



## List B

# Combinatorial staff, research students, lecture courses and seminars at departments in Britain

An asterisk denotes a contact name from whom further information can be obtained.

Under most entries the combinatorial journals currently being taken are listed; a key to the titles is as follows:

A	Aequationes Mathematica	N	Discrete Mathematics
B	Algebra Universalis	O	Discussiones Mathematicae: Graph Theory
C	Ars Combinatoria	P	European Journal of Combinatorics
D	Australasian Journal of Combinatorics	Q	Finite Fields and Applications
E	Biometrics	R	Geometriae Dedicata
F	Biometrika	S	Graphs and Combinatorics
G	Bulletin of the Institute of Combinatorics and its Applications	T	IEEE Transactions on Information Theory
H	Combinatorica	U	Journal of Algebraic Combinatorics
I	Combinatorics, Probability and Computing	V	Journal of Combinatorial Design
J	Design, Codes and Cryptography	W	Journal of Combinatorial Mathematics and Combinatorial Computing
K	Discrete and Applied Geometry	X	Journal of Combinatorial Theory Series A
L	Discrete and Computational Geometry	Y	Journal of Combinatorial

Theory Series B

M	Discrete Applied Mathematics	Z	Journal of Cryptology
a	Journal of Geometry	f	Order
b	Journal of Graph Theory	g	Random Structures and Algorithms
c	Journal of Statistical Planning and Inference	h	SIAM Journal on Discrete Mathematics
d	Linear Algebra and its Applications	i	Utilitas Mathematica
e	Networks		

**UNIVERSITY OF ABERDEEN**

University of Aberdeen, Edward Wright Building, Dunbar Street, Aberdeen,  
AB24 3QY.  
Tel: 01224 272000

***Department of Mathematical Sciences***

Dr J. Sheehan (graph theory, Ramsey theory)

*Lecture courses*

Discrete Mathematics (24 lectures, 2nd year u/g, Dr Crabb)

Graph Theory (24 lectures, 4th year u/g, Dr Crabb)

***Department of Management Studies***

Dr J.D. Lamb\* (graphs, matroids, combinatorial optimisation)

*Current Periodicals*; J, P, Q, T, W

**UNIVERSITY OF WALES, ABERYSTWYTH**

University of Wales, Aberystwyth SY23 3BZ.

Tel: 01970 622753 Fax: 01970 6227777

<http://www.aber.ac.uk/~matwww>

***Department of Mathematics***

Dr. V.C. Mavron\* (designs)

Dr. T.P. McDonough (designs and permutation groups)

Prof. A.O. Morris (Emeritus Professor, representation theory and algebraic combinatorics)

*Visitors*

J.D. Key (May 9-June 25, 2003)

*Research student*

G.Coker (Dr Mavron) (Complete digraphs)

*Lecture courses*

Graphs and Network (24 lectures, u/g, Dr. V. C. Mavron)

Groups (20 lectures, u/g, Dr. T. P. McDonough)

*Current periodicals:* P, U, X, h

**UNIVERSITY OF WALES, BANGOR**

School of Informatics, Division of Mathematics, University of Wales, Dean Street, Bangor, Gwynedd LL57 1UT.

Tel: 01248 382686 Fax: 01248 361429

<http://www.sees.bangor.ac.uk/ma/>

*School of Mathematics*

Dr. M.V. Lawson (automata, languages, semigroups)

Dr. N.W. Rymer (graph colourings, stable assignments)

Dr. C.D. Wensley\* (combinatorial group theory, combinatorial species)

*Lecture courses*

Abstract algebra (25 lectures, 2nd year u/g, Dr. Lawson)

Graphical algorithms (20 lectures, 3rd year u/g, Dr. Rymer)

Combinatorial structures (20 lectures, 3rd year u/g, Dr. Rymer)

*Current periodicals:* none

**BIRKBECK COLLEGE**

Birkbeck College, Malet Street, London WC1E 7HX.

*Department of Statistics*

Tel: 0207 631 6308 Fax: 0207 436 3514

Dr. A. Bowler\* (symmetric designs, combinatorial matrices, permutation groups)

*Research students*

P. Grant-Ross (quasigroups)

A. Philips (non-associative finite-dimensional algebras)

*Lecture courses*

Discrete Methods (11 three-hour lectures, 2nd year u/g, Dr. Bowler)

*Department of Computer Science*

Tel: 071 631 6314 Fax: 071 636 4971

Dr. T.I. Fenner (combinatorial algorithms, probabilistic algorithms, random graphs)

Dr. K. Gibson (cryptography, combinatorial algorithms)

Prof. G. Loizou (combinatorial algorithms)

**UNIVERSITY OF BIRMINGHAM**

University of Birmingham, Edgbaston, Birmingham B15 2TT.

Tel: 0121 414 6581 Fax: 0121 414 3389

<http://www.mat.bham.ac.uk>

***School of Mathematics & Statistics***

Dr. John Bray

Dr. P. Butkovic\* (Combinatorial Optimisation)

Prof. R.T. Curtis (Group Theory, Representation Theory)

Dr. A.D. Gardiner (Graph theory)

Dr. B. Holmes (Group Theory)

Dr. C.W. Parker (Group Theory)

Prof. G.R. Robinson (Representation Theory)

Prof. R.A. Wilson (Group Theory, Representation Theory)

***Research Students***

A. Al-Ghamdi, A. Al-Roqi, J. Bradley, M. van Gans, S. Hendren, S. Lewis, A. Maroti, P. Morey, S. Nickerson, S. Whyte

***Lecture courses***

Coding Theory (22, 3<sup>rd</sup> year, Prof. R.Wilson)

Combinatorial Optimisation (22, 3<sup>rd</sup> year, Dr. Butkovic)

Combinatorics (22, 3<sup>rd</sup> year, Prof. R.Wilson)

Discrete Mathematics (22, 1<sup>st</sup> year, Dr. Parker)

Geometry of Groups (22, 4<sup>th</sup> year, Prof. Curtis)

Representation Theory (22, 4<sup>th</sup> year, Prof. Robinson)

*Current periodicals:* None

**BRUNEL UNIVERSITY**

Brunel University, Kingston Lane, Uxbridge, Middlesex UB8 3PH.

Tel: 01895 274000 Fax: 0189 5203303

<http://www.brunel.ac.uk/depts/ma>

***Department of Mathematical Sciences***

[Mitra, Prof. Gautam](#) (combinatorial optimisation)

[Noble, Dr. Steven](#)\* (graph theory, combinatorial optimisation)

[Krasikov, Dr. Ilija](#) (graph theory, combinatorial number theory, coding theory, orthogonal polynomials)

***Research Students***

Angela Koller (Dr. Noble, The Frequency Assignment Problem)

***Lecture courses***

Discrete Mathematics with Applications (24 lectures, 3rd year u/g, Dr. Krasikov)

Graph Theory with Applications (24 lectures, 2nd year u/g, Dr. Krasikov)

Groups, Fields and Codes (24 lectures, 2nd year u/g, Dr. Noble)

Fundamentals of Mathematics (24 lectures, 1st year u/g, Dr. Noble)

***Working paper series***

Technical Reports of Department of Mathematics (Mrs. A. Wilkes)

*Current Periodicals:* G, h

## UNIVERSITY OF CAMBRIDGE

Centre for Mathematical Sciences, Wilberforce Rd, Cambridge CB3 0WB.  
Tel: 01223 337999 Fax: 01223 337920

### *Department of Pure Mathematics and Mathematical Statistics*

Dr. H.T. Croft (Peterhouse)

Prof. W.T. Gowers (Trinity)

Dr. I.B. Leader\* (Trinity)

Dr. J. Saxl (Caius)

Dr. A. Thomason (Clare)

#### *Fellows*

Dr. B. Bollobás (Trinity)

Dr. B. Green (Trinity)

Dr. L. Pebody (Trinity)

Dr. O. Pikhurko (St. John's)

Dr. O.M. Riordan (Trinity)

Dr. R. Steinberg (Judge Institute)

Dr. M. Walters (Trinity)

Dr. A. Zsak (Fitzwilliam)

#### *Research students*

Mansur Boase (Prof. Gowers)

J.R. Johnson (Dr. Leader)

J.S. Myers (Dr. Thomason)

George Petridis (Prof. Gowers)

P.A. Russell (Dr. Leader)

A.J. Sanders (Dr. Leader)

Peter Wagner (Dr. Thomason)

#### *Lecture courses*

Numbers and Sets (24 lectures, Part 1A, Dr. Leader)

Codes and Cryptography (12 lectures, Part 2A)

Graph Theory (16 lectures, Part 2A, Dr. Thomason)

Combinatorics (16 lectures, Part 2B, Dr. Leader)

Algebraic Methods in Combinatorics (16 lectures, Part 3, Dr. Pikhurko)

Extremal Graph Theory (16 lectures, Part 3, Dr. Thomason)

Ramsey Theory (16 lectures, Part 3, Dr. Leader)

#### *Seminar*

Combinatorics (Thursdays at 2p.m.)

