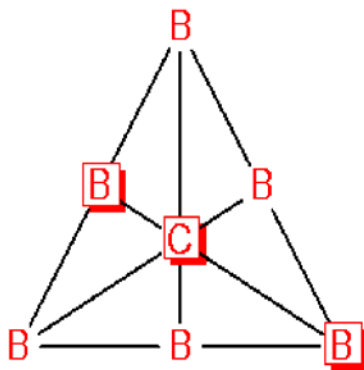


British Combinatorial Bulletin 2006



BRITISH COMBINATORIAL BULLETIN 2006

This is the 2006 edition of the British Combinatorial Bulletin, and it is the first one I have edited. Probably the first thing to do is to thank my predecessor as editor, Graham Brightwell, for the enormous amount of work he (and Jackie Everid, the secretary at the LSE) have put into the Bulletin over the last few years. Graham has also been a valuable source of advice in the preparation of this Bulletin.

The organisation this year is pretty much the same as it's been for the past few years – see below if you have any suggestions for changes in future.

Can I again thank all institutional representatives for their help in preparing this Bulletin. The BCB is very much what you make of it, and thus your suggestions (or those of your colleagues) for improvements are very welcome – a new editor is an obvious time for possible changes. For example, one suggestion I have heard floating around is that we should try to revert to a system of producing the bulletin at the start of the academic year rather than in April: your views on this, or other topics, are welcome.

If anyone is interested in becoming a representative for an institution which doesn't currently have one, please let me know – the object of the exercise is to spread information, and so the more representatives we can have the better.

Finally, a very large vote of thanks is due to Chris Saker and Sandra Upton for their technical help with the preparation of this Bulletin.

David Penman
Editor
25 April 2006.

The BCB webpage is: <http://www.essex.ac.uk/math/BCB/>

Email should be addressed to: dbpenman@essex.ac.uk

Committee Membership.

The Committee consists of: Peter Cameron (Chairman), Peter Rowlinson (Secretary), Keith Edwards (Treasurer), Anthony Hilton (BCC21 organiser), Matthew Higgs (2006 PCC organiser), David Penman (Bulletin editor), Bridget Webb (Archivist), Graham Brightwell, Mark Jerrum, Stephanie Perkins, and James Hirschfeld (co-opted member).

Support for Conferences

Please contact the British Combinatorial Committee if you are thinking of organizing a meeting on combinatorial topics in the UK: in most cases, the Committee can offer financial support. Institutions requesting support are normally expected to make a contribution from their own funds or elsewhere. Proposals for consideration by the Committee, including outline plans and an outline budget, should be sent by email to the Secretary, Peter Rowlinson (p.rowlinson@stirling.ac.uk)

Archive

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 her: B.S.Webb@open.ac.uk

News of forthcoming meetings.

Those interested in forthcoming meetings are reminded that they can find two excellent lists of such events at <http://www.maths.qmul.ac.uk/~pjc/bcc/conferences.html> and also at <http://www.math.uiuc.edu/~west/meetlist.html> We concentrate here on events supported by the BCC.

1. Two-day Combinatorics Colloquium at Reading – 17-18 May 2006.

No, you did not misread the first word in the title. This year the Reading meeting will be on both 17 and 18 May, to celebrate 50 years of combinatorics at Reading. The conference webpage is <http://www.reading.ac.uk/combinatorics/colloq.html>

Those who have said they will come and talk include (with abstracts where available):

Adrian Bondy (Lyons)

Lars Andersen (Aalborg)

Curt Lindner (Auburn, Alabama)

P.D. Johnson, Jr. (Auburn, Alabama)

R. Häggkvist (Umea)

[Bill Jackson \(QMUL\) - *Rigidity of molecular frameworks*](#)

[Ron Aharoni \(Technion\) - *A topological method in matching theory*](#)

Neil Robertson (Ohio State)

[Peter Cameron \(QMUL\) - *The Rado graph and the Urysohn space*](#)

Imre Leader (Cambridge)

Dragan Marusic (Ljubljana)

[Andrew Thomason \(Cambridge\) - *Edge weights and vertex colours*](#)

[Ian Anderson \(Glasgow\) - *Referee Squares*](#)

Norman Biggs (LSE) - *The critical group revisited*

[Vadim Zverovich \(UWE\) - *The Computer System GRAPHOGRAPH*](#)

[Gregory Gutin \(RHUL\) - *Dichotomy for the minimum cost graph homomorphism problem*](#)

There may be a limited amount of financial assistance available – apply to the organiser, Anthony Hilton (A.J.W.Hilton@reading.ac.uk).

2. 20th PCC at Glamorgan: 21-23 June 2006.

This will take place from 21 – 23 June 2006 in the Rhondda Block at the University of Glamorgan. The local organisers are Matthew Higgs and Richard Ward.

As usual the aim will be to encourage postgraduates to talk about their research for 20 minutes in a non-intimidating atmosphere. There will also be three invited speakers, who this year will be as follows:

Prof. Mike Grannell (Open) “Configurations in Combinatorial Designs”

Prof. Simon Blackburn (RHUL) “Runlength constrained arrays”

Dr. Steven Noble (Brunel) “The Tutte polynomial”.

Abstracts for the talks can be seen on the conference webpage

<http://babylon4.isd.glam.ac.uk/research/1419>

which also gives details of how to register.

3. BCC2007

The 2007 BCC will be at Reading, from Sunday 8-Friday 13 July 2007. The Local Organiser is Anthony Hilton (A.J.W.Hilton@reading.ac.uk). The conference website is <http://www.personal.rdg.ac.uk/~smx05mj/bcc2007/>

As usual, a volume in the London Mathematics Society's Lecture Note Series containing survey papers by the invited speakers will be supplied to participants on arrival. Their titles are as follows:

[Béla Bollobás](#) (University of Cambridge and University of Memphis)
[Hereditary Properties of Combinatorial Structures](#)

[Richard A. Brualdi](#) (University of Wisconsin-Madison)
[Ordering classes of matrices of 0's and 1's](#)

[Darryn Bryant](#) (University of Queensland)
[Cycle decompositions of graphs](#)

[Maria Chudnovsky](#) (Princeton University)
[Excluding induced subgraphs](#)

[Mike Grannell](#) and [Terry Griggs](#) (Open University)
[Designs and Topology](#)

[Johan Håstad](#) (Royal Institute of Technology Stockholm)
[On the efficient approximability of NP-hard optimization problems](#)

[James Hirschfeld](#) (University of Sussex)
[Maximal curves over a finite field](#)

[Keith Martin](#) (Royal Holloway, University of London)
[The combinatorics of cryptographic key management](#)

[Stéphan Thomassé](#) (University of Lyon)
[Branchwidth of Graphic Matroids](#)

BCC2009.

The 2009 BCC will take place at St. Andrews from 5-10 July 2009. The Local Organiser will be Sophie Huczynska. More details will be announced later.

BRITISH COMBINATORIAL COMMITTEE
(Scottish Charity Number SC019723)
Income and expenditure account for the period
1 October 2004 to 30 September 2005.

