This is the 2005 edition of the British Combinatorial Bulletin.

The organisation is the same as it's been for the past few years. Following requests, a complaint, and some advice regarding the legal position, we have removed all email addresses except those that have been explicitly supplied for contact for a specific purpose. Thanks to those who helped clarify what we couldn't do.

This is the last Bulletin I will be editing. It feels like it's time to hand the project over to someone with more ideas for taking the Bulletin forward. The next Editor will, I hope, be appointed at the Business Meeting at the British Combinatorial Conference. If you think you might be interested in taking on the task, I suggest you contact Peter Cameron ahead of the BCC. If you have any questions about what's involved, I'll be happy to answer them. And I'm certainly willing to help as much as necessary with the handover.

So, for the last time, let me thank all those who have been institutional representatives over the last few years. It's the willingness of so many people to provide information that persuades me the Bulletin remains a valuable resource. And, for the last time, I'd like to thank Jackie Everid for all her work in preparing the Bulletin for release. Without Jackie, well, it doesn't bear contemplating.

Graham Brightwell
Editor

The BCB webpage is: http://www.cdam.lse.ac.uk/BCB/

Email should be addressed to: bcb@maths.lse.ac.uk
British Combinatorial Committee

The Committee is: Peter Cameron (Chairman), Peter Rowlinson (Secretary), Keith Edwards (Treasurer), Robert Bailey (Postgraduate representative) Graham Brightwell (Bulletin Ed), James Hirschfeld, Mark Jerrum, Nigel Martin, Stephanie Perkins, Bridget Webb (Archivist).

News

The British Combinatorial Committee has a limited sum of money available to support approved meeting on combinatorial topics in the UK. Any institution requesting support will be expected to meet part of the total cost from its own funds or elsewhere. Proposals for consideration by the Committee, including outline plans and an outline budget, should be sent to the Secretary,

Professor Peter Rowlinson
p.rowlinson@stirling.ac.uk.

Bridget Webb now holds the archive at the Open University. If you have any items for inclusion or would like to see any items please contact Bridget Webb
B.S.Webb@open.ac.uk

Sir Edward Wright

Sir Edward Wright died on February 2nd 2005, aged 98. He was best known for his work in analytic number theory, and he was also a pioneer in the use of analytic methods for graph theory, specifically questions of asymptotic enumeration. He was an invited speaker at the 2nd British Combinatorial Conference in 1975. He was a co-author of the classic text "An Introduction to the Theory of Numbers" with G.H.Hardy, his research supervisor. In 1935, at the age of 29, he was appointed to a Professorship at the University of Aberdeen, and in 1962 he became principal and vice-chancellor of the University.
The annual Reading One-Day Combinatorics Colloquium will be held on Wednesday 25th May 2005. The programme will start at 10.30 am and finish at 5.30 pm. The list of speakers and titles is:

**Hajo Broersma** (Durham)
*Tutte sets in graphs: structural and algorithmic aspects.*

**Terry Griggs** (Open)
*Configurations and colourings in triple systems.*

**Stephen Huggett** (Plymouth)
*Tutte polynomials of links, graphs, and matroids.*

**Mark Jerrum** (Edinburgh)
*Balanced matroids revisited.*

**Matthew Johnson** (Durham)
*The source location problem.*

**Anna de Mier** (Oxford)
*On the lattice of cyclic flats of a matroid.*

**James Oxley** (Louisiana)
*The structure of the 3-separations of 3-connected graphs and matroids.*

**Dominic Welsh** (Oxford)
*Graph polynomials: some questions.*

**Jurek Wojciechowski** (West Virginia University)
*Induced cycles in powers of complete graphs.*
16th Postgraduate Combinatorial Conference

The 16th annual Postgraduate Combinatorial Conference will be held at the University of Oxford, 21st to 23rd March, 2005. This conference is for research students in all branches of discrete mathematics, allowing them to meet and discuss their research in an informal environment. We will also have talks by the following invited speakers:

Keith Edwards, University of Dundee

Ben Green, University of Bristol

Joel Spencer, New York University

Subjects likely to be covered at the conference include graph theory, design theory, coding theory, cryptography, partial orders, extremal set theory, theoretical computer science and model theory. View the website for further details: http://www.maths.ox.ac.uk/~pcc2005

20th British Combinatorial Conference

Sunday 10 July - Friday 15 July 2005
University of Durham

Organisers: Nigel Martin (Durham), Mike Grannell and others (Open University)

Invited speakers:

Ben Green (Cambridge)

Title: Finite field models in additive combinatorics

Oliver King (Newcastle)

Title: The subgroup structure of finite classical groups in terms of geometric configurations

Patric Östergård (Helsinki)

Title: Constructing combinatorial objects via cliques

Tim Penttila (Western Australia)

Title: Flocks of circle planes

Alex Scott (UCL)

Title: Judicious partitions and related problems
Oriol Serra (Catlunya)

Title: An isoperimetric method for the small sumset problem

Paul Seymour (Princeton)

Title: The structure of claw-free graphs

Alan Sokal (New York)

Title: The multivariate Tutte polynomial (alias Potts model) for graphs and matroids

Angelika Steger (Zurich)

Title: The sparse regularity lemma and its applications

Further details, including titles and draft abstracts of the talks of the invited speakers, can be found at http://mcs.open.ac.uk/bcc2005/
**BRITISH COMBINATORIAL COMMITTEE**  
(Scottish Charity Number SC019723)  

Income and expenditure account for the period  
1 October 2003 to 30 September 2004

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**Accumulated Income**

Balance at 30 September 2003 | 18264.48  
Excess of expenditure over income | 2659.52  

**Balance at 30 September 2004**    **15604.96**

**Represented by**

Bank of Scotland Treasurer’s Account | 1177.12  
Scottish Widows Bank Treasury Tracker Account | 14427.84  

**15604.96**
### List A

**Combinatorial Mathematicians based in Britain**

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Babbage, Dr. S.  Vodafone Group R&D
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Ball, Prof. Keith M.  UCL, London
Barany, Prof. Imre  UCL, London
Barnea, Dr. Yiftach  Royal Holloway
Bate, Julia  Royal Holloway
Bedford, Dr. David  Keele
Beker, Prof. Henry J.  Royal Holloway
Bell, Dr. Francis K.  Stirling
Bending, Dr. Thomas D.  Middlesex
Biggs, Prof. Norman L.  LSE, London
Blackburn, Prof. Simon  Royal Holloway
Blackwell, C.  Royal Holloway
Boase, Mansur  Cambridge
Bogacka, Dr. B.  QMUL
Bollobás, B Dr  Cambridge
Bone, Dr. Nicholas  Vodafone Group R&D
Borg, Peter  Open
Borovik, Dr. Alexandre V.  UMIST
Bowler, Dr. Andrew  Birkbeck, London
Bray, Dr. John  QMUL
Brightwell, Prof. Graham R.  LSE, London
Bryant, Dr. Roger M.  UMIST
Burrows, Dr. Brian L.  Staffordshire
Butkovic, Dr. Peter  Birmingham
Byott, Dr. Nigel P.  Exeter
Cameron, Prof. Peter J. QMUL, London
Camina, Dr. Alan R. East Anglia
Campbell, Dr. Colin M. St. Andrews
Campbell, Duncan Dundee
Campbell, Dr. Peter St. Andrews
Cariolaro, David Reading
Catariina, Paula Essex
Chapman, Dr. Robin J. Exeter
Chetwynd, Prof. Amanda G. Lancaster
Choi, Su-Jeong Royal Holloway
Christopoulos, Chris Royal Holloway
Cid, Dr. Carlos Royal Holloway
Ciechanowicz, Dr. Zbigniew Chez Royal Holloway
Clarke, Dr. Francis W. Swansea
Clarke, Geoffrey M. Kent
Cohen, Dr. Stephen D. Glasgow
Constable, Robin L. St. Andrews
Cook, Dr. R.J. Swansea
Cooper, Dr. Colin King's College, London
Cooper, Prof. S. Barry Leeds
Cosh, Ben Goldsmith's, London
Crampton, Dr. Jason Royal Holloway
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Forbes, A.D. Open

G
Galbraith, Dr. Steven Royal Holloway
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Gardiner, Dr. Anthony D. Birmingham
Georgiou, Nicholas LSE
Gibson, Dr. J. Keith Birkbeck, London
Gilder, John. UMIST
Gillett, Dr. Raphael T. Leicester
Gilmour, Dr. S. G. QMUL
Glass, Prof. Celia A. City
Godsave, Diane Vodafone Group R&D
Goldberg, Dr. Leslie A. Warwick
Goldberg, Dr. Paul W Warwick
Goodall, Dr. Andrew J. Oxford
Gordon, Dr. Neil A. Hull
Gowers, Prof. W. Tim Cambridge
Grannell, Prof. Michael J. Open
Green, Prof. B. Bristol
Griggs, Prof. Terence S. (Terry) Open
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Gutin, Prof. Gregory Royal Holloway
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Jones, Prof. Gareth A.  
Southampton