*Current periodicals:*

## UNIVERSITY OF WALES, CARDIFF

Cardiff University, Queen's Buildings, Newport Road, PO Box 916, Cardiff  
CF24 3XF.

Tel: +44 (0)29 2087 4812 Fax: +44 (0)29 2087 4598

<http://www.cs.cf.ac.uk/>

### *Department of Computer Science*

S.M. Allen\* (20876070) (mobile communications, frequency assignment,  
combinatorial optimisation, latin squares)

S. Hurley (20874749) (mobile communications, frequency assignment,

combinatorial optimisation)

R. Whitaker (20876058) (mobile communications, frequency assignment, combinatorial optimisation, latin squares)

*Lecture courses*

Discrete mathematics I (1st year u/g)

Discrete mathematics II (2nd year u/g)

Information Security (3rd year u/g)

Optimisation and Meta-Heuristics (3rd year u/g)

Discrete mathematics (MSc)

## **UNIVERSITY OF DUNDEE**

Dundee University, Dundee DD1 4HN.

### ***Division of Applied Computing***

Tel: 01382 344145 Fax: 01382 345509

<http://www.computing.dundee.ac.uk>

Dr. K.J. Edwards\*(Graph colourings, graph decompositions, complexity)  
(344463)

*Research students*

D. Campbell (Dr. Edwards).

### ***Division of Mathematics***

Tel. 01382 344 471 Fax 01382 345516

<http://www.maths.dundee.ac.uk/>

Sands, Dr. Arthur (Combinatorial problems on finite Abelian groups; retired)

*Lecture course*

Graph theory (27 lectures, 3rd/4th year u/g)

*Current Periodicals:* T, b, d

## **DURHAM UNIVERSITY**

University of Durham, South Road, Durham DH1 3LE.

### ***Department of Mathematical Sciences***

Tel: 0191 374 2349 Fax: 0191 374 7388

Dr. N. Martin\*

## UNIVERSITY OF EAST ANGLIA - NORWICH

University of East Anglia, Norwich NR4 7TJ.

Tel: 01603 456161 Fax: 01603 259515

<http://www.mth.uea.ac.uk/welcome.html>

### *School of Mathematics*

Prof. A.R. Camina (block designs, finite groups) (ext. 592849),

Dr. M. Dzamonja (logic, set theory, infinite combinatorics) (ext. 592981)

Dr. D.M. Evans (permutation groups, automorphism groups of infinite structures) (ext. 592594)

Dr. I.J. Siemons\* (permutation groups, topological and homological methods) (ext. 592578)

Prof. A.E. Zalesskii (group theory, ring theory) (ext. 593710)

### *Research associates*

Dr. Philip Maynard

### *Research students*

C. Kurtz (Dr Siemons/Prof Zalesskii)

E. McFarlane (Dr Camina)

H. Nuebling (Dr Evans)

G. Piper (Dr Dzamonja)

K. Thompson (Dr Dzamonja)

H. Treacher (Dr Siemons)

R. Vincent (Prof Zalesski)

### *Lecture courses*

Discrete Mathematics(2nd year u/g)

Set theory (3rd year u/g in 2002/3)

Linear algebra and linear groups (3rd year u/g in 2002/3)

Infinite permutation groups (4th year, p/g, Dr Evans in 2003/4)

Representation Theory (3rd year u/g, in 2003/4)

Codes and designs (3rd year u/g in 2003/4)

Graph theory (3rd year in 2002/3)

Group theory (3rd year in 2003/4)

Computability (3rd year in 2003/4)

Model theory (3rd year in 2003/4)

### *Visitors*

Prof. V. B. Mnukhin (Suva, Fiji Islands)

## UNIVERSITY OF EDINBURGH

The King's Buildings, Edinburgh EH9 3JZ

Tel. 0131 6505129 Fax: 0131 6677209

<http://www.dcs.ed.ac.uk>

### *Department of Computer science*

Dr. Mark Jerrum\* (combinatorial algorithms, computational complexity, random structures)

### *Lecture Courses*

Algorithms and Data Structures (3<sup>rd</sup> year u/g)

Computability and Intractability (3<sup>rd</sup> year u/g, MSc)

Computational Complexity (4<sup>th</sup> year u/g, MSc, 1<sup>st</sup> year PhD)  
*Current Periodicals:* E, H, M, T, X, Y,

## UNIVERSITY OF ESSEX

University of Essex, Wivenhoe Park, Colchester CO4 3SQ.  
Tel: 01206 873024 Fax: 01206 873598

### *Department of Mathematics*

Dr. P.M. Higgins\* (combinatorics of algebraic semigroup theory)

Tel: 01206 873019 Fax: 01206 873043

Dr. A. Salhi (combinatorial optimisation)

Tel: 01206 873022 Fax: 01206 873043

### *Research students*

P. Catarino, A. Vernitskii (both Dr. Higgins).

### *Lecture courses*

One half of the second year algebra course (20 lectures) is combinatorics.

Combinatorial optimisation (40 lectures, 3rd year u/g)

*Current periodicals:* C, D, K, Y

## UNIVERSITY OF EXETER

University of Exeter, North Park Road, Exeter EX4 4QE.

Tel: 01392 264 464 Fax: 01392 263997

<http://www.maths.ex.ac.uk>

### *Department of Mathematics*

Dr. R.J. Chapman\* (finite fields, coding theory, enumerative combinatorics)

Dr. P.A. Firby (p/t) (distance and heterogeneity in graphs, applications to mathematical biology)

Dr. A.E. Stratton (finite fields, linear recurrent sequences, coding theory and cryptography)

Prof. P. Vámos (representation of matroids)

### *Lecture courses*

Discrete Mathematics (30 lectures, 1<sup>st</sup> year u/g, Robin Chapman)

Graph theory (33 lectures, 3rd year u/g, Peter Firby)

Coding Theory (3<sup>rd</sup> year u/g, Dr. Stratton)

*Current periodicals:* C, D, W

## UNIVERSITY OF GLAMORGAN

University of Glamorgan, Pontypridd, Mid Glamorgan CF37 1DL.

Tel: 01443 482251 Fax: 01443 482711

<http://www.glam.ac.uk/math>

### *Division of Mathematics and Statistics*

Prof. D.H. Smith\* (frequency assignment, network reliability, coding theory)

Dr. S. Perkins (coding theory, synchronization)

Dr. A. Robertshaw (graph theory)



Dr. C.G. Rutherford (matroids, coding theory)

*Lecture courses*

Codes and Information (3rd year u/g, Prof. Smith, Dr. Perkins)

Network flows and reliability (3rd year u/g, Prof. Smith)

Combinatorics (2nd year u/g, Dr. Perkins)

*Current periodicals:* N, T, X, Y, e

## **UNIVERSITY OF GLASGOW**

University of Glasgow, University Gardens, Glasgow G12 8QW.

