

Supporting Information

A Non-Invasive Differential Pressure Technique for Bubble Characterization in High-Temperature Opaque Systems

Zhuotong Sun^{1,a}, Brett Parkinson^{1,a}, Oluseye O. Agbede², Klaus Hellgardt^{1,*}

¹ Imperial College London, School of Chemical Engineering, Kensington, London SW7 2AZ, United Kingdom

² Department of Chemical Engineering, Ladoke Akintola University of Technology, P.M.B. 4000, Ogbomoso, Nigeria

^aCo-first authors

* E-mail: k.hellgardt@ic.ac.uk

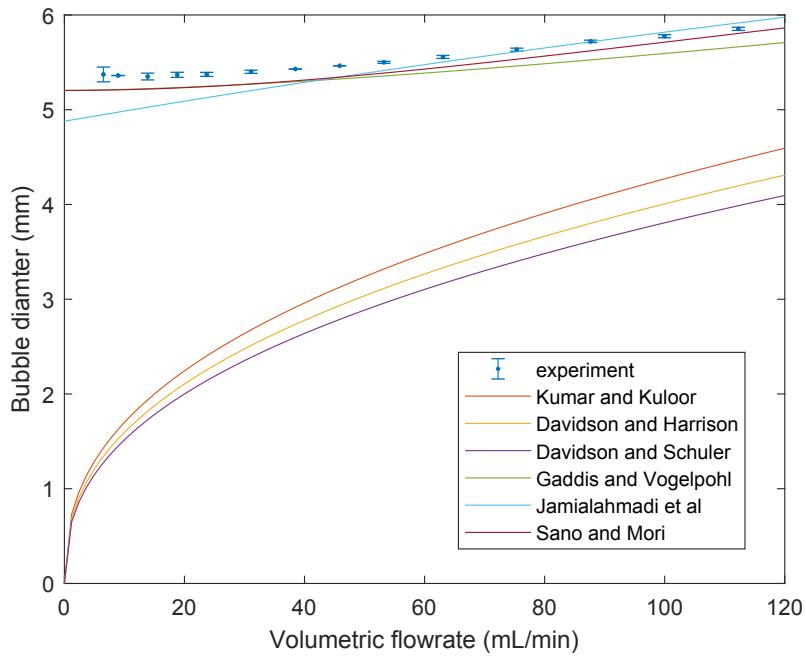


Figure S1: Measured helium bubble size in molten tin at 400 °C using a 3 mm O.D. 1 mm I.D. quartz U-tube injector submerged 50 mm compared with literature correlations

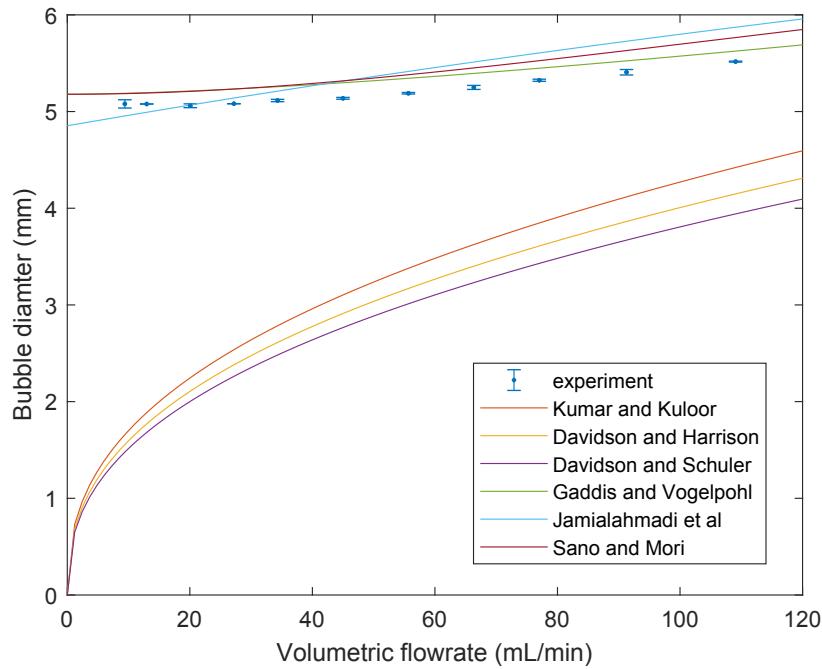


Figure S2: Measured helium bubble size in molten tin at 400 °C using a 3 mm O.D. 1 mm I.D. quartz U-tube injector submerged 50 mm compared with literature correlations