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Manns, Mr. Tom Portsmouth
Marsh, Dr. Robert J. Leicester
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Martin, Nigel Durham
Martin, Dr. Russell Warwick
Mavron, Prof. Vassili C. Aberystwyth
Maynard, Dr. Philip East Anglia
McAlpine, Kenneth M. Abertay
McCabe, Dr. John H. St. Andrews
McDiarmid, Prof. Colin J.H. Oxford
McDonough, Dr. Thomas P. Aberystwyth
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de Mier, Dr. Anna Oxford
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<tr>
<td>Pikhurko, Oleg</td>
<td>Cambridge</td>
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<td>Name</td>
<td>Institution/Location</td>
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<tr>
<td>Pinch, Dr. Richard G.E.</td>
<td>GCHQ, Cheltenham</td>
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<tr>
<td>Piper, Prof. Fred</td>
<td>Royal Holloway</td>
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<tr>
<td>Piper, Greg</td>
<td>East Anglia</td>
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<tr>
<td>Potts, Prof. Chris N.</td>
<td>Southampton</td>
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<tr>
<td>Powell, Dr. Susan</td>
<td>LSE, London</td>
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<td>Pratt, F</td>
<td>Staffordshire</td>
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<td>Preece, Prof. Donald A.</td>
<td>Queen Mary, London; also Kent</td>
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<tr>
<td>Preiss, Prof. D.P.</td>
<td>UCL, London</td>
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<tr>
<td>Prellberg, Dr. Thomas</td>
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<tr>
<td>Prince, Dr. Alan R.</td>
<td>Heriot-Watt</td>
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<tr>
<td>Pu, Dr. Ida</td>
<td>Goldsmiths, London</td>
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<td>Quinn, Dr. Kathleen A.S.</td>
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<td>Rackham, Laurence</td>
<td>Royal Holloway</td>
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<tr>
<td>Raman, Prof. R.</td>
<td>Leicester</td>
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<tr>
<td>Ray, Prof. Nigel</td>
<td>Manchester</td>
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<td>Rees, Prof. Sarah E.</td>
<td>Newcastle</td>
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<td>Rees, David H</td>
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<td>Reuter, A.</td>
<td>Imperial</td>
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<tr>
<td>Riordan, Dr. O.</td>
<td>Cambridge</td>
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<td>Robertshaw, Dr. Andrew</td>
<td>Glamorgan</td>
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<td>Robertson, Prof. Edmund F.</td>
<td>St. Andrews</td>
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<tr>
<td>Rogers, Prof. C. Ambrose</td>
<td>UCL, London</td>
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<tr>
<td>Roney-Dougal, Dr. Colva M.</td>
<td>St. Andrews</td>
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<tr>
<td>Rooney, Dr. Joe</td>
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<td>Rowley, Dr. Christopher A.</td>
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</table>
Rowley, Dr. Peter J. UMIST
Rowlinson, Prof. Peter Stirling
Rudd, Jason QMUL
Rudloff, C. East Anglia
Ruskuc, Dr. Nik St Andrews
Russell, P.A. Cambridge
Rutherford, Dr. Carrie London South Bank
Rymer, Dr. Neil W. Bangor

S
Salhi, A. Essex
Sanders, A.J. Cambridge
Sandling, Dr. Robert Manchester
Sands, Dr. Arthur D. Dundee
Saxl, Dr. Jan Cambridge
Scott, Dr. Alex D. UCL, London
Scott, Dr. J. Leicester
Severini, Dr Simone York
Sezgin, S. UCL, London
Shah, Illana Royal Holloway
Shareef. F. QMUL, London
Shakhlevich, Natasha Leeds
Shaw, Prof. (Emer) Ron Hull
Shawe-Taylor, Prof. John S. Southampton
Shreeve, Richard I. Royal Grammar School
Siemons, Dr. I. Johannes East Anglia
Singerman, Prof. David Southampton
Singmaster, Prof. David B. London South Bank
Smith, Prof. Derek H. Glamorgan
Sng, Colin Glasgow
<table>
<thead>
<tr>
<th>Name</th>
<th>Institution</th>
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<tr>
<td>Soicher, Dr. Leonard H.</td>
<td>QMUL, London</td>
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<tr>
<td>Spencer, Claire</td>
<td>Reading</td>
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<td>Stark, Dr. D. S.</td>
<td>QMUL</td>
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<td>von Stengel, Dr. Bernhard</td>
<td>LSE</td>
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<td>Stewart, Prof. Iain A</td>
<td>Durham</td>
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<td>Stirling, Dr. David S.G.</td>
<td>Reading</td>
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<td>St Andrews</td>
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<td>Strusevich, Dr. V. A.</td>
<td>Greenwich</td>
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<td>Talbot, Dr. J.M.</td>
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<td>Thiel, Dr. Stefan</td>
<td>Vodafone Group R&amp;D</td>
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<td>Thomas, Dr. A. D.</td>
<td>Swansea</td>
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<td>Truss, Prof. John K.</td>
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<td>Valenca, Paula</td>
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<td>Vowden, Dr. Barry J.</td>
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<td>Vuskovic, Kristina</td>
<td>Leeds</td>
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<tr>
<td>Name</td>
<td>Affiliation</td>
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<td>Wagner, Peter</td>
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<td>Walker, Dr. Grant</td>
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<td>Walker, Keith</td>
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<td>Walker, Prof. Michael</td>
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<td>Walters, Dr. Mark</td>
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<td>Wanless, Dr. Ian</td>
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<td>Waters, R.J.</td>
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<td>Webb, Dr. Bridget S.</td>
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<td>Rothamsted</td>
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<td>Welsh, Prof. Dominic J.A.</td>
<td>Oxford</td>
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<td>Wensley, Dr. Christopher D.</td>
<td>Bangor</td>
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<td>Whitaker, Roger</td>
<td>Cardiff</td>
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<td>White, Dr. Lynda V.</td>
<td>ICL, London</td>
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<td>Whitty, Prof. Robin W.</td>
<td>London South Bank</td>
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<tr>
<td>Wild, Prof. Peter R.</td>
<td>Royal Holloway</td>
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<td>Williams, Prof. H. Paul</td>
<td>LSE</td>
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<td>Wisewell, Dr. Laura</td>
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<td>Woodall, Dr. Douglas R.</td>
<td>Nottingham</td>
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<td>Woodcock, Dr. Christopher F.</td>
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<td>Wright, Professor Chris</td>
<td>Middlesex</td>
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<td>Vodafone Ltd</td>
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<td>Wu, Taoyang</td>
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<td>Zalesskii, Prof. A.E.</td>
<td>East Anglia</td>
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<tr>
<td>Zsak, Dr. Andras</td>
<td>Cambridge</td>
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<td>Zverovich, Dr. Vadim</td>
<td>West of England</td>
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</tbody>
</table>
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
B  Algebra Universalis
C  Ars Combinatoria
D  Australasian Journal of Combinatorics
E  Biometrics
F  Biometrika
G  Bulletin of the Institute of Combinatorics and its Applications
H  Combinatorica
I  Combinatorics, Probability and Computing
J  Design, Codes and Cryptography
K  Discrete and Applied Geometry
L  Discrete and Computational Geometry
M  Discrete Applied Mathematics
N  Discrete Mathematics
O  Discussiones Mathematicae: Graph Theory
P  European Journal of Combinatoric
Q  Finite Fields and Applications
R  Geometriae Dedicata
S  Graphs and Combinatorics
T  IEEE Transactions on Information Theory
U  Journal of Algebraic Combinatoric
V  Journal of Combinatorial Design
W  Journal of Combinatorial Mathematics and Combinatorial Computing
X  Journal of Combinatorial Theory Series A
Y  Journal of Combinatorial Theory Series B
Z  Journal of Cryptology
a Journal of Geometry  
f Order  
b Journal of Graph Theory  
g Random Structures and Algorithm  
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

Business School
University of Aberdeen, Edward Wright Building, Dunbar Street, Old Aberdeen, AB24 3QY.
Tel: 01224 272167
http://www.abdn.ac.uk/business
Dr J.D. Lamb* (graphs, matroids, combinatorial optimisation)

Current Periodicals: J, P, Q, T, W

UNIVERSITY OF WALES, ABERYSTWYTH

Institute of Mathematical & Physical Sciences
University of Wales, Aberystwyth SY23 3BZ.
Tel: 01970 622802 Fax: 01970 6227777
http://www.aber.ac.uk/~matwww
Prof. V.C. Mavron* (designs, codes)
Dr. T.P. McDonough (designs, permutation groups, codes)
Prof. A.O. Morris (Emeritus Professor, representation theory and algebraic combinatorics)

