

## **Knowledge Bases for Mathematics Teaching**

What kinds of knowledge of mathematics 'content' does a teacher need to know in order to teach mathematics well? In the UK, official attention has focused on what Shulman has called 'subject matter knowledge', and recognition of the complexity and significance of the pedagogical dimension remains weak, under-appreciated and underdeveloped at all phases of education. In this seminar, I hope to provoke discussion of the knowledge bases for mathematics teaching, at all phases of education, from primary to tertiary, and how these might be addressed in undergraduate mathematics courses and in initial and continuing teacher education. I shall draw on data mainly from the UK, but will welcome examples from teachers' classroom practice from elsewhere.