

CURRICULUM VITAE

CAROLINE MARY SERIES

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RESEARCH AREA Hyperbolic three-manifolds, Kleinian groups; dynamical systems.

POSITIONS HELD

1999–2004 EPSRC Senior Research Fellow

1978– Lecturer, Reader (1987), Professor (1992–). Mathematics Department, Warwick

1977–1978 Research Fellow, Newnham College, Cambridge; SRC Research Fellow

1976–1977 Lecturer, University of California, Berkeley

EDUCATION

1972–1976 Harvard University, USA. A.M., Ph. D. Mathematics

Thesis *Ergodic Actions of Product Groups*. Advisor G. W. Mackey, FAAAS

1969–1972 Somerville College, Oxford. B.A. Mathematics First Class

SCHOLARSHIPS AND PRIZES Junior Whitehead Prize, London Mathematical Society (1987); Kennedy Scholarship, Harvard University (1972–74); University Mathematical Prize, Oxford (1972); Mary Ewart Scholarship, Senior Scholar, Somerville College (1969).

SELECTED LECTURES International Congress of Mathematics, Berkeley (1986); Royal Society Meeting ‘Dynamical Chaos’, London (1987); Dame Mary Cartwright’s 90th Birthday (1991); Rouse Ball Lecture, Cambridge (1992); Newton Institute Seminar (1995); Kleinian groups, Osaka, Japan (plenary, 6 lectures) (1998); Inaugural Mary Cartwright Lecture (2000); LMS Forder Lecturer, New Zealand (2003); British Mathematical Colloquium (1981, 1992, 2003); Imperial College Athena Lecturer (2009); Leeds Research Centre Inaugural Lecture (2009); Emmy-Noether-Gastprofessur, Göttingen (2009).

RECENT CONFERENCE LECTURES Once punctured tori, Nara (2000); Kleinian groups and complex dynamics, CUNY (2000); Ahlfors–Bers Colloquium, Storrs, USA (2001); Kleinian groups, Nagoya (2002); Complex dynamics, Kyoto (2002); Dynamics in the complex plane, Holbaek, Denmark (2003); Discrete groups and hyperbolic manifolds, Aberdeen (2004); 3-dimensional Geometry and Topology, Oxford (2004); Geometry and Topology of 3-manifolds, ICTP Trieste (advanced course, 6 hours) (2005); XXth Rolf Nevanlinna Colloquium, Lausanne (plenary) (2005), 2nd William Rowan Hamilton Geometry and Topology Workshop, Dublin (plenary)

(2006), The Heilbronn Institute for Mathematical Research, Bristol (2007); Toulouse Hyperbolic Geometry Workshop (2007); MSRI Teichmüller theory and Kleinian groups (2007); Geometry, topology & dynamics of character varieties, Singapore (2010).

RECENT COLLOQUIA University of East Anglia, Trinity College Dublin (1999); Rutgers, Oxford, King's College London (2000); St Andrews (Athena lecture), Exeter (2001); Newcastle, Leeds, Göteborg (2002); Melbourne, Singapore (2003); Oxford, York (2005); Kent, Sheffield (2006); Leicester (2008); Birmingham (2010).

SELECTED PROFESSIONAL ACTIVITIES

London Maths Society Student Texts Chief Editor 1990 – 2002.

Mathematics Research Letters Editor 1993 – .

J. of Conformal Geometry and Dynamics Editor 2006 – .

London Maths Society Council Member at Large 1989 – 91; International Mathematical Union Representative, Dresden 1998; British Mathematical Colloquium Committee Representative 2003 – 6; Nominations Committee 1999 – 2001, 2007 – 9, Chair 2009 – .

European Maths Society Prize Committee 1999 – 2000; European Congress Scientific Committee 2002 – 4; Scientific Advisory Panel 2003 – 6; Women in Mathematics Committee 2009 – .

Isaac Newton Institute Scientific Steering Committee 2004 – 8. Chair of Correspondents 2009 – ; Management Committee 2009 – .

British Science Association President, Mathematical Sciences Section 2011.

RAE 2008 Pure Mathematics subpanel member.

Advisory Panels Oxford Maths Institute 2002 – ; ICMS Edinburgh Programme Committee 2004 – 5; Imperial College Institute of Mathematical Sciences 2004 – 9 .

EPSRC Mathematics College 1998 – ; Advanced Fellowship Panel 2000, 2004; PhD grant allocation panel 2003; Senior Fellowship Interview Panel 2004.

External examiner Cambridge Part 2, 1996 – 97; Part 3, 1999. PhD external: Jyväskylä, 1995; QMW 2002; Southampton 2003, 2005; ENS Lyon, Singapore, Cambridge 2004; Orsay 2006.

