

BRIEF BIO

Bill Ralph grew up in North Bay, Ontario, Canada where it can be very cold, and has always been interested in mathematics, music and art. He spent three years in Toronto studying piano and composition before switching to mathematics at the University of Waterloo where he obtained a Ph.D. in Algebraic Topology. He is currently on the mathematics faculty of Brock University in St. Catharines Ontario where he helped design the MICA program which is a new approach to the teaching of mathematics using technology. Several years ago, he was commissioned to design a piece of multimedia software to teach calculus and moved to San Francisco to create the CD that is now called "Journey Through Calculus" which has been shown at universities across the world. While studying the behaviour of certain chaotic dynamical systems, Professor Ralph became interested in exploiting their complexity to create the visual art which has been exhibited in several solo shows. He is also interested in financial mathematics and some of his research can be found at www.portfoliomath.com. Recently, he was asked to go to Papua New Guinea where he joined an international team to help a university set up a new undergraduate program in mathematics.