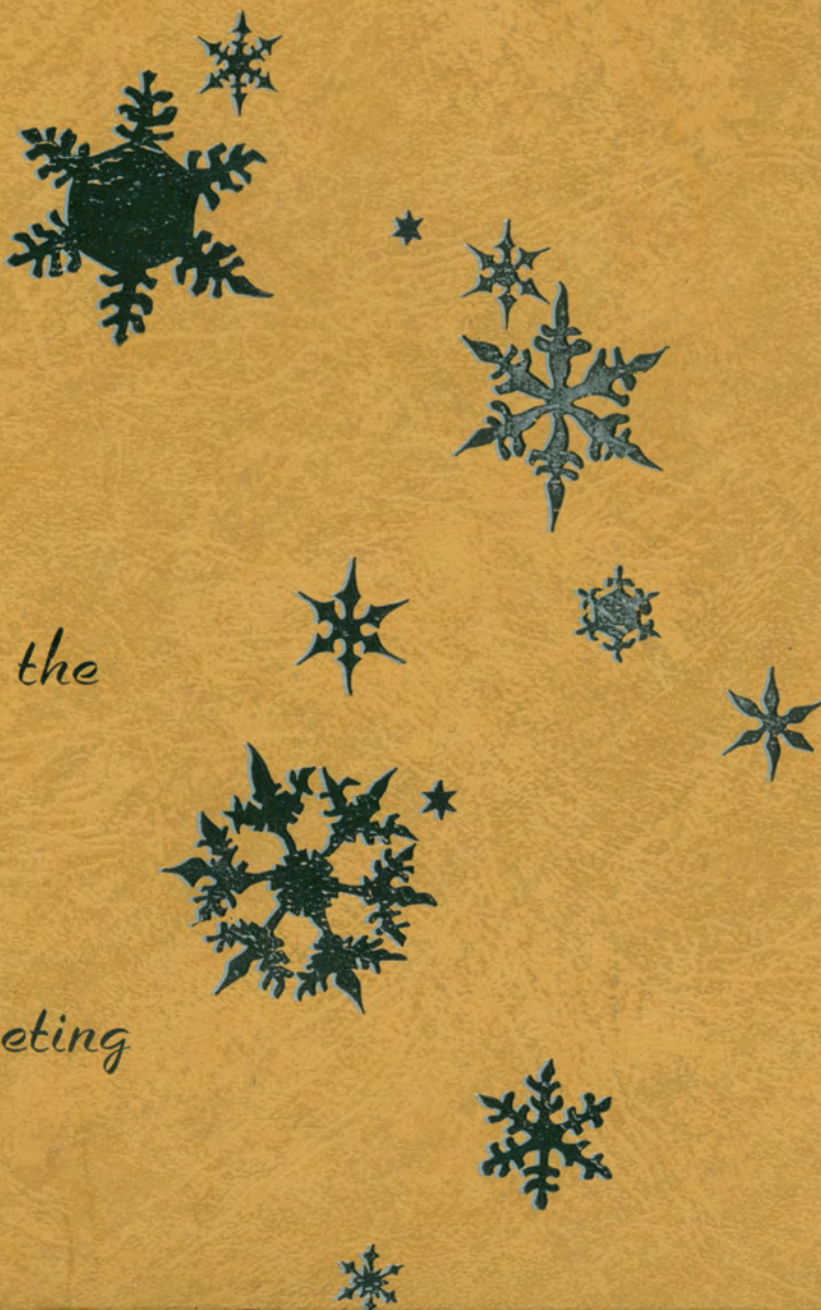


Eastern
Snow
Conference

Proceedings of the

1985

Annual Meeting



PROCEEDINGS OF THE
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EASTERN SNOW CONFERENCE

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The Eastern Snow Conference hereby formally recognizes the passing of Gordon R. Ayer, Secretary-Treasurer of the Conference for many years and Secretary Emeritus until his death. The contents of this volume attest to the longterm strength of Gordon's work. Our sincere regrets to Mrs. Ayer and the family.

FORWARD

The 42nd annual Eastern Snow Conference (ESC) was held in Montreal on 6-7 June 1985. This year almost 100 delegates heard 24 papers on topics such as, arctic navigation and sea ice, ice accretion on cables, snow and Inuit place names, snowmelt modelling in various environmental situations, river ice jams, remote sensing of snow and ice, and snow pollution. These papers including 5 poster papers are published in this volume of the 42nd annual Proceedings which also contains the snow survey panel discussion that was held during the meeting and a up-to-date index of all papers presented at the Eastern Snow Conference.

Membership in the Conference is open to all interested individuals. Annual dues are only ten dollars (U.S.) and this includes one copy of the Proceedings, plus any other data distributed by the Conference. Interested individuals are asked to contact the Secretary - Don Dunlap. Additional copies of current Proceedings and all back issues also can be obtained from the Secretary.

