRTAP model as originally discussed in your earlier letter of August 13, 1985. That earlier letter had gone astray and we regret the consequent delay in response to its offer of cooperation.

To put the matter in context the ADDM (Atmospheric Deposition and Oxidants Model) Eulerian model has been developed as a joint effort involving several agencies; primarily the Atmospheric Environment Service, Ontario's Ministry of the Environment and the Umweltbundesamt of the FRG. Over the next three years the U.S. Electric Power Research Institute have contracted with ERT (one of the principal investigators involved in the model development) to carry out intercomparison studies with NCAR's Regional Acid Deposition Model (RADM) and model evaluation studies based largely on currently available data bases (OSCAR and PEPE-NEROS).

Study of the currently available data sets in Canada and the U.S. has led to the conclusion that they are inadequate for a comprehensive evaluation of the models and led to a desire both north and south of the border to design and acquire an improved set of observational fields to validate the models.

The cost of such an undertaking has been variously estimated in the range 10 to 50 million dollars with inputs from several U.S. and Canadian agencies. While AES supports the scientific objectives of the proposed joint program, in the current atmosphere of federal fiscal constraint and the acceptance of the special envoys' report on acid rain at the recent summit, there is no longer thought to be a policy imperative driving the need to verify these models within a rigid time frame.

AES and the Ontario Ministry of the Environment (as the other major funding agency of the Eulerian Acid Deposition and Oxidants Model) have participated in producing a 'Concept' document for model evaluation, which was reviewed by the NAPAP panel (U.S. and Canadian) in September 1985, and in the first of a series of joint planning workshops aimed at producing a detailed workplan by early fall 1986. There has not been inter-agency agreement on certain of the planning factors such as scheduling from both technical feasibility and budgetary planning viewpoints that could well influence our decision on actual active involvement in this field sampling program. Consequently we have not committed to active involvement pending review of the detailed workplan document, a process that could well involve CMOS participation.

Model evaluation will require specification of fields of chemical species and meteorological variables and parameters on a regional scale over at least part of the model domain for periods representative of the spectrum of meteorological/climatological scenarios impacting significantly on deposition. Certain sub-grid meteorological processes such as convective rainfall, cloud cover, and land-use related to aerodynamic resistance demand further higher resolution measurements for diagnostic interpretation of the model integrations. Recognizing the importance of the meteorological data needs, particularly as regards meso-scale processes, the suggestion has been made that an add-on atmospheric chemistry program run in conjunction with the STORM field programs, planned for the end of the decade, might satisfy the needs of a regional acid deposition model evaluation. There are persuasive arguments based on the observational domain (and its meteorology), the particular regional chemistry and distribution of primary pollutants, that suggest that these may be less than ideal choices but resource constraints may lead us to consider it the only viable method.

The detailed workplan efforts, currently proceeding under predominantly U.S. funding, are attempting to establish if the client/user needs can be met under current technical and fiscal constraints. We would be pleased to make a presentation on these matters to the Scientific Committee of CMOS and provide more detail than is possible in a letter such as this.

Yours sincerely,

H.L. Ferguson
Assistant Deputy Minister

If further responses are received to the letters of the Scientific Committee, they will be sent to the Newsletter for publication.

B.A. Isaac
Chairman
Scientific Committee
June 25, 1986

DR. NEIL CAMPBELL RETIRES AFTER 35 YEARS

Dr. Neil John Campbell, Ex-President of CMOS, is retiring this fall after a long and illustrious service with the federal government. Neil will be remembered for his contribution to national and international science policy over the last twenty years.

Colleagues and friends are meeting to wish Neil well in Ottawa on September 29. Details can be obtained from Geoff Holland (613) 592-2222.

AGRICULTURE WATER ISSUES IN EVOLUTION

Winnipeg, Manitoba
June 15 - 18, 1987

To deal with the broad theme of agricultural water issues in evolution the 1987 Canadian Water Resources Association Conference will be divided into three general topics:

AGRICULTURE DRAINAGE AND FLOOD DAMAGE REDUCTION: This topic will deal with current issues in economic evaluations, environmental considerations, financing and cost sharing, engineering, and water table management. Questions such as the role government should play in resolving conflicts between drainage and wetland preservation could be addressed.

WATER CONSERVATION AND IRRIGATION: This topic will assess issues related to water conservation and irrigation such as storage, environmental, engineering, drought-proofing, interbasin transfer, irrigation economics, aquifer recharge, and water pricing as a conservation measure. Improving efficiency of water utilization would be of major interest.

OTHER AGRICULTURE WATER ISSUES: This topic would deal with a variety of issues in agriculture management, including but not limited to climatic change - management and mitigation, agricultural chemicals and water quality, sediment control, wildlife habitat destruction and enhancement, water issues and the farmer, public education and awareness, the Inquiry on Federal Water Policy - two years later, multiple resource use, and legal and jurisdictional issues.

CALL FOR PAPERS

The CWRA invites papers to be presented at the Winnipeg Conference, dealing with the topics outlined above. Papers may be in the form of specific case studies at local or regional levels, or in a broad format dealing with theory and concepts, trends, matters of emerging concern, or government policy. The deadline for receipt of abstracts is November 30, 1986. Abstracts should contain between 300 to 500 words.

For further information write:

CWRA 1987 CONFERENCE HEADQUARTERS
401 - 1 WESLEY AVENUE
WINNIPEG, MANITOBA
R3C 4C6

TELEPHONE: (204) 949-3123

*** Position Wanted ***

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U.B.C. May, 85

Experience: Research related to ocean waves & currents. Computer programming and analysis. Oceanographic field work. Excellent communication skills.

