



HYDROHELP



JAMES L. GORDON
HYDROPOWER CONSULTANT

[Condensed Bio-data]

EDUCATION

B. Sc. Eng. (First class honours in civil engineering) Aberdeen, Scotland, 1952.

Short courses • Woodward Governor School, 1960
• Dam Design, Berkeley, 1968.

EXPERIENCE

Since July 1990, has worked as a private consultant providing advice to utilities, developers and consultants on hydro project detailed design, layout and concepts, mechanical equipment selection, turbine sizing and setting, dam safety assessment, due diligence review, project design review, project cost estimate review, and bid analysis for lump sum design-build contracts. Work assignments have ranged from investigating turbine foundation micro-movements to acting on review boards for major Canadian utilities. Developed software for RETScreen™ and HydroHelp. (www.hydrohelp.ca)

Thirty-eight years with Montreal Engineering Co. Ltd. (Monenco, now AMEC) on feasibility and detailed design of hydropower projects located in Canada and over 15 other countries, requiring extensive overseas travel, and knowledge of local construction practice. Projects ranged in size from 600 kW to over 1800MW, with heads from 5m over 800m. Was chief design engineer for 6 projects which received awards for excellence in design from the Association of Consulting Engineers of Canada. During last 9 years was Vice-President Hydro, responsible for all design aspects of hydropower work undertaken by Monenco.

AWARDS

Rickey Gold Medal (1989) from the American Society of Civil Engineers “for outstanding contributions to the advancement of hydroelectric engineering...” Elected Fellow (1989) by the Canadian Society for Civil Engineering in “recognition of his excellence in engineering.” Canadian Electricity Association Distinguished Service Award (1999) for “his contributions to the hydropower industry and the engineering profession...and the knowledge he shared through numerous workshops and technical papers”.

PUBLICATIONS

Authored or co-authored 82 papers and 41 articles on a large variety of subjects ranging from submergence at intakes to powerhouse concrete volume, cavitation in turbines, generator inertia and costing of hydropower projects. Author, Chapter 7 “Facilities guidelines and case studies” in Hydropower Engineering Handbook (McGraw-Hill, 1990), and of “Lessons learned” column in Hydro Review Worldwide (HRW).

SEMINARS

Invited speaker at 26 seminars on hydropower discussing subjects such as penstock design, cost estimating, dam safety, detailed design, project layout and hydro mechanical equipment selection.

REGISTRATION Association of Professional Engineers of Ontario.

ASSOCIATION MEMBERSHIPS

Canadian Society for Civil Engineering. Engineering Institute of Canada. Canadian Dam Association.

LANGUAGES English, Spanish. For a more detailed bio email jim-gordon@sympatico.ca