

MEI

MEI Conference July 2006

‘Teaching Advanced Mathematics’ Programme

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Workshop C8

Teaching Advanced Mathematics:
Post-Graduate Certificate in
A Level Mathematics Pedagogy

Bernard Murphy
MEI

“Making Mathematics Count”

- The shortage of specialist mathematics teachers teaching mathematics is the most serious problem we face in ensuring the future supply of sufficient young people with appropriate mathematical skills. We think it likely that there is a current shortfall of around 3,400 specialist mathematics teachers in maintained secondary schools in England. We also note a recent survey finding that over 30 per cent of those currently teaching mathematics do not have a post A-level qualification in mathematics.

Aims of the programme

- To improve the mathematical knowledge of teachers who are not mathematically trained.
- To increase their awareness of A Level related pedagogy.
- To increase the number of teachers able to teach A Level mathematics.

Course Structure

- 17 months, part-time.
- Web-based learning of 6 AS/A2 modules.
- Seven days of university-based workshops focussing on knowledge and pedagogy.
- In-school teaching experience.
- Assessment: Essays and portfolio.

University workshops

- Introductory day in September.
- Warwick
- LSBU
- MMU
- West Sussex (Chichester)

Other support

- Web resources and email support
- Applied CPD days
- Drop-in sessions

Focus of web resources

- Teaching Notes
- Interactive resources
- Things to watch out for
- Questions
- Extension
- Scheme of work



School-based teaching

- Equivalent of at least one module or Additional Maths
- Evolving web resources.
- Supportive visits.

The future...

- Gatsby funding until 2008 and evaluation.
- Loughborough and Durham
- DfES and national provision
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