

Mathematics at Leicester

Dr Stephen Garrett

Who am I?

- Lecturer in Applied Mathematics
- Head of Newton House
- Course director: BSc Financial Mathematics, MSc Actuarial Science
- Fluid dynamist

- MSci Theoretical Physics & Applied Mathematics (B'ham 1999)
- PhD Fluid Mechanics (Cambridge 2002)
- Actuary until 2006

Who are we?

- Over 300 undergraduate students
- Over 100 postgraduate students (MSc/PhD)
- 35 permanent lecturers, professors, assistants, secretaries and technicians
- Sit within College of Science and Engineering
- Close links with the MMC

Degrees we run

- BSc/MMath
 - Mathematics
 - Financial Mathematics
 - Computational Mathematics
 - Mathematics with...
 - Astronomy
 - Computer Science
 - Economics
 - Management
 - “With industry” and “year abroad” variations
- MSc
 - Financial Mathematics and Computation
 - Actuarial Science

Our accolades

- Number 1 in National Student Satisfaction Surveys
- Top 10 in all UK league tables
- Top 20 Mathematics department in Europe Excellence rankings

Student support

Academic support

- Traditional lectures
- Workshops
- Online resources
- Individual projects
- Example classes
- Small group tutorials
- Drop-in surgeries
- Peer support

Pastoral support

- House Structure
- Personal tutor system
- Vibrant student community
- University-wide and SU based support systems

Mathematics research at Leicester

- We work on a wide range of problems in both pure and applied mathematics:
 - aperiodic tilings and modelling for crystals
 - flow and turbulence models and simulations
 - finding symmetries
 - pure and applied geometry
 - uncertainty modelling
 - chaos and dynamical systems
 - data mining and computer learning algorithms

Existing outreach activities

- University ambassador scheme (primary, secondary and sixth form)
- Programmes of talks in schools and at the University
- Mathematical Olympiad
- Work experience students
- Master classes
 - Year 10 (April)
 - Potential year 9 in conjunction with RI
- Years 11/12, 2-day conference in June (College of Science & Engineering event)
- Year 10, "Maths at Work" event by Further Maths Support Programme in June/July

What do we want...?

- The opportunity to help you
- To broaden reach of our outreach
- To raise of awareness of mathematics within the population
- To encourage more students to the mathematical sciences
- To encourage early consideration of careers
- Ideas to do better...



University of
Leicester

Thank you for listening.

Questions?