Income	Year to 30/9/2005 £	Year to 30/9/2004 £
Interest	634.03	445.59
Royalties from Cambridge University Press	1114.21	1020.07
Unused part of grant for PCC 2004	484.44	
Unused parts of grants for one-day conferences	154.87	
Surplus from 20th BCC, Durham, 2005	14039.73	
Total income	<u>15427.28</u>	<u>1465.66</u>
Expenditure		
Grants for one-day conferences	1234.29	1449.63
Grant for Oxford conference on discrete maths	500.00	
Postgraduate Combinatorics Conference 2005	500.00	500.00
Refund of overpayment of surplus from 19th BCC		482.20
Refund of unused part of grant from LMS		55.00
British Combinatorial Bulletin 2005	215.45	270.79
Postage (Papers in special issue of Discrete Mathematics)		18.58
Open University Combinatorics Prizes	200.00	100.00
Float for 20th BCC, Durham, 2005		1000.00
Deposit for PCC 2006	120.00	
Committee expenses	100.28	248.98
Total expenditure	<u>2870.02</u>	<u>4125.18</u>
 Excess of income over expenditure/ (expenditure over income)	 12557.26	 (2659.52)
Statement of Balances as at 30 September 2005		
Bank of Scotland Treasurer's Account	1122.29	1177.12
Scottish Widows Bank Treasury Tracker Account	27039.93	14427.84
Total	<u>28162.22</u>	<u>15604.96</u>

Queries about the accounts to the Treasurer, Keith Edwards.

LIST A.

Combinatorial Mathematicians based in Britain.

Alassiry, Tem	RHUL
Allen, Stuart M.	Cardiff
Al-Kharoosi, Fatma	QMUL
Al-Meaither, M.	RHUL
Anderson, Dr. Ian	Glasgow
Annand, Marie L.	Aberdeen
Anthony, Prof. Martin	LSE, London
Antilla, M.	UCL,London
Appa, Dr. G.	LSE, London
Arhin, Mr. J.	QMUL
Arrowsmith, Prof. D. K.	QMUL, London
Ashton, James	RHUL

B	
Babbage, Dr. S.	Vodafone Group R&D
Bailey, Prof. R.A.	QMUL
Bailey, Dr. R.F.	QMUL
Ball, Prof. Keith M.	UCL
Barany, Prof. Imre	UCL
Barnea, Dr. Yiftach	RHUL

Bate, Julia	RHUL
Bedford, Dr. David	Keele
Bedogne, Cesare	Brunel
Beker, Prof. Henry J.	RHUL
Bell, Dr. Francis K.	Stirling
Belrose, Dr. Caroline	Vodafone Group R&D
Bending, Dr. Thomas D.	Middlesex
Biggs, Prof. Norman L.	LSE
Blackburn, Prof. Simon	RHUL
Blackwell, C.	RHUL
Boase, Mansur	Cambridge
Bogacka, Dr. B.	QMUL
Bollobás, Prof. B.	Cambridge
Bone, Dr. Nicholas	Vodafone Group R&D
Bordewich, Dr. Magnus	Durham
Borg, Peter	Open
Borovik, Dr. A. V.	UMIST
Bowler, Dr. Andrew	Birkbeck
Bray, Dr. John	QMUL
Brightwell, Prof. G. R.	LSE
Bryant, Dr. Roger M.	UMIST
Burrows, Dr. Brian L.	Staffordshire
Butkovic, Dr. Peter	Birmingham
Byott, Dr. Nigel P.	Exeter

C

Cain, Dr. Alan J.	St. Andrews
Cameron, Prof. Peter J.	QMUL, London
Camina, Dr. Alan R.	East Anglia
Campbell, Dr. Colin M.	St. Andrews
Campbell, Duncan	Dundee
Chapman, Dr. Robin J.	Exeter
Chetwynd, Prof. A. G	Lancaster
Choi, Su-Jeong	RHUL
Christopoulos, Chris	RHUL
Cid, Dr. Carlos	RHUL
Ciechanowicz, Dr. Z.	RHUL
Clarke, Dr. Francis W.	Swansea
Clarke, Geoffrey M.	Kent
Cohen, Dr. Stephen D.	Glasgow
Constable, Robin L.	St. Andrews
Cook, Dr. R.J.	Sheffield
Cooper, Dr. Colin	King's College, London
Cooper, Prof. S. Barry	Leeds
Cosh, Ben	Goldsmith's, London
Crampton, Dr. Jason	RHUL
Croft, Dr. Hallard T.	Cambridge
Crouch, Dr. Simon	Hewlett-Packard
Cryan, Dr. Mary	Edinburgh
Csornyei, Prof. Marianna	UCL, London
Curtis, Dr. Robert T.	Birmingham

D

Dagger, Dr. Stuart W.S.	Aberdeen
Damerell, Dr. R. Mark	RHUL
Daykin, Dr. David E.	Reading
Deineko, Dr. Vladimir	Warwick
Dent, A.	RHUL
Dolan, Dr. Alan K.	Open
Dugdale, Dr. J. Keith	Reading
Duncan, Dr. Andrew J.	Newcastle
Dye, Prof. Roger H.	Newcastle
Dyer, Prof. Martin	Leeds
Džamonja, Dr. M.	East Anglia

E

Eagle, Philip	RHUL
Easton, Sarah J.	Staffordshire
Edwards, Dr. Keith J.	Dundee
Eggemann, Nicole	Brunel
Ellison, Leigh	Glasgow
Elsholtz, Dr. Christian	RHUL
Emmett, Lynn	East Anglia
Essam, Prof. John W.	RHUL
Evans, Dr. David M.	East Anglia
Evans, Dr. Edward A.	St.Mary's U. C.

Everett, Prof. M. G.	Greenwich
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F	
Falconer, Prof. K. J.	St. Andrews
Fenner, Dr. Trevor I.	Birkbeck, London
Firby, Dr. Peter A.	Exeter
Fleischmann, Prof. P.	Kent
Forbes, A.D.	Open

G	
Galbraith, Dr. Steven	RHUL
Garcia, Paul	Open
Gardiner, Dr. Tony D.	Birmingham
Gao, Rong	Essex
Georgiou, Nicholas	Heilbronn Institute
Gibson, Dr. J. Keith	Birkbeck, London
Gilder, John.	UMIST
Gillett, Dr. Raphael T.	Leicester
Gilmour, Dr. S. G.	QMUL
Glass, Prof. Celia A.	City
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. Mike J.	Open
Green, Prof. B.	Bristol
Griggs, Prof. Terry	Open
Grimm, Uwe	Open
Gutin, Prof. Gregory	RHUL

H	
Haigh, Claude W.	Swansea
Haight, Dr. John A.	UCL, London
Haji Naim, Abdul Ghani	RHUL
Hall, Dr. Rhiannon	Brunel
Hauser, Dr. Raphael	Oxford
Henderson, Matthew	Reading
Heneghan, Chris	RHUL
Hetherington, Timothy J.	Nottingham
van den Heuvel, Jan	LSE
Hierons, Dr. Robert M.	Brunel
Higgins, Prof. Peter M.	Essex
Hill, Prof. Ray	Salford
Hilton, Prof. A. J.W.	Reading
Hines, P.	RHUL
Hirschfeld, Prof. J.W.P.	Sussex
Hobbs, J.D.	Open
Hoffman de Visme, Ivan	Charterhouse School
Holmes, Dr. B.	Birmingham

