

# Those Magic Moments when you realise you could not do this with chalk!

**D. Butler**

ICT Training Centre, Oundle, UK

[debutler@argonet.co.uk](mailto:debutler@argonet.co.uk)

Workshop Proposal for the ACDCA strand

## **ABSTRACT**

We have all be watching the evolution of teaching mathematics with ICT support for a number of years. Every now and again I think back to how it was in the chalk days, and whether we were effective or not.

My feeling is that we were probably very effective with the more able students, but that ICT has enabled us to be considerably more effective and motivational with the less able.

This workshop will give an opportunity to look at a number of lesson plans from this point of view. At the junior level: the straight line, parabolas, transformations and data handling. At the advanced mathematics (calculus: differentiation and integration, differential equations, 2D and 3D vectors, probability).

We will try to concentrate on those moments where the ICT contribution can be considered to have materially improved the chances of the students visualising what is going on. There will be time to discuss each one.

The workshop will use the software Autograph, but most of the examples could equally well be run in other software environments.

## **Keywords**

Dynamic software - Coordinate Geometry - Statistics and probability - Autograph - Motivation