

## Foreword

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The 1995 Workshop on the Hydraulics of Ice Covered Rivers is the eighth in the series of biennial workshops which began in Burlington in 1980, and have been held at various locations across Canada since then. The theme of the Kamloops Workshop is "Winter Environments of Regulated Rivers" and marked the first time that the Workshop was held in British Columbia.

The 1995 Workshop built upon the inter-disciplinary contacts established at the 1993 Workshop in Saskatoon by emphasizing environmental concerns while focusing on river ice problems associated with regulation. Engineers, scientists, managers, and biologists from all over British Columbia, from across Canada and the United States, and from several other countries exchanged information on different aspects of river ice during the formal sessions, on the field trip, and informally during the social events. The Proceedings herein contain those papers which authors submitted for publication along with all written discussions and replies associated with the papers presented at the Workshop.

The Workshop would not have been successful without the financial aid provided by the following sponsors:

Canadian Geophysical Union Committee on River Ice Processes and the Environment,

British Columbia Environment (Water Branch),

Canadian Water Resources Association (BC Branch),

Manitoba Hydro, and

BC Hydro, the major sponsor

The Workshop Organizing Committee would also like to thank all presenters, discussers, and session chairs whose contributions are the foundation of any successful workshop and indeed, all participants who showed that the study of river ice in Canada continues to produce valuable information to many inside this country and beyond.

# The Gerard Medal

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The Gerard Medal was established in 1991 by the Committee on River Ice Processes and the Environment to recognize and remember the contributions made to the field of river ice engineering by the late Professor Robert (Larry) Gerard.

The medal is awarded to the author(s) of the paper deemed to be the best among those presented at each of the biennial River Ice Workshops that are sponsored by the Committee. Papers from each Workshop session are initially nominated by the Workshop participants. Those with the most frequent nominations are forwarded to three eminent colleagues for comparative reviews, based on such criteria as originality, practical significance, content, and presentation.

To date, the Gerard Medal has been awarded to:

R.S. Brown, S.S. Stanislawski, and W.C. Mackay, for the paper "Effects of Frazil Ice on Fish", Proceedings of Workshop (7th) on Environmental Aspects of River Ice, 1993, Saskatoon, NHRI Symposium No. 12, 261-278

R.S. Ford, S. Beltaos, W.J. Moody, and N.K. Madsen, for the paper "Remote Measurement of Ice Jam Thickness", Proceedings of (6th) Workshop on the Hydraulics of River Ice, 1991, Ottawa, 269-296

For the Eighth Workshop, the Gerard Medal has been awarded to Martin Jacek for his paper entitled "Ice Jam Simulations in Rivers with Islands." The Committee congratulates him on this achievement.

## **Editor's Page**

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These proceedings are the result of the combined efforts of a large number of authors who gave their time to putting the contents of their presentations on paper, thus making their ideas available to a much wider audience than could participate in the Workshop. As editor, I would like to thank the authors for this effort. I know that it is not an easy task.

All papers appear in their original camera-ready format. The order of the papers follows that in which they were presented at the Workshop, according to the sessions into which the papers were placed. Abstracts of papers presented at the Workshop, but not submitted, have not been included in the proceedings.

I would like to acknowledge the work of the chairpersons of the various sessions for collecting the discussion comments following the presentations of the papers. These are included in the proceedings and provide a valuable record of the interaction at the Workshop.

David Andres  
June, 1997

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