

Professor Dame Celia Hoyles DBE, Institute of Education

The potential and challenges for mathematics teaching & learning in the digital age

Day 1 – Keynote Speaker II (13.30-14.30)

There is widespread acceptance that mathematics is important, even vital, for an individual and for society. Those who disagree tend to argue that the subject is boring and irrelevant. It is therefore crucial that mathematics teaching strives to engage all learners at all levels, but without sacrificing the rigour of the subject. In this talk, I will argue that one way to achieve both rigour and broader access to mathematics lies with using appropriately designed digital technology.

Celia Hoyles has been Professor of Mathematics Education at the Institute of Education, University of London since 1984, following teaching in London secondary schools. She was awarded a first class honours degree in mathematics from the University of Manchester and holds a masters and doctorate in mathematics education. She was the U.K. Government's Chief Adviser for Mathematics, 2004- 7, and the Director of the National Centre for Excellence in the Teaching of Mathematics, 2007-13. She was the first recipient of the Royal Society Kavli Education Medal in 2011 and was awarded an OBE also in that year. In 2014, she was made a Dame Commander of the Order of the British Empire.