

PREFACE

The 1999 workshop on river ice is the 10th in a series of workshops that have been coordinated by the Committee on River Ice Processes and the Environment (CRIPE), and the second time that this series of workshops has been held in Winnipeg, Manitoba.

Workshops provide an excellent forum to present research findings, exchange information and share new ideas, all with a view to advancing our knowledge of ice-related processes. To this end, I would like to thank the many authors that have contributed to these proceedings and to this workshop.

The papers in these proceedings appear in the camera-ready format provided by the authors and are arranged in the same order as the workshop program.

On behalf of the organizing committee, I would like to extend a sincere thanks to all of the participants for helping this workshop to push forward the frontiers of our knowledge of river ice processes and the environment.

Jay Doering, Editor
June 1999

THE GERARD MEDAL

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:

Healy, D., F. Hicks, and S. Spyros, for the paper "A Comparison of ICEJAM and RIVJAM Ice Jam Profile Models", Proceedings of the Workshop (9th) on River Ice, 1997, Fredericton, NB, 269-282.

Jasek, M. for the paper "Ice Jam Simulations in Rivers with Islands", Proceedings of (8th) Workshop on Winter Environments of Regulated Rivers, 1995, Kamloops, BC, 421-441.

Brown, 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.

Ford, R.S., 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.