To whom it may concern,

Please find enclosed a manuscript for your consideration. The paper is titled 'A Strained Silicon Cold Electron Bolometer using Shottky Contacts' and details results our study of the strained silicon Cold Electron Bolometer (CEB). This is a novel type of detector with a wide range of applications both in sub-millimetre astronomy as well as Earth-based. This manuscript details the operational concepts behind this detector, as well as the optical testing of this type of detector, from which we deduce its sensitivity. Should this manuscript be accepted for publication it will be the first paper to present optical measurements of such a detector at any wavelength. This paper should interest those working in the fields of: detector development, sub-millimetre and terahertz instrumentation as well as those working with low temperature electron coolers.

The work is collaborative effort between: Mr Tom Brien, Professor Peter Ade, Mr Peter Barry, Mr Chris Dunscombe, Dr Dmitry Morozov and Dr Rashmi Sudiwala of Cardiff University (UK); Professor Philip Mauskopf jointly of Cardiff University and Arizona State University and Professor Terry Whall, Professor Evan Parker and Dr Martin Prest of the University of Warwick (UK).

I look forward to your feedback and will be delighted to answer any questions which you might have.

Yours Faithfully,
Tom Brien