



The Engineering Institute of Canada

Fellow Citation - 2004

M. Ralston E. MacDonnell – Membre de la Société canadienne de génie civil

Monsieur MacDonnell a obtenu un premier diplôme en génie ainsi qu'un baccalauréat en sciences de l'Université Saint Mary's, pour ensuite un baccalauréat et une maîtrise en génie à la « Technical University of Nova Scotia ». Il a ensuite suivi de nombreux cours de perfectionnement en gestion et en technologie de l'information. Il est présentement président de « MacDonnell Group Consulting Limited » et de ses compagnies membres, dont Vaughan Engineering.

Mr. MacDonnell has wide ranging experience in engineering projects in the transportation sector including marine developments; environmental management, water supply and waste management, and in the construction management for these disciplines including major building projects. One of Mr. MacDonnell's professional accomplishments is the ability to blend his professional engineering practice as a consultant with the results of university research. This has resulted in the first highway bridge in the world to be built with a steel-free concrete deck, which was constructed over the Salmon River in Nova Scotia in 1995. This was followed soon after by the construction of a wharf in Hull's Harbour, Nova Scotia, which utilized advanced composite materials in ways that were new to wharf design.

Mr. MacDonnell is vitally interested in the development and construction of civil engineering structures utilizing composite materials. This interest can be seen by his involvement with university and research institutes such as the following:

- *Advanced Composite Materials in Bridges and Structures Network*
- *Advanced materials Engineering Centre*
- *Nova Scotia Advanced Technology Collegium*
- *Nova Scotia Innovation Corporation*
- *Nova Scotia Research Foundation*

He has been and is, active as a member of the Boards of these companies, and as Chairman. It is interest and commitment such as this that results in research and innovation that improve the materials and processes used in engineering, and finally benefits society at large. The EIC joins others in recognizing this pioneering work of Mr. MacDonnell.

In addition to his busy corporate and engineering life, Mr. MacDonnell is deeply involved with engineering associations, both regionally and nationally, which includes being vice-chairman of ISIS Canada, National Centre of Excellence. He is also Chairman of the Board for the Nova Scotia College of Art and Design, and Chairman of the Board of the Sacred Heart School in Halifax.

Mesdames et messieurs – nous rendons hommage à un ingénieur doué et imaginatif qui s'est consacré à l'avancement du génie et de la construction par l'utilisation d'une nouvelle génération de matériaux composites avancés – en lui conférant le titre de « Fellow » de l'Institut canadien des ingénieurs.

Monsieur le président – M. Ralston E. MacDonnell