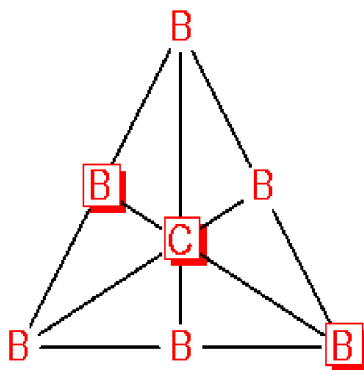


British Combinatorial Bulletin 2007



BRITISH COMBINATORIAL BULLETIN 2007

This is the 2007 edition of the British Combinatorial Bulletin. The format is essentially as in previous years. We hope that the additional Newsletter (now produced twice a year, in April and October) will help to convey some rather more informal information.

Can I again thank all institutional representatives for their enormous 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 remain very 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 for his technical help with the preparation of this Bulletin.

David Penman
Editor
27 April 2007.

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), Fiona Brunk (2007 PCC organiser), David Penman (Bulletin editor), Bridget Webb (Archivist), Graham Brightwell, Mark Jerrum, Stephanie Perkins, and James Hirschfeld (co-opted member). (Sophie Huczynska will join the committee in July 2007 when the 2009 BCC at St. Andrews becomes the next BCC, as she will be the Local Organizer).

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. There will shortly also be some information on some non-BCC events in the 2nd British Combinatorial Newsletter: <http://www.essex.ac.uk/math/BCB/BCBFiles/2006/BCN2.pdf>

1. Two-day Combinatorics Colloquium at QMUL and LSE – Wednesday 16 May and Thursday 17 May 2007.

There will be a 2-day Combinatorics meeting in London on Wednesday 16 May and Thursday 17 May 2007. The meeting on 16th May will be at QMUL and that on 17th May will be at the LSE. Both meetings, especially that at the LSE, are in honour of Norman Biggs. See <http://www.cdam.lse.ac.uk/biggsfest.html> for more details. In particular, titles are now available at http://www.cdam.lse.ac.uk/combinatorics_talks.html

On 16 May at **QMUL**, start time is 10.30 a.m. The speakers will be Béla Bollobás (Cambridge and Memphis), David Conlon (Cambridge), Jackie Daykin (King's,

London), Tony Gardiner (Birmingham), Anthony Hilton (QMUL), Svante Janson (Uppsala, visiting Cambridge), Colin McDiarmid (Oxford), Robin Wilson (Open) and Douglas Woodall (Nottingham).

On 17 May at **LSE**, start time is 10.00 (N.B.) The speakers will be Norman Biggs (LSE), Chris Godsil (Waterloo), Peter Rowlinson (Stirling), John Shawe-Taylor (Royal Holloway), Derek Smith (Glamorgan) and Dominic Welsh (Oxford).

Queries about the QMUL meeting may be made to [Robert Johnson](#) and about the LSE meeting to [Graham Brightwell](#).

2. 21st PCC at St. Andrews: 6-8 June 2007.

This year's meeting will take place at the University of St. Andrews. The organisers are Fiona Brunk (St. Andrews), Debbie Lockett (QMUL), Josephine Kusuma (QMUL) and Vincent Knight (Cardiff). The invited speakers will be Carrie Rutherford (London South Bank University), Bruce Sagan (Michigan State University) and Robin Wilson (Open University). The webpage is <http://www-circa.mcs.st-and.ac.uk/~pcc2007/> and queries should be sent to pcc2007@mcs.st-and.ac.uk. The webpage includes already some of the titles for contributed talks to be contributed by students: please note that all titles should be sent in by **Friday 11 May 2007**.

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 two talks on “post-Ph.D life” by Colva Roney-Dougal (St. Andrews) and Stephen Waton (Goldman Sachs).

Following the conference there is another meeting (11-15 July) on Permutation Patterns, see <http://www-circa.mcs.st-and.ac.uk/PermutationPatterns2007/> which may also be of interest.