Gordon Staples 1143 The Castings
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734-8328

CHANGES TO ATMOSPHERE-OCEAN

At the Regina meetings the Publications Management Committee and the CMOS Council have agreed to the following changes to ATMOSPHERE-OCEAN: The new Co-Editors are Dr. G.A. McBean and Dr. H.J. Freeland. Dr. McBean will be handling all submissions for publication in the atmospheric and hydrological sciences, and Dr. Freeland will be handling submissions in oceanographic science. Prospective contributors should note that they should send their manuscripts directly to the Co-Editor dealing with their discipline at the address given below:

Institute of Ocean Sciences
9860 West Saanich Road
P.O. Box 6000
Sidney, B.C.
V8L 4B2

CHANGEMENTS À ATMOSPHERE-OCEAN

Aux réunions tenues à Regina, le Comité de gestion des publications ainsi que le Conseil d'administration de la SCMO ont convenu d'introduire les changements suivants à ATMOSPHERE-OCEAN : Les nouveaux codirecteurs scientifiques seront M. G.A. McBean et M. H.J. Freeland. Monsieur McBean sera responsable des soumissions pour publication traitant des sciences de l'atmosphère ainsi que de l'hydrologie, et M. Freeland s'occupera des manuscrits portant sur l'océanographie. Tous les auteurs devront prendre note que leurs manuscrits doivent être envoyés directement au codirecteur s'occupant de leur discipline à l'adresse suivante :

Institute des sciences océanographiques
9860 ouest, Ch. Saanich
C.P. Box 6000
Sidney, B.C.
V8L 4B2

INTERNATIONAL UNION OF GEODESY AND GEOPHYSICS (IUGG)

XIX GENERAL ASSEMBLY
VANCOUVER, CANADA
AUGUST 9-22, 1987

The following interdisciplinary symposium are planned. The convenors are indicated in brackets.

1. Quo Vadimus? Vening Meinesz Symposium (V.I. Keilis Borok, H. Moritz, G.D. Garland)
2. Instability within the Earth and Core Dynamics (D.E. Loper, R. Hide, D.E. Smylie)
3. Impact of Global Positioning System on Geophysics (C. Goad, C. Boucher)
4. Variations in Earth Rotation (D.D. McCarthy, P. Paquet)
5. Slow Deformation and Transmission of Stress in the Earth (H.G. Kahle, A.M. Gabrielov, P. Vanicek)
6. Large-Scale Three Dimensional Earth Structure (T.H. Jordan, G.F. Panza)
7. Lower Crust Properties and Processes (St. Muller, R.F. Mereu)

8. Hydrogeological Regimes and their Subsurface Thermal Effects (A.E. Beck, L. Stegena)
9. Evolution of Mid-Oceanic Ridges (J.L. Sinton, P. Taponnier)
10. Comparative Planetology (Sputnik Commemorative Symposium) (V. Trubitsyn, J.W. Head)
11. Highlights of Middle Atmosphere Research (P.C. Simon, G. Rostoker)
12. Displaced Terranes and Continental Accretion (E. Irving, D.B. Stone)
13. Results of the EMSLAB Project (J. Booker, T. Yukutake, D.I. Gough)
14. Dynamics and Monitoring of Pollution (W.L. Godson, R. Frassetto)
15. Contribution of Geophysical Sciences to Climate Change Studies (J.W. Kidson, A.L. Berger)
16. Marginal Ice Zone Processes (R.D. Muench, E.F. Roots)
17. Low Latitude Ocean-Atmosphere Interactions (D. Halpern, G.A. McBean)
18. Long Term Variations in Ocean Climate (D. Olbers)
19. Origin and Evolution of Sedimentary Basins and their Energy and Mineral Resources (R.A. Price, P. Ziegler)
20. Geochemistry and Geophysics of Transport in the Lithosphere - Asthenosphere System (N. Arndt, E. Nyland)

IUGG INTERNATIONAL ASSOCIATION OF HYDROLOGICAL SCIENCES (IAHS) SESSIONS

(Workshops are indicated by the prefix W)

1. Large Scale Effects of Seasonal Snow Cover (B.E. Goodison)
2. Forest Hydrology and Watershed Management (R.H. Swanson)
3. The Influence of Climate Changes and Climatic Variability on Hydrological Regime and Water Resources (S.I. Solomon)
4. Irrigation and Water Allocation (R.H. Clark)
5. The Physical Basis of Ice Sheet Modeling (E.D. Waddington)
6. Dynamic Systems Approach to Natural Hazards (A.E. Scheidegger)
- W1. Methods of Runoff and Streamflow Simulation Applied to Various Physiographic and Climate Conditions (D. Dawdy)
- W2. Spatial Variability and Representativeness of Hydrogeological Parameters (R.A. Freeze)
- W3. Estimation of Areal Evapotranspiration (T.A. Black)
- W4. Remote Data Transmission (A.I. Johnson)
- W5. River Ice (K.S. Davar)
- W6. Erosion and Sediment Transport: A- Debris Torrents (D. Slaymaker); B- Erosion and Sediment Transport Resulting from Volcanic Eruptions (R.F. Hadley); C- Morphological Measurements of Sediment Transport (T.J. Day); D- Fluvial Transport of Sediment - Associated Nutrients and Contaminants (E.D. Ongley)
- W7. Hydrological Sciences in Developing Countries (N.B. Ayibotele)
- W8. Estimation of Natural Conditions as a Basis for Detecting Changes in Water Quality (d. Rickert)

IUGG INTERNATIONAL ASSOCIATION FOR THE PHYSICAL SCIENCES OF THE OCEAN (IAPSO) SESSIONS

1. 1. Satellite Oceanography and the Role of Satellite Observations in Large Scale Oceanographic Programs (R.H. Stewart)
2. Large Scale Oceanographic Studies: A-Pacific Ocean (L. Mysak); B-Atlantic Ocean (J. Meincke); C-High Latitude Oceans (Arctic, Southern) (A. Gordon); D-Global Ocean Circulation, WOCE (G. Needler)
3. Intermediate and Small Scale Processes and Structures in the Ocean (Y. Nagata)
4. Marginal Seas and Straits: A-Physical Aspects (L.D. Armi); B-Chemical Aspects (A. Edwards)
5. Optical Variability and its Relationship to Biology, Physics and Dynamics of the Upper Ocean (A. Morel and R.C. Smith)
6. Ocean Data - Assimilation and Prediction (D. Anderson)
7. Coastal, Nearshore and Shelf Oceanography (J. Johnson)
8. Physical Oceanography Based on Acoustics (D. Farmer)
9. Recent Studies in Marine Chemistry: A- The Role of Bacteria in Redox Processes in the Marine Environment (J.M. Gieskes); B- Significance and Interpretation of Trace Element Distributions in the Oceans (A. Dickson); C- Importance of Hydrothermal Processes to the Geochemical Mass Balance of the Elements (C. Measures)
10. Physical, Chemical and Geophysical Oceanography (precis and Poster Sessions) (R.E. Stevenson)