Holroyd, Dr. Fred C.	Open
Hopkins, H.	RHUL
Howard, Dr. John	LSE
Huczynska, Dr. Sophie	St. Andrews
Hughes, Prof. Daniel R.	QMUL
Hughes, Dr. Lesley A	Glamorgan
Hughes Jones, Dr. R.	Kent
Hunter, Gordon J.A.	St Mary's U. C.
Hurley, Steve	Cardiff

I	
Irving, Dr. R. W.	Glasgow
Iyudu, Natalie	QMUL

J	
Jackson, Prof. Bill	QMUL
Jackson, Dr. Penelope S.	Stirling
James, Prof. Gordon D.	Imperial
Jarrett, David F.	Middlesex
Jefferies, Dr. Nigel P.	Vodafone Group R&D
Jennings, Dr. Sylvia	London South Bank
Jerrum, Prof. Mark	Edinburgh
Jha, Dr. Vikram	Glasgow Caledonian
Johnson, Dr. Jeffrey H.	Open
Johnson, Dr. Matthew	Durham

Johnson, Dr. J. Robert	QMUL
Johnston, Amy	RHUL
Johnstone, Dr. W. Roy	Reading
Jones, Prof. Gareth A.	Southampton

K	
Kayibi, Dr. Koko	QMUL
Kahrobaei, Dr. Delaram	St Andrews
Keedwell, Dr. A. D.	Surrey
Kemp, Prof. David	St Andrews
Kemp, Dr. Freda	St Andrews
Kenneth, R	East Anglia
King, Dr. Oliver H.	Newcastle
King, Prof. R. C.	Southampton
Kisil, V.V.	Leeds
Kovalenko, I	UNL
Krasikov, Dr. Ilia	Brunel
Krokhin, Andrei	Durham
Kühn, Dr. D.	Birmingham
Kurtz, Cornelius	East Anglia
Kusuma, Josephine	QMUL

L	
Laczovich, Prof M.	UCL
Lamb, Dr. John D.	Aberdeen
Larman, Prof. David G.	UCL, London
Lawson, Dr. Mark V.	Heriot-Watt
Laycock, Dr. P.J.	UMIST
Leader, Prof. I.B.	Cambridge
Leese, Dr. Robert	Oxford
Liebeck, Prof. M.	Imperial College London
Li'enart, E.	Goldsmiths, London
Linton, Prof. S. A.	St. Andrews
Lloyd, Dr. E. Keith	Southampton
Lockett, Ms. D.C.	QMUL
Lodwick, Ms. R.K.	QMUL
Loizou, Prof. George	Birkbeck, London
Lovegrove, Graham J.	Open
Luczak, Dr. Malwina	LSE

M	
Macdonald, Prof. I. G.	QMUL
Macpherson, Prof. H. D.	Leeds
Maistrelli, Dr. Eleni	Essex
Makroglou, Dr. Athena	Portsmouth
Malik, Mr. N. Shane	Essex.
Manlove, Dr. David	Glasgow

Manning, Stephanie M.	Vodafone Group R&D
Manns, Mr. Tom	Portsmouth
Marsh, Dr. Robert J.	Leicester
Martin, Prof. K.	RHUL
Martin, Dr. Nigel	Durham
Martin, Dr. Russell	Liverpool
Mavron, Prof. Vassili C.	Aberystwyth
Maynard, Dr. Philip	East Anglia
McAlpine, Kenneth M.	Abertay
McCabe, Dr. John H.	St. Andrews
McDiarmid, Prof. C. J.H.	Oxford
McDonough, Dr. T. P.	Aberystwyth
McKee, Dr. James	RHUL
McMullen, Prof. Peter	UCL, London
Michalopoulos, I.	RHUL
de Mier, Dr. Anna	Oxford
Mitchell, Prof. Chris J.	RHUL
Mitchell, Dr. James D.	St. Andrews
Mitchell Dr. Jane M.O.	Open
Mitra, Prof. Gautam	Brunel
Morris, Prof. Alun O.	Aberystwyth
Muller, Haiko	Leeds
Müller, Dr. T. W.	QMUL
Murphy, Dr. Sean P.	RHUL
Myers, Dr. J.S.	Cambridge

N

Nelson, Roy	Open
Newman, Dr. Mike	QMUL
Ng, S.	RHUL
Noble, Dr. Steven	Brunel
Norman, Dr. Chris W.	RHUL
Nuebling, Herwig	East Anglia

O

O'Connor, Dr. John J.	St. Andrews
Olsen, Dr. Lars	St. Andrews
Osthus, Dr. D.	Birmingham
O'Toole, L.	RHUL

P

Page, Tom	RHUL
Panov, Taras	Manchester
Parker, Dr. C.W.	Birmingham
Parks, David	Open
Paterson, Prof. Kenny	RHUL
Paterson, Maura	RHUL
Paterson, Prof. Mike	Warwick
Payne, Prof. Roger W.	Rothamsted
Pearce, Prof. S. C.	Kent

Penman, Dr. David	Essex
Perkins, Dr. Stephanie	Glamorgan
Petridis, George	Cambridge
Philpotts, Adam R.	Nottingham
Pinch, Dr. R.G.E.	GCHQ, Cheltenham
Piper, Prof. Fred	RHUL
Piper, Greg	East Anglia
Potts, Prof. Chris N.	Southampton
Powell, Dr. Susan	LSE, London
Pratt, F.	Staffordshire
Preece, Prof. Donald A.	QMUL and Kent
Preiss, Prof. D.P.	UCL
Prellberg, Dr. Thomas	QMUL
Prince, Dr. Alan R.	Heriot-Watt
Pu, Dr. Ida	Goldsmiths, London

Q

Quick, Dr. Martyn R.	St. Andrews
Quinn, Dr. Kathleen A.S.	Open

R

Rackham, Laurence	RHUL
Ray, Prof. Nigel	Manchester
Rees, Prof. Sarah E.	Newcastle
Rees, David H.	Kent

Reuter, A.	Imperial
Riordan, Dr. O.	Cambridge
Robertshaw, Dr. A.	ONS
Robertson, Prof. E F.	St. Andrews
Rogers, Prof. C. A	UCL, London
Roney-Dougal, Dr. C. M.	St. Andrews
Rooney, Dr. Joe	Open
Rowley, Dr. C. A.	Open
Rowley, Dr. Peter J.	UMIST
Rowlinson, Prof. Peter	Stirling
Rudd, Jason	QMUL
Rudloff, C.	East Anglia
Ruskuč, Prof. Nik	St Andrews
Russell, Dr. P.A.	Cambridge
Rutherford, Dr. Carrie	London South Bank
Rymer, Dr. Neil W.	Bangor

S	
Saker, Dr. C. J.	Essex
Salhi, Dr. A.	Essex
Sands, Dr. Arthur D.	Dundee
Sanders, A.J.	Cambridge
Sandling, Dr. Robert	Manchester
Saxl, Dr. Jan	Cambridge
Scott, Dr. Alex D.	Oxford

