

THE INSTITUTE OF MATHEMATICS AND ITS APPLICATIONS



FOURTH CONFERENCE ON **Mathematical Education of Engineers** 1st – 3rd April 2003, Loughborough University

FIRST ANNOUNCEMENT AND CALL FOR PAPERS

Conference Objectives

The first three conferences “Mathematical Education of Engineers” held at Loughborough provided an overview of the then current general education background relevant to the teaching of mathematics to engineers. Within this forum, mathematics teachers from a wide variety of higher educational institutions together with engineering colleagues and participants from industry were able to discuss issues such as decreased teaching time, increased numbers of students, improved quality assurance, relevance of topics in the syllabus and the maintenance of both university and professional standards. Since the 1994 conference some important reports have been published. These include the Engineering Council’s revisions to its SARTOR requirements, which makes strong reference to the level of competence in mathematics expected within the training of engineers, and “Engineering Mathematics Matters”, published by the IMA and taking into account the views of a number of Engineering Institutions, which sets out a proposed core curriculum in mathematics for engineering undergraduates. In addition, the report “Measuring the Mathematics Problem” presents some of the general concerns about the mathematical ability of students entering tertiary education. Since the last conference the HE sector has been involved with Subject Review (QAA), Benchmarking, Programme Specifications and student intake changes arising from the introduction of A/S and revised A-level qualifications.

This conference aims to reflect the progress and experiences of initiatives within the teaching of mathematics to engineers in recent years, to debate areas of known concern and to learn together from current best practice. A further key aim is to examine collectively as mathematicians, academic engineers and engineers in industry the engineering mathematics provision for the future in the context of ever-increasing demands of competence, effectiveness, quality and relevance. The programme will include invited speakers, contributed papers (or posters), workshop sessions, demonstration sessions and a forum.

Registering an interest

The programme will include invited speakers, contributed papers (or posters), workshop sessions and a forum. Informal enquiries can be made by e-mail to L.R.Mustoe@lboro.ac.uk or stephen.hibberd@nottingham.ac.uk. Please register your interest by contacting Belinda Morris, Conference Office, IMA, Catherine Richards House, Southend-on-Sea, Essex SS1 1EF, tel 01702 356110, email conferences@ima.org.uk, indicating whether you would like to present a paper or display a poster, or contribute to a workshop session.

Call for Papers

Contributed papers will be accepted on the basis of an abstract (300-500) words), which should be submitted to the Conference Office, preferably electronically, by **12 December 2002**. Updated information can be found at <http://www.ima.org.uk/mathematics/confeducation.htm>

The proceedings of this conference will be published by the IMA

This event will meet the requirements of the IMA Continuing Professional Development Scheme.