IUGG INTERNATIONAL ASSOCIATION OF METEOROLOGICAL AND ATMOSPHERIC PHYSICS (IAMAP) SESSIONS:

1. Surface Energy Fluxes, Models and Observations (G. Ohring and T. Vonder)
2. Aerosols and Climate (P. Hobbs and P. McCormick)
3. Middle Atmosphere Dynamics (A. Hanson and A. O'Neill)
4. Midlatitude Frontal Systems (R. Reed)
5. Mesoscale Analysis and Forecasting, Incorporating Nowcasting (K. Browning)
6. Role of Convection in Mesoscale Development (H. Moncrieff)
7. Predictions of Transitions in the Climate System on Interannual Timescales (d. Hartmann)
8. Dynamics of Flow over Topography (P. Taylor)
9. Microwave Remote Sensing (A. Chedin)
10. Scientific Status Report on Weather Modification (B. Silverman)
11. Some Current Issues in Tropospheric Chemistry (J. Chang, R. Duce, and P. Hobbs)
12. High Latitude Tropospheric and Boundary Layer Processes (T. Parish and I. James)
13. Differences between the Arctic and the Antarctic Middle Atmospheres (K. Labitzke and M. Rycroft)
14. Global Weather Experiment (R. Daley)



Canadian Meteorological and Oceanographic Society
La Société Canadienne de Météorologie et d'Océanographie

MEMBERSHIP LIST

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JULY 31, 1986

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Explanation of Codes
(on the last address line)

Main Interest

MET: Meteorology
OCEAN: Oceanography

Special Interest Groups

- a - Hydrology - Hydrologie
- b - Air Pollution - Pollution de l'air
- c - Agriculture & Forest - Agriculture et forêt
- d - Operational Meteorology - Météorologie d'exploitation
- e - Floating Ice - Glace dérivante

Membership Status

Unless otherwise indicated names are of Regular Members.

The designations following the names are:

- (S) - for Student member
- (C) - for Corporate/Sustaining member ; and
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P.O. BOX 473
PLEASANTVILLE NY 10570 U.S.A.
MET
B: 914 769-1350