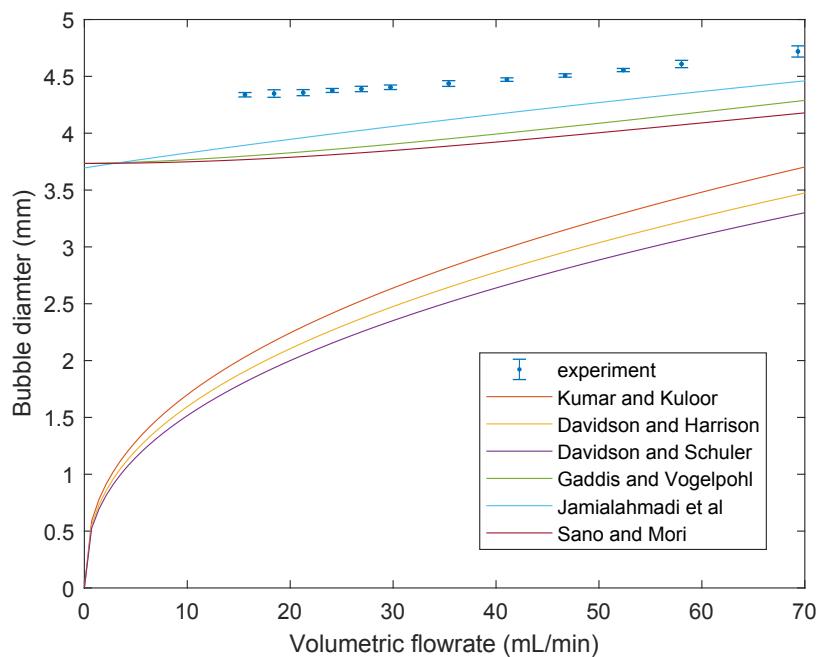


Figure S3: Measured helium bubble size in a eutectic mixture of molten LiCl-KCl (59-41 mol% LiCl-KCl) at 400 °C using a 3 mm O.D. 1 mm I.D. quartz U-tube injector submerged 50 mm compared with literature correlations.

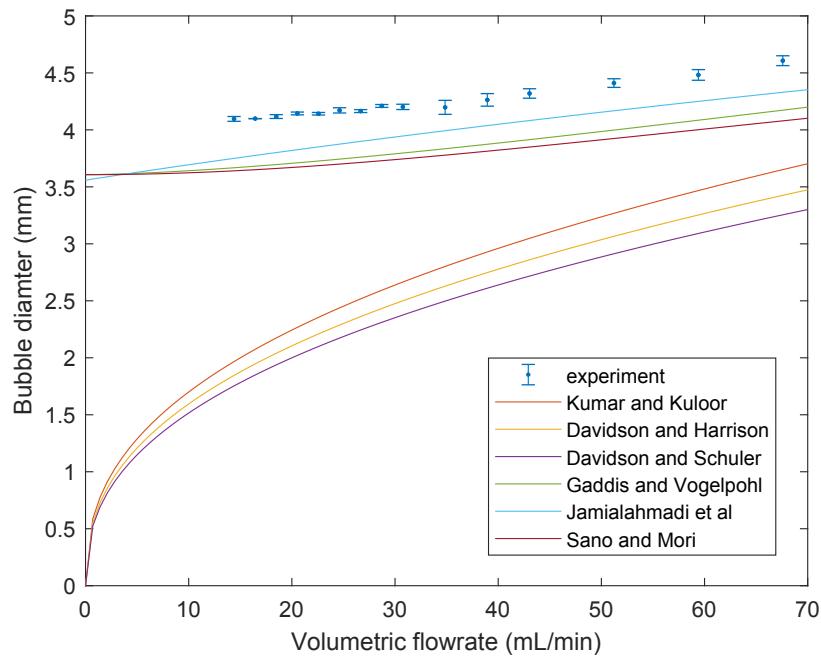


Figure S4: Measured helium bubble size in a eutectic mixture of molten LiCl-KCl (59-41 mol% LiCl-KCl) at 700 °C using a 3 mm O.D. 1 mm I.D. quartz U-tube injector submerged 50 mm compared with literature correlations.