

FACULTY OF EDUCATION, UNIVERSITY OF CAMBRIDGE  
LENT TERM 2006

## CAMBRIDGE COLLOQUIA IN MATHEMATICS EDUCATION

Monday 30th January 2006 at 5.30 p.m., Room 205, Mary Allan Building, Hills Road

Dr Orit Zaslavsky, Technion – Israel Institute of Technology, Haifa

### TEACHERS' CHOICE AND USE OF MATHEMATICAL EXAMPLES

This talk will focus on the initial findings of the first year of a three year study examining how secondary mathematics teachers select and use examples in their classrooms. The main purpose of the study is to characterize some aspects of teachers' use of instructional examples and to identify elements that reflect their mathematical and pedagogical knowledge. Some of these elements may be attributed to their indirect learning either from their practice or from professional development activities in which they have been involved.

Monday 6th March 2006 at 5.30 p.m., Room 205, Mary Allan Building, Hills Road

Zsolt Lavicza, Faculty of Education, University of Cambridge

### A COMPARATIVE INVESTIGATION OF THE INTEGRATION OF COMPUTER ALGEBRA SYSTEMS INTO UNIVERSITY MATHEMATICS TEACHING

Computer Algebra Systems (CAS) are increasing components of university-level mathematics teaching. However, little is known about the extent of CAS use and the factors that influence its integration into the undergraduate curriculum. In my talk, I shall share my findings on the CAS-related beliefs and teaching strategies of 22 mathematicians in three countries, Hungary, UK, and US. In addition, I shall discuss the design and development of a large-scale, international, web-based survey study, which will further investigate university mathematics lecturers' conceptions of CAS-assisted teaching and the current use of CAS in tertiary mathematics

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

For directions to the Mary Allan Building (CB2 2PH) and any other information, contact Tim Rowland at [tr202@cam.ac.uk](mailto:tr202@cam.ac.uk)