GOUGH, WILLIAM (S)
44 HENDRICK AVE.
TORONTO ON M6G 3S5
MET
B: 978-5213

GOW, MICHAEL C.
14434 18 AVE.
SURREYIA BC V4A 5R1
MET b d
B: 604 584-8822

GRACE, BARRY
AGRICULTURE CANADA
RESEARCH STATION
LETHBRIDGE AB T1J 4B1
MET b c
B: 403 327-4561

GRAHAM, R.C.
30 RUMSEY ROAD
TORONTO ON M4G 1N6
MET
R: 416 421-4802

GRANT, H.L.
911 ADMIRALS ROAD
VICTORIA BC V9A 2P1
OCEAN
R: 604 382-5969

GRATTON, YVES
DEPT. OCEANOGRAPHIE - U.Q.A.R.
300 AVE DES URSULINES
RIMOUSKI PQ G5L 3A1
OCEAN
B: 418 724-1761

GREEN, BARRY C.
12 AVONDALE CRESCENT
AURORA ON L4G 3P6
MET d
B: 416 667-4716

GREENAWAY, BGen K R
472 WELLESLEY AVENUE
OTTAWA ON K2A 1B4
MET d
R: 613 728-8789

GREENBERG, D.A.
COMPARTMENT 95 LAKEVIEW AVE.
LOWER SACKVILLE NS B4C 3B1
OCEAN
B: 902 426-2431

GREER, B.D.
89 HOWARD ROAD
NEWMARKET ON L3Y 3G6
MET d
B: 416 676-3513

GREISMAN, PAUL
DOBROCKY SEATECH
P.O. BOX 6500
SIDNEY BC V8L 4M7
OCEAN e
B: 604 656-0111

GRENIER, BRUNO (S)
#22-81 MUNROE PL.
REGINA SK S4S 6A7
MET d
B: 584-4200

GRENIER, BRUNO (S)
22 - 81 MUNROE PL.
REGINA SK S4S 6A7
MET d
B: 584-4200

GRIFFIN, GERALD N. (S)
1900 NICOLAS PERROT
TROIS-RIVIERES PQ G9A 1C6
MET a d e
R: 819 375-1533

GRIMMOND, C. SUE (S)
C/O DEPT OF GEOGRAPHY - UBC
#217 - 1984 WEST MALL
VANCOUVER BC V6T 1W5
MET a
B: 228-2663

GROSH, R. (S)
1225 W. DAYTON
MADISON WI 53706 U.S.A.
MET a b c

GRYNIEWSKI, PETER N
ONT. MINISTRY OF NATURAL RES.
W 5620 QUEEN'S PARK
TORONTO ON M7A 1W3
MET a
B: 416 965-6292

GUERAUD, F.
C.P.Q.
100 ALEXIS NIHON 3E ETAGE
VILL ST LAURENT PQ H4M 2N6
MET
B: 514 283-1159

GUIMOND, E.J.G.
BOX 209
LANTZ NS BON 1R0
MET
B: 835-3778

GUNN, K.L.S.
RICHARDSON HALL
QUEEN'S UNIVERSITY
KINGSTON ON K7L 3N6
MET
B: 613 547-2639

GUY, EUGENE V.
CENTRE FOR COLD OCEAN
RESOURCES ENGINEERING
MEMORIAL UNIV. OF NEWFOUNDLAND
NF A1B 3X5
OCEAN e
B: 737-7961

HACKSLEY, H.M.
167 CARROLL ROAD
WINNIPEG MB R3K 1H1
MET d
B: 204 949-4383

HADLOCK, RON
429 SNYDER ROAD
RICHLAND WA 99352 U.S.A.
MET d
B: 509 375-3976

HAERING, P.C.
5294 - 6TH AVENUE
DELTA BC V4M 1L5
MET d
R: 604 943-8126

HAGE, K.D.
DEPT. OF GEOGRAPHY
UNIVERSITY OF ALBERTA
EDMONTON AB T6G 2H4
MET b c
B: 403 432-5407

HALLIDAY, ROBERT A.
ENVIRONMENT CANADA
1102 8TH AVENUE - ROOM 210
REGINA SK S4R 1C9
a
B: 306 359-5338

HALPERN, D.
JET PROPULSION LABORATORY
M/S 169-236, CALIFORNIA INST.
OF TECH, 4800 OAK GROVE DR.
PASADENA CA 91109 U.S.A.
MET

HAMBLIN, P.F.
341 RANKIN DRIVE
BURLINGTON ON L7N 2B2
OCEAN
B: 416 336-4921

HAMILTON, KEVIN P.
DEPT. OF METEOROLOGY
MCGILL UNIVERSITY
805 SHERBROOKE ST. W
MONTREAL PQ H3A 2K6
MET
B: 514 392-4462

HAMMOND, B.A.
10711 ANAHIM DRIVE
RICHMOND BC V7A 3C6
MET
R: 604 271-2771

HANEY, ROBERT L.
DEPARTMENT OF METEOROLOGY
NAVAL POSTGRADUATE SCHOOL
MONTEREY CA 93943 U.S.A.
OCEAN
B: 408 646-2308

HARDY, K.R.
AFGL LYS
HANSOM AFB MA 01731 U.S.A.
MET d
B: 617 861-3496

HARE, F.K.
301 LAKESHORE ROAD W.
OAKVILLE ON L6K 1G2
MET
B: 416 978-2370

HARLEY, WILLIAM S.
821 BLUE MOUNTAIN RD.
COQUITLAM BC V3J 4S6
MET
B: 604 936-1057

HARRINGTON JR, J.B.
PETAWAWA NATIONAL FORESTRY INS
CHALK RIVER ON K0J 1J0
MET b c
B: 613 589-2880

HARRY, K.F.
475 - 2885 BOYS ROAD
DUNCAN BC V9L 4Y9
MET
B: 604 748-1882

HARTMAN, W.H.
P.O. BOX 176
CFPO 5056
BELLEVILLE ON K0K 3R0
MET

HATTIE, SCOTT
5 CRAWFORD STREET
DARTMOUTH NS B2W 1J3
MET d
R: 463-2013

UNIVERSITY OF HAWAII (C)
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HONOLULU HI 96822 U.S.A.