Tel: 0141 339 8855 Fax: 0141 330 4111

<http://www.maths.gla.ac.uk>

### ***Department of Mathematics***

Dr. I. Anderson\* (designs, whist tournaments)

Dr. S.D. Cohen (application of finite fields)

Dr. S.G. Hoggar (error correcting codes, combinatorics of iterated function systems and fractals)

Dr. E. Spence (algebraic graph theory, combinatorial designs)

*Research student*

L. Ellison (designs, Dr. Anderson)

*Lecture courses*

Combinatorial designs (25 lectures, 4th year u/g, Dr. Spence)

Discrete mathematics (24 lectures, 3rd year u/g, Dr. Anderson)

Graphs and networks (22 lectures, 2<sup>nd</sup> year u/g, Dr. Anderson)

Mathematics of information technology (25 lectures, 4th year u/g, Dr. Hoggar)

Occasional combinatorial seminars

### ***Department of Computing Science***

<http://www.dcs.gla.ac.uk>

Dr. R.W. Irving (combinatorial algorithms and complexity)

Dr. D.F. Manlove (optimisation problems)

*Lecture course*

Algorithms (4th year u/g)

*Research students*

S. Scott (algorithms), D. Abraham (Dr. Manlove)

*Lecture courses*

Algorithms (4<sup>th</sup> year u/g, Dr. Irving)

*Current periodicals:* C, E, F, M, N, O, P, Q, T, V, X, Y, b, c, h, i

## **GLASGOW CALEDONIAN UNIVERSITY**

Glasgow Caledonian University, Cowcaddens Road, Glasgow G4 0BA.

Tel: 0141 331 3609 Fax: 0141 33 3005

### ***Department of Mathematics***

Dr. V. Jha\* (finite geometries)

S. Waters (cryptography).

*Lecture courses*

Galois fields and Cryptography (Mr. Waters)  
*Current periodicals: none*

### **GOLDSMITHS COLLEGE**

Goldsmiths College, University of London, Lewisham Way, London SE14  
6NW.  
Tel: 0207 919 7850 Fax: 0207 919 7853

#### ***Department of Mathematical and Computing Sciences***

Dr. I. Pu\* (combinatorial algorithms, randomized, parallel, probabilistic and  
average case algorithmics)

B. Cosh (graph connectivity)

#### *Lecture courses*

Discrete Mathematics (1st year u/g)

Graph Theory (3<sup>rd</sup> year u/g)

Data Structures and algorithms (2<sup>rd</sup> year u/g, Dr. Pu)

*Current Periodicals: X, Y, b*

### **GOVERNMENT COMMUNICATIONS HEADQUARTERS**

Priors Road, Cheltenham GL52 5AJ.  
Tel: 01242 221491 Fax: 01242 226816  
C.C. Cocks (Chief Mathematician)  
Dr. R.G.E. Pinch\*

### **UNIVERSITY OF GREENWICH**

University of Greenwich, London, SE18 6PF  
Tel: 0208 316 8000 Fax: 0208 855 4033

#### ***School of Maths, Statistics and Computing***

Prof. M.G.Everett (Graph Theory)

Prof. V.A. Strusevich (Scheduling Theory)

#### *Lecture Course*

Graph Theory (3<sup>rd</sup> yr u/g, Prof. Everett)

*Current Periodicals: T*

### **HERIOT-WATT UNIVERSITY**

Heriot-Watt University, Riccarton, Edinburgh EH14 4AS.  
Tel: 0131451 3221 Fax: 0131 451 3249  
<http://www.ma.hw.ac.uk>

#### ***Department of Mathematics***

Dr. A.R. Prince\* (finite geometries, finite group theory)

#### *Lecture course*

Discrete mathematics (45 lectures, 3rd year honours degree, Dr. Prince)

*Current periodicals: E, F, I, c, g, h*

## **HEWLETT-PACKARD LABORATORIES**

Hewlett-Packard Laboratories, Filton Road, Stoke Gifford, Bristol BS34 8QZ.

Tel: 0117 979 9910 Fax: 0117 312 9870

<http://hplbwww.hpl.hp.com/mcs/>

Dr. S. Crouch (cryptography, coding theory, finite algebraic geometry)

*Current periodicals:* T

## **UNIVERSITY OF HULL**

University of Hull, Cottingham Road, Hull HU6 7RX.

Tel: 01482 465885 Fax: 01482 466218

<http://www.hull.ac.uk/math/>

### *Department of Mathematics*

Prof. R. Shaw\* (Emeritus) (finite geometry)

### *Department of Computer Science*

Dr. N.A. Gordon (465038) (finite geometry, computer algebra)

*Current periodicals:* J, P, R, T

## **IMPERIAL COLLEGE**

Imperial College, Huxley Building, 180 Queensgate, London SW7 2BZ.

Tel: 0207 589 5111 Fax: 0207 584 7596

*Department of Mathematics*

Prof. G.D. James, Prof. M. Liebeck, Dr. O. Pretzel\*, Dr. L. White

## **KEELE UNIVERSITY**

Keele University, Keele, Staffordshire ST5 5BG.

Tel: 01782 621111 Fax: 01782 584268

<http://www.keele.ac.uk/depts/ma/math.html>

### *Department of Mathematics*

Dr. D. Bedford\* (583468) (latin squares; designs)

<http://www.keele.ac.uk/depts/ma/people/db.html>

K. Walker (583268) (graphs)

*Lecture courses*

Graph theory (30 lectures, 3rd year u/g, Dr. Bedford)

Discrete mathematics (30 lectures, 3rd year u/g, Dr. Bedford)

*Current periodicals:* E, F, H, S, V, X, Y, b, h

## UNIVERSITY OF KENT AT CANTERBURY

Cornwallis Building, The University, Canterbury, Kent CT2 7NF.

Tel: 01227 764000 Fax: 01227 827932

<http://www.ukc.ac.uk/IMS/>

### *Institute of Mathematics and Statistics*

G.M. Clarke (823280) (non-orthogonal Graeco-Latin designs)

Dr. R. Hughes Jones (823799) (enumerating and constructing polyhedral surfaces)

Prof. P Fleischmann (823654) (algebraic combinatorics, root systems, Mobius function)

Prof. S.C. Pearce (827901) (block designs; row and column designs)

Prof. D.A. Preece\* (827901) (Graeco-Latin designs, nested BIBDs, single-change covering designs, neighbour designs)

D.H. Rees (01243 375250) (non-orthogonal Graeco-Latin designs, nested BIBDs, neighbour designs)

Dr. B.J. Vowden (823649) (Graeco-Latin designs)

Dr. C.F. Woodcock (823803) (orthogonal Latin squares)

### *Lecture courses*

Discrete mathematics (30 lectures, 3<sup>rd</sup> year u/g, Dr. Woodcock)

Computational algebra (30 lectures, 3<sup>rd</sup> year u/g, Prof. Fleischmann)

*Current periodicals:* E, F, T

## UNIVERSITY OF LANCASTER

University of Lancaster, Lancaster LA1 4YL.

Tel: 01524 593960 Fax: 01524 592681

<http://www.maths.lancs.ac.uk>

### *Department of Mathematics and Statistics*

Dr. A.G. Chetwynd (combinatorial applications in statistics)

Dr. R.M. Green\* (combinatorics of Coxeter groups and Hecke algebras, partially ordered sets and heaps of pieces)

<http://www.maths.lancs.ac.uk/~greenrm/>

*Current periodicals:* E, F, T, Y, b, e

## UNIVERSITY OF LEEDS

University of Leeds, Leeds LS2 9JT.