Visitors
Professor J.D. Key (Clemson, July/August 2005),
Professor H.N. Ward (Virginia, May 2005)

Research student
C Andreou (Regular Hadamard Matrices)

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

Department of Mathematics
School of Informatics, University of Wales, Dean Street, Bangor, Gwynedd LL57 1UT.
Tel: 01248 382686 Fax: 01248 361429
http://www.informatics.bangor.ac.uk/public/math/
Dr. N.W. Rymer (graph colourings, stable assignments)
Dr. C.D. Wensley* (combinatorial group theory, combinatorial species)

*Lecture courses*
Automata Theory (20 lectures, 2nd year u/g, Dr. Wensley)
Groups and Symmetry (20 lectures, 3rd year u/g, Dr. Wensley)
Graphical algorithms (20 lectures, 3rd year u/g, Dr. Rymer)
Combinatorial structures (20 lectures, 3rd year u/g, Dr. Rymer)

UNIVERSITY OF BATH

Department of Mathematical Sciences
University of Bath, Bath, BA2 7AY
Tel: 01225 386989   Fax: 01225 386492
http://www.bath.ac.uk/math-sci
Prof. Mathew Penrose

QUEEN'S UNIVERSITY BELFAST

Department of Pure Mathematics
Queen's University Belfast, Belfast BT7 1NN.
Tel: 028 9027 3661   Fax: 028 9033 5076
http://www.qub.ac.uk/mp/pmt/
Dr. L. Halbeisen

BIRKBECK COLLEGE

School of Economics, Mathematics and Statistics
Birkbeck College, Malet Street, London WC1E 7HX.
Tel: 0207 631 6428   Fax: 0207 631 6416
http://www.econ.bbk.ac.uk
Dr. A. Bowler* (symmetric designs, combinatorial matrices, permutation groups)

School of Computer Science and Information Systems
Birkbeck College, Malet Street, London WC1E 7HX.
Tel: 0207 631 6700   Fax: 0207 631 6727
http://www.dcs.bbk.ac.uk
Dr. T.I. Fenner (combinatorial algorithms, probabilistic algorithms, random graphs)
Dr. K. Gibson (cryptography, combinatorial algorithms)
Prof. G. Loizou (combinatorial algorithms)

UNIVERSITY OF BIRMINGHAM

School of Mathematics
University of Birmingham, Edgbaston, Birmingham B15 2TT.
Tel: 0121 414 6581   Fax: 0121 414 3389
http://www.mat.bham.ac.uk
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. D. Kühn (Graph Theory, Extremal Problems, Probabilistic Methods)
Dr. D. Osthus (Graph theory, extremal problems, probabilistic methods, random graphs, randomized algorithms)
Dr. C.W. Parker (Group Theory)

Research Students
A. Al-Roqi, M. van Gans, S. Lewis, S. Nickerson, S. Whyte, M. Clelland, R. Abbott, R. Fowler, M. Bate, M. Gomez, T. Parker, A. Lloyd, I. Mee Seong, L. Haynes

Lecture courses
Combitorial Optimisation (22, 3rd year, Dr. Butkovic)
Combitoratics (22, 3rd year, Dr. Gardiner)
Discrete Mathematics (22, 1st year, Dr. Gardiner)
Geometry of Groups (22, 4th year, Prof. Curtis)

Current periodicals: None

BRUNEL UNIVERSITY

Department of Mathematical Sciences
Brunel University, Kingston Lane, Uxbridge, Middlesex UB8 3PH.
Tel: 01895 274000 Fax: 01895 203303
http://www.brunel.ac.uk/depts/ma
Mitra, Prof. Gautam (combinatorial optimisation)
Noble, Dr. Steven* (graph theory, combinatorial optimisation)
Krasikov, Dr. Ilia (graph theory, combinatorial number theory, coding theory, orthogonal polynomials)

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

Lecture courses
Encryption and Data Compression (48 lectures, 3rd year u/g, Dr. Krasikov)
Algebra and Discrete Mathematics (48 lectures, 2nd year u/g, Dr. Krasikov and Dr. Noble)
Discrete Mathematics, Probability and Statistics (48 lectures, 1st year u/g, Dr. Noble and Mrs. Browne)

Working paper series
Technical Reports of Department of Mathematics (Ms. B. Curr)

Current Periodicals: G, h

UNIVERSITY OF CAMBRIDGE

Department of Pure Mathematics and Mathematical Statistics
Centre for Mathematical Sciences, Wilberforce Rd, Cambridge CB3 0WB.
Tel: 01223 337999 Fax: 01223 337920
http://www.dpmms.cam.ac.uk/
Dr. H.T. Croft (Peterhouse)
Prof. W.T. Gowers (Trinity)
Dr. I.B. Leader* (Trinity)
Dr. J. Saxl (Caius)
Prof. 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. M. Walters (Trinity)

Research students
Mansur Boase (Prof. Gowers)
Demetres Christofides (Dr Leader)
David Conlon (Prof Gowers)
J.S. Myers (Prof. Thomason)
George Petridis (Prof. Gowers)
P.A. Russell (Dr. Leader)
A.J. Sanders (Dr. Leader)
Tom Sanders (Prof. Gowers)
Peter Wagner (Prof. Thomason)
Julia Wolf (Prof. Gowers)

Lecture courses
Numbers and Sets (24 lectures, Part 1A, Prof. Gowers)
Codes and Cryptography (12 lectures, Part 2A)
Graph Theory (16 lectures, Part 2A)
Combinatorics (16 lectures, Part 2B, Prof. Thomason)
Topics in Combinatorics (24 lectures, Part 3, Prof. Gowers)
Probabilistic Combinatorics (24 lectures, Part 3, Prof. Thomason)
Ramsey Theory (16 lectures, Part 3, Dr. Leader)

Seminar
Combinatorics (Thursdays at 2p.m.)

Judge Institute of Management
Trumpington Street, Cambridge CB2 1AG
Tel: 01223 339700  Fax: 01223 339701
http://www.jims.cam.ac.uk/
Dr R. Steinberg

UNIVERSITY OF CARDIFF

School of Computer Science
Cardiff University, Queen's Buildings, Newport Road, PO Box 916, Cardiff CF24 3XF.
Tel: 029 2087 4812  Fax: 029 2087 4598
http://www.cs.cardiff.ac.uk/
S.M. Allen* (20876070) (mobile communications, frequency assignment, combinatorial optimisation, latin squares)
S. Hurley (20874749) (mobile communications, frequency assignment, combinatorial optimisation)
R. Whitaker (20876999) (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)

CITY UNIVERSITY LONDON

Faculty of Actuarial Science and Statistics
Cass Business School, 106 Bunhill Row, London EC1Y 8TZ
Tel: 020 7040 0140   Fax: 020 7040 8772
http://www.cass.city.ac.uk/facact
Prof. C. Glass

UNIVERSITY OF DUNDEE

Division of Applied Computing
University of Dundee, Dundee DD1 4HN.
Tel: 01382 344151   Fax: 01382 345509
http://www.computing.dundee.ac.uk
Dr. K.J. Edwards*(Graph colourings, graph decompositions, complexity) (344463)
Research student
D. Campbell (Dr. Edwards).

Division of Mathematics
University of Dundee, 23 Perth Road, Dundee DD1 4HN.
Tel. 01382 344471   Fax 01382 345516
http://www.maths.dundee.ac.uk
Sands, Dr. Arthur (Combinatorial problems on finite Abelian groups; retired)
Current Periodicals: T, V, b, d

DURHAM UNIVERSITY

Department of Mathematical Sciences
University of Durham, South Road, Durham DH1 3LE.
Tel: 0191 374 2349   Fax: 0191 374 7388
http://www.maths.dur.ac.uk
Dr. N. Martin*

Department of Computer Science
Science Laboratories, South Road, Durham DH1 3LE
Tel: 0191 33 41700   Fax:0191 33 41701
http://www.dur.ac.uk/computer.science
Prof. H. Broersma
UNIVERSITY OF EAST ANGLIA, NORWICH

School of Mathematics
University of East Anglia, Norwich NR4 7TJ.
Tel: 01603 456161  Fax: 01603 259515
http://www.mth.uea.ac.uk
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
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)

UNIVERSITY OF EDINBURGH

School of Informatics
2 Buccleuch Place, Edinburgh EH8 9LW
Tel. 0131 650 2691  Fax: 0131 650 6626
http://www.inf.ed.ac.uk
Dr. Mary Cryan (algorithms and complexity)
Prof. Mark Jerrum* (combinatorial algorithms, computational complexity, random
structures)