HAWKES, J.
6173 VOYAGEUR
ORLEANS ON K1C 2X5
MET d
B: 613 995-4206

HAY, ALEX E.
PHYSICS DEPARTMENT
MEMORIAL UNIVERSITY
ST. JOHN'S NF A1B 3X7
OCEAN
B: 709 737-8888

HAY, J.E.
PROFESSOR DEPT. OF GEOGRAPHY
UNIV. OF BRITISH COLUMBIA
VANCOUVER BC V6T 1W5
MET
B: 604 228-4929

HENDERSHOT, WILLIAM
BOX 109
MACDONALD COLLEGE
STE-ANNE DE BELLEVUE
PQ H9X 1C0
MET a b c
B: 514 457-2000

HENDRY, R.M.
BI OCEANOGRAPHY
P.O. BOX 1006
DARTMOUTH NS B2Y 4A2
OCEAN
B: 902 426-3142

HENGVELD, HENRY G.
4905 DUFFERIN ST.
ATTN: COCO
DOWNSVIEW ON M3H 5T4
MET b
B: 416 667-4525

HENRY, D.
103 PARKSIDE DR.
WINNIPEG MB R3J 1M1
MET
B: 204 949-4378

HENRY, R.F.
4925 WINTERBURN PLACE
VICTORIA BC V8Y 1Z9
OCEAN
B: 604 656-8249

HENRY, T.J.G.
84 LAKE PROMENADE
TORONTO ON M8W 1A3
MET
B: 416 259-4063

HERFST, FRED J.
5140 WILSON DR.
DELTA BC V4M 1P4
MET c d
B: 604 666-6620

HERLINVEAUX, R.H.
935 BIRCH RD.
R.R. #4
SIDNEY BC V8L 4R4
OCEAN a b c
B: 604 656-8268

HERTZMAN, OWEN
APT. 3
1410 E. HOWELL
SEATTLE WA 98122 U.S.A.
MET a b
B: 206 545-2910

HILL, M.C.
#201-727 3 AVENUE N.W.
CALGARY AB T2N 0J3
MET a b c
B: 403 231-1959

HITSCHFELD, W.F.
MCGILL UNIVERSITY-METEOROLOGY
805 SHERBROOKE STREET W.
MONTREAL PQ H3A 2K6
MET
B: 514 392-4443

HOBSON, LOUIS A.
DEPT. OF BIOLOGY
UNIVERSITY OF VICTORIA
VICTORIA BC V8W 2Y2
OCEAN
B: 604 721-7124

HODES, H.H.
980 SUNNY COURT
GAMBRILLS MD 21054 U.S.A.
MET b d
B: 703 841-3655

HOFFMAN, ROSS N.
ATMOSPHERIC ENVIRONMENTAL
RESEARCH INC.
840 MEMORIAL DR
CAMBRIDGE MA 02139 U.S.A.
MET
B: 617 547-6207

HOGAN, D.L.
2525 WEST 13 AVE.
VANCOUVER BC V6K 2S9
MET a b c
B: 604 731-9941

HOLLAND, DAVID M. (S)
14 MAXSE ST
ST. JOHN'S NF A1C 2S7
OCEAN a
B: 709 737-8709

HOLLAND, G.L.
13 LEACOCK DR.
KANATA ON K2K 1R6
OCEAN
B: 613 995-2046

HOLLAND, J.D.
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MET

HOPKINSON, R.
3519 QUEEN STREET
REGINA SK S4S 2G1
MET a b
B: 306 780-5739

HOPPER, FRED (S)
#306 10728 80TH AVE.
EDMONTON AB T6E 1V8
b
B: 403 432-5405

HORITA, M.
6054 CRESCENT DRIVE
DELTA BC V4K 2G2
MET d
B: 604 666-0079

HORNE, RALPH V.
235 POWELL AVE.
OTTAWA ON K1S 2A4
MET d
B: 613 991-1908

HORNSTEIN, R.A. (L)
APT 301
1074 WELLINGTON STREET
HALIFAX NS B3H 2Z8
MET d
B: 902 422-4174

HORTH, ALCIDE C.
520 DE TOURAINE
RIMOUSKI PQ G5L 5N8
OCEAN
B: 418 724-1754

HOWES, TANYA J. (S)
RR# 4
BOX 891
OTTAWA ON K1G 3N2
MET c e
R: 613 731-6068

HSIEH, W.
DEPT. OF OCEANOGRAPHY
UNIVERSITY OF B.C.
VANCOUVER BC V6T 1W5
OCEAN
B: 604 228-2821

HUDAK, D.R.
655 ELLIOT CRESCENT
MILTON ON L9T 3G5
MET
B: 416 736-0521

HUDSON, E.T.
6550 112A STREET
EDMONTON AB T6H 4R3
MET d e
B: 403 468-7909

HUFFY, A.
INST DE GEOGRAPHIE
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QUEBEC PQ G1K 7P4
MET
B: 418 656-2512

HUGHES, DAVID G.
9131 118 STREET
EDMONTON AB T6G 1T6
MET b d
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HUME, W.D.
38 WILLOWBROOK CR
ST. ALBERT AB T8N 3J1
MET d
B: 403 458-9338

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700 TERRACE PLAZA ALTA RESEAR.
4445 CALGARY TRAIL SOUTH
EDMONTON AB T6H 5R7
MET c d
B: 403 438-0555

HUNTER, F.G.
2211 ELDERKIN DR.
REGINA SK S4V 0L8
MET c d
B: 306 780-5738

HUYER, A.
SCHOOL OF OCEANOGRAPHY
OREGON STATE UNIVERSITY
CORVALLIS OR 97331 U.S.A.
OCEAN
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INGALL, A.F.
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R: 403 483-5879

INGRAM, R.G.
3620 UNIVERSITY STREET
MONTREAL PQ H3A 2B2
OCEAN
B: 514 392-5718

INKSTER, D.R.
INTERA TECHNOLOGIES LTD.
#1200, 510 - 5TH ST. S.W.
CALGARY AB T2P 3S2
MET
B: 403 266-0900

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29 BANSTOCK DRIVE
WILLOWDALE ON M2K 2H5
MET
B: 416 978-5434

ISAAC, G.A.
ATMOSPHERIC ENVIRONMENT SERV.
4905 DUFFERIN STREET
DOWNSVIEW ON M3H 5T4
MET
B: 416 667-4683

JACOBS, J.D.
UNIVERSITY OF WINDSOR
DEPARTMENT OF GEOGRAPHY
WINDSOR ON N9B 3P4
MET
B: 519 253-4232 x2177

JAKOBSSON, T.E.
METEOROLOGICAL INST.
VEDURSTOFA ISLAND BUSTADAVEGUR
REYKJAVIK ICELAND

JARMAIN, W.R.
EMERITUS, PHYSICS
795 COMMISSIONERS RD W.
LONDON ON N6K 1C1
MET b d
B: 519 471-5844

JEAN, MICHEL (S)
9102 COPERNIC
ST-LEONARD PQ H1R 3M4
MET d
B: 416 749-4033

JELLEY, G. BLAINE
CANADIAN AIR GROUP HEADQUARTER
CFPO 5000
VIA BELLEVILLE ON K0K 3R0
MET d
B: 07821-206122

JESSUP, RALPH G.
85 THORNCLIFFE PK DR
APT. 4001
TORONTO ON M4H 1L6
MET e
B: 416 667-4922

JIN, YON-HUANG (S)
DEPT. OF PHYSICS
MUN
ST JOHN'S NF A1B 3X7
OCEAN

JOE, PAUL IAN
993 AVENUE ROAD
TORONTO ON M5P 2K9
MET b
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MET a c d
B: 666-6889

