The Mathematics Study Centre in the School of Mathematical Sciences, UTS, warmly invites you to this seminar:

**Issues in teaching mathematics at university level: Engineering Students Understanding Mathematics (ESUM)**

Presented by UTS Distinguished Visiting Scholar Professor Barbara Jaworski, who is Head of the Mathematics Education Centre and Professor of Mathematics Education at Loughborough University, UK.

**Date:** Monday 7th July 2014  
**Time:** 3.45 for tea/coffee, 4pm – 5pm seminar. (Optional informal dinner at own expense at 6.30pm in nearby restaurant.)  
**Venue:** CB06.04.37 (Building 6, same level as the pedestrian bridge over Harris Street from building 1.) UTS City Campus, Broadway

**Abstract**

I work in a Mathematics Education Centre in which one of our research focuses is the teaching and learning of mathematics at university level. I will sketch out some of our research projects in this area and then focus on the ESUM Project. This was an innovation in mathematics teaching in which we sought ways of enabling engineering students to develop their conceptual understandings of mathematics in contrast with the procedural approaches they experienced in schools. The project involved developmental research – that is research which both contributes to development and also charts developmental progress and outcomes. I will highlight practices, processes, issues and constraints.

**About the speaker**

Barbara Jaworski is Professor of Mathematics Education in the Mathematics Education Centre at Loughborough University and Doctor Honoris Causa at the University of Agder, Norway. She was formerly Professor of Mathematics Education at the University of Agder and before that a Reader at
the University of Oxford. She has a career that spans mathematics teaching at secondary level and first year university level, teacher education at secondary level, and teaching and supervision of doctoral students. Her research has been mainly into the development of mathematics teaching through research and through partnerships between teachers and teacher educators or didacticians. She was for six years Editor in Chief of the Journal of Mathematics Teacher Education. She is currently President of PME, the International Group for the Psychology of Mathematics Education. Her research currently is into the development of mathematics teaching at the university level.

Please RSVP to Mary.Coupland@uts.edu.au for catering.