Lecture Courses
Algorithms and Data Structures (3rd year u/g)
Computability and Intractability (3rd year u/g, MSc)
Computational Complexity (4th year u/g, MSc, 1st year PhD)

Current Periodicals: E, H, M, T, X, Y,

UNIVERSITY OF ESSEX

Department of Mathematical Sciences
University of Essex, Wivenhoe Park, Colchester CO4 3SQ.
Tel: 01206 873040 Fax: 01206 873043
http://www.essex.ac.uk/maths
Prof. P.M. Higgins* (combinatorics of algebraic semigroup theory)
Tel: 01206 873019 Fax: 01206 873043
Dr. David Penman
Mr. Chris Saker
Dr. A. Salhi (combinatorial optimisation)
Dr. Alexei Vernitski
Tel: 01206 873022 Fax: 01206 873043
Research students
Eleni Maistrelli

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

Department of Mathematical Sciences
University of Exeter, North Park Road, Exeter EX4 4QE.
Tel: 01392 264464 Fax: 01392 263997
http://www.maths.ex.ac.uk/indexpage
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)
Prof. P. Vámos (representation of matroids)

Lecture courses
Discrete Mathematics (30 lectures, 1st year u/g, Robin Chapman)
Graph theory (33 lectures, 3rd year u/g, Peter Firby)
Coding Theory (3rd year u/g, Dr. Stratton)
Current periodicals: C, D, W
UNIVERSITY OF GLAMORGAN

Division of Mathematics and Statistics
University of Glamorgan, Pontypridd, Mid Glamorgan CF37 1DL.
Tel: 01443 482251    Fax: 01443 482711
http://www.glam.ac.uk/sot/doms
Prof. D.H. Smith* (frequency assignment, network reliability, coding theory)
Dr. S. Perkins (coding theory, synchronization)
Dr. A. Robertshaw (graph 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

Department of Mathematics
University of Glasgow, University Gardens, Glasgow G12 8QW.
Tel: 0141 330 5176    Fax: 0141 330 4111
http://www.maths.gla.ac.uk
Dr. I. Anderson* (designs, whist tournaments)
Dr. S.D. Cohen (application of finite fields)
Research student
L. Ellison (designs, Dr. Anderson)
Lecture courses
Designs and codes (25 lectures, 4th year u/g, Dr. Anderson)
Discrete mathematics (24 lectures, 3rd year u/g, Dr. Anderson)
Graphs and networks (22 lectures, 2nd year u/g, Dr. Steiner)
Occasional combinatorial seminars

Department of Computing Science
17 Lilybank Gardens, Glasgow G12 8QQ
Tel: 0141 330 4256    Fax: 0141 330 4913
http://www.dcs.gla.ac.uk
Dr. R.W. Irving (combinatorial and graph algorithms)
Dr. D.F. Manlove (combinatorial and graph algorithms)
Lecture course
Algorithms (4th year u/g)
Research students
Greg O'Malley (Dr. Manlove)
Colin Sng (Dr. Manlove)
Lecture courses
Algorithms (4th 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

School of Computing and Mathematical Sciences
Glasgow Caledonian University, Cowcaddens Road, Glasgow G4 0BA.
Tel: 0141 331 3609    Fax: 0141 331 3005
http://www.gcal.ac.uk/cms
Dr. V. Jha* (finite geometries)
Current periodicals: none

GOLDSMITHS COLLEGE

Department of Computing
Goldsmiths College, University of London, New Cross, London SE14 6NW.
Tel: 0207 919 7850    Fax: 0207 919 7853
http://www.mcs.gold.ac.uk
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 (3rd year u/g)
Data Structures and algorithms (2nd 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

School of Computing and Mathematical Sciences
University of Greenwich, London, SE18 6PF
Tel: 0208 316 8000    Fax: 0208 855 4033
http://cms1.gre.ac.uk
Prof. V.A. Strusevich (Scheduling Theory)
Current Periodicals: T

HERIOT-WATT UNIVERSITY

Department of Mathematics
Heriot-Watt University, Riccarton, Edinburgh EH14 4AS.
Tel: 0131 451 3221    Fax: 0131 451 3249
http://www.ma.hw.ac.uk/maths.html
Dr. A.R. Prince* (finite geometries, finite group theory)
Lecture course
Discrete mathematics (45 lectures, 3rd year honours degree, Dr. Prince)

Department of Actuarial Mathematics and Statistics
Heriot-Watt University, Riccarton, Edinburgh EH14 4AS.
Tel: 0131 451 3202 Fax: 0131 451 3249
http://www.ma.hw.ac.uk/ams.html
Dr. Jennie Hansen
Current periodicals: E, F, I, c, g, h

UNIVERSITY OF HULL

Department of Mathematics
University of Hull, Cottingham Road, Hull HU6 7RX.
Tel: 01482 465885 Fax: 01482 466218
http://www.hull.ac.uk/maths/
Prof. R. Shaw* (Emeritus) (finite geometry)

Department of Computer Science
University of Hull, Hull HU6 7RX
Tel: 01482 465951/465067 Fax: 01482 466666
http://www2.dcs.hull.ac.uk
Dr. N.A. Gordon (465038) (finite geometry, computer algebra)
Research report series
http://www.hull.ac.uk/maths/people/rs/staffdetails.html

Current periodicals: J, P, R, T

IMPERIAL COLLEGE LONDON

Department of Mathematics
Imperial College London, London SW7 2AZ.
Tel: 0207 594 8517 Fax: 0207 594 8483
http://www.ma.ic.ac.uk
Prof. G.D. James
Prof. M. Liebeck
Dr. L. White

KEELE UNIVERSITY

Department of Mathematics
Keele University, Keele, Staffordshire ST5 5BG.
Tel: 01782 583258 Fax: 01782 584268
http://www.keele.ac.uk/depts/ma/maths.html
Dr. D. Bedford* (583468) (latin squares; designs)
http://www.keele.ac.uk/depts/ma/people/db.html
Dr. J. Preater
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

Institute of Mathematics, Statistics and Actuarial Science
Cornwallis Building, University of Kent, Canterbury, Kent CT2 7NF.
Tel: 01227 827181 Fax: 01227 827932
http://www.kent.ac.uk/IMS/
G.M. Clarke (823280) (non-orthogonal Graeco-Latin designs)
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, 3rd year u/g, Dr. Woodcock)
Computational algebra (30 lectures, 3rd year u/g, Prof. Fleischmann)

Current periodicals: E, F, T

KING'S COLLEGE LONDON

Department of Computer Science
King's College, Strand, London, WC2R 2LS
Tel 020 7848 2588 Fax: 020 7848 2851
http://www.dcs.kcl.ac.uk
Dr Colin Cooper

UNIVERSITY OF LANCASTER

Department of Mathematics and Statistics
Fylde College, University of Lancaster, Lancaster LA1 4YF.
Tel: 01524 593960 Fax: 01524 592681
http://www.maths.lancs.ac.uk
Prof. A.G. Chetwynd (combinatorial applications in statistics)
http://www.maths.lancs.ac.uk/~chetwynd/

Current periodicals: E, F, T, Y, b, e
UNIVERSITY OF LEEDS

School of Mathematics
University of Leeds, Leeds LS2 9JT.
Tel: 0113 3435140    Fax: 0113 3435090
http://amsta.leeds.ac.uk
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, 2nd 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.maths.leeds.ac.uk/Pure/preprints

School of Computing
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)
Lecture courses
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/research/pubs/reports.shtml
Current periodicals: P, X, Y

UNIVERSITY OF LEICESTER

School of Mathematics and Computer Science
University of Leicester, University Road, Leicester LE1 7RH.
Tel: 0116 2523887    Fax: 0116 2523604
http://www.mcs.le.ac.uk
Dr. T. Erlebach (2523411) (approximation algorithms, algorithmic graph theory)
http://www.mcs.le.ac.uk/~terlebach
Dr. M. Hoffmann (2523895) (combinatorial semigroup theory, algorithmic graph theory)  
http://www.cs.le.ac.uk/~mhoffmann
Dr. R.J. Marsh (2525107) (Representation theory, cluster algebras, quantum groups, Lie theory)  
http://www.mcs.le.ac.uk/~rmash
Prof. R. Raman (2523894) (Algorithm engineering, data structures)  
http://www.cs.le.ac.uk/~rraman
Dr J. Scott (2525392) (Combinatorial and representation theoretic aspects of cluster algebras)
Prof. R.M. Thomas* (2523885) (combinatorial group and semigroup theory, automata theory)  
http://www.mcs.le.ac.uk/~rthomas

Research students
A. Fonseca (Prof. Thomas, groups and formal languages)
M. Mihalak (Dr. Erlebach, Approximation algorithms for combinatorial optimisation problems)
G. Oliver (Prof. Thomas, FA-presentable structures)
M. Parsons (Dr. Marsh, cluster algebras and representation theory).