JOHNSTONE, K.R.
33 BALKO CRESCENT
DOLLARD-DES-OREMEAUX
PQ H9G 1B3
MET
B: 514 683-8221

JONES, BOB
24 HIGGINS ROAD
NEPEAN ON K2G 0R5
MET
B: 819 994-5406

JONES, BRYN (S)
45 LA ROSE AVE
APT. #502
WESTON ON M9P 1A8
MET d
B: 416 241-5871

JONES, E P
BEDFORD INST OF OCEANOGRAPHY
P.O. BOX 1006
DARTMOUTH NS B2Y 4A2
OCEAN
B: 902 426-3869

JONES, KENNETH H.
76 DOLPHIN BAY
REGINA SK S4S 4Z8
MET a c
B: 780-6413

JULIEN, BARRY
#106 - 9915 - 88 AVE.
EDMONTON AB T6E 2R4
MET d
B: 403 973-8184

KAGAWA, H.N.
3960 GARNETWOOD CHASE
MISSISSAUGA ON L4W 2G8
MET d
B: 416 667-4718

KAMINSKI, JACEK (S)
#1404
35 FOUNTAINHEAD ROAD
DOWNSVIEW ON M3J 2V7
R: 416 663-7751

KEARNEY, DERMOTT PETER (S)
8 NEW COVE TERRACE
ST JOHN'S NF A1A 3R4
MET
R: 722-3216

KEELEY, J.R.
2243 REMBRANDT RD.
OTTAWA ON K2B 7P8
OCEAN
B: 613 990-0246

KEEN, KEVIN J. (S)
1574 BATHURST ST.
APT 39
TORONTO ON M5P 3H3
MET b c
B: 416 656-8226

KELLEY, DAN (S)
WOODS HOLE OCEANOGRAPHIC
INSTITUTION
WOODS HOLE MA 02543 U.S.A
OCEAN
B: 902 424-7007

KELM, ALAN (S)
BOX 239 RR #6
SASKATOON SK S7K 3J9
MET
R: 306 373-4358

KENNEDY, G.B.
1805 DE GROSBOIS AVENUE
ST BRUNO PQ J3V 4N2
MET
B: 514 671-3711 x7720

KERKHOFF, F.B.
204 BEACH DRIVE
COMOX BC V9N 5C2
MET
B: 604 339-3356

KERN, JASMIN MARGARET (S)
APT 303
2700 AQUITAINE AVE
MISSISSAUGA ON L5N 3J6
MET a b c d

KESSLER, TOM
MARINE ECOLOGY LABORATORY
BEDFORD INST. OF OCEANOGRAPHY
P.O. BOX 1006
DARTMOUTH NS B2Y 4A2
OCEAN a
B: 902 426-2706

KHALIL, M.
DEPT D'OCEANOGRAPHIE UQAR
300 AVE DES URSULINES
RIMOUSKI PQ G5L 3A1
OCEAN
B: 418 724-1759

KHANDEKAR, M.L.
495 HUNTINGWOOD DRIVE
AGINCOURT ON M1W 1G5
MET a d e
B: 416 667-4922

KHATEEB, USAID A.
B-10, ALLAMA IQBAL TOWN
BLOCK W. NORTH NAZIMABAD
KARACHI-33 433191 PAKISTAN
MET d

KIERSTEAD, GARY N.
COLE'S ISLAND
QUEEN'S COUNTY NB E0E 1G0
MET a b c d
B: (506)422-2612

KIM, CHANG SHIK (S)
VIRGINIA INSTITUTE OF MARINE
SCIENCE
GLOUCESTER PT VA 23062 U.S.A.
OCEAN
B: 804 642-7278

KING, K.M.
DEPT. OF LAND RESOURCE SCIENCE
UNIVERSITY OF GUELPH
GUELPH ON N1G 2W1
MET c
B: 519 824-4120 x2787

KING, PATRICK
453 HILLSDALE AVE
TORONTO ON M4S 1V1
MET d
B: 416 489-6738

KINSELLA, E. DOUG
63 LIME ST.
ST. JOHN'S NF A1C 4H7
OCEAN
B: 709 722-7023

KIRK, C. GORDON
385 DUFFERIN AVE
LONDON ON N6B 1Z5
MET
R: 519 439-4049

KLEIN, G.
11 HOUSTON CRESCENT
WILLOWDALE ON M2J 3H7
MET
B: 667-4762

KLEMES, VIT
NATIONAL HYDROLOGY RESEARCH
INSTITUTE
ENVIRONMENT CANADA
OTTAWA ON K1A 0E7
B: 416 997-2605

KLIVOKIOTIS, PANAGIOTIS (S)
329L MICHENER PARK
EDMONTON AB T6H 4M5
MET
B: 403 436-1472

KNIGHT, J.F.L.
POLLUTION CONTROL BRANCH
ENVIRONMENT N.B.
P.O. BOX 6000
FREDERICTON NB E3B 5H1
MET b
B: 506 453-2861

KNOX, JOHN
285 DELORAIN AVE.
TORONTO ON M5M 2B2
MET
B: 416 488-4356

KOCHTUBAJDA, B.
ALTA RES COUNCIL ATM SC DEPT.
700, TERRACE PLAZA
4445 CALGARY TRAIL SOUTH
EDMONTON AB T6H 5R7
MET
B: 403 438-0555