I would like to extend my thanks to the members of the ESC and the authors of the Proceedings.

John E. Lewis
Editor

PROCEEDINGS OF THE EASTERN SNOW CONFERENCE
 Forty-Second Annual Meeting, June 6 and 7, 1985

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THE EASTERN SNOW CONFERENCE

The Eastern Snow Conference (ESC) is a joint US/Canadian organization which was founded in the 1940's. It is an association of people interested in research and applied aspects of the study of ice in all its forms, especially snow. The principal activities of the ESC are the organization of an annual meeting, in the US or Canada in alternate years, and the production of the annual Proceedings of the Eastern Snow Conference, which now form more than forty volumes deposited in libraries throughout North America and Europe. The annual meetings are sometimes held in major cities such as Washington, Montreal, Toronto or Boston and sometimes in smaller cities such as Peterborough, Oswego, Portland or Fredericton.

The members of the ESC are a very diverse and, over the years, fluctuating, group. They include professional snow surveyors, engineers and technologists (of various stripes), professors and students, hydrologists and biologists, people responsible for keeping roads clear of snow and rivers free of ice, and others interested in snow and agriculture. The members are drawn from all parts of eastern North America, they live and work in places which extend from Maryland to the high Arctic. The line between the territory of the ESC and its counterpart in the other half of the continent, the equally venerable Western Snow Conference, is not a precise one. Residents of the Mid-West and of the Prairie provinces seem to join one or the other organization on the basis of personal whims such as a preference for Reno, Nevada over Bangor, Maine as a desirable meeting place...

In recent years, the annual ESC meetings have included sessions on snow and small mammals, snow and buildings, river ice, permafrost, remote sensing of snow and ice, biology of sea ice, snow and ice on lakes, measuring snow and ice, hydroelectricity and snow and ice, glaciers, icebergs, snow and farming etc. etc.

Eastern Snow Conference est une organisation internationale canado-américaine fondée dans les années '40. Elle regroupe des gens qui ont des intérêts communs dans l'étude théorique et pratique de la glace sous toutes ses formes, en particulier sous la forme de neige. Eastern Snow Conference a comme activités principales d'organiser sa réunion annuelle en alternant le site du Canada aux Etats-Unis, d'en produire les comptes-rendus qui se montent maintenant à plus de quarante volumes que l'on peut trouver dans les librairies de l'Amérique du Nord et d'Europe. La réunion annuelle peut se tenir tout aussi bien dans des villes importantes comme Washington, Montréal, Toronto ou Boston comme dans des plus petites comme Peterborough, Oswego, Portland ou Frédéricton.

Les membres de Eastern Snow Conférence représentent un grand nombre de domaines reliés à la neige et la glace. On y retrouve des spécialistes des relevés de neige, des ingénieurs et des techniciens, des professeurs et des étudiants, des hydrologues et des biologistes, des gens ayant la responsabilité d'entretenir les chemins en hiver ou de contrôler la glace en rivière, d'autres ayant quelque intérêt dans la neige et l'agriculture. Tous ces membres viennent de l'est de l'Amérique du Nord et peuvent y habiter du Maryland, U.S.A., à l'Arctique. D'ailleurs la ligne qui sépare le territoire de Eastern Snow Conference à son pendant de l'ouest la vénérable Western Snow Conference est assez diffuse. Les habitants du centre-ouest américain ou des Prairies peuvent choisir de rallier une ou l'autre organisation sur une base très personnelle comme de préférer d'aller à Reno, Nevada plutôt que Bangor, Maine pour leur colloque annuel.

Dans les dernières années, aux réunions annuelles de Eastern Snow Conference on a tenu des sessions sur la neige et les petits mammifères, la neige et le bâtiment, la glace de rivière, le pergélisol, la télédétection de la neige et de la glace, la biologie de la glace marine, la neige et la glace lacustres, la mesure de la glace et de la neige, l'hydroélectricité et la glace et la neige, les glaciers, les icebergs, la neige et l'agriculture, etc...

EASTERN SNOW CONFERENCE OFFICERS
1984 - 85

PRESIDENT

Peter Adams
Watershed Ecosystem Programs
Peterborough, Ontario K9J 7B8

VICE-PRESIDENT

Hilda J. Snelling
Meteorology Section
USAF/ETAC
Building 859
Scott AFB, Illinois 62225

PAST-PRESIDENT

Donald R. Wiesnet
Satellite Hydrology Assoc.
103 Beulah Rd. N.E.
Vienna, Virginia 22180

SECRETARY - Don Dunlap
335 George St., Room 202
New Brunswick, N.J. 08901
U.S.A.

EDITOR (1985-87)
John Lewis
Dept. of Geography
McGill University
Montreal, Quebec, H3A 2K6
Canada

EXECUTIVE COMMITTEE

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* He is retiring - a replacement will be named.