Lecture courses
Logic and Discrete Structures (40 lectures, 1st year u/g, Prof. Thomas)
Algorithms and Data Structures (30 lectures, 1st year u/g, Dr. Measor and Dr. Schmitt)
Pure Mathematics at Work (18 lectures, 1st year u/g, Dr. Snashall)
Automata, Languages and Computation (30 lectures, 2nd year u/g, Prof. Thomas and Dr. Erlebach)
Design and Analysis of Algorithms (30 lectures, 2nd year u/g, Dr. Schmitt)

Seminars The school 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.math.le.ac.uk/RESEARCH/PURE/SEMINARS/main_seminar.html
http://www.math.le.ac.uk/RESEARCH/APPLIED/SEMINARS/main_seminar.html

Technical Reports
The school has a technical report series; copies of the reports may be obtained on request. Details are available on the web at:
http://www.mcs.le.ac.uk/research/publications

School of Psychology
The University of Leicester, University Road, Leicester LE1 7RH, UK
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

Department of Mathematics
London School of Economics, Houghton Street, London WC2A 2AE.
Tel: 0207 955 7732 Fax: 0207 955 6877
http://www.maths.lse.ac.uk
Prof. Steve Alpern (ergodic theory, game theory, search theory)
Prof. 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. Malwina Luczak (probability and discrete mathematics)
Dr. Bernhard von Stengel (game theory and complexity)

Research students
Luis Cereceda
Raju Chinthalapati
Marianne Fairthorne
Nic Georgiou
Rahul Savani

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
London School of Economics, Houghton Street, London WC2A 2AE
Tel: 0207 955 7653  Fax: 0207 955 6855
http://www.lse.ac.uk/collections/operationalResearch
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, Dr. Simon)
Combinatorial Optimization (20 lectures, M.Sc., Dr. Appa)
Theory of Algorithms (20 lectures, 3rd year u/g, Dr. von Stengel)
Computational Learning Theory and Neural Networks (20 lectures, M.Sc., Prof. Anthony)
Algorithms and Computation (20 lectures, M.Sc., Dr. von Stengel)
Discrete Mathematics and Complexity (20 lectures, M.Sc., Dr. van den Heuvel)
Information, Communication and Cryptography (20 lectures, M.Sc., Prof. Biggs)

Seminar and Workshop
Seminar on Discrete and Applicable Mathematics, Thursdays 2:00, Dr. Luczak
CDAM Informal Workshop, Fridays 4:00, Dr. Simon

LONDON SOUTH BANK UNIVERSITY

Faculty of Business, Computing and Information Management
B.C.I.M., London South Bank University, 103 Borough Road, London SE1 0AA.
Tel: 0207 928 8989  Fax: 0207 815 7793
http://www.lsbu.ac.uk/bcim
Jennings, Dr. Sylvia* (coding theory, text compression)
Rutherford, Dr. Carrie (matroid theory)
Whitty, Prof. Robin (Graph theoretical modelling 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).
Option in Applied Cryptography occurs in the final year (S. Jennings)

Working Paper Series
http://www.bcim.lsbu.ac.uk/publications/tech_rep/index.html

Current periodicals: T

UNIVERSITY OF MANCHESTER / UMIST

School of Mathematics (University of Manchester)
University of Manchester, Oxford Road, Manchester M13 9PL.
Tel: 0161 275 5800    Fax: 0161 275 5819
http://www.ma.umist.ac.uk/newmaths/

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)

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

School of Mathematics (UMIST)
UMIST, P.O. Box 88, Manchester M60 1QD.
Tel: 0161 200 3641    Fax: 0161 200 3669
http://www.ma.umist.ac.uk/newmaths/

Prof. A.V. Borovik (matroids and generalisations, Coxeter matroids, Coxeter groups),
Prof. R.M. Bryant,
Prof. P.J. Laycock,
Prof. P.J. Rowley

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

Mathematics and Statistics Group
Middlesex University Business School, The Burroughs, London, NW4 4BT
Tel: 020 8411 6824
http://mubs.mdx.ac.uk/Subjects/Mathematics

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

David F Jarrett, (Graph Theory applied to traffic modelling)
Prof. Chris Wright (Graph theory, routing on networks)

Lecture Course
Discrete Mathematics for Information Systems (1st yr u/g)

Current Periodicals: F, T, b

UNIVERSITY OF NEWCASTLE UPON TYNE

School of Mathematics and Statistics
Newcastle University, Newcastle upon Tyne NE1 7RU.
Tel: 0191 222 6000    Fax: 0191 222 8020
http://www.ncl.ac.uk/mathematics/
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, finite geometry)
Prof. 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

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

School of Mathematical Sciences
University of Nottingham, University Park, Nottingham NG7 2RD.
Tel: 0115 951 4949    Fax: 0115 951 4951
http://www.maths.nottingham.ac.uk
Dr. D.R. Woodall* (951 4959) (graph colourings, chromatic polynomials, electoral systems) http://www.maths.nottingham.ac.uk/personal/drw

Research students
T.J. Hetherington (Dr. Woodall)
A.R. Philpotts (Dr. Woodall)
R.J. Waters (Dr. Woodall)

Lecture courses
Introductory Graph Theory (30 lectures, 3rd yr u/g, Dr. Diamantis)
Combinatorics (30 lectures, 3rd and 4th year u/g, Dr. Woodall)
Coding and cryptography (30 lectures, 3rd year u/g, Dr. Woodall)

Current periodicals: none
**Faculty of Mathematics and Computing**
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://mcs.open.ac.uk/appliedmaths/
Dr. U. Grimm (659991) (enumerative combinatorics, words, tilings, applications to physics)
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*
P. Borg (Dr. Holroyd, Dr. Quinn and Dr. Webb) (Erdös-Ko-Rado properties of graphs)
A.D. Forbes (part-time, Prof. Grannell and Prof. Griggs) (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)
D. Parks (part-time, Dr. Wilson) (developments in graph theory during the 20th century)
I. Watts (part-time, Dr. Holroyd) (graph homomorphisms, generalisations of graph colourings)

**Faculty of Technology**
The Open University, Walton Hall, Milton Keynes MK7 6AA.
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)


UNIVERSITY OF OXFORD

The Mathematical Institute
24-29 St. Giles, Oxford OX1 3LB.
Tel: 01865 273525 Fax: 01865 273583
http://www.maths.ox.ac.uk
Prof. D.J.A. Welsh (Merton) (applied probability, complexity)
Dr. R. Leese (St. Catherine's) (channel assignment problems)
Dr. Anna de Mier
Dr. Andrew J. Goodall (Merton)
Visitor
Prof. James Oxley (Merton, April to July 2005)

Research students
Rhiannon Hall (Profs McDiarmid and Welsh)
Dillon Mayhew (Prof Welsh)

Department of Statistics
1 South Parks Road, Oxford OX1 3TG.
Tel: 01865 272860 Fax: 01865 272595
http://www.stats.ox.ac.uk
Prof. C.J.H. McDiarmid* (Corpus Christi) (probability and algorithms, probabilistic methods in combinatorics, colouring problems)
Dr G. Reinert
Research students
Ross Kang (Prof McDiarmid)
Philipp Kostuch (Prof McDiarmid)
Kaisheng Lin (Prof Reinert)
Tobias Mueller (Prof McDiarmid)

Computing Laboratory
Wolfson Building, Parks Road, Oxford OX1 3QD
Tel: 01865 73838 Fax: 01856 73839
http://web.comlab.ox.ac.uk/oucl/
Dr Raphael Hauser

Lecture courses
Combinatorial optimisation (12 lectures, 2nd year u/g, Prof. McDiarmid)
Communication theory (16 lectures, 3rd year u/g, Dr. Stirzaker)
Enumerative Combinatorics (16 lectures, 4th u/g, Dr. de Mier)
Integer programming (16 lectures, 3rd year u/g, Dr. Hauser)
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

Department of Mathematics
Buckingham Building, Lion Terrace, Portsmouth, Hampshire PO1 3HE
Tel: 023 9284 6367    Fax: 023 9284 6364
http://www.port.ac.uk/departments/academic/maths
Dr. A. Makroglou
Current periodicals: X, Y, b

