

Bridge Analysis, Design and Structural Health Biographies

March 27 to 29, 2017
Smart Park Event Centre

Baidar Bakht, C.M, D.Sc., P.Eng. – *Adjunct Professor – University of Manitoba*



Currently Adjunct Professor of civil engineering at the University of Manitoba, Canada, Baidar Bakht retired from the Ontario Ministry of Transportation (MTO), Canada, in 1997 as its Principal Research Engineer. He has been involved in the writing of bridge design codes since 1976, and was the chair of the Technical Committee of the first edition of Canadian Highway Bridge Design Code, published in 2000.

With a D.Sc. from London University, Baidar Bakht has written and edited several books on various aspects of bridge engineering, including 'Bridges: analysis, design, structural health monitoring' (Springer International Publishing, Switzerland). His many publications in bridge engineering include those dealing with bridge analysis, structural health monitoring, soil-steel bridges, timber bridges and the use of fibre reinforced concrete in bridges. During his tenure with MTO and later, he has monitored the performance of least two hundred well-instrumented highway bridges. In 2014, he was appointed as a member of the Order of Canada.

Aftab A. Mufti, C.M. Ph.D., P.Eng., FRSC, FCAE, FEIC, FCSCE, FASCE, FISHMII, FIFCC, FIABSE, FRSA – *Scientific Director – SIMTReC / Emeritus Professor – University of Manitoba*



Dr. Aftab A. Mufti is an Emeritus Professor of Civil Engineering at the University of Manitoba, Winnipeg, Manitoba, Canada. He is also the former Scientific Director and President of the Innovative Structures with Intelligent Sensing Canada Research Network, a Network of Centres of Excellence. His research interests include FRPs, FOSs, FEM, bridge engineering, Structural Health Monitoring (SHM). At the University of Manitoba he introduced new research area of Civionics Engineering to monitor deteriorating infrastructure. He has authored or co-authored 5 books, plus provided chapters for 2 others, edited 9 books, and written more than 350 technical publications. Dr. Mufti is the recipient of 24 awards. He is the holder of several patents on the steel-free bridge deck concept, of which he is the principal developer. He has been involved in the writing of bridge design codes since 1992, and was the Chair of the Technical Sub-Committee on the Fibre Reinforced Structures of the Canadian Highway Bridge Design Code, published in 2006. He is a fellow of 9 societies. On November 2013 he was elected as a Fellow of the Royal Society of Canada (FRSC) and on July 1, 2010 he was appointed as a Member of the Order of Canada, highest civilian honour bestowed on Canadian citizens, for his contribution to and leadership in the field of civil engineering, notably for researching the use of advanced composite materials and fibre optic sensors in the construction and monitoring of bridges and other infrastructures.

Huma Khalid, Ph.D. – *Post Doctoral fellow –University of Manitoba*



Dr. Huma Khalid is a Post-Doctoral Fellow at the University of Manitoba, Winnipeg, Manitoba, Canada. She did her PhD from Imperial College, London, United Kingdom in the field of Computational Mechanics in 2012. Prior to joining U of M She spent four years as a faculty member at NED University of Engineering & Technology, Karachi, Pakistan. Her research is focused on Numerical Modelling of Reinforced Concrete Structures. Current research includes Bridge Weighing in Motion (BVIM), Lateral Buckling of Pony Truss Bridge and Advanced Nonlinear Finite Element Analysis. She is an active member in major societies such as American Society of Civil Engineers and American Concrete Institute.