Association of Commonwealth Universities Scholarship Commission Adviser 2007 – .

SELECTED CONFERENCES ORGANISED

2010 Cochair *Geometry, topology and dynamics on character varieties*. IMS, NUS Singapore.

2007 – 9 European Women in Mathematics Organising Committees: *13th General Conference*, Cambridge 2007; *14th General Conference*, Novi Sad 2009.

2006 – 9 Principal organiser, *Warwick Symposium on Low Dimensional Geometry and Topology*. EPSRC £121,775.

2003 Proposer and principal organiser, *Spaces of Kleinian Groups and Hyperbolic 3-Manifolds*. Isaac Newton Institute, July – August 2003. EPSRC/LMS £28,000; EU £26,700.

2001 *Kleinian Groups and Hyperbolic 3-Manifolds*. Warwick, LMS £3700.

1997 (with I. Rivin and C.P. Rourke) *Hyperbolic Geometry and Geometric Group Theory*. David Epstein's 60th Birthday. LMS £5030.

1992 – 93 (with D.B.A. Epstein) *Analytic and Geometric Aspects of Hyperbolic Space*. Warwick and Durham Symposia. EPSRC £60,000.

1989 *Ergodic Theory and Hyperbolic Geometry*. International Centre for Theor. Phys., Trieste.

1988 *European Women in Mathematics 3rd General Conference*, Warwick.

RESEARCH VISITS I HES, Paris (1979); MSRI Berkeley (1979, 1995); Geneva (1980); University of Pennsylvania (1984 – 5); Trondheim (1985); Columbia, New York (1986); Lyngby, Denmark (1990); Institute Math. Science, Stony Brook (1990, 2000); Max Planck Institute, Bonn (1991); CUNY, New York (1993, 1996); Osaka City University (1998); Brown University, USA (1999, 2000, 2001); Toulouse (2006, 2007; Professeur invité 2008); MSRI Berkeley (2007).

PH.D. STUDENTS Ralph Spatzier, 1978 – 83 (Professor, Michigan); Tim Bedford, 1981 – 84 (Professor, Strathclyde); Maria Losada, 1983 – 89; Jack Button, 1991 – 94 (Director of Studies, Selwyn College, Cambridge); Andre Rocha, 1991 – 94; George Skelton, 1997 – 2001; Raquel Agueda (Madrid), 1997 – 2006 ; Irene Scorza, 2000 – 4 (Postdoc, University of Genova); Dan Goodman, 2002 – 6 (Postdoc, neuroscience, ENS Paris); Sara Maloni, 2008 – ; Khadija Farooq, 2009 – .

PUBLIC UNDERSTANDING OF SCIENCE I have given many public lectures on mathematics to schools, undergraduates and the general public. Recent highlights include: London Mathematical Society Popular Lecturer (1999); Maths Association Conference After Dinner Speaker (2003); LMS New Zealand Forder lectureship (2003); public lecture at the BMC Swansea (2007); LMS/IMA Gresham Lecture (2010). I featured in the BBC documentary *The True Geometry of Nature* (1995) and have several times been on Radio 4 (1990, 1992, 2007). I was interviewed by *Mathematics Today* (February 2007) and am on the e-board of the school level online +plus magazine (2008 –). I will be President of the Mathematical Sciences Section of the British Science Association in 2011.

Indra's Pearls is an innovative illustrated book introducing a wide audience to the flavour of research mathematics, with intriguing computer graphics. The book is being used widely as a source for student projects and teaching enrichment and has received many favourable reviews. I have written various other general articles including one in *The New Scientist Guide to Chaos*, Penguin 1992, of which an extract was selected for *The Faber Book of Science*, Ed. John Carey, 1995.

WOMEN IN MATHEMATICS In 1986, I was a founder member of *European Women in Mathematics*, a now well established organisation which aims to support and encourage women mathematicians across Europe. I initiated related activities in the UK including British Women Mathematician's Day, now run by the LMS Women in Maths committee. I have been involved in various recent EWM activity, including setting up the new European Maths. Society Women

in Maths committee, and being on the organising committees of the EWM meetings in Cambridge (2007) and Novi Sad (2009). I am co-vice chair of the EMS Women in Maths Committee. I have written several articles on women in mathematics including *And what became of the Women?* Mathematical Spectrum, 30, 1997/8, and the DNB entry for Dame Mary Cartwright (2004).

UNIVERSITY ENVIRONMENT I was behind the initial formation of an Environment Committee at Warwick University in 2000. Its activities have now greatly expanded and evolved into an integrated part of the University administration. I have been involved in a Climate Change seminar and other similar activities at Warwick, and I continue to sit on the University Environment and Amenities Committee.