Severini, Dr Simone	York
Sezgin, S.	UCL, London
Shah, Illana	RHUL
Shareef, F.	QMUL, London
Shakhlevich, Natasha	Leeds
Shaw, Prof. Ron	Hull
Shawe-Taylor, Prof. J. S.	Southampton
Shreeve, Richard I.	Royal Grammar School
Siemons, Dr. I. Johannes	East Anglia
Singerman, Prof. David	Southampton
Singmaster, Prof. D. B.	London South Bank
Smith, Prof. Derek H.	Glamorgan
Sng, Colin	Glasgow
Soicher, Dr. Leonard H.	QMUL, London
Sokal, Prof. A. D	UCL
Spencer, Claire	Reading
Stark, Dr. D. S.	QMUL
von Stengel, Dr. B.	LSE
Steinberg, Dr. R.	Cambridge
Stewart, Prof. Iain A	Durham
Stirling, Dr. David S.G.	Reading
Stratmann, Dr. Bernd	St Andrews
Stratton, Dr. Anthony E.	Exeter
Strusevich, Dr. V. A.	Greenwich

T

Talbot, Dr. J.M.	UCL
Talbot, Dr. Richard F.	Staffordshire
Tarzi, Dr. S.	QMUL
Thiel, Dr. Stefan	Vodafone Group
Thomas, Dr. A. D.	Swansea
Thomas, Richard M.	Leicester
Thomason, Prof. A. G.	Cambridge
Thompson, Katie	East Anglia
Treacher, Helen	East Anglia
Truss, Prof. John K.	Leeds

V

Valenca, Paula	RHUL
Vámos, Prof. Peter	Exeter
Vatter, Vince	St Andrews
Vernitski, Dr. Alexei	Essex
Vincent, Robert	East Anglia
Vowden, Dr. Barry J.	Kent
Vuskovic, Kristina	Leeds

W

Wagner, Peter	Cambridge
Walker, Dr. Grant	Manchester
Walker, Dr. Keith	Keele

Walker, Prof. Mike	Vodafone Group/RHUL
Wallace, B.	RHUL
Walters, Dr. Mark	Cambridge
Wanless, Dr. Ian	Oxford
Waters, Dr. R.J.	Cambridge
Waters, Steven	Glasgow Caledonian
Watson, Adam	QMUL
Watts, Ivor	Open
Webb, Dr. Bridget S.	Open
Welham, Sue	Rothamsted
Welsh, Prof. Dominic	Oxford
Wensley, Dr. Chris D.	Bangor
Whitaker, Roger	Cardiff
White, Dr. Lynda V.	ICL, London
Whitty, Prof. Robin W.	London South Bank
Wild, Prof. Peter R.	RHUL
Williams, Prof. H. Paul	LSE
Wilson, Prof. Robert A.	QMUL
Wilson, Prof. Robin J.	Open
Wisewell, Dr. Laura	UCL
Woodall, Dr. Douglas R.	Nottingham
Woodcock, Dr. C. F.	Kent
Wright, R.	Vodafone Group
Wu, Taoyang	QMUL

Z

Zalesskii, Prof. A.E.	East Anglia
Zarkh, Alexander	Brunel
Zito, M.	Liverpool
Zsak, Dr. Andras	Cambridge
Zverovich, Dr. Vadim	West of England

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

A	Aequationes Mathematicae	N	Discrete Mathematics
B	Algebra Universalis	O	Discussiones Mathematicae: GraphTheory
C	Ars Combinatorica	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 itsApplications	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
L	Discrete and Computational Geometry	X	Journal of Combinatorial Theory Series A
M	Discrete Applied Mathematics	Y	Journal of Combinatorial Theory Series B
a	Journal of Geometry	Z	Journal of Cryptology
b	Journal of Graph Theory	f	Order
c	Journal of Statistical Planning and Inference	g	Random Structures and Algorithms
d	Linear Algebra and its Applications	h	SIAM Journal on Discrete Mathematics
e	Networks	i	Utilitas Mathematica

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: representation theory and algebraic combinatorics)

Visitor J D Key (May 2006).

Research student C Andreou (Regular Hadamard Matrices)

Lecture courses Graphs and Network (24 lectures, Dr. Mavron)

Groups (20 lectures, Dr. McDonough)

Current periodicals: P, U, 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, Dr. Wensley)

Groups and Symmetry (20 lectures, 3rd year, Dr. Wensley)

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

Combinatorial structures (20 lectures, 3rd year, 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* (probability theory, geometric random graphs)

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. Lorenz Halbeisen* (combinatorics)

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. Butkovič (Combinatorial Optimisation)

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

Dr. Nikolaos Fontoulakis (Random graphs, extremal combinatorics)

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)

Prof. C.W. Parker (Group Theory)

Research Students

S. Astill

M. Clelland

O. Cooley

R. Fowler

M. van Gans

A. Young

Lecture courses Combinatorial Optimisation (22, 3rd year, Dr. Butkovič)

Combinatorics (22, 3rd year, Dr. Gardiner)

Discrete Mathematics (22, 1st year, Dr. Gardiner)

Graph Theory (44, 3rd/4th year, Dr. Kühn and Dr. Osthus)
Computability (22, 3rd/4th year, Dr. Osthus)

BRUNEL UNIVERSITY

Department of Mathematical Sciences Brunel University, Kingston Lane, Uxbridge,
Middlesex UB8 3PH. Tel: 01895 274000 Fax: 0189 5203303

<http://www.brunel.ac.uk/about/acad/siscm/siscmstaff/math>

Dr. Rhiannon Hall (matroids, graphs)

Dr. Iliya Krasikov (graph theory, combinatorics, coding theory, number theory, orthogonal polynomials)

Dr. Igor Krasovsky (random matrices, orthogonal polynomials)

Prof. Gautam Mitra (combinatorial optimisation)

Dr. Steven Noble* (graph theory, combinatorial optimisation)

Research Students Cesare Bedogne (Discrete Orthogonal Polynomials, Dr. Krasikov)

Nicole Eggemann (Scale-free networks, Dr. Noble)

Alexander Zarkh (Discrete Orthogonal Polynomials, Dr. Krasikov).

Lecture courses Encryption and Data Compression (48 lectures, 3rd year, Dr. Krasikov)

Algebra and Discrete Mathematics (48 lectures, 2nd year, Dr. Krasikov and Dr. Noble)

Discrete Mathematics, Probability and Statistics (48 lectures, 1st year, Dr. Noble and Mrs. Browne)

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

Current Periodicals: A,B,F,H,I,J,L,M,N,P,Q,R,S,U,V,X,Y,Z,a,b,c,d,e,f,g
(electronic only).

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/>

Prof. W.T. Gowers (Trinity)

Prof. I.B. Leader* (Trinity)

Dr. J. Saxl (Caius)

Prof. A. Thomason (Clare)

Fellows:

Dr. B. Bollobás (Trinity)

Dr. H.T. Croft (Peterhouse)

Dr. O.M. Riordan (Trinity)

Dr. P. A. Russell (Peterhouse)

Dr. T. Sanders (Christ's)

Dr. M. Walters (Peterhouse)

Dr. Andras Zsak (Fitzwilliam)

Judge Business School Trumpington Street, Cambridge CB2 1AG Tel: 01223 339700

Fax: 01223 339701

<http://www.jbs.cam.ac.uk/>

Dr R. Steinberg*

Dr. R. J. Waters

Research students Mansur Boase (Prof. Gowers)

P. Candela Pokorna (Prof. Gowers)

Demetres Christofides (Prof. Leader)

David Conlon (Prof. Gowers)

Simon Griffiths (Prof. Leader)

George Petridis (Prof. Gowers)

Tom Sanders (Prof. Gowers)

Peter Wagner (Prof. Thomason)

Julia Wolf (Prof. Gowers)

Lecture courses

Numbers and Sets (24 lectures, 1st year, Prof. Leader)

Coding and Cryptography (24 lectures, 3rd year)

Graph Theory (16 lectures, 3rd year, Prof. Thomason)

Combinatorics (16 lectures, Part 3, Prof. Leader)

Quasirandomness (16 lectures, Part 3, Prof. Gowers)

Probabilistic Combinatorics (16 lectures, Part 3, Dr. Walters)

Seminar Combinatorics (Thursdays at 2.15 p.m.)