QUEEN MARY, UNIVERSITY OF LONDON

School of Mathematical Sciences (Mathematics Research Centre)
Queen Mary, University of London, Mile End Road, London E1 4NS.
Tel: 0207 975 5440    Fax: 0208 980 9587
http://www.maths.qmul.ac.uk/MRC
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)
Professor Bill Jackson (graph theory)
Dr. J. R. Johnson (graph theory and combinatorics)
Dr. Thomas Müller (group theory, combinatorics, analysis)
Dr. T. Prellberg (statistical mechanics, dynamics, enumerative combinatorics)
Dr. L.H. Soicher (5463) (computational group theory, graph theory, finite geometry, design theory)
Dr. D. S. Stark (probability and combinatorics)
Prof. R. A. Wilson (computational group theory)
Researchers
Dr. J. N. Bray (Research assistant: group theory)
Prof. Dan Hughes (Emeritus Professor: finite geometry)
Prof. Donald Preece (Professorial fellow)
Dr. Sam Tarzi
Research students
Fatma Al-Kharoosi (Prof. Cameron: coding theory)
John Arhin (Dr. Soicher; existence and structure of SOMAs)
Robert Bailey (Professor Cameron; coding theory)
Cheng Yeaw Ku (Professor Cameron; extremal theory for permutations)
Josephine Kusuma (Prof. Cameron: coding theory)
Debbie Lockett (Prof. Cameron: homogeneous structures)
Rebecca Lodwick (Professor Bailey; crossover trials)
Jason Rudd (Prof. Cameron: graph and matroid polynomials)
Adam Watson (Prof. Jackson: graph theory, matroid theory, rigidity)
Taoyang Wu (Dr. Riis/Prof. Cameron: Network coding)

Lecture courses
Discrete mathematics (36 lectures, 1st year u/g, Dr. McKay)
Games and Linear Programming (36 lectures, 2nd year u/g, Dr. Johnson)
Algorithmic Mathematics (36 lectures, 2nd year u/g., Dr. Just)
Graph Theory and Applications (36 lectures, 2nd year u/g., Prof. Leedham-Green)
Combinatorics (36 lectures, 3rd year u/g, Prof. Jackson)
Coding Theory (36 lectures, 3rd year u/g., Dr. Fayers)
Cryptography (36 lectures, 3rd year u/g, Prof. Wilson)
Enumerative and Asymptotic Combinatorics (24 lectures, M.Sc., Prof. Cameron)
Sets, logic and categories (24 lectures, 4th year, M.Sc., Dr. Chiswell)

Seminars
Combinatorics study group (Prof. Cameron, Fridays 4:30pm)
Design of Experiments (Prof. Bailey, Thursday 4:30pm)
Pure Mathematics (Dr. Leedham-Green and Dr. McKay, 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 378 8996 Fax: 0118 931 3423
http://www.extra.rdg.ac.uk/Maths/index.asp
Dr. J.K. Dugdale (graph theory) Tel: 0118 378 5012
Prof. A.J.W. Hilton* (graph theory, design theory, finite set systems) Tel: 0118 378 8989
Dr.W.R. Johnstone (graph theory) Tel: 0118 378 5013
Dr. D.S.G. Stirling (graph theory)
Honorary fellow
Dr. D.C. Daykin

Research Students
Claire Spencer (extremal finite set theory)
Matthew Henderson (edge-colouring problems for complete graphs)
David Cariolaro (edge-colouring problems)

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

**Biomathematics Unit**
IACR - Rothamsted, Harpenden, Herts AL5 5RJ
Tel: 01582 763133    Fax: 01582 4671166
http://www.rothamsted.bbsrc.ac.uk
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

**Department of Mathematics**
Royal Holloway, Egham Hill, Egham, Surrey TW20 0EX.
Tel: 01784 443093    Fax: 01784 430766
http://www.ma.rhul.ac.uk
Dr. S. Blackburn (enumeration of groups, applications of algebraic methods to data communications, coding theory, cryptography)
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. 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. K. Paterson
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 (Vodaphone Ltd),
*Research students*
*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)

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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
Royal Holloway, Egham Hill, Egham, Surrey TW20 0EX.
Tel: 01784 443421    Fax: 01784 443420 http://www.cs.rhul.ac.uk
Prof. Z.G. Gutin
Dr. A. Yeo

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

UNIVERSITY OF ST. ANDREWS

School of Mathematics and Statistics
The Mathematical Institute, North Haugh, St. Andrews, Fife KY16 9SS.
Tel: 01334 463745    Fax: 01334 463748 http://www.mcs.st-and.ac.uk
Dr. P. Campbell (combinatorial group and semigroup theory)
Dr. C.M. Campbell (combinatorial group theory, combinatorics of semigroup presentations)
R.L. Constable (combinatorics)
Prof. K.J. Falconer (combinatorial geometry)
Dr. S. Huczynska (Applications of finite fields)
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 3rd/4th year u/g.

School of Computer Science
North Haugh, St Andrews, Fife KY16 9SS.
UNIVERSITY OF SALFORD

Mathematics Section, School of Computing, Science and Engineering
University of Salford, Salford M5 4WT.
Tel: 0161 295 4635
http://www.cse.salford.ac.uk
Prof. R. Hill* (coding theory, finite geometry)
Current periodicals: J, P, T, h

UNIVERSITY OF SOUTHAMPTON

School of Mathematics
University of Southampton, Southampton SO17 1BJ.
Tel: 023 8059 3612 Fax: 023 8059 5147
http://www.maths.soton.ac.uk
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, 3rd/4th 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, 3rd/4th year u/g, Prof. Jones)
Finite Mathematics (36 lectures, 3rd/4th year u/g, Dr. Jim Renshaw)
Graph Theory (36 lectures, 3rd/4th year u/g, Dr. Jim Renshaw)

School of Electronics and Computer Science
University of Southampton SO17 1BJ
STAFFORDSHIRE UNIVERSITY

Division of Mathematics and Statistics
School of Computing, Staffordshire University, Leek Road, Stoke-on-Trent, ST4 2AZ.
Tel/Fax: 01782 294026
http://www.soc.staffs.ac.uk
Burrows, Prof. Brian  cmtblb@soc.staffs.ac.uk
Easton, Dr. Sarah*  cmtsjje@soc.staffs.ac.uk
Pratt, Mr. Fred  cmtjfo@soc.staffs.ac.uk

UNIVERSITY OF STIRLING

Mathematics and Statistics Group, Department of Computing Science & Mathematics
The University of Stirling, Dept. of Computing Science and Mathematics, Stirling, Scotland FK9 4LA.
Tel: 01786 467460  Fax: 01786 464551
http://www.cs.stir.ac.uk/maths/
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, H, V, X, Y, b, d

UNIVERSITY OF SURREY

Department of Mathematics and Statistics
University of Surrey, Guildford, Surrey GU2 7XH.
Tel: 01483 300800  Fax: 01483 686071
http://www.maths.surrey.ac.uk
Honorary Visiting Senior Research Fellow
Dr. A.D. Keedwell* (Latin squares and quasigroups, finite projective planes, coding theory)
Lecture courses
Groups and symmetry (30 lectures, 2nd year u/g, Dr Hydon)
Algorithms and data structures (24 lectures, 2nd year u/g, Mr Bish)
Statistical methods (30 lectures, 2nd year u/g, Dr Godolphin)
Current periodicals: C, E, F, T, i

UNIVERSITY OF SUSSEX

Department of Mathematics
Mantell Building, University of Sussex, Falmer, Brighton, East Sussex BN1 9RF.
Tel: 01273 877345    Fax: 01273 678097
http://www.sussex.ac.uk/maths
Prof. J.W.P. Hirschfeld* (finite geometry, algebraic geometry, coding theory)
http://www.maths.susx.ac.uk/Staff/JWPH/
Research students
M. Aghaei (Prof. Hirschfeld, coding theory)
Lecture courses
Algebra and its Applications I (30 lectures, 3rd/4th year u/g, Dr. Fenn)
Algebra and its Applications II (36 lectures, 3rd/4th year u/g, Prof. Hirschfeld)
Research reports
http://www.sussex.ac.uk/maths/1-4-1.html.
Current periodicals: E, F, T, X, c

UNIVERSITY OF WALES SWANSEA

Department of Mathematics
University of Wales Swansea, Singleton Park, Swansea SA2 8PP
Tel: 01792 295457    Fax: 01792 295843
http://www-maths.swan.ac.uk
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)

UNIVERSITY COLLEGE LONDON

Department of Mathematics
University College London, Gower Street, London WC1E 6BT.
Tel: 020 7679 2839    Fax: 020 7383 5519
http://www.ucl.ac.uk/Mathematics
Prof. K.M. Ball,
Prof. I. Bárány,
Prof. M. Csornyei
Dr. J.A. Haight,
Prof. M. Laczkovich
Prof. D.G. Larman,
Prof. P. McMullen,
Prof. D. Preiss,
Prof. C.A. Rogers (retired),
Dr. A.D. Scott*,

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Dr. J. Talbot  
Postdoctoral fellow  
Dr. Laura Wisewell  
Research students  
Tom Rackham, Atsushi Tateno, Natalia Garcia-Colin, Maria Prodromou  