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) and the other organisers are Matthew Johnson (Durham), Matthew Henderson (Swansea), David Stirling (Reading) and John Talbot (UCL). The conference website is <http://www.personal.rdg.ac.uk/~smx05mj/bcc2007/>. It is financially supported by The Institute of Combinatorics and Its Applications, EPSRC and the LMS.

Please note that you can now register for the conference: the closing date for registration is **8 June 2007**. That is also the last date for would-be speakers to contribute abstracts of their 20-minute contributed talks. In association with this, there will be an opportunity for speakers to contribute a version of their talk to a special issue of Discrete Mathematics. (All speakers who intend to contribute a paper to Discrete Mathematics must meet the usual standard of the journal, and the papers will be subject to the usual refereeing

process of the journal). See

<http://www.personal.rdg.ac.uk/~smx05mj/bcc2007/contributed.html> for details of contributed talks, and how to submit one. There will also be a Problem Session and a BCC Business Meeting.

There will be an excursion to Windsor on the Wednesday afternoon, for details see <http://www.personal.rdg.ac.uk/~smx05mj/bcc2007/excursion.html> There will also be a conference dinner on Thursday night. The usual entertainment will take place on the Tuesday evening. It is being organised by David Penman (dbpenman@essex.ac.uk): please contact him if you are at all interested in taking part in the event.

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: you can see all the abstracts at once at <http://www.personal.rdg.ac.uk/~smx05mj/bcc2007/abstracts.html>

[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](#)

4. PJC60.

This year, on a one-off basis, the BCC is supporting a meeting at Ambleside from 23-26 August 2007 for Peter Cameron's 60th birthday. The organisers are Robert Bailey,

Dugald McPherson, Sara Rees and Leonard Soicher. The conference webpage is <http://www.maths.qmul.ac.uk/~rfb/pjc60/>. More on this in the 2nd British Combinatorial Newsletter.

5. Open University Winter meeting.

The most recent Open University meeting took place on Wednesday 24 January 2007, see <http://puremaths.open.ac.uk/combin/index.htm>. There is likely to be a similar meeting at roughly the corresponding time in 2008.

6. Oxford meeting.

The most recent Oxford meeting took place on Wednesday 14 March 2007, see <http://www.maths.ox.ac.uk/combinatorics/>. Again, a similar meeting is likely to take place at roughly the corresponding time in 2008.

7. BCC2009.

The 2009 BCC will take place at St. Andrews from 5-10 July. 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 2005 to 30 September 2006.

	Year to 30/9/2006	Year to 30/9/2005
Income	£	£
Interest	947.29	634.03
Royalties from Cambridge University Press	931.09	114.21
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>1878.38</u>	<u>15427.28</u>
Expenditure		
Grants for one-day conferences	882.70	1234.29
Travel expenses for one invited speaker to BCC20, Durham	67.00	
Grant for Reading 2-day conference, May 2006	2500.00	
Grant for Oxford conference on Discrete Mathematics		500.00
Postgraduate Combinatorics Conference 2005		500.00
British Combinatorial Bulletin 2005	220.00	215.45
Open University Combinatorics Prizes	100.00	200.00
Deposit for PCC 2006		120.00
Committee expenses	88.23	100.28
Total expenditure	<u>3857.93</u>	<u>2870.02</u>
Excess of income over expenditure/(expenditure over income)	(1979.55)	12557.26
Statement of Balances as at 30 September	2006	2005
	£	£
Bank of Scotland Treasurer's Account	1717.97	1122.29
Scottish Widows Bank Treasury Tracker Account	24464.70	27039.93
Total	<u>26182.67</u>	<u>28162.22</u>

The committee has no other investments, assets or material liabilities.

Queries relating to the accounts to the Treasurer, Keith Edwards.

LIST A.

Combinatorial Mathematicians based in Britain.