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* (mobile communications, frequency assignment, combinatorial optimisation, latin squares)

S. Hurley (mobile communications, frequency assignment, combinatorial optimisation)

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

Lecture courses Discrete mathematics I (1st year)

Discrete mathematics II (2nd year)

Information Security (3rd year)

Optimisation and Meta-Heuristics (3rd year)

Discrete mathematics (M.Sc.)

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)

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 (retired: Combinatorial problems on finite Abelian groups)

Research student D. Campbell (Dr. Edwards).

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* (graph decompositions)

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>

Dr. M. Bordewich (discrete mathematics, theoretical computer science)

Prof. H. Broersma (graph theory, computational complexity, telecommunications)

Dr. T. Friedetsky (algorithms)

Dr. M. Johnson (graph theory, combinatorial optimization, combinatorial designs)

Dr. A. Krokhn (combinatorics, homomorphisms, complexity)

Dr. D. Paulusma (graph theory, algorithms, complexity, game theory)

Prof. I.A. Stewart (graph theory and algorithms, computational complexity)

Dr. S. Szeider (combinatorics, satisfiability)

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)

Dr. M. Džamonja (logic, set theory, infinite combinatorics)

Dr. S. Lyle (representation theory (from Jan 2007)).

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

Dr. I.J. Siemons* (permutation groups, topological and homological methods)
Prof A.E. Zaleskii (group theory, ring theory)

Research students F. Shaikh (Dr. Džamonja)
Y. Lazou (Dr. Džamonja)
H. Wong (Dr. Evans)
M. Ferreira (Dr. Evans)
J. De la Rue (Dr. Evans)
D. Smith (Dr. Siemons)
T. McKay (Dr. Siemons)
H. Treacher (Dr Siemons)

Lecture courses (check availability):

Discrete Mathematics (2nd year)
Set theory (3rd year)
Linear algebra and linear groups (3rd year)
Infinite permutation groups (4th year, p/g)
Representation Theory (3rd year)
Codes and designs (3rd year)
Graph theory (3rd year)
Group theory (3rd year)
Computability (3rd year)
Model theory (3rd year)

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)
Computability and Intractability (3rd year, MSc)
Computational Complexity (4th year)

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/math>

Dr. D. Branson (applied probability, combinatorics of Stirling numbers)

Prof. P.M. Higgins (combinatorics of algebraic semigroup theory, cryptography)

Dr. Eleni Maistrelli (Paley and related graphs)
Dr. David Penman* (random and pseudo-random graphs)
Dr. Chris Saker (combinatorics on words, semigroup theory, cryptography)
Dr. A. Salhi (combinatorial optimisation)
Dr. Alexei Vernitski (algebra, combinatorics, computer security)

Research students Rong Gao (colourings of pseudo-random graphs, Dr. Penman)
Shane Malik (extremal Ramsey graphs, Dr. Penman)

Lecture Courses Graph Theory (3rd year, Dr. Penman) (30 lectures)
Codes and Cryptography (Prof. Higgins, 3rd year) (30 lectures)
Combinatorial optimisation (Dr. Salhi, 3rd year) (30 lectures)

Current periodicals: H,P,h.

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, Dr. Chapman)
Graph theory (33 lectures, 3rd year, Dr. Firby)
Coding Theory (33 lectures, 3rd year, 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/709/mathematicsstatistics>

Dr. L. A. Hughes (coding theory)
Dr. S. Perkins (coding theory, synchronization)
Prof. D.H. Smith* (frequency assignment, network reliability, coding theory)

Lecture courses Codes and Information (3rd year, Prof. Smith, Dr. Perkins)
Network flows and reliability (3rd year, Prof. Smith)
Combinatorics (2nd year, 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)

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)

Research students L. Ellison (designs, Dr. Anderson)

Gregg O'Malley (Dr. Manlove)

Colin Sng (Dr. Manlove)

Lecture courses Designs and codes (25 lectures, 4th year, Dr. Anderson)

Discrete mathematics (24 lectures, 3rd year, Dr. R. Steiner)

Graphs and networks (22 lectures, 2nd year, Dr. W. Stothers)

Algorithmics 3 (3rd year, Dr. Irving)

Algorithmics 4 (4th year, Dr. Irving and Dr. Manlove)

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)

Lecture courses Discrete Mathematics (1st year)

Graph Theory (3rd year)

Data Structures and algorithms (2nd year, 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 (combinatorial optimization, 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/math.html>

Dr. M.V. Lawson (semigroup theory, combinatorics on words)

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

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 (probabilistic combinatorics)

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

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

UNIVERSITY OF HULL

Centre for Mathematics University of Hull, Cottingham Road, Hull HU6 7RX. Tel:

01482 465885 Fax: 01482 466218

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

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

Department of Computer Science University of Hull, Hull HU6 7RX Tel: 01482

465951/465067 Fax: 01482 466666

<http://www.net.dcs.hull.ac.uk/>

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

Research report series <http://www.hull.ac.uk/php/masrs/>

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. O. Pretzel

KEELE UNIVERSITY

Department of Mathematics Keele University, Keele, Staffordshire ST5 5BG. Tel: 01782 583258 Fax: 01782 584268

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

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

Dr. J. Preater (applied probability, random graphs)

Mr. K. Walker (graphs)

Lecture courses Graph theory (30 lectures, 3rd year, Dr. Bedford)

Discrete mathematics (30 lectures, 3rd year, 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 (non-orthogonal Graeco-Latin designs)

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

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

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

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

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

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

Lecture courses Discrete mathematics (30 lectures, 3rd year, Dr. Woodcock)

Computational algebra (30 lectures, 3rd year, 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* (random graphs, random algorithms)

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)

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)

School of Computing University of Leeds, Leeds LS6 2HN Tel. 0113 343 5430 Fax
0113 343 5468

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

Prof. Martin Dyer (algorithms and complexity)

Dr. Haiko Muller (algorithms, graph theory)

Natasha Shakhlevich (scheduling theory)

Kristina Vuskovic (graph theory)

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

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

Lecture courses Introduction to Discrete Maths (22 lectures, 2nd year, Prof. Cooper)

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

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

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

Introduction to Algorithms

Theory of computation

Computational graph theory and complexity

Modern issues in algorithmic design

Working Paper series <http://www.maths.leeds.ac.uk/Pure/preprints> (Pure Mathematics)
and <http://www.scs.leeds.ac.uk/research/pubs/reports.shtml> (Computer Science)

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. R.J. Marsh (Representations of algebras, Lie theory, cluster algebras, quantum groups)

Prof. R.M. Thomas* (combinatorial group and semigroup theory, automata theory)

Research associate

Dr. K. Baur (Representation theory of Lie algebras)

School of Psychology The University of Leicester, University Road, Leicester LE1 7RH,
UK Tel: 0116 2522170