Tel: 0113 3435140 Fax: 0113 3435090

<http://amsta.leeds.ac.uk/pure/index.html>

### *School of Mathematics*

Prof. S.B. Cooper (graph theory, Ramsey theory, finite set systems),

Dr. V.V. Kisil

Prof. H.D. Macpherson\* (permutation groups and related combinatorics),

Prof. J.K. Truss (permutation groups, automorphisms of ordered structures)

### *Research Students*

Katie Chicot (Prof. Truss, symmetry conditions on countable partial orders)

Susana Torrezao de Sousa (Prof. Truss, symmetry conditions on uncountable partial orders)

Silvia Barbina (Prof. Macpherson, homogeneous relational structures and their automorphism groups)

*Lecture courses*

Introduction to Discrete Maths (22 lectures, 2<sup>nd</sup> year u/g, Prof. Cooper)

Graph theory (22 lectures, 3rd year u/g, Prof. Cooper)

Combinatorics (22 lectures, 3rd year u/g, Prof. Macpherson)

Coding theory (22 lectures, 3rd year u/g, Prof. C.Read)

*Working Paper series*

<http://www.amsta.leeds.ac.uk/pure/preprints/leedsprep.html>

***School of Computer Studies***

University of Leeds, Leeds LS6 2HN

Tel. 0113 343 5430 Fax 0113 343 5468

<http://www.scs.leeds.ac.uk>

Dyer, Prof. Martin (algorithms and complexity)

Muller, Haiko (algorithms, graph theory)

Shakhlevich, Natasha (scheduling theory)

Vuskovic, Kristina (graph theory)

*Other researchers*

Cryan, Dr. Mary (Prof. Dyer, algorithms and complexity)

*Lecture course*

Introduction to Algorithms

Theory of computation

Computational graph theory and complexity

Modern issues in algorithmic design

*Research Report Series*

<http://www.scs.leeds.ac.uk/services/reports/reports.html>

*Current periodicals: P, X, Y*

**UNIVERSITY OF LEICESTER**

University of Leicester, University Road, Leicester LE1 7RH.

***Department of Mathematics and Computer Science***

Tel: 0116 2523887 Fax: 0116 2523604

<http://www.mcs.le.ac.uk>

Dr. R.J. Marsh (2525107) (quantum groups, Lie algebras, Weyl groups and related piecewise-linear combinatorics) <http://www.mcs.le.ac.uk/~rmarsh>

Prof. I.A. Stewart (2525356) (finite model theory; complexity theory; pure, applied, and algorithmic

graph theory) <http://www.mcs.le.ac.uk/~istewart>

Prof. R.M. Thomas\* (2523885) (combinatorial group and semigroup theory, automata theory) <http://www.mcs.le.ac.uk/~rthomas>

*Other researcher based in the Department*

Prof. R.O. Davies (retired) (2705002)

*Research students*

R. Bruce (Prof. Stewart) (mobile computing and complexity)  
D. Garnham (Prof. Thomas) (group theory and formal languages)  
T. Hardcastle (Prof. Thomas) (loops and groups)  
M. Hoffmann (Prof. Thomas) (semigroups and automata)  
S.R. Lakin (Prof. Thomas) (group theory and complexity)  
F. Madelaine (Prof. Stewart) (finite model theory)  
A. Puricella (Prof. Stewart) (algorithms and complexity)

*Lecture courses*

Logic and Discrete Structures (48 lectures, 1<sup>st</sup> year u/g, Dr. de Vries)  
Algorithms and Data Structures (36 lectures, 1<sup>st</sup> year u/g, Dr. Measor and Dr. Ghani)  
Pure Mathematics at Work (18 lectures, 1<sup>st</sup> year u/g, Dr. Ault)  
Automata, Languages and Computation (36 lectures, 2<sup>nd</sup> year u/g, Prof. Thomas)  
Design and Analysis of Algorithms (36 lectures, 2<sup>nd</sup> year u/g, Dr. Schmitt)  
Coding Theory (36 lectures, 3<sup>rd</sup> year u/g, Dr. Ault)  
Parallel and Distributed Computing (36 lectures, 3<sup>rd</sup> year u/g, Prof. Stewart)

*Seminars*

The department holds regular seminars (given by internal and external speakers) in Mathematics and Computer Science, including several with a combinatorial theme. Details may be found on the web; see

<http://www.mcs.le.ac.uk/seminars/Seminars.html>

*Technical Reports*

The department has a technical report series, copies of which may be obtained on request. Details are available on the web at:

<http://www.mcs.le.ac.uk/research/publications/Publications.html>

***Department of Psychology***

Tel: 0116 2522170

<http://www.mcs.le.ac.uk/psychology/>

Dr. R.T. Gillett (2522171)

*Current periodicals:* E, F, M, N, P, Q, T, X, Y, b, h

**LONDON SCHOOL OF ECONOMICS**

London School of Economics, Houghton Street, London WC2A 2AE.

Departmental Office

Tel: 0207 955 7732 - 0207 955 6373

Fax: 0207 955 6877

<http://www.maths.lse.ac.uk>

***Department of Mathematics, and Centre for Discrete and Applicable Mathematics***

Prof. Steve Alpern (ergodic theory, game theory, search theory)

Dr. Martin Anthony\* (computational learning theory, neural networks, theory of computing)

Prof. Norman Biggs (algebraic graph theory, history of combinatorics, applications in physics and finance)

Prof. Graham Brightwell (partially ordered sets, random structures)

Dr. Jan van den Heuvel (graph theory, discrete mathematics, applications)

Dr. Bernhard von Stengel (Game theory and Complexity)

*Research Officer*

Dr. Matthew Johnson

*Research students*

Nic Georgiou (Prof. Brightwell) (posets)

Snezana Pejic (Dr. van den Heuvel) (frequency assignment)

*CDAM Research Reports*

<http://www.cdam.lse.ac.uk/Reports/>

Details and reports can be requested from Jackie Everid,  
(info@maths.lse.ac.uk, 0207 955 7732)

***Department of Operational Research***

Tel: 0207 955 7653

Dr. Gautam Appa (orthogonal latin squares, mixed integer programming, robust regression)

Dr. Susan Powell (mathematical programming and combinatorial optimization, operational research)

Prof. Paul Williams (linear and integer programming)

*Lecture courses*

Discrete mathematics (20 lectures, 3rd year u/g, Prof. Biggs)

Combinatorial optimization (20 lectures, 3rd year u/g and M.Sc., Dr. Appa)

Theory of Algorithms (20 lectures, 3rd year u/g and M.Sc., Dr. von Stengel)

Computational learning theory (20 lectures, M.Sc., Dr. Anthony)

*Seminar and Workshop*

Seminar on Discrete and Applicable Mathematics, Thursdays 2:00, Dr. von Stengel

CDAM Informal Workshop, Fridays 3:30, Prof. Brightwell

**UNIVERSITY OF MANCHESTER**

University of Manchester, Oxford Road, Manchester M13 9PL.

Tel: 0161 275 5800 Fax: 0161 275 5819

<http://www.ma.man.ac.uk>

***Department of Mathematics***

Dr. T. Panov (toric varieties and polytopes, Stanley-Reisner rings and simplicial complexes, and subspace arrangements)

Prof. N. Ray\* (umbral calculus, chromatic polynomials, posets of partitions and permutations, permutation matrices, Hopf algebras and quantum

structures, Toric varieties and polytopes)

<http://www.ma.man.ac.uk/~nige/>

Dr. R. Sandling (block designs)

Dr. G. Walker (modular representation theory, symmetric functions, Schur functions, partitions,

Young tableaux, pictures)

*Lecture courses*

Trees and networks (1st year u/g, Prof. Ray)

Coding theory (3rd year u/g, Dr. McCrudden)

Combinatorics (4th year, u/g, Prof. Ray)

Discrete mathematics (2nd year u/g, Dr. Sandling)

Discrete optimization (3rd year u/g, Dr. Sandling)

*Seminar*

Occasional joint combinatorics seminars, in conjunction with Salford

University and UMIST (details from N. Ray)

*Current periodicals:* E, F, P, R, S, U, X, Y

## **UNIVERSITY OF MANCHESTER INSTITUTE OF SCIENCE AND TECHNOLOGY**

UMIST, P.O. Box 88, Manchester M60 1QD.