KOCIUBA, P.J.
9408 67A STREET
EDMONTON AB T6B 1R8
MET b
B: 403 437-1250

KOREN, O.
14 OAKMOUNT CRESCENT
CONCORD ON L4K 1E6
MET d
B: 667-4976

KOUTITONSKY, VLADIMIR
INRS-OCEANOLOGIE
310 AVE DES URSULINES
RIMOUSKI PQ G5L 3A1
OCEAN
B: 418 724-1650

KRAUEL, DAVID
2275 ALICIA PL
VICTORIA BC V9B 4S6
OCEAN
R: 604 478-0081

KRAUSS, T.W.
C/O ALBERTA RESEARCH COUNCIL
700 -4445 CLAGARY TRAIL SOUTH
EDMONTON AB T6H 5R7 CANADA
MET

KU, L. FA
C/O UNDP
G.P.O. BOX 224
OWAKA BANGLADESH
OCEAN a

KUNZE, ERIC
WOODS HOLE OCEANOLOG. INST.
WOODS HOLE MA 02543 U.S.A.
OCEAN
B: 617 548-1400

KWIZAK, M.
836 ROUNDELAY DR
OSHAWA ON L1J 7G2
MET
R: 416 579-6317

KWONG, W.S.K.
4410 SHELBY CRES
MISSISSAUGA ON L4W 3T3
MET a b c d
R: 416 275-8589

LABELLE, J.J.
301 OVERDALE STREET
ST. JAMES MB R3J 2G2
MET d
B: 204 837-4601

LACHAPELLE, ANDRE
12 ADAMIC CRESCENT
LEDUC AB T9E 3P1
MET d
B: 403 437-1885

LADOCHY, STEVE
515 PORTAGE AVENUE
WINNIPEG MB R3B 2E9
MET b c d
B: 204 786-9481

LAKE, R.A.
INST OF OCEAN SCIENCES
9860 W SAANICH ROAD
SIDNEY BC V8L 3S2
OCEAN
B: 604 656-8280

LALLY, SUSAN K.
OCEANROUTES CANADA
1496 BEDFORD HWY
SUITE 330
BEDFORD NS B4A 1E5
MET d
B: 835-1617

LAMB, P.
812 PAS DE CALAIS
ST-NICOLAS PQ G0S 3L0
MET a c
B: 418 643-4588

LAMBERT, S.
83 BESWICK DRIVE
NEWMARKET ON L3Y 1E8
MET
B: 416 667-4820

LAMONT, A.H.
12 THACKERAY AVENUE
WINNIPEG MB R3K 0H1
MET
B: 204 837-5249

LANGE, OWEN S.
339 EAST 11TH ST
N. VANCOUVER BC V7L 2H1
MET d
B: 666-7885

LANGLEY, KARINE (S)
DEPT OF PHYSICS
MEMORIAL UNIVERSITY
ST. JOHN'S NF A1B 3X7
OCEAN a c
B: 709 737-4408

LAPCZAK, S.
17 KELWAY BLVD.
TORONTO ON M5N 1H2
MET a b c d
B: 416 485-5241

LAPRISE, J.P.R. (S)
CCRN
4905 DUFFERIN ST.
DOWNSVIEW ON M3H 5T4
MET
B: 416 667-4831

LAROCHE, PIERRE
PECHES ET OCEANS
C.P. 15500
QUEBEC PQ G1K 7Y7
OCEAN
B: 418 648-7781

LAURENCE, RICHARD
410 DRAPEAU
STE ROSE LAVAL PQ H7L 4K1
MET d

LAWFORD, RICHARD G.
36 CENTREPARK DR.
OTTAWA ON K1B 3C1
MET a b c
B: 613 990-6263

LAWRENCE, DON
BEDFORD INSTITUTE OCEANOGRAPHY
P.O. BOX 1006
DARTMOUTH NS B2Y 4A2
OCEAN
B: 902 426-2431

LAWRYNUK, WALTER D.
65 LAURELWOOD CR.
WESTON ON M9P 1L6
MET d
B: 416 676-3019

LAWSON, AN D.
62 GLENBROOK CRES.
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MET
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LAYTON, D.W.
5429 DUFFUS STREET
HALIFAX NS B3K 2M2
MET d
B: 902 835-3778

LAZIER, JOHN R.N.
ATLANTIC OCEANOGRAPHIC LAB.
BEDFORD INST. OF OCEANOGRAPHY
P.O. BOX 1006
DARTMOUTH NS B2Y 4A2
OCEAN
B: 426-4872

LEA, B.N.
872 ISLAND RD
VICTORIA BC V8S 2T9
OCEAN

LEAITCH, RICHARD
ARPP - A.E.S.
4905 DUFFERIN STREET
DOWNSVIEW ON M3H 5T4
MET b
B: 416 667-4689

LEAVITT, E.
INTERA TECHNOLOGIES LTD.
510 5TH ST. S.W.- 12TH FL
CALGARY AB T2P 3S2
MET b e
B: 403 266-0900

LEBEL, JEAN
300 AVE DES URSULINES
RIMOUSKI PQ G5L 3A1
OCEAN
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OCEAN
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SMITH, S.D.
ATLANTIC OCEANOGRAPHIC LAB
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BOX 1006
DARTMOUTH NS B2Y 4A2
OCEAN e
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INSTITUTE OF OCEAN SCIENCES
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DIRECTOR
OCEAN
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WANGERSKY, P.J.
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WEAVER, ANDREW J. (S)
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UNIVERSITY OF B.C.
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VANCOUVER BC V6T 1W5
OCEAN
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GUELPH ON N1G 2W1
MET a
B: 824-4120

WHITING, J.M.
612 QUANCE AVE.
SASKATOON SK S7H 3B4
MET a b c e
B: 306 664-5423

WIEGAND, R.C.
1320 FULTON AVE.
WEST VANCOUVER BC V7T 1N8
a
B: 604 922-1836

WIGHAM, JOHN M.
146 WILLOUGHBY CR.
SASKATOON SK S7H 4W7
MET a
B: 306 343-3681

WILLIAMS, D. ROSS
157 BISHOP AVE.
WILLOWDALE ON M2M 1Z7
OCEAN e
B: 416 667-3808

WILLIAMS, G.D.V.
RR #4
COLDWATER ON L0K 1E0
MET c
B: 416 667-4702

WILLIAMS, JERRY A.
3220 VERDANT WAY
SAN JOSE CA 95117
MET d
B: 415 493-3600 (245)

WILLIAMS, R.J.
1873 SPALL RD.
KELOWNA BC V1Y 4R2
MET c
B: 604 861-7211

WILSON, C.
APT 312
230 BRITTANY DRIVE
OTTAWA ON K1K 0R6
MET
B: 613 741-8831

WILSON, EVELYN E.
46 WRIGHT AVE.
TORONTO ON M6R 1K8
B: 667-4796

WILSON, H.J.
UNIT 66
21 MIDLAND CRES.
NEPEAN ON K2H 8P6
MET b
B: 613 996-3152

WILSON, H.P.
11131 50 AVE.
EDMONTON AB T6H 0J1
MET b c d e
B: 403 434-4928

WILSON, JOHN DEREK
METEOROLOGY DIVISION
GEOGRAPHY DEPARTMENT
UNIVERSITY OF ALBERTA
EDMONTON AB T6G 2H4
c
B: 403 432-4498

(S) WILSON, J R
RR#3
RIDEAU VALLEY DRIVE
MANOTICK ON K0A 2N0
OCEAN
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WINSTONE, LARRY T.
8610 - 156 ST.
EDMONTON AB T5R 1Y4
MET d
B: 468-7922