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

Dr. R.T. Gillett

Research students G. Oliver (FA-presentable structures, Prof. Thomas)

M. Parsons (cluster-tilting theory, Dr. Marsh).

Lecture courses Logic and Discrete Structures (40 lectures, 1st year, Dr. de Vries and Dr. Pattinson)

Algorithms and Data Structures (30 lectures, 1st year, Dr. Measor and Dr. Schmitt)

Automata, Languages and Computation (30 lectures, 2nd year, Prof. Thomas)

Discrete Event Systems (24 lectures, M.Sc., Dr. Pattinson)

Seminars There is a regular seminar program, see

<http://www.cs.le.ac.uk/seminars/>

<http://www.math.le.ac.uk/RESEARCH/PURE/SEMINAR/>

<http://www.math.le.ac.uk/RESEARCH/APPLIED/SEMINAR/>

Research Reports See (printed copies available on request)

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

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)

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)

Research students Peter Allen

Viresh Patel

Luis Cereceda

Raju Chinthalapati

Marianne Fairthorne

Rahul Savani

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)

Lecture courses Discrete Mathematics (20 lectures, 3rd year, Dr. Simon)

Combinatorial Optimization (20 lectures, M.Sc., Dr. Appa)

Theory of Algorithms (20 lectures, 3rd year, 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)

Seminars 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>

Dr. Sylvia Jennings (coding theory, text compression)

Dr. Carrie Rutherford (matroid theory)

Prof. Robin Whitty* (Graph theoretical modelling of human memory)

Visiting Professor: David Singmaster (recreational mathematics)

Lecture courses Discrete mathematics occurs in the first year of all the computing courses (Dr. Jennings, Dr. Rutherford, Prof. Whitty).

Applications of combinatorics appear in 1st and 2nd year courses in financial mathematics (Dr. Rutherford)

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

Option in Theory of Computation occurs in the final year.

Working Paper Series <http://myweb.lsbu.ac.uk/~whitty/MathsStudyGroup>

Current periodicals: T

UNIVERSITY OF MANCHESTER

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

Tel: 0161 275 5800 Fax: 0161 275 5819

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

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

Prof. R.M. Bryant (groups and Lie algebras)

Prof. P.J. Laycock (emeritus: experimental design)

Prof. N. Ray* (umbral calculus, chromatic polynomials, posets of partitions and permutations, permutation matrices, Hopf algebras and quantum structures, Toric varieties and polytopes)

Prof. P.J. Rowley (group theory)

Dr. R. Sandling (block designs)

Dr. G. Walker (modular representation theory, symmetric functions, Schur functions, partitions, Young tableaux, pictures)

Lecture course Combinatorics (24 lectures, 3rd year, J. Gilder)

Coding theory (24 lectures, 3rd year, Mr. Gilder)

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

Current periodicals: C,D,E,F,K,L,P,R,S,N,U,X,Y

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 geometries; lotteries).

David F Jarrett (Graph Theory applied to traffic modelling)

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

Models in Management Science (M.Sc.)

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/math/>

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)

Lecture courses Graph Theory (24 lectures, 2nd/3rd/4th years, alternate years, Dr. Duncan)
Coding Theory (24 lectures, 2nd/3rd/4th year, Dr. Ford)
Geometries and Designs (24 lectures, 3rd/4th year, 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* (graph colourings, chromatic polynomials, electoral systems)

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

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

Current periodicals: none

THE OPEN UNIVERSITY

Faculty of Mathematics and Computing The Open University, Walton Hall, Milton
Keynes MK7 6AA. Tel: 01908 653479 Fax: 01908 653744

<http://mcs.open.ac.uk/>

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

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

Dr. U. Grimm (enumerative combinatorics, words, tilings, applications to physics)

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

R. Nelson (retired: Ramsey theory)

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

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

Dr. B.S. Webb (automorphisms of designs, permutation representation, infinite designs)

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

Faculty of Technology The Open University, Walton Hall, Milton Keynes MK7 6AA.
Tel. 01908 652944 Fax 01908 654052

<http://technology.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 students P. Borg (Erdős-Ko-Rado properties of graphs: Dr. Holroyd, Dr. Quinn and Dr. Webb)

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

P. Garcia (history of combinatorics: Prof. Wilson)

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

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

D. Parks (developments in graph theory during the 20th century: Prof. Wilson: part-time)

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

Courses M336: Groups and Geometry (3rd year)

MT365: Graphs, networks and design (3^{re} year)

M836: Coding Theory (M.Sc. level).

Current periodicals: A, 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

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

Prof. D.J.A. Welsh (applied probability, complexity)

Dr. R. Leese (channel assignment problems)

Dr. Alex Scott (combinatorics, graph theory)

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* (probability and algorithms, probabilistic methods in combinatorics, colouring problems)

Dr. James Martin

Prof. Gesine Reinert

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

Research students Christopher Dowden (Prof. McDiarmid)

Ross Kang (Prof. McDiarmid)

Philipp Kostuch (Prof. McDiarmid)

Kaisheng Lin (Prof Reinert)

Tobias Mueller (Prof McDiarmid)
Tom Rackham (Dr. Scott)
Bilyana Shoilkova (Prof. McDiarmid)
Atsushi Tateno (Dr. Scott)

Lecture courses Combinatorial optimisation (12 lectures, 2nd year, Prof. McDiarmid)
Communication theory (16 lectures, 3rd year, Dr. Stirzaker)
Integer programming (16 lectures, 3rd year, Dr. Hauser)
Graph Theory (16 lectures, 3rd year, Dr. Scott).

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/math>

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/>

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)

Prof. 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 (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. Robert Bailey (coding theory, permutation groups)

Dr. J. N. Bray (Research assistant: group theory)

Prof. Anthony Hilton (Professorial fellow: graph colourings).

Prof. Dan Hughes (Emeritus Professor: finite geometry)

Dr Natalia Iyudu (research fellow: representation theory)
Dr Koko Kayibi (graph and matroid polynomials)
Dr Mike Newman (research fellow: algebraic combinatorics, quantum computing)
Prof. Donald Preece (Professorial fellow: design theory)
Dr. Sam Tarzi (graph theory)

Research students Fatma Al-Kharoosi (coding theory, Prof. Cameron)
John Arhin (existence and structure of SOMAs: Dr. Soicher)
Josephine Kusuma (coding theory, Prof. Cameron)
Debbie Lockett (homogeneous structures, Prof. Cameron)
Rebecca Lodwick (crossover trials, Prof. Bailey)
Jason Rudd (graph and matroid polynomials, Prof. Cameron)
Adam Watson (graph theory, matroid theory, rigidity, Prof. Jackson)
Taoyang Wu (Network coding, Dr. Riis/Prof. Cameron)

Lecture courses Discrete mathematics (36 lectures, 1st year, Dr. McKay)
Games and Linear Programming (36 lectures, 2nd year Dr. Johnson)
Algorithmic Mathematics (36 lectures, 2nd year, Dr. Just)
Graph Theory and Applications (36 lectures, 2nd year, Prof. Leedham-Green)
Combinatorics (36 lectures, 3rd year, Prof. Jackson)
Coding Theory (36 lectures, 3rd year, Dr. Fayers)
Cryptography (36 lectures, 3rd year, 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 (Dr. Coad, Thursday 4:30pm)
Pure Mathematics (Dr. Johnson, 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)
Prof. A.J.W. Hilton* (graph theory, design theory, finite set systems)
Dr. W.R. Johnstone (graph theory)
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)