Tel: 0161 200 3641 Fax: 0161 200 3669

### ***Department of Mathematics***

Dr. A.V. Borovik (matroids and generalisations, Coxeter matroids, Coxeter groups),

Dr. R. Booth\*,

Prof. R.M. Bryant,

Dr. P.J. Laycock,

Dr. P.J. Rowley

*Seminar*

Occasional joint combinatorics seminar in conjunction with Salford University and

Manchester University; details from N. Ray (Manchester)

*Lecture course*

Combinatorics (24 lectures, 3rd year u/g, J. Gilder)

Coding theory (24 lectures, 3rd year u/g, J. Gilder)

Discrete mathematics (24 lectures, 2nd year, u/g, Mr. Gilder)

*current periodicals:* C, D, K, L, N, U

## **UNIVERSITY OF MIDDLESEX**

Middlesex University Business School, The Burroughs, London, NW4 4BT

Tel: 020 8411 6824

### ***Mathematics and Statistics Group***

Dr Thomas D Bending\*, (Bent functions; finite geometrics; lotteries).

David F Jarrett, (Graph Theory applied to traffic modelling)

Dr Patricia Wackrill (Graph theory, traffic modelling, Celtic knotwork)

Prof. Chris Wright (Graph theory, routing on networks)



*Lecture Course*

Discrete Mathematics for Information Systems (1<sup>st</sup> yr u/g)

*Current Periodicals:* F, T, b

## UNIVERSITY OF NEWCASTLE UPON TYNE

Newcastle University, Newcastle upon Tyne NE1 7RU.0

Tel: 0191 222 6000 Fax: 0191 222 8020

<http://www.ncl.ac.uk/mathematics/>

### *Department of Mathematics*

Prof. R.H. Dye (geometry of the classical groups, spreads, ovoids, configurations and their groups)

Dr. A.J. Duncan (combinatorial group theory, one-relator products of groups, decision problems and equations over presentations of groups)

Dr. O.H. King\* (subgroup structure of classical groups, Buekenhout geometries)

Dr. S. Rees (algorithms in group theory and geometry, automatic groups and related classes of groups, connections between group theory and formal language theory)

#### *Research associates*

Dr. M. Batty

Dr. C.H.E.W. Röver

#### *Research students*

S. Fulthorp (Dr. Duncan)

O. Payne (Dr. Rees)

#### *Lecture courses*

Graph Theory (24 lectures, 2nd/3rd/4th year u/g, alternate years, Dr. Duncan)

Coding Theory (24 lectures, 2nd/3rd/4th year u/g, alternate years, Dr. Ford)

Geometries and Designs (24 lectures, 3rd/4th year u/g, alternate years)

*Current periodicals:* E, F, P, R, T, U X, Y, c, d

## UNIVERSITY OF NOTTINGHAM

University of Nottingham, University Park, Nottingham NG7 2RD.

Tel: 0115 951 4949 Fax: 0115 951 4951

<http://www.maths.nottingham.ac.uk>

### *School of Mathematical Sciences*

Dr. D.R. Woodall\* (951 4959) (graph colourings, chromatic polynomials, electoral systems) <http://www.maths.nottingham.ac.uk/personal/drw>

#### *Research students*

T.R. Poole (Dr. Woodall)

R.J. Waters (Dr. Woodall)

#### *Lecture courses*

Introductory Graph Theory (30 lectures, 3<sup>rd</sup> yr u/g, Dr. Anderson)

Combinatorics (30 lectures, 3<sup>rd</sup> and 4<sup>th</sup> year u/g, Dr. Woodall)

Coding and cryptography (30 lectures, 3<sup>rd</sup> year u/g, Dr. Woodall)

## THE OPEN UNIVERSITY

The Open University, Walton Hall, Milton Keynes MK7 6AA.

Tel: 01908 653479 Fax: 01908 653744

[http://brains.open.ac.uk/cfdocs/faculty/Html/Departments/pure\\_maths.cfm](http://brains.open.ac.uk/cfdocs/faculty/Html/Departments/pure_maths.cfm)

### *Faculty of Mathematics and Computing*

Dr. F.C. Holroyd (652327) (fractional and circular graph colourings; graceful and related tree labellings)

R. Nelson (retired) (Ramsey theory)

Dr. K.A.S. Quinn\* (653909) (designs and their applications)

Dr. C.A. Rowley (0207 794 0575) (design of experiments, problems in document science)

Dr. B.S. Webb (653242, 01752 896138) (automorphisms of designs and permutation representation, infinite designs)

Dr. R.J. Wilson (652337) (edge-colourings of graphs, history of combinatorics, spectral graph theory)

#### *Research fellows*

Prof. M.J. Grannell (sec. 653479) (combinatorial design theory, combinatorial computing, Steiner systems)

Prof. T.S. Griggs (sec. 653479) (combinatorial design theory, combinatorial computing, Steiner systems)

(For staff web pages, please go to <http://mcs.open.ac.uk/puremaths/> and click on 'Members'.)

#### *Research students*

G.K. Bennett (part-time, Prof. Grannell, Prof. Griggs and Dr. Webb) (topological design theory)

A.D. Forbes (part-time, Prof. Grannell, Prof. Griggs and Dr. Maenhaut) (configurations and colourings of designs)

P. Garcia (Dr. Wilson) (history of combinatorics)

G. J. Lovegrove (part-time, Prof. Grannell, Prof. Griggs and Dr. Quinn) (automorphisms of designs)

J. Williams (part-time, Dr. Wilson and Dr. Holroyd) (total colourings)

I. Watts (part-time, Dr. Holroyd) (graph homomorphisms, generalisations of graph colourings)

### *Faculty of Technology*

Tel. 01908 652944 Fax 01908 654052

<http://www-tec.open.ac.uk>

Dr. A.K. Dolan (networks)

Dr. J.H. Johnson (networks, complex systems, computer vision, transportation systems)

Dr. J. Rooney (robotics, kinematic geometry, Clifford algebras, differential geometry, screw theory, tensegrity structures)

#### *Research Student*

J.D. Hobbs (part-time, Dr. Rooney) (mechanical space systems, reconfigurable structures)

#### *Courses*

M336: Groups and Geometry (30 CAT points, third level)

MT365: Graphs, networks and design (30 CAT points, third level)  
M836: Coding Theory (M.Sc. component course)  
*Current periodicals:* H, J, N, P, S, V, X, Y, b

## **UNIVERSITY OF OXFORD**

The Mathematical Institute, 24-29 St. Giles, Oxford OX1 3LB.  
Tel: 01865 273525 Fax: 01865 273583

### *Faculty of Mathematical Sciences*

Prof. D.J.A. Welsh (Merton) (applied probability, complexity)  
Dr. R. Leese (St. Catherine's) (channel assignment problems)

### *Department of Statistics*

1 South Parks Road, Oxford OX1 3TG.  
Tel: 01865 272860 Fax: 01865 272595  
Prof. C.J.H. McDiarmid\* (Corpus Christi) (probability and algorithms,  
probabilistic methods in combinatorics, colouring problems)

### *Research staff*

J.M. Talbot

### *Research students*

Magnus Bordewich (Prof Welsh)  
Nikolaus Fountoulakis (Prof McDiarmid)  
Andrew Goodall (Prof Welsh)  
Rhiannon Hall (Profs McDiarmid and Welsh)  
Philipp Kostuch (Prof McDiarmid)  
Dillon Mayhew (Prof Welsh)  
Tobias Mueller (Prof McDiarmid)

### *Lecture courses*

Combinatorial optimisation (12 lectures, 2nd year u/g, Dr. McDiarmid)  
Communication theory (16 lectures, 3rd year u/g, Dr. McDiarmid and Dr.  
Powell)  
Complexity and cryptography (16 lectures, 4th year u/g, Dr. Talbot)  
Randomised algorithms (16 lectures, 1st year p/g, Prof. Welsh)

### *Seminar*

Combinatorial theory (Tuesdays at 3 p.m.)  
*Current periodicals:* D, E, J, K, L, N, P, Q, T, Y