Addario-Berry, Dr. L.	Oxford
Alassiry, Tem	RHUL
Allen, Stuart M.	Cardiff
Al-Kharoosi, Fatma	QMUL
Al-Meaither, M.	RHUL
Ambuhl, Dr. Cristoph	Liverpool
Anderson, Dr. Ian	Glasgow
Anthony, Prof. Martin	LSE
Antilla, M.	UCL
Appa, Prof. G.	LSE
Arhin, Dr. J.	QMUL
Arrowsmith, Prof. D. K.	QMUL
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
Batu, Tugkan	LSE
Baur, Karin	Leicester
Bedford, Dr. David	Keele
Beker, Prof. Henry J.	RHUL
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.	Manchester
Bowler, Dr. Andrew	Birkbeck
Bray, Dr. John	QMUL
Brightwell, Prof. G. R.	LSE
Britnell, Dr. John R.	Newcastle
Brown, Dr. G. D.	Kent
Bryant, Prof. Roger M.	Manchester
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.	UEA
Campbell, Dr. Colin M.	St. Andrews
Chapman, Dr. Robin J.	Exeter
Chen, Prof. Bo	Warwick
Chetwynd, Prof. A. G	Lancaster
Chicot, Dr. Katie M.	Open
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, Prof. R.J.	Sheffield
Cooley, Oliver	Birmingham
Cooper, Dr. Colin	KCL
Cooper, Prof. S. Barry	Leeds
Cosh, Ben	Goldsmith's

Crampton, Dr. Jason	RHUL
Croft, Dr. Hallard T.	Cambridge
Crouch, Dr. Simon	Hewlett-Packard
Cryan, Dr. Mary	Edinburgh
Csornyei, Prof. Marianna	UCL
Curtis, Prof. Robert T.	Birmingham
Czumaj, Prof. Artur	Warwick

D

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.	UEA

E

Eagle, Philip	RHUL
Easton, Sarah J.	Staffordshire
Edwards, Dr. Keith J.	Dundee

Eggemann, Nicole	Brunel
Elsholtz, Dr. Christian	RHUL
Emmett, Lynn	UEA
Erlebach, Dr. Thomas	Leicester
Essam, Prof. John W.	RHUL
Evans, Dr. David M.	UEA
Evans, Dr. Edward A.	St.Mary's U. C.
Everett, Prof. M. G.	Greenwich

F	
Fairbairn, B.	Birmingham
Falconer, Prof. K. J.	St. Andrews
Fenner, Dr. Trevor I.	Birkbeck
Firby, Dr. Peter A.	Exeter
Fleischmann, Prof. P.	Kent
Forbes, Dr. A.D.	Open
Fountoulakis, Dr. N.	Birmingham

G	
Galbraith, Dr. Steven	RHUL
Gao, Rong	Essex
Gardiner, Dr. Tony D.	Birmingham
Gasieniec, Leszek	Liverpool
Georgiou, Dr. Nicholas	Bristol

Gerke, Dr. Stefanie	RHUL
Gibson, Dr. J. Keith	Birkbeck
Gilder, John.	Manchester
Gillett, Dr. Raphael T.	Leicester
Gilmour, Prof. S. G.	QMUL
Glass, Prof. Celia A.	City
Goldberg, Prof. Leslie A.	Liverpool
Goldberg, Dr. Paul W	Liverpool
Goodall, Dr. Andrew J.	Bristol
Gordon, Dr. Neil A.	Hull
Gowers, Prof. W. Tim	Cambridge
Grannell, Prof. Mike J.	Open
Gray, Dr. Robert	Leeds
Green, Prof. B.	Cambridge
Griggs, Prof. Terry	Open
Grimm, Uwe	Open
Gutin, Prof. Gregory	RHUL
Gwynllyw, Dr. Rhys	West of England

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	Swansea

Heneghan, Chris	RHUL
Hetherington, Dr. T. J.	Nottingham
Heuer, Manuela	Open
van den Heuvel, Prof. J.	LSE
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
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	Ystrad Mynach College
Hunter, Gordon J.A.	St Mary's U. C.
Hurley, Steve	Cardiff

I	
Irving, Dr. R. W.	Glasgow

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	QMUL
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
Jurdzinski, Dr. Marcin	Warwick

K	
Kayibi, Dr. Koko	QMUL
Kahrobaei, Dr. Delaram	St Andrews
Keedwell, Dr. A. D.	Surrey
Kelly, L.	Birmingham
Kemp, Prof. David	St Andrews
Kemp, Dr. Freda	St Andrews
Kenneth, R	UEA