Lecture courses  
Optimisation (2nd year u/g)  
Graph Theory and Combinatorics (3rd year u/g)  
Geometry of numbers (3rd year u/g, Prof. Larman)  
Computational Geometry (3rd year u/g, Prof. McMullen)  
Game theory (3rd year u/g, Prof. Binmore)  

Seminar  
Colloquium (Wednesdays at 2.30 p.m.)  
Informal Seminar (Wednesdays at 4.30pm)  

Department of Economics  
University College London, Gower Street, London WC1E 6BT  
Tel: 020 7679 5888     Fax: 020 7916 2775  
http://www.econ.ucl.ac.uk  
Prof. K. Binmore  

VODAFONE GROUP RESEARCH AND DEVELOPMENT - UK  
Vodafone House, 1 The Connection, Newbury RG14 2FN.  
Tel: 01635 33251    Fax: 01635 31127  
http://www.vodafone-rnd.com/whoweare/uk.htm  
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  
Department of Computer Science  
University of Warwick, Coventry, CV4 7AL.  
Tel: 024 7652 3193    Fax: 024 7657 3024  
http://www.dcs.warwick.ac.uk/  
http://www.dcs.warwick.ac.uk/research/acrg/  
Dr. L.A. Goldberg*,  
Dr. Paul Goldberg,  
Dr. R. Martin,  
Prof. M. Paterson,  
Research Students  
Markus Jalsenius, Peter Krusche, Nick Palmer, Kasper Pederson, Pattarawait Polpinit  
Lecture courses  
Mathematics for computer scientists (1st year u/g)  
Discrete Maths 1 (1st year u/g)  
Discrete Maths 2 (1st year, u/g)  

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Data Structures and Algorithms (2nd year, u/g)
Complexity of Algorithms (3rd year, u/g)

Warwick Business School
Phone: 024-76528220   Fax: 024-76524539
http://www.wbs.ac.uk
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 masters students)
Operational Research (4rd year, u/g)
Optimisation (masters students)

UNIVERSITY OF THE WEST OF ENGLAND, BRISTOL

Faculty of Computing, Engineering and Mathematical Sciences
University of the West of England, Coldharbour Lane, Bristol BS16 1QY.
Tel: 0117 344 2783   Fax: 0117 344 2734
http://www.uwe.ac.uk/cems/
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
List C: Recent and forthcoming publications

This list contains combinatorial books and papers that have been published, accepted or submitted for publication since the last issue of the Bulletin—i.e., during (approximately) the calendar year 2004. This should not be taken as a complete record of all such publications during the period, and absence of listed papers for any individual should not be taken to imply absence of research activities.

Abraham, D.J., Irving, R.W. and Manlove, D.F.
Two algorithms for the student-project allocation problem, submitted.

Abraham, D.J., Irving, R.W., Mehlhorn, K. and Telikepalli, K.

Abreu, M., Aldred, R. E., Funk, M., Jackson, B. and Sheehan, J.

Adams, P., Bryant, D.E., Grannell, M.J. and Griggs, T.S.

Al-Kenani, A. N. and Mavron, V. C.
Maximal arc partitions of designs. To appear in Discrete Mathematics.

Alon, N., Brightwell, G., Kierstead, H. A., Kostochka, A. V. and Winkler, P.

Allen, S. M.
[see also: Montemanni]

Alpern, S. and Baston, V.

Alpern, S. and Baston, V.
A common notion of clockwise can help in planar rendezvous. CDAM Research Report, 2004-07.

Alpern, S. and Baston, V.
Rendezvous on a planar lattice. CDAM Research Report, 2004-08.

Alpern, S.
Bilateral street searching in Manhattan. CDAM Research Report, 2004-09.

Amaldi, E., Belotti, P. and Hauser, R.
Amaldi, E. and Hauser, R.
Boundedness theorems for the relaxation method. Accepted for publication in Math. of OR.

Anderson, I., van Asch, B. and van Lint, J. H.

Anderson, I. and Ellison, L.

Anderson, I. and Ellison, L.

Anderson, I. and Ellison, L.
Z-cyclic directed moore (2,6) generalised whist tournament designs on p elements where p=7 (mod 12), Ars Combinatoria, to appear.

Anderson, I. and Finizio, N.

Anderson, I. and Preece, D.A.
Narcissistic half-and-half power-sequence terraces for Zn with n = pqt, Discrete Math. 279 (2004), 33-60.

Anderson, I. and Preece, D.A.

Anderson, I. and Preece, D.A.
Some power-sequence terraces for Zpq with as few segments as possible, Discrete Math., to appear.

Anderson, I. and Preece, D.A.

Anthony, M.

Anthony, M.

Anthony, M.
Anthony, M. and Hammer, P. L.
RUTCOR, Rutgers Center for Operations Research, Rutgers University, New

Anthony, M.

Anthony, M. and Franco, L.
On a generalization complexity measure for Boolean functions. *Proceedings of the

Anthony, M.
Some connections between learning and optimization. *Discrete Applied

Babbage, S.
‘Stream Ciphers: What does Industry Want?’, presented at the ECRYPT ‘State of
the Art in Stream Ciphers’ workshop, October 2004, and available in the workshop

Babbage, S.
[see also: Maximov]

Bailey, R. A.
Association Schemes: Designed Experiments, Algebra and Combinatorics,
Cambridge Studies in Advanced Mathematics 84, Cambridge University Press,

Bailey, R. A.
Principles of designed experiments in J. A. Nelder's papers, in Methods and
Models in Statistics: In Honour of Professor John Nelder FRS (eds. N. M. Adams,
M. J. Crowder, D. J. Hand and D. A. Stephens), Imperial College Press, London,

Bailey, R. A.
Generalized wreath products of association schemes, *European Journal of
Combinatorics*, to appear.

Bailey, R. A.

Bailey, R. A.

Bailey, R. A. and Cameron, P. J.

Bailey, R. A. and Druilhet, P.

Balakrishnan, R., Sethuraman, G. and Wilson, R.J.

Ball, S. and Hirschfeld, J. W.P.
Bounds on (n,r)-arcs and their application to linear codes, submitted.

Barat, J., Edel, Y., Hill, R. and Storme, L.

Baston, V.
[see also: Alpern]

Batty M., Braunstein S.L., Duncan A.J. and Rees S.E.,

Batty,M., Duncan, A.J. and Braunstein, S. L.,

Beineke, L., Wilson, R. and Cameron, P.J.

Beineke, L.W. and Wilson, R.J.

Bennett, G.K., Grannell, M.J., Griggs, T.S., Korzik, V.P. and Siran, J.
Small surface trades in triangular embeddings, submitted.

Bennett, G.K., Grannell, M.J. and Griggs, T.S.

Bennett, G.K., Grannell, M.J. and Griggs, T.S.
Exponential lower bounds for the numbers of Skolem-type sequences, Ars Combin., 73 (2004), 101-106.
Bell F.K., Li Marzi E. M. and Simic S.K.,
Some new results on graphs with least eigenvalue not less than 2, *Rendiconti del

**Biggs, N., Klin, M. H. and Reinfeld, P.**
Algebraic methods for chromatic polynomials. *European Journal of Combinatorics*,

**Biggs, N.**

**Bonin, J. and de Mier, A.**
10-30.

**Bonin, J. and de Mier, A.**
31-43.

Approximate Counting and Quantum Computation, to appear in Combinatorics,

A new upper bound on the cyclic chromatic number. *CDAM Research Report*,
2004-04.

**Braams, R., Carlisle, D., Detig, C., Goossens, M., Mittelbach, F., Rowley, C.A. and Schrod, J.**

**Brightwell, G. and Tetali, P.**

**Brightwell, G. and Winkler, P.**
Graph homomorphisms and long range action. In *Graphs, Morphisms and
Statistical Physics* (J. Nešetřil and P. Winkler eds.), DIMACS Series in Discrete

**Brightwell, G. and Winkler, P.**
A second threshold for the hard-core model on a Bethe lattice. *Random Structures

**Brightwell, G. and Winkler, P.**
Counting Eulerian circuits is P-complete. To appear in the proceedings of the 2005
Workshop on Analytic Algorithmics and Combinatorics (ANALCO05); also
Broersma, H. J.,
[see also: Borodin]

Buan, A. B. Marsh, R. J. and Reiten, I.

Buan, A. B. Marsh, R. J. and Reiten, I.

Buan, A. B. Marsh, R. J. Reineke, M., Reiten, I. And Todorov, G.

Bryant, D.E., Grannell, M.J. and Griggs, T.S.

Bryant, D.E., Grannell, M.J., Griggs T.S. and Macaj, M.

Bryant, D.E, Maenhaut, B.M., Quinn, K.A.S. and Webb, B.S.