## **UNIVERSITY OF PORTSMOUTH**

Mercantile House, Hampshire Terrace, Portsmouth, Hants PO1 2EG.  
Tel: 023 92 843016 Fax: 023 92 843106  
<http://www.sms.port.ac.uk/dmshome.html>

### *School of Computer Science and Mathematics,*

Dr. A. Makroglou  
Mr. T.S. Manns

### *Lecture courses*

Graph and networks (24 lectures, final year u/g, Dr. Evans)  
Discrete Mathematics (24 lectures, stage 2 u/g, Dr. Evans)  
Discrete Mathematics (24 lectures, electrical engineering stage 2, Mr T  
Manns)  
Projects (final year u/g)  
Occasional seminars  
*Current periodicals: X, Y, b*

## **QUEEN MARY, UNIVERSITY OF LONDON**

Queen Mary, University of London, Mile End Road, London E1 4NS.  
Tel: 0207 975 5440 Fax: 0208 980 9587

### ***School of Mathematical Sciences (Mathematics Research Center)***

Prof. D.K. Arrowsmith (graph colourings, percolation theory, interaction  
models and knot invariants)  
Prof. R.A. Bailey (design of experiments, latin squares and their  
generalisations, designs for complicated block structures, association schemes,  
partition species)  
Prof. P.J. Cameron\* (groups and their operants, graphs, codes, designs,  
models, orbits and enumeration)  
Dr. Thomas Müller (group theory, combinatorics, analysis)  
Dr. L.H. Soicher (5463) (computational group theory, graph theory, finite  
geometry, design theory)  
Dr. D. S. Stark (probability and combinatorics)

#### *Researchers*

Dr. Simeon Ball (Research fellow)  
Dr. P. Dobcsányi (Research assistant, design theory and internet resources)  
Prof. Dan Hughes (Emeritus Professor: finite geometry)  
Dr. J.W.B. Hughes (representations of Lie superalgebras)  
Dr. S.P. Mansilla (Research fellow, arc-transitive digraphs and Latin squares)  
Prof. Donald Preece (Professorial fellow)

#### *Research students*

Ross Applegate (Prof. Cameron; posets)  
John Arhin (Dr. Soicher; existence and structure of SOMAs)  
Matt Ollis (Prof. Bailey; design theory)  
Pablo Spiga (Prof. Cameron; permutation groups)  
Sam Tarzi (Prof. Cameron; model theory)

#### *Lecture courses*

Complexity and Optimization in Operational Research (36 lectures, 2nd/3rd  
year u/g, Prof. Hodges and Dr. Stark)  
Games and Linear Programming (36 lectures, 2nd/3rd year u/g, Dr. Radcliffe)  
Discrete mathematics (36 lectures, 1st year u/g, Prof. Bullett)  
Algorithmic Mathematics (36 lectures, 2nd year u/g., Dr Vivaldi)  
Graph Theory and Applications (36 lectures, 2nd/3rd year u/g., Prof.  
Leedham-Green)  
Coding Theory (36 lectures, 3rd year u/g., Dr Beck)  
Design of Experiments (36 lectures, 3rd year u/g., Prof. Bailey)  
Sets, logic and categories (24 lectures, 4th year, M.Sc., Prof. Leedham-Green)

#### *Seminars*

Combinatorics study group (Prof. Cameron, Fridays 4:30pm)  
Design of Experiments (Prof. Bailey, Thursday 4:30pm)  
Pure Mathematics (Dr. Müller, Monday 4:30pm)  
*Current periodicals*: B, E, F, H, P, R, T, U, X, Y, g

## **UNIVERSITY OF READING**

Department of Mathematics, University of Reading, Whiteknights, P.O. Box  
220 Reading,  
Berks RG6 6AX.  
Tel: 0118 987 5123 Fax: 0118 931 3423 e-mail:  
smsmaths@rdg.susssysl.ac.uk

### ***Department of Mathematics***

Dr. J.K. Dugdale (graph theory) Tel: 0118 9875123, ext. 4012  
Prof. A.J.W. Hilton\* (graph theory, design theory, finite set systems) Tel:  
0118 931 8989  
Dr. W.R. Johnstone (graph theory) Tel: 0118 9875123, ext. 4013  
Dr. D.S.G. Stirling (graph theory)  
*Honorary fellow*  
Dr. D.C. Daykin  
*Lecture courses*  
Combinatorics (20 lectures, 1st year u/g, Dr Dugdale)  
Combinatorics (40 lectures, 3rd year u/g, Dr. Dugdale, Prof. Hilton)  
Graph theory (40 lectures, 3rd year u/g, Dr. Dugdale, Prof. Hilton)  
Combinatorics (20 lectures, 3rd year u/g, Prof. Hilton)  
*Research seminar*  
Combinatorics seminar (Mondays at 3 p.m.)  
*Current periodicals*: C, N, P, S, X, Y, b

## **ROTHAMSTED EXPERIMENTAL STATION**

IACR - Rothamsted, Harpenden, Herts AL5 5RJ  
Tel: 01582 763133 Fax: 01582 4671166  
<http://www.res.bbsrc.ac.uk/stats/>

### ***Statistics Department***

Prof. R.W. Payne\*, (Statistical computing, design and analysis of experiments,  
identification keys and diagnostic tables, statistical modeling)  
Welham, Sue (REML estimation of various components, neighbour effects,  
design of laboratory experiments, statistical modeling)  
*Current periodicals*: E, F

## **ROYAL HOLLOWAY**

Royal Holloway, Egham Hill, Egham, Surrey TW20 0EX.

### ***Department of Mathematics***

Tel: 01784 443093 Fax: 01784 430766

Dr. M.V.D. Burmester ( information security; cryptography, complexity)  
Dr. R.M. Damerell (algebraic combinatorics, computing applications)  
Prof. J.W. Essam (applications of graph theory, combinatorics, numerical analysis and computing techniques to problems in critical phenomena theory, in particular to phase transitions, conduction in disordered materials, polymer science, epidemic models and cellular automata)  
Dr. S. Blackburn (enumeration of groups, applications of algebraic methods to data communications, coding theory, cryptography)  
Dr. A. Fuchsberger (cryptography and information security)  
Dr. K.M. Martin (cryptography and information security)  
Prof. C. Mitchell (cryptography and information security)  
Dr. S.P. Murphy (spatial probability, cryptography)  
Dr. C.W. Norman (algebraic topics)  
Prof. F.C. Piper (algebraic combinatorics: finite geometry, theory of designs, coding theory, cryptography)  
Dr. M.J. Robshaw (cryptography and information security)  
Prof. P.R. Wild\* (algebraic combinatorics: designs and difference sets, statistical applications, applications of discrete mathematics to data communications, coding theory, cryptography)

*Visiting Professors*

Prof. H.J. Beker,  
Prof. Y. Desmedt, Prof. M. Walker (Vodafone Ltd),

*Research Staff*

Dr. S. Ng  
Dr. R. Shipsey  
Dr. R. White

*Research students*

M. Al-Meather, S. Al-Riyami, G. Blacklaw, C. Blackwell, A. Dent, E. Fazey, H. Hopkins, P. Jarupunphol, S. M. Kim, V. Khu-Smith, T. Martin, I. Michalopoulos, F. Mirza, L. O'Toole, P. Rowe, R. Stockwell, C. Swart, B. Wallace, Y. Yemane

*Lecture courses*

Discrete mathematics (33 lectures, 2nd year u/g, Dr. Cohn)  
Cipher systems (33 lectures, 3rd year u/g, Prof. Wild)  
Combinatorics (33 lectures, 3rd year u/g, Dr. Yates)  
Error correcting codes (33 lectures, 3rd year u/g, Dr. Cohn)  
Game theory (33 lectures, 3rd year u/g, Dr. Burmester)  
Combinatorial optimisation (33 lectures, 3rd year u/g, Dr. Yates)  
Theory of graphs (33 lectures, 3rd year u/g, Dr. Damerell)  
Theory of error correcting codes (33 lectures, p/g, Dr. Burmester)  
Cipher systems (33 lectures, p/g, Prof. Wild)  
Combinatorics (33 lectures, p/g, Dr. Damerell)  
Graph theory (33 lectures, p/g, Dr. Damerell)  
Design theory (33 lectures, p/g Prof. Wild)  
Discrete Optimisation (33 lectures, p/g, Dr. Yates)

The Department of Mathematics runs taught M.Sc. programmes in Information Security,  
Discrete Mathematics with Computing Applications and Dependable

Computer Systems jointly with the Department of Computer Science.