King, Dr. Oliver H.	Newcastle
King, Prof. R. C.	Southampton
Kisil, V.V.	Leeds
Kovalenko, I	UNL
Koster, Dr. Arie	Warwick
Krasikov, Dr. Ilia	Brunel
Krokhin, Andrei	Durham
Krysta, Dr. Piotr	Liverpool
Kühn, Dr. D.	Birmingham
Kurtz, Cornelius	UEA
Kusuma, Josephine	QMUL

L	
Laczovich, Prof M.	UCL
Lamb, Dr. John D.	Aberdeen
Larman, Prof. David G.	UCL
Lawson, Dr. Mark V.	Heriot-Watt
Laycock, Dr. P.J.	Manchester
Leader, Prof. I.B.	Cambridge
Leese, Dr. Robert	Oxford
Liebeck, Prof. M.	Imperial College
Li'enart, E.	Goldsmiths
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
Lovegrove, Graham J.	Open
Lozin, Dr. Vadim	Warwick
Luczak, Dr. Malwina	LSE

M	
Macdonald, Prof. I. G.	QMUL
Macpherson, Prof. H. D.	Leeds
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.	Leeds
Martin, Prof. K.	RHUL
Martin, Dr. Nigel	Durham
Martin, Dr. Russell	Liverpool
Mavron, Prof. Vassili C.	Aberystwyth
Maynard, Dr. Philip	UEA
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

Michalopoulos, I.	RHUL
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, Prof. T. W.	QMUL
Murphy, Prof. Sean P.	RHUL
Myers, Dr. J.S.	Cambridge

N	
Newman, Dr. Mike	QMUL
Ng, Dr. S.	RHUL
Noble, Dr. Steven	Brunel
Norman, Dr. Chris W.	RHUL
Novak, Julia	RHUL
Nuebling, Herwig	UEA

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
Paget, Dr. Rowena E	Kent
Panov, Taras	Manchester
Paris, Prof. Jeff	Manchester
Parker, Prof. 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	UEA
Poghosyan, Anush	West of England
Potts, Prof. Chris N.	Southampton
Powell, Dr. Susan	LSE, London
Pratt, F.	Staffordshire
Preece, Prof. Donald A.	QMUL and Kent
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
Raecke, Dr. Harald	Warwick
Ray, Prof. Nigel	Manchester
Rees, Prof. Sarah E.	Newcastle
Reuter, A.	Imperial
Riordan, Prof. O.	Oxford
Robertshaw, Dr. A.	ONS
Robertson, Prof. E F.	St. Andrews
Rogers, Prof. C. A	UCL
Roney-Dougal, Dr. C. M.	St. Andrews
Rooney, Dr. Joe	Open
Rowley, Dr. C. A.	Open
Rowley, Dr. Peter J.	Manchester
Rowlinson, Prof. Peter	Stirling
Rudd, Jason	QMUL
Rudloff, C.	UEA
Rudnev, Prof. Misha	Bristol

Ruškuc, Prof. Nik	St Andrews
Russell, Dr. P.A.	Cambridge
Rutherford, Dr. Carrie	London South Bank

S	
Saker, Dr. C. J.	Essex
Salhi, Dr. A.	Essex
Sands, Dr. Arthur D.	Dundee
Sanders, A.J.	Cambridge
Sandling, Dr. Robert	Manchester
Savani, Dr. Rahul	Warwick
Saxl, Prof. Jan	Cambridge
Scott, Prof. Alex D.	Oxford
Sendova-Franks, Dr. A	West of England.
Sezgin, S.	UCL
Shah, Illana	RHUL
Shakhlevich, Natasha	Leeds
Shank, Dr. R. J.	Kent
Shareef, Dr. F.	QMUL
Shaw, Prof. Ron	Hull
Shawe-Taylor, Prof. J. S.	Southampton
Shreeve, Richard I.	Royal Grammar School
Siemons, Dr. I. Johannes	UEA
Sing, Bernd	Open
Singerman, Prof. David	Southampton