Lecture courses Combinatorics (20 lectures, 1st year, Dr Dugdale)
Combinatorics (40 lectures, 3rd year, Dr. Dugdale, Prof. Hilton)
Graph theory (40 lectures, 3rd year, Dr. Dugdale, Prof. Hilton)
Combinatorics (20 lectures, 3rd year, 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 modelling)

Sue Welham (REML estimation of various components, neighbour effects, design of laboratory experiments, statistical modelling)

Current periodicals: E, F

ROYAL HOLLOWAY, UNIVERSITY OF LONDON

Department of Mathematics Royal Holloway, Egham Hill, Egham, Surrey TW20 0EX. Tel: 01784 443093 Fax: 01784 430766

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

Prof. S. Blackburn (enumeration of groups, applications of algebraic methods to data communications, coding theory, cryptography)

Dr. R.M. Damerell (algebraic combinatorics, computing applications)

Dr. A. W. Dent (cryptography, design theory)

Dr. C. Elsholtz* (combinatorial number theory, prime numbers)

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 (cryptography and coding)

Prof. F.C. Piper (algebraic combinatorics: finite geometry, theory of designs, coding theory, cryptography)

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. N. Stephens, Prof. M. Walker (Vodafone Ltd).

Postdoctoral Researcher Dr. M. B. Paterson

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. D. Cohen (constraint satisfaction, graphs and hypergraphs)

Prof. Z.G. Gutin (graphs and combinatorics, combinatorial optimisation)
Dr. A. Yeo (graphs and combinatorics, combinatorial optimisation)

Research students J. Bate (combinatorial information security, Dr. Martin)

C. Blackwell

L. Cheng (Role-Based Access Control: Dr. Crampton)

J. Cho (key management, secure protocol design for mobile communications)

S-J. Choi

R Hughes-Jones

D. Mireles Morales (abelian varieties, algorithmic number theory, applications in cryptography: Dr. Galbraith)

I. Michalopoulos (protection of digital content in internet transactions)

L. O'Toole (DES, MARS, feistel networks)

T. Page

L. Rackham

A. Rafiey (homomorphisms, graph theory: Prof. Gutin)

M.J. Saarinen (theoretical and engineering aspects of computer security)

L. Stringer

Lecture courses Discrete mathematics (33 lectures, 2nd year, Dr. Yates)

Cipher systems (33 lectures, 3rd year, Dr. Ng)

Error correcting codes (33 lectures, 3rd year, Dr. Elsholtz)

Game theory (33 lectures, 3rd year, Dr. Damerell)

Combinatorial optimisation (33 lectures, 3rd year, Dr. Yates)

Theory of error correcting codes (33 lectures, p/g, Dr. Elsholtz)

Combinatorics (33 lectures, p/g, Dr. Elsholtz)

Discrete Optimisation (33 lectures, p/g, Dr. Yates)

Network Algorithms (33 lectures, p/g, Dr. Yates)

Public Key Cryptography (33 lectures, p/g, Dr. Galbraith).

Advanced Cypher Systems (33 lectures, p/g, Dr. Ng)

Applications of Field Theory (33 lectures, p/g, Dr. Damerell)

The Department of Mathematics runs taught M.Sc. programmes in Information Security, Mathematics of Cryptography and Communications, and Mathematics for Applications.

Seminars Pure Maths Seminar (Dr. Elsholtz) (Tuesdays at 4.00 p.m. in room 219).

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. A.J.Cain (combinatorial semigroup theory and automatic structures)

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, permutation arrays, combinatorial designs)
Prof. A.W. Kemp (combinatorial applications in statistics)
Dr. C.D. Kemp (combinatorial applications in statistics)
Dr. D. Kahrobaei (graph theory and combinatorics)
Dr. J.H. McCabe (graph theory, number theory)
Dr. J. D. Mitchell (combinatorial and topological aspects of group and semigroup theory)
Dr. J.J. O'Connor (combinatorial group theory)
Dr. L. Olsen (analysis and combinatorics)
Dr. M. R. Quick (group theory)
Prof. E.F. Robertson (combinatorial group theory, combinatorics of semigroup presentations)
Dr. C. M. Roney-Dougal* (finite permutation and matrix groups, computational group theory, constraint programming).
Prof. N. Ruskuč (combinatorial semigroup theory)
Dr. B.O. Stratmann (combinatorial group theory, Kleinian groups)
V. Vatter (enumerative and algebraic combinatorics)

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

Tel: 01334 463253 Fax: 01334 463278

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

Prof. S.A. Linton (computational algebra: systems, algorithms and applications)

Lecture courses Discrete mathematics (56 lectures, 2nd year)

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

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

Various courses involving algorithms and complexity at 3rd/4th year level.

Current periodicals: B,E,F, J,M, N, P,Q,R,U,X,Y,a,c,d,f

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 (permutation groups, connections between groups and graphs)

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

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

Prof. C.N. Potts (combinatorial optimization and scheduling)
Prof. D. Singerman (discontinuous groups with applications to Riemann surfaces and the theory of maps)

School of Electronics and Computer Science

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

Prof. J. Shawe-Taylor

Department of Management 023 8059 3966

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

Dr. Julia A. Bennell

Research student Anton Prowse (Prof. Jones)

Lecture courses Combinatorics and Graph theory (13 lectures, 1st year, Dr. Ann Hirst)

Theory of numbers (36 lectures, 3rd/4th year, Dr. Mary Jones)

Scheduling (10 lectures, M.Sc., Prof. Potts)

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

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

Algorithms, machines and languages (36 lectures, 3rd/4th year, Prof. Jones)

Finite Mathematics (36 lectures, 3rd/4th year, Dr. Jim Renshaw)

Graph Theory (36 lectures, 3rd/4th year, Dr. Renshaw)

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

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>

Prof. Brian Burrows,

Dr. Sarah Easton*

Mr. Fred Pratt

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/math/>

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

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

Prof. P. Rowlinson* (algebraic graph theory)

Lecture courses Discrete structures (44 lectures, 1st year)

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

Algebra and codes (32 lectures, 3rd/4th year, alternate years)

Current periodicals: C, F, H, V, X, Y, b

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, Dr Hydon)

Algorithms and data structures (24 lectures, 2nd year, Mr Bish)

Statistical methods (30 lectures, 2nd year, 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/math>

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

Lecture courses Algebra and its Applications I (30 lectures, 3rd/4th year, Dr. Fenn)

Algebra and its Applications II (36 lectures, 3rd/4th year, Prof. Hirschfeld)

Research reports <http://www.sussex.ac.uk/math/1-4-1.html>.

