

FACULTY OF EDUCATION, UNIVERSITY OF CAMBRIDGE  
EASTER TERM 2007

## CAMBRIDGE COLLOQUIA IN MATHEMATICS EDUCATION

Monday 14th May 2007 at 5.30 p.m., Room 205, Mary Allan Building, Hills Road

Dr Sara Hennesy and Rosemary Deaney, University of Cambridge

### DESIGNING AN INTERACTIVE DVD-ROM TO PORTRAY A CASE STUDY OF TEACHER MEDIATION OF TECHNOLOGY-SUPPORTED GRAPHING ACTIVITY

This presentation reports the outcomes of a 'T-MEDIA' Project case study employing digital video to explore teacher mediation of learning about straight line graphs supported by projection technology. Our primary aim was to illuminate effective pedagogy by collaboratively analysing six lesson observations with teachers. The work culminated in design of a dissemination DVD-ROM that characterises the key strategies emerging. We will show how the teacher blended and exploited a wide range of technological resources and activities for whole class, pair and individual activity. Feedback will be sought on our draft material for the DVD-ROM.

Monday 18th June 2007, 3.00 p.m., Room 205, Mary Allan Building, Hills Road

Professor Jo Boaler, University of Sussex

### PROMOTING 'RELATIONAL EQUITY': THE CASE OF RAILSIDE SCHOOL.

In this talk I will report the results from a four-year longitudinal study of approximately 700 students as they progressed through three American high schools offering different teaching approaches. One of the findings of the study was the incredible success of "Railside" school where students learned more, enjoyed mathematics more and progressed to higher mathematics levels. At Railside school the teachers also worked to promote equity, with some very interesting results, including the development of a mathematical classroom culture that I have described as 'relational'. In this talk I will provide evidence of the students' understanding, show a video of some of the teaching, and provides detailed analyses of the ways that the teachers brought about high and equitable achievement.

Tea and coffee will be available before each meeting. All are very welcome.

For directions to the Mary Allan Building and any other information, contact  
Tim Rowland at [tr202@cam.ac.uk](mailto:tr202@cam.ac.uk)