*Seminars*

Discrete mathematics and its applications (organizer: Dr. Blackburn)

(Tuesdays at 4.00 p.m. in room 219)

***Department of Computer Science***

Tel: 01784 443421 Fax: 01784 443420

Prof. J.S. Shawe-Taylor\*, Prof. Z.G. Gutin, Dr. P.G. Jeavons

*Lecture courses*

Theory of computing (33 lectures, 1st year u/g, Dr. Jeavons)

Discrete mathematics and probability (33 lectures, 1st year u/g, Dr. Murphy)

Design and analysis of algorithms (33 lectures, 2nd year u/g, Dr. Gollman)

Formal languages (33 lectures, 2nd year u/g, Dr. Gollman)

Signals, codes and ciphers (33 lectures, 3rd year u/g, Dr. Price, Prof. Mitchell and Prof. Shawe-Taylor)

Neural networks (33 lectures, 3rd year u/g, Prof. Shawe-Taylor)

Connection science and machine learning (organizer: Prof. Shawe-Taylor)

*Current periodicals:* E, F, H, J, M, N, P, S, T, X, b, h

**UNIVERSITY OF ST. ANDREWS**

The Mathematical Institute, North Haugh, St. Andrews, Fife KY16 9SS.

Tel: 01334 463745 Fax: 01334 463748

<http://www.dcs.st-and.ac.uk>

***School of Mathematics and Statistics***

Dr. C.M. Campbell\* (combinatorial group theory, combinatorics of semigroup presentations)

R.L. Constable (combinatorics)

Prof. K.J. Falconer (combinatorial geometry)

Prof. A.W. Kemp (combinatorial applications in statistics)

Dr. C.D. Kemp (combinatorial applications in statistics)

Dr. J.H. McCabe (graph theory, number theory)

Dr. J.J. O'Connor (combinatorial group theory)

Dr. L. Olsen (analysis and combinatorics)

Prof. E.F. Robertson (combinatorial group theory, combinatorics of semigroup presentations)

Dr. N. Ruskuc (combinatorial semigroup theory)

Dr. B.O. Stratmann (combinatorial group theory, Kleinian groups)

*Lecture courses*

Discrete mathematics (56 lectures, 2nd year u/g)

Finite mathematics (24 lectures, 3rd/4th year u/g, alternate years)

Graphs (24 lectures, 3rd/4th year u/g, alternate years)

Various courses involving algorithms and complexity at 3<sup>rd</sup>/4<sup>th</sup> year u/g..

*Current periodicals:* B, E, F, f

## UNIVERSITY OF SALFORD

University of Salford, Salford M5 4WT.  
Tel: 0161 295 3999 Fax: 0161 295 5559

### *Mathematics Section, School of Sciences*

Prof. R. Hill\* (coding theory, finite geometries)

#### *Research students*

Love, C.P. (Dr. Hill, coding theory)

#### *Lecture courses*

Discrete mathematics (48 lectures, 2nd year u/g, Prof. Hill)

Coding theory (48 lectures, 3rd year u/g, Prof. Hill)

*Current periodicals:* J, P, T, h

## SOUTH BANK UNIVERSITY

S.C.I.S.M., South Bank University, 103 Borough Road, London SE1 0AA.  
Tel: 0207 815 7400 Fax: 0207 815 7499

<http://www.scism.sbu.ac.uk>

### *School of Computing, Information Systems and Mathematics*

Jennings, Dr. Sylvia\* (coding theory, text compression)

King Sing, Dr. Roland H.T. (combinatorial models of fault based program testing)

Whitty, Prof. Robin (Graph theoretical modeling of human memory)

#### *Visiting Professor:*

Singmaster, David (recreational mathematics)

#### *Lecture courses*

Discrete mathematics occurs in the first year of all the computing courses (S. Jennings, R. Whitty, D. Singmaster).

Option in Applied Cryptography occurs in the final year (S. Jennings)

#### *Working Paper Series*

[http://www.scism.sbu.ac.uk/publications/tech\\_rep/index.html](http://www.scism.sbu.ac.uk/publications/tech_rep/index.html)

*Current periodicals:* T

## UNIVERSITY OF SOUTHAMPTON

University of Southampton, Southampton SO17 1BJ.

Tel: 023 8059 3612

Fax: 023 8059 5147

<http://www.maths.soton.ac.uk>

### *Faculty of Mathematical Studies*

Prof. G.A. Jones (x3654) (permutation groups, connections between groups and graphs)

Prof. R.C. King (x3700) (representations theory of Lie algebra and superalgebras, applications in Physics)

Dr. E.K. Lloyd\* (x5135) (combinatorics and graph theory including applications and history)

Prof. C.N. Potts (x3651) (combinatorial optimization and scheduling)

Prof. D. Singerman (x3671) (discontinuous groups with applications to



Riemann surfaces and the  
theory of maps)

*Research student*

Anton Prowse (Prof. Jones)

*Lecture courses*

Combinatorics and Graph theory (13 lectures, 1st year u/g, Dr. Ann Hirst)

Theory of numbers (36 lectures, 3<sup>rd</sup>/4<sup>th</sup> year u/g, Dr. Mary Jones)

Scheduling (10 lectures, M.Sc. in Operational Research, Prof. Potts)

Algorithms (36 lectures, 2nd year, u/g, Prof. Jones)

Information and coding Theory (36 lectures, 3rd year u/g, Prof. Jones)

Algorithms, machines and languages (36 lectures, 3<sup>rd</sup>/4<sup>th</sup> year u/g, Prof. Jones)

Finite Mathematics (36 lectures, 3<sup>rd</sup>/4<sup>th</sup> year u/g, Dr. Jim Renshaw)

Graph Theory (36 lectures, 3<sup>rd</sup>/4<sup>th</sup> year u/g, Dr. Jim Renshaw)

***Department of Management***

023 8059 3966

Dr. Julia A. Bennell (x5671)

*Current periodicals:* A, C, E, F, M, N, P, R, T, X, Y

**STAFFORDSHIRE UNIVERSITY**

School of Computing, Staffordshire University, Leek Road, Stoke-on-Trent,  
ST4 2AZ.

Tel/Fax: 01782 294026

***Mathematics and Statistics Group***

Burrows, Prof. Brian [cmtblb@soc.staffs.ac.uk](mailto:cmtblb@soc.staffs.ac.uk)

Easton, Dr. Sarah\* [cmtsje@soc.staffs.ac.uk](mailto:cmtsje@soc.staffs.ac.uk)

Pratt, Mr. Fred [cmtjfo@soc.staffs.ac.uk](mailto:cmtjfo@soc.staffs.ac.uk)

Talbot, Dr. Richard F. [cmtrft@soc.staffs.ac.uk](mailto:cmtrft@soc.staffs.ac.uk)

*Research students*

Millington, June (Measurement of disorder in non-periodic sequences,

Burrow, Prof. B, Talbot, Dr. R.)

**UNIVERSITY OF STIRLING**

The University of Stirling, Dept. of Computing Science and Mathematics,  
Stirling, Scotland FK9 4LA.

Tel: 01786 467460 Fax: 01786 464551

***Mathematics and Statistics Group, Department of Computing Science & Mathematics***

<http://www.cs.stir.ac.uk/math/>

Dr. F.K. Bell (467462) (algebraic graph theory)

Dr. P.S. Jackson (467468) (algebraic graph theory)

Prof. P. Rowlinson\* (467464) (algebraic graph theory)

*Lecture courses*

Discrete structures (44 lectures, 1st year u/g)

Combinatorics (32 lectures, 3rd/4th year u/g, alternate years)

Algebra and codes (32 lectures, 3rd/4th year u/g, alternate years)  
*Current periodicals:* C, F, R, X, Y, b, d

## UNIVERSITY OF SURREY

University of Surrey, Guildford, Surrey GU2 7XH.