Current periodicals: 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. A.D. Thomas

Lecture courses Combinatorics (20 lectures, 3rd year)

Applied algebra (40 lectures, 3rd year, 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 (convex and discrete geometry, functional analysis)

Prof. I. Bárány (convex geometry, geometry of numbers, theory of integer programming)

Prof. M. Csörnyei (real analysis)

Dr. J.A. Haight (combinatorial number theory, measure theory, ramsey theory, logic)

Prof. M. Laczkovich (real analysis)

Prof. D.G. Larman (geometric analysis, combinatorics)

Prof. P. McMullen (emeritus: convexity, regular polytopes)
Prof. D. Preiss (real analysis)
Prof. A.Sokal (combinatorial aspects of mathematical physics)
Dr. J. Talbot* (combinatorics, complexity theory)

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 (game theory)

Research students Natalia Garcia-Colin (convex geometry/ combinatorics: Prof. Larman)
Maria Prodromou (combinatorial properties of convex and discrete sets: Prof. Bárány)

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

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

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. C. Belrose
Dr. N. Bone
Dr. N. Jefferies
S. Manning
Dr. S. Thiel
Prof. M. Walker
R. Wright

The group is interested in 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/>

Dr. L.A. Goldberg*

Dr. Paul Goldberg
Prof. M. Paterson

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)

Research Students Markus Jalsenius

Peter Krusche

Nick Palmer

Kasper Pederson

Pattarawait Polpinit

Lecture courses Mathematics for computer scientists (1st year)

Discrete Maths 1 (1st year)

Discrete Maths 2 (1st year)

Data Structures and Algorithms (2nd year)

Complexity of Algorithms (3rd year)

Mathematical Programming (1st/2nd/3rd/M.Sc)

Operational Research (4th year)

Optimisation (M.Sc.)

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)

Mathematical Programming (3rd year)

Decision Analysis (M.Sc.)

Current periodicals: D, N, S, b

List C.

Recent and forthcoming publications.

This list contains combinatorial books and papers, with at least one UK based author, that have been published, accepted or submitted for publication since the last issue of the *Bulletin* - i.e., during (approximately) the calendar year 2005, or early 2006, and have come to the attention of the BCB Editor. This may imply that some earlier papers which narrowly missed getting into the previous Bulletin will not appear in this year's list either. The intention is that papers whose status has changed (e.g. by being accepted, or appearing in print) will appear again, but *not* those which are still under consideration or revision. The intention is that authors are listed in alphabetical order by surname, even if that is not the order in which they appear on the paper, and that all co-authors are cross-referenced to.

This list 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., Biró, P., Manlove, D.F.

Almost stable matchings in the roommates problems. In: Proc WAAA 2005: the 3rd workshop on Approximation and Online Algorithms, 2006.

Abraham, D.J., Irving, R.W. and Manlove, D.F.

Two algorithms for the student-project allocation problem. *J. Discrete Algorithms*, to appear.

Abraham, D.J., Čechlarova, K., Manlove, D.F. and Mehlhorn, K.

Pareto-optimality in house allocation problems, Proc. ISAAC 2004, 15th Annual International Symp. Algorithms and Computation, Lecture Notes in Computer Science 3341, Springer-Verlag, 3-15.

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

Popular matchings, Proc. SODA 2005, 16th ACM/SIAM Symposium on Discrete Algorithms, Vancouver, 424-432 (2005).

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

Diagonally switchable 4-cycle systems, *Australas. J. Combin.* To appear.

Addario-Berry, L., Dalal, K., McDiarmid, C., Reed, B. A. and Thomason, A.

Vertex-Colouring Edge-Weightings. *Combinatorica*. To appear.

Albert, M., Linton, S., Ruskuč, N.

The insertion encoding of permutations. *Electron. J. Combinat.*, to appear.

Al-Kenani, A. N. and Mavron, V. C.

Maximal arc partitions of designs. *Discrete Math.*, **294** 5-11 (2005).

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

Dominating sets in k -majority tournaments. *J. Comb. Theory Ser. B.* To appear.

Alpern, S. and Baston, V.

A common notion of clockwise can help in planar rendezvous. *European Journal of*

Operational Research. To appear.

Alpern, S. and Baston, V.

Rendezvous on a planar lattice. *Operations Research* **53** 996-1006 (2005).

Alpern, S. and Baston, V.

Rendezvous in Higher Dimensions. *SIAM Journal of Control and Optimization*. To appear.

Amaldi, E., Belotti, P. and Hauser, R.

A Randomized Algorithm for the MaxFS Problem. Technical Report.

Amaldi, E. and Hauser, R.

Boundedness theorems for the relaxation method. *Math. of OR.* **30** 939-955 (2005).

Anderson, I. and Ellison, L.

\mathbb{Z} -cyclic ordered triple whist tournaments on p elements where $p \equiv 5 \pmod{8}$. *Discrete Math.* **293** 11-17 (2005)

Anderson, I. and Ellison, L.

\mathbb{Z} -cyclic ordered triplewhist and directed triplewhist tournaments on p elements where $p \equiv 9 \pmod{16}$, *J. Comb. Math. Comb. Comput.* **53** (2005)

Anderson, I. and Ellison, L.

\mathbb{Z} -cyclic directed moore (2,6) generalised whist tournament designs on p elements where $p \equiv 7 \pmod{12}$, *Ars Combinatoria*. To appear.

Anderson, I. and Ellison, L.

Further results on logarithmic terraces. Submitted.

Anderson, I. and Finizio, N.

Some new \mathbb{Z} -cyclic whist tournament designs, *Discrete Math.* **293** 19-28 (2005)

Anderson, I. and Preece, D.A.

Logarithmic terraces, *Bull. Inst. Combinatorics Appl.* **46** 49-60 (2006).

Anderson, I. and Preece, D.A.

Some power-sequence terraces for \mathbb{Z}_{pq} with as few segments as possible, *Discrete Math.*, **293** 29-59 (2005).

Anderson, I. and Preece, D.A.

Some da capo directed power sequence \mathbb{Z}_{n+1} terraces with n an odd prime power. *Discrete Math.* To appear.

Anderson, I. and Preece, D.A.

Some $\mathbb{Z}_{(n-1)}$ terraces from \mathbb{Z}_n power-sequences, n being an odd prime power. *Proc. Edin. Math. Soc.* To appear.

Anderson, I. and Preece, D.A.

Two special terraces for \mathbb{Z}_{121} . *Bull. Inst. Combinatorics Appl.* To appear.

Anthony, M.

Probabilistic Learning of Boolean Functions. In: *Boolean Methods and Models* (eds. Y. Crama and P.L. Hammer). To appear.

Anthony, M.

Decision Lists and Related Classes of Boolean Functions. In: *Boolean Methods and Models* (eds. Y. Crama and P.L. Hammer). To appear.

Anthony, M.

Neural Networks and Boolean Functions. In: *Boolean Methods and Models* (eds. Y. Crama and P.L. Hammer). To appear.

Anthony, M. and Franco, L.

The influence of oppositely classified examples on the generalization complexity of Boolean functions. *IEEE Transactions on Neural Networks*. To appear.

Anthony, M. and Hammer, P. L.

A Boolean measure of similarity. *Discrete Applied Mathematics*. To appear.

Aouchiche M., Bell F. K., Cvetkovič D., Hansen P., Rowlinson P., Simič S. and Stevanovič, D.

Variable neighbourhood search for extremal graphs 16: some conjectures related to the largest eigenvalue of a graph. Submitted.

Baake, M. and Grimm, U.

Multiple planar coincidences with N -fold symmetry. Submitted.

Baake, M. and Grimm, U.

Averaged coordination number of planar aperiodic tilings. *Philosophical Magazine*. To appear.

Bailey, R. A.

Generalized wreath products of association schemes. *Eur. J. Comb.* **27** 428-435 (2006).

Bailey, R. A.

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