WOJTIW, L.
3548 104 STREET
EDMONTON AB T6J 2J7
MET a
B: 403 438-0555

WOLFE, G.L.
R R NO 1
BOLTON ON LOP 1A0
MET d
B: 416 676-4540

WONG, RAYMOND KI WAI
P.O. BOX 246
SUB 11
EDMONTON AB T6G 2E0
MET
B: 438-0555

WORSFOLD, R.D.
34 CORNWALL AVENUE
ST JOHN'S NF A1E 1Y6
OCEAN a b e
B: 902 864-2627

WRIGHT, D.G.
BEDFORD INSTITUTE OF
OCEANOGRAPHY
P.O. BOX 1006
DARTMOUTH NS B2Y 4A2
OCEAN
B: 902 426-4492

WYSOCKI, W.
4530 W MANITOBA STREET
MILWAUKEE WI 53219 U.S.A.
MET
R: 414 543-7716

YAKIMIW, E.
116 WOODLAND AVENUE
BEACONSFIELD PQ H9W 4W1
MET
B: 514 683-7768

YAO, T.
75 LINCOLN CROSS
HALIFAX NS B3M 3S6
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YOUNG, C.
314 WILLINGDON STREET
FREDERICTON NB E3B 3A5
MET b
B: 506 453-4723

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YUN, ANDY KENMON (S)
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YUN, KEA-YOUNG
C/O NORDCO LTD.
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ST. JOHN'S NF A1B 3T2
MET a
B: 709 364-1200

ZAWADZKI, I.
DEPT DE PHYSIQUE
UNIV DU QUEBEC
C P 8888
MONTREAL PQ H3C 3P8
MET a
B: 514 282-3320

ZELTMANN, W.F.
719 BAY RIDGE AVENUE
BROOKLYN NY 11220 U.S.A.
MET d
B: 718 748-8066

ZWIERS, FRANCIS W
CANADIAN CLIMATE CENTRE/CCRN
4905 DUFFERIN STREET
DOWNSVIEW ON M3H 5T4
MET

NATO Advanced Research Workshop
on
Natural Mechanisms of Surface Generated Noise
in the Ocean

A NATO Advanced Research Workshop on Natural Mechanisms of Surface Generated Noise will be held 15-19 June 1987 in Santa Teresa, Italy. The meeting is sponsored jointly by the Scientific Affairs Division of NATO, the United States, Office of Naval Research and the Atmospheric Environment Service, of Canada. The workshop will be held at the Energy and Environment Research Centre near La Spezia, inside the walls of an old fortress overlooking the Mediterranean Sea.

The purpose of the workshop is to bring together specialists in the fields of geophysical hydrodynamics and acoustics to focus interdisciplinary attention on the problem of sound generation, primarily by wind and rain at the ocean surface.

An organizing committee consisting of B. Kerman, Atmospheric Environment Service, of Canada, L. Bjorno, Technical University of Denmark, A. Prosperetti the John Hopkins University, R. Hollett and R. Heitmeyer of the Saclant ASW Research Centre, La Spezia has planned a meeting consisting of about 12 invited speakers and 30 contributed papers. Among the invited speakers who have agreed to attend are M. Longuet-Higgins, O. Phillips, D. Crighton, J. Ffowcs-Williams, W. Juperman, D. Farmer, P. Crowther, S. Lloyd, A. Kibblewhite, A. Prosperetti and L. Crum. Topics which will be discussed include bubbles, wave-wave interaction, air and water turbulence, spray simulation and bubble entrainment, rain noise, near-surface propagation as well as breaking wave dynamics and wind-wave fields.

Contributed papers are solicited on all aspects of natural sound generating mechanisms at the ocean surface. In particular papers are encouraged which contribute to observing, describing and understanding the various mechanisms by which sound is generated at the air-sea interface. Authors wishing to contribute are asked to forward an extended abstract to the Workshop Director, Dr. B. Kerman, Atmospheric Environment Service, 4905 Dufferin Street, Downsview, Ontario, Canada, M3H 5T4 (tel. 416-667-4791, telex 06-964582).

The abstract should be of 3 to 4 pages in length and sufficiently detailed for the review committee to judge its potential contribution to the workshop. Deadline for receipt of extended abstracts is January 16, 1987. Contributors will be notified of the committee's decision in early March 1987. Camera-ready manuscripts prepared to workshop specifications will be due by May 1, 1987. The proceedings will be published in the NATO Advanced Study Institute series by D. Reidel of the Netherlands. Details of local arrangements will be made available to contributors upon acceptance of their abstract.

Limited funds are available to support the travel and living expenses of contributors. Disbursement of these funds will be made on the basis of potential contribution to the meeting, international diversity and personal need, particularly of younger researchers. A letter requesting assistance should accompany an extended abstract.

POSITION VACANT

The University of British Columbia Department of Oceanography NSERC University Research Fellowships. Applications are invited from suitably qualified candidates for NSERC University Research Fellowships to be held in the Department of Oceanography. Applications from all disciplines in marine science will be considered. We are especially interested in candidates having training and experience in:

1. The molecular aspects of marine microbiology.
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Dr. S. Pond, Acting Head,
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UNIVERSITY OF TORONTO, ST. GEORGE CAMPUS, ATMOSPHERIC PHYSICS

The Department of Physics of the University of Toronto invites applications for a full-time tenure track position in atmospheric physics at the assistant professorial level. The base salary for this level is \$27,000 p.a. (1985-86 rates, currently under review). The successful candidate will have an active ongoing research program and a good record of creative scientific achievement with promise of continuing development. Applications are encouraged from both experimentalists and theoreticians who have a Ph.D. in Atmospheric Sciences and at least one and preferably more years of postdoctoral or equivalent research experience. The existing group of five atmospheric scientists has strength in atmospheric dynamics, cloud physics, and atmospheric radiation. The closing date for the receipt of applications is November 15, 1986, with the starting date being July 1, 1987. Applicants should submit a curriculum vitae, current preprints, and the names and addresses of at least three referees to Professor R. E. Azuma, Chairman, Department of Physics, University of Toronto, Toronto, Ontario, Canada M5S 1A7. The University of Toronto encourages both women and men to apply for this position. In accordance with Canadian Immigration requirements, this advertisement is directed to Canadian citizens and permanent residents.

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Editor / Rédacteur en chef: S.J. Cohen
Associate Editors / Rédacteurs associés:
R.B.B. Dickson J.R.N. Lazier D.W. Phillips S. Tabata
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