Tel: 01483 300800 Fax: 01483 686071

<http://www.maths.surrey.ac.uk>

### *Department of Mathematics and Statistics*

*Honorary Visiting Senior Research Fellows*

Dr. A.D. Keedwell\* (Latin squares and quasigroups, finite projective planes, coding theory)

Dr. P.J. Owens (Polyhedral graphs, Latin squares)

### *Department of Electronic and Electrical Engineering*

Dr. D.R.B. Burgess (Coding and security in communications)

#### *Lecture courses*

Groups and Symmetry (36 lectures, 2<sup>nd</sup> year u/g, Dr. Hydon)

Algorithms and Data structures (36 lectures, 2<sup>nd</sup> year u/g, Mr. Bish)

Statistical methods (36 lectures, 2<sup>nd</sup> year u/g, Dr. Young)

*Current periodicals:* C, E, F, T, X, c, i

## UNIVERSITY OF SUSSEX

University of Sussex, Brighton, East Sussex BN1 9QH.

Tel: 01273 678105 Fax: 01273 678097

<http://www.maths.susx.ac.uk>

### *School of Mathematical Sciences*

Prof. J.W.P. Hirschfeld\* (finite geometry, algebraic geometry, coding theory)

<http://www.maths.susx.ac.uk/Staff/JWPH/>

Dr. R.P. Lewis (theory of partitions)

<http://www.maths.susx.ac.uk/Staff/RPL.html/>

#### *Research students*

M. Aghaei (Prof. Hirschfeld, coding theory)

M.E. Jimenez-Contreras (Prof. Hirschfeld, finite geometry)

P.R. Hammond (Dr. Lewis, number theory)

A. Sonnino (Prof. Hirschfeld, finite geometry)

#### *Lecture courses*

Discrete Maths I (30 lectures, 1<sup>st</sup> yr u/g, Dr. Wraith)

Discrete Maths II (30 lectures, 1<sup>st</sup> yr u/g, Dr. Lewis)

Number theory (30 lectures, 2<sup>nd</sup> year u/g, Dr. Lewis)

Graph theory (30 lectures, 3rd and 4<sup>th</sup> year u/g, Dr. Lewis)

Coding theory (30 lectures, 3rd and 4<sup>th</sup> year u/g, Prof. Hirschfeld)

Algebraic geometry I (30 lectures, p/g, Prof. Hirschfeld)

Algebraic geometry II (30 lectures, p/g, Prof. Hirschfeld)

#### *Seminars*

Topology, Algebra and Geometry Group seminars, Prof. Hirschfeld. Fridays

11.30 a.m.

<http://www.maths.susx.ac.uk/Seminars/TAGG/Current.html>

*Working Paper series*

<http://www.maths.susx.ac.uk/Reports/TAGG/index.html>

TAGG research reports can be requested from Richard Chambers  
(r.j.chambers@sussex.ac.uk)

*Current periodicals:* E, F, T, X, c

## **UNIVERSITY COLLEGE, LONDON**

University College, Gower Street, London WC1E 6BT.

Tel: 0207 387 7050 Fax: 0207 383 5519

### ***Department of Mathematics***

(extension 2838)

Prof. C.A. Rogers (retired),

Prof. D.G. Larman,

Prof. D. Preiss,

Prof. K.M. Ball,

Dr. J.A. Haight,

Prof. P. McMullen,

Dr. A.D. Scott\*,

Prof. I. Barany,

Dr. M. Csornyei

*Research Students*

M. Antilla (Prof. Ball)

S. Sezgin (Prof. Larman)

*Lecture courses*

Optimisation (2<sup>nd</sup> year u/g)

Graph Theory and Combinatorics (3rd year u/g)

Geometry of numbers (3rd year u/g, Prof. Larman)

Computational Geometry (3<sup>rd</sup> year u/g, Prof. McMullen)

Game theory (3rd year u/g, Prof. Binmore)

*Seminar*

Colloquium (Wednesdays at 2.30 p.m.)

Informal Seminar, Mondays or Tuesdays at 4.00pm

### ***Department of Economics***

Prof. K. Binmore

## **UNIVERSITY COLLEGE, SWANSEA**

University College, Swansea SA2 8PP.

Tel: 01792 205678 Fax: 01792 295618

### ***Department of Mathematics***

Dr. F.W. Clarke, Dr. R.J. Cook\*, Dr. A.D. Thomas

*Lecture courses*

Combinatorics (20 lectures, 3rd year u/g, Dr. Cook)

Applied algebra (40 lectures, 3rd year u/g, Dr. Clarke)

*Department of Chemistry*  
C.W. Haigh

### **VODAFONE GROUP RESEARCH AND DEVELOPMENT - UK**

The Courtyard, 2-4 London Road, Newbury, Berkshire RG14 1JX.

Tel: 01635 33251 Fax: 01635 31127

Dr. S. Babbage\*, Dr. N. Bone, D. Godsave, Dr. N. Jefferies, S. Manning, Dr. S. Thiel, Prof. M. Walker, R. Wright (Vodafone Ltd)

(Cryptography, randomness, statistics, applications of graph theory and combinatorics)

*Current periodicals: G, T, Z*

### **UNIVERSITY OF WARWICK**

University of Warwick, Coventry, CV4 7AL.

#### ***Department of Computer Science***

Tel: 024 7652 3193 Fax: 024 7657 3024

<http://www.dcs.warwick.ac.uk/>

Dr. L.A. Goldberg\* (combinatorial algorithms, randomised algorithms) 024

7652 3363 <http://www.dcs.warwick.ac.uk/~leslie/>

Dr. Paul Goldberg (combinatorial algorithms, VC dimension) 024 7652 3088

<http://www.dcs.warwick.ac.uk/~pwg/>

Dr. Andrei Krokhin

Dr. R. Martin (combinatorial algorithms, randomised algorithms) 024 7657

3802 <http://www.dcs.warwick.ac.uk/~martin>

Prof. M. Paterson (string algorithms, combinatorial algorithms) 024 7652 3194

<http://www.dcs.warwick.ac.uk/~msp>

#### ***Research Student***

Steven Kelk (Goldberg) (combinatorial algorithms, randomised algorithms)

<http://www.dcs.warwick.ac.uk/~skelk>

#### ***Lecture courses***

Mathematics for computer scientists (1st year u/g)

Discrete Maths 1 (1st year u/g)

Discrete Maths 2 (1st year, u/g)

Data Structures and Algorithms (2nd year, u/g)

Complexity of Algorithms (3rd year, u/g)

#### ***Web Page***

Algorithms and Complexity Theory Research Group <http://www.dcs.warwick.ac.uk/~leslie/theory.html>

#### ***Warwick Business School***

Phone: 024-76528220 Fax: 024-76524539

Dr. Vladimir Deineko (Combinatorial Optimisation, Polynomially Solvable Cases of NP-hard Problems) 024-76524501

#### ***Lecture courses***

Mathematical Programming (1st, 2nd, 3rd year u/g and master students)

Operational Research (4rd year, u/g)

Optimisation (master students)

**UNIVERSITY OF THE WEST OF ENGLAND, BRISTOL**

University of the West of England, Coldharbour Lane, Bristol BS16 1QY.

Tel: +44 (0)117 344 2783 Fax: +44 (0)117 344 2734

<http://www.uwe.ac.uk/cems/>

*Faculty of Computing, Engineering and Mathematical Sciences*

Dr. Vadim Zverovich\* (graph theory, combinatorial optimisation)

*Lecture courses*

Operational Research (2nd year u/g)

Mathematical Programming (3rd year u/g)

Decision Analysis (p/g)

*Current periodicals:* D, N, S, b

