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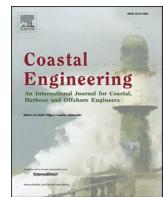
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## In memoriam Bill (Jan Willem – John William) Kamphuis

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The International Coastal Research and Engineering Community mourns the passing of Prof. Dr. J.W. (Bill) Kamphuis on October 30, 2023, at the age of 85 years at the Providence Care Hospital in Kingston, Ontario, surrounded by his family. He leaves behind his beloved wife Nelly and his daughters Vicki and Melanie. Bill was just 13 years old when his parents decided to leave Vollenhove, the Netherlands, and emigrate to Canada. He met Nelly in Canada, whose Dutch family had also emigrated to Canada.

Bill, obviously a brilliant student, received his BSc, MSc, and PhD from Queen's University, Canada, and obtained his Diploma in Hydraulic Engineering at Delft University of Technology International Course (IHE), the Netherlands. In Canada, he started his professional career as a Research Officer with the National Research Council and Lecturer with Carleton University. Bill joined the Department of Civil Engineering at Queen's University in Kingston, Canada, in 1968. His academic career flourished in Canada as he became a Professor of Coastal Engineering and he built an impressive national and an international reputation in the field. He has taught courses in Coastal Engineering, Hydrodynamics of Coasts and Estuaries, and Water Waves. In recognition of his teaching excellence he was a recipient of the Queen's Engineering Society Golden Apple Award. Bill served a three-year term as Associate Dean (Research) in the Faculty of Applied Science. He

chaired the Computing Committee, was a member of the Advisory Research Council and the Douglas Library Renovation and Building Committee and was a member of the Professional Engineers of Ontario.

While his Canadian academic career flourished, Bill kept in close touch with his Dutch roots. He dropped in occasionally and casually in the De Voorst branch of Delft Hydraulics during his family visits in nearby Vollenhove to check what was going on in coastal engineering there and to give his well-received advice. In the years to follow he could create some sabbatical freedom to spend time at Delft University of Technology and at Delft Hydraulics, where he, amongst others, worked on his lasting contribution to the field "Introduction to Coastal Engineering and Management", a handbook one will find on many desks of universities and consultancies.

Bill, together with Tony Bowen and Rob Holman, connected the Canadian research in the field with that in the USA resulting in very productive relationships. He was a highly respected participant and speaker at the global International Conferences on Coastal Engineering (ICCE), organised by the American Society of Civil Engineers (ASCE) of which he was a life-time member. He served on the Coastal Engineering Research Council (CERC) of ASCE for 20 years (1992–2012) guiding the direction of ICCE, reviewing abstracts, and selecting papers for presentation. Bill received the International Coastal Engineering Award for outstanding leadership and development in the field of coastal engineering in 2006.

Many of Bill's seminal contributions to coastal engineering revolved around physical, empirical, and numerical modelling of longshore sediment transport (including wave transformation, wave breaking, bottom shear stresses, swash motion, and impacts of coastal structures on transport and morphology change). Of the many contributions Bill made, one illustrates both the depth of his research and the breadth of his analysis of the profession. Bill was asked to investigate the issue of the stability of temporary circular dredged islands in the Beaufort Sea just before the frost would set in. He performed a series of experiments at Queen's and intensely analysed the results. Based on dimensional

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analysis he investigated the dependence of the longshore sediment transports on the relevant variables. One of his very interesting results was that beach slope and grain diameter were not independent variables, in fact the dependency pointed at cancellation of the two effects. This result could finally explain why the famous CERC formula for longshore transport developed long before did not include these variables. He shared his physical modelling expertise to advise the US Army Corps of Engineers in the development of the Large-Scale Sediment Transport Facility.

The broadness of his views became clear as Bill matured in the world of consultancy. He always stressed the role of being an engineer, as an engineer you solve problems! On many of his contributions to the ICCE and IAHR Conferences he lifted discussions to a high level of understanding and advice to his younger colleagues. In recent years, Bill continued to attend conferences to give invited lectures and to help teach and inspire students. As examples, he delivered many guest lectures over the past decade in undergraduate classes at Queen's and the University of Ottawa and gave a keynote lecture to the Young Coastal Scientists and Engineers Conference – Americas at Queen's in 2016. He stressed the importance of understanding and designing for climate change long before it was widely accepted.

Many of us have been deeply influenced by his exceptional physical

intuition, broad vision, and warm and supporting personality. Bill leaves a great legacy in coastal engineering through his scientific work, through his undergraduate and graduate students, and through his leadership in numerous national and international scientific organisations, academic research assessments, and advisory committees.

#### CRediT authorship contribution statement

**Ryan P. Mulligan:** Writing – original draft, Writing – review & editing. **Jane McKee Smith:** Writing – original draft, Writing – review & editing. **Marcel J.F. Stive:** Writing – original draft, Writing – review & editing.

#### Declaration of competing interest

The authors declare that they have no known competing financial interests or personal relationships that could have appeared to influence the work reported in this paper.

#### Data availability

No data was used for the research described in the article.