

Geoffrey Evans

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Professor Geoffrey Evans has been actively involved in fundamental and applied research into multiphase systems over a number of years. During that time he has focused his efforts on a wide range of topics which have concentrated on free surface phenomena and phase interaction between gas (bubbles), solid (particles) and liquid (droplet) phases. Specifically, the research has focused on bubble formation and growth, bubble nucleation, bubble breakup and coalescence, two phase flow, mixing and agitation, emulsions, and plunging and submerged jets. More recently, his research has included surface forces, particle-particle and bubble-particle interactions, as applied to a number of particle technology applications, such as fluidized bed reactors, bubble columns, and flotation cells. The research has involved a combination of experimental measurement, theoretical modelling and computational fluid mechanics, and has been applied to a number of practical applications. In all cases, the outcomes of the work, has been underpinned by firstly understanding the interaction between the phases present and the constraints applied due to the process configuration. Most of his current research deals with the water, mineral and pyro-metallurgical processing, and process industries.