Buckley, P.G. and Osthus, D.
Popularity based random graph models leading to a scale-free degree distribution, Discrete Mathematics 282 (2004) 53-68.

Caldero, P., Marsh, R.J. and Morier-Genoud, S.

Cameron, P. J.

Cameron, P. J.

Cameron, P. J.
Cameron, P. J.

Cameron, P. J.

Cameron, P. J.
The random graph has the strong small index property, Discrete Math., to appear.

Cameron, P. J.

Cameron, P. J. (editor),

Cameron, P. J. and Johnson, C. R.
The number of equivalence classes of symmetric sign patterns, Discrete Math., to appear.

Cameron, P. J. and Knarr, N.

Cameron, P. J. and Müller, T. W.
A cohomological property of p-groups, Archiv der Mathematik 82 (2004), 200-204.

Cameron, P. J. and Nešetřil, J.

Cameron, P. J. and Tarzi, S.

Cameron, P. J. and Wanless, I. M.

Cameron, P. J.
[see also: Bailey and Beineke]

Cechlarova, K. Irving, R. W. and Manlove, D.F.
Cieliebak, M. Erlebach, T., Liptak, Zs., Stoye, J. and Welzl, E.  

Cvetkovic, D. and Rowlinson P.  

Cvetkovic D., Rowlinson P. and Simic S.,  

Darby-Dowman, K  
[see also: Nwana]

Duckworth, W., Manlove, D.F. and Zito, M.  

Duncan, A.J. and Gilman, R.H.,  

Duncan, A.J.,  
Exponential genus problems in one-relator products of groups, submitted.

Duncan, A.J.,  
[see also: Batty]

Edwards, K.J.  

Edwards, K.J. and Farr, G.E.,  

Edwards, K.J. and Farr, G.E.,  
Planarization and fragmentability of some classes of graphs, submitted.

Edwards, K.J., Hořňák, M. and Woźniak, M.  
On the neighbour-distinguishing index of a graph, submitted.

Ellison, L.  
[see also: Anderson]

Erlebach, T. and Hall, A.  
Erlebach, T. Jansen, K. and Seidel, E.

Erlebach, T. and Jansen, K.

Forbes, A.D., Grannell, M.J. and Griggs, T.S.
Distance and fractional isomorphism in Steiner triple systems, submitted.

Forbes, A.D., Grannell, M.J. and Griggs, T.S.
Steiner triple systems and existentially closed graphs, submitted.

Forbes, A.D., Grannell, M.J. and Griggs, T.S.
On independent sets, Mathematica Slovaca (to appear).

Forbes, A.D., Grannell, M.J. and Griggs, T.S.
Configurations and trades in Steiner triple systems, Australas. J. Combin. 29 (2004), 75-84.

Forbes, A.D., Grannell, M.J. and Griggs, T.S.
Independent sets in Steiner triple systems, Ars Combin. 72 (2004), 161-169.

Gerke, S. and McDiarmid, C.

Gerke, S. and McDiarmid, C.

Giulietti, M., Hirschfeld, J.W.P., Korchmáros G. and Torres, F.
Curves covered by the Hermitian curve, Finite Fields Appl., to appear.

Goldstein, L, and Reinert, G.

Goodall, A.J.,
The Tutte polynomial modulo a prime, Advances in Applied Mathematics 32 (2004), 293-298

Goodall, A.J.,
Some new evaluations of the Tutte polynomial, submitted

Gordon, N.A., Jarvis, T.M. and Shaw, R.
Gordon, N.A.
[see also: Shaw]

Graham, J.S., Montemanni, R., Moon, J.N.J. and Smith, D.H.,
Frequency assignment, multiple interference and binary constraints,
submitted.

Grannell, M.J., Griggs, T.S. and Knor, M.

Grannell, M.J., Griggs, T.S., Knor, M. and Siran, J.
Triangulations of surfaces by complete tripartite graphs, submitted.

Grannell M.J., Griggs T.S., Knor M. and Skoviera M.
A Steiner triple system which colors all cubic graphs, *J. Graph Theory* 46 (2004), 15-24.

Grannell, M.J., Griggs, T.S. and Siran, J.
Maximum genus embeddings of Steiner triple systems, *European J. Combin.* (to appear)

Grannell, M.J., Griggs, T.S. and Stanton, R.G.

Grannell, M.J., Griggs, T.S. and Stanton, R.G.

Grannell, M.J., Griggs, T.S. and Stanton, R.G.
On $\lambda$-fold coverings with a maximum block size four for $\lambda \geq 6$, *Utilitas Math.* 66 (2004), 221-230.

Grannell, M.J. and Korzhik, V.P.

Grannell, M.J.
[see also: Adams, Bennett, Bryant and Forbes]

Griggs, T.S., Danziger, P., Dukes, P. and Mendelsohn, E.
On the intersection problem for Steiner triple systems of different orders,
submitted.

Griggs, T.S., Lo Faro, G. and Quattrocchi, G.
On some colouring of 4-cycle systems with specified block colour patterns,
submitted.
Griggs, T.S.,
[see also: Adams, Bennett, Bryant, Forbes and Grannell]

Haralambous, Y., Plaice, J., Rowley, C.A. and Swoboda, P.

Hauser, R.
[see also: Almaldi and Martinez]

Hetherington, T. J. and Woodall, D. R.
Edge and total choosability of near-outerplanar graphs, submitted.

van den Heuvel, J. and Johnson, M.

van den Heuvel, J. and Johnson, M.

van den Heuvel, J. and Johnson, M.

Hill, R.
Multiple sudden infant deaths – coincidence or beyond coincidence? *Paediatric and Perinatal Epidemiology* 18 (2004), 320-326.

Hill, R.

Hill, R.
[see also: Barat]

Hirschfeld, J.W.P.
The number of points on a curve, and applications, submitted.

Hoffmann, M. and Thomas, R. M.

Holmes, P. E. and Wilson, R. A.

Holmes, P. E. and Wilson, R. A.

Holroyd, F.C. and Škoviera, M.
Holt, D.F., Rees, S.E., Röver, C.E. and Thomas, R.M.,

Hopkins, B, and Wilson, R.J.

Irving, R.W., Michail, D., Mehlhorn, K., Paluch, K. and Telikepalli, K.

Irving, R.W. and Scott, S.

Irving, R.W
Plagiarism and collusion detection using the Smith-Waterman algorithm, submitted.

Irving, R.W
Man-exchange stable marriage, submitted.

Irving, R.W
[see also: Abraham and Cechlarova]

Ivrissimtzis, I. and Singerman, D.

Jackson, B.
[see also: Abreu]

Johnson, J. R.

Johnson, J. R.

Johnson, J. R. and Kierstead, H. A.
Explicit 2-Factorisations of the Odd Graph, Order 21 (2004), 19-27.

Johnson, M.
[see also: van den Heuvel]

Jones, R.A., Perkins, S., Rutherford, C.G. and Smith, D.H.,
Quasisynchronous and asynchronous CDMA: code construction and assignment, submitted.
Keedwell, A. D.

Keedwell, A. D.

Keedwell, A. D. and Mullen, G.

Keedwell, A. D. and Shcherbacov V. A.
Construction and properties of \((r, s, t)\)-inverse quasigroups II. *Discrete Math.* 288(2005), 61-71.

Keedwell, A. D. and Shcherbacov V. A.
Quasigroups with an inverse property and generalized parastrophic identities. Submitted.

Key, J. D., McDonough, T.P. and Mavron, V. C.

Key, J. D., McDonough, T.P. and Mavron, V. C.
Information sets and related PD-sets for codes from finite geometries and designs. Submitted.

King, O.H., and Cossidente, A.,

King, O.H., and Cossidente, A.,
On some maximal subgroups of unitary groups, Communications in Algebra 2004, 32, 989-995.

King, O.H., and Cossidente, A.,
Twisted tensor product group embeddings and complete partial ovoids on quadrics in PG \((2^t-1,q)\), Journal of Algebra 2004, 273, 854-868.

Koller, A. E. and Noble, S. D.

Kostochka, A. V. and Woodall, D. R.
Krasikov, I. and Noble, S. D.

Krattenthaler, C. and Müller, T. W.,

Kühn D. and Osthus, D.

Kühn D. and Osthus, D.
Induced subdivisions in $K_{5,s}-$ free graphs of large average degree, Combinatorica 24 (2004) 287-304

Kühn D. and Osthus, D.
Every graph of sufficiently large average degree contains a $C_4-$ free graph of large average degree, Combinatorica 24 (2004) 155-162.

Kühn D. and Osthus, D.
Subdivisions of $K_{r+2}$ in graphs of average degree at least $r+\epsilon$ and large but constant girth, Combinatorics, Probability and Computing, 13 (2004) 361-371.

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