Singmaster, Prof. D. B.	London South Bank
Širáň, Prof. Jozef	Open
Skokan, Jozef	LSE
Smith, Prof. Derek H.	Glamorgan
Sng, Colin	Glasgow
Soicher, Dr. Leonard H.	QMUL
Sokal, Prof. A. D	UCL
Solomon, Prof. Allan I.	Open
Spencer, Claire	Reading
Stark, Dr. D. S.	QMUL
von Stengel, Prof. B.	LSE
Steinberg, Dr. R.	Cambridge
Stewart, Fraser	Dundee
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	UEA
Tiskin, Dr. Alexandre	Warwick
Truss, Prof. John K.	Leeds

V	
Valenca, Paula	RHUL
Vámos, Prof. Peter	Exeter
Vatter, Vince	St Andrews
Vaughan, Emil	QMUL
Vdovina, Dr. Alina	Newcastle
Vernitski, Dr. Alexei	Essex
Vincent, Robert	UEA
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
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
Wong, Dr Prudence W H	Liverpool
Woodall, Dr. Douglas R.	Nottingham
Woodcock, Dr. C. F.	Kent
Wright, R.	Vodafone Group
Wu, Taoyang	QMUL

Y	
Young, A.	Birmingham

Z

Zaleskii, Prof. A.E.	UEA
Zarkh, Alexander	Brunel
Zito, Dr. Michele	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)

Lecture Courses: There are a number of general discrete mathematics courses.

Current Periodicals: A, B, E, F, H, I, J, L, M, N, P, Q, R, T, V, W, Z, d, g (some electronic access only).

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 (July and August 2007).

Research student C Andreou (Regular Hadamard Matrices)

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

Groups (20 lectures, Prof. Mavron)

Current periodicals: P, U, h

UNIVERSITY OF WALES, BANGOR

School of Computer Science University of Wales, Dean Street, Bangor, Gwynedd LL57 1UT. Tel: 01248 382686 Fax: 01248 361429

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

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

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)

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>

Prof. 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 6587 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. D. Kühn (Graph Theory, Probabilistic Methods)

Dr. D. Osthus* (Graph theory, Probabilistic Methods, Randomized Algorithms)

Research Students

O. Cooley (Ramsey theory and extremal graph theory. Dr. Kühn)

B. Fairbairn (Combinatorial Algebra, Prof. Curtis)

L. Kelly (Extremal graph theory. Dr. Osthus).

A. Young (Extremal problems on digraphs, Dr. Osthus).

Lecture courses

Advanced Topics in Combinatorics (22, 4th year, Dr. Kühn)

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

Combinatorics (22 lectures, 3rd and 4th year, Dr. Gardiner)

Communication Theory (22 lectures, 3rd and 4th year, Dr. Osthus)

Computability (22 lectures, 3rd and 4th years, Dr. Osthus)

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

Seminar Combinatorics Research Seminar (Thursdays at 3.00 p.m., Dr. Kühn and Dr. Osthus)

UNIVERSITY OF BRISTOL

Department of Mathematics University of Bristol, University Walk, Bristol, BS8 1TW,
Tel: 0117 928 7978, Fax: 0117 928 7999.

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

Dr. Misha Rudnev (harmonic analysis, geometric combinatorics)

Research Fellows

Dr. Nicholas Georgiou* (random structures, partially ordered sets)

Dr. Andrew Goodall (algebraic graph theory)

Research Students:

Tony Skyner (representation theory: Dr. Chaung)

Lecture Courses

Discrete Mathematics I (48 lectures, 1st year)

Discrete Mathematics II (12 lectures, 2nd year)

Optimisation 2 (36 lectures, 2nd year)

Information Theory (18 lectures, 3rd year)

Experimental Design (18 lectures, 3rd year)

Computational Complexity Theory (20 lectures, 3rd year)

Optimisation 3 (36 lectures, 3rd year)

Quantum Information Theory (16 lectures, 4th year)

Current Periodicals: E, h (paper): A, B, E, F, H, I, J, L, M, N, P, Q, R, S, T, U, V, X, Y, Z, a, b, c, d, e, f, g, h (electronic). There are some old paper copies of A, B, F, H, J, L, M, N, R, T, X, Y, b, d, i.

BRUNEL UNIVERSITY

Department of Mathematical Sciences Brunel University, Kingston Lane, Uxbridge, Middlesex UB8 3PH. Tel: 01895 265745 Fax: 01895 265732

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

Dr. Rhiannon Hall (matroids, graphs)

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

Dr. Igor Krasovskiy (random matrices, orthogonal polynomials)

Prof. Gautam Mitra (combinatorial optimisation)

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

Research Students

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. Krasovskiy)

Discrete Mathematics, Probability and Statistics (48 lectures, 1st year, Dr. Shaw 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. B. Green (Trinity)

Prof. I.B. Leader* (Trinity)

Prof. J. Saxl (Caius)

Prof. A. Thomason (Clare)

Fellows

Prof. B. Bollobás (Trinity)

Dr. H.T. Croft (Peterhouse)

Dr. O.M. Riordan (King's)

Dr. P. A. Russell (Emmanuel)

Dr. T. Sanders (Christ's)

Dr. M. Walters (Peterhouse)

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)

Tom Coker (Prof. Bollobás)

David Conlon (Prof. Gowers)

David Ellis (Prof. Leader)

Gonzalo Fitz-Ponteveros (Prof. Gowers)

Simon Griffiths (Prof. Leader)

John Haslegrave (Prof. Bollobás)

Allan Lo (Prof. Thomason)

Edward Marchant (Prof. Thomason)

Vicky Neale (Prof. Green)

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)
Graph Theory (24 lectures, 3rd year, Dr. Riordan)
Coding and Cryptography (24 lectures, 3rd year)
Combinatorics (16 lectures, Part 3, Prof. Thomason)
Ramsey Theory (16 lectures, Part 3, Prof. Leader)
Combinatorial Probability (16 lectures, Part 3, Prof. Bollobás)

Seminar Combinatorics (Thursdays at 2.30 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

School of Computing University of Dundee, Dundee DD1 4HN. Tel: 01382 384151 Fax: 01382 385509

<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 384471 Fax 01382 385516

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

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

Research student F. Stewart (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. Krokhin (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)

Research Staff

Dr Catarina Carvalho (constraint satisfaction, semigroup theory)

Dr Barnaby Martin (Computational complexity; finite model theory, proof complexity)

Research Students

Pim van 't Hof (exact algorithms for NP-hard problems: Dr. Paulusma)

Mark Rhodes (linear-programming based proof systems: Dr. Dantchev)

Yonghong Xiang (interconnection networks for parallel computing: Prof. Broersma and Prof. Stewart).

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. Zalesskii (group theory, ring theory)

Research students

Mr. S. Alder (simplicial geometries, Dr Siemons)

M. Ferreira (Dr. Evans)

Y. Lazou (Dr. Džamonja)
T. McKay (Dr. Siemons)
T. Phongpattanacharoen (reconstruction, Dr. Siemons)
J. De la Rue (model theory and infinite permutation groups, Dr. Evans)
F. Shaikh (model theory and set theory, Dr. Džamonja)
D. Smith (representations of linear groups and combinatorial applications, Dr. Siemons)
M. Wong (Dr. Evans)

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)

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. 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 482136 Fax: 01443 482711

<http://www.glam.ac.uk/sot/709/mathematicsstatistics>

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: J, N, T, X, Y, e. T is online only after Vol. 51. J only from 2004.

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 Staff Dr. Peter Biró

Research students

Gregg O'Malley (4th year, Dr. Manlove)

Eric McDermid (1st year, Dr. Irving)

Colin Sng (3rd year, 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. Manlove)

Current periodicals: C, O, i (paper only)

E, F, V, b, h (paper and electronic)

M, N, P, Q, T, X, Y, c (electronic only).

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 (electronic access only), 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/>

Dr. G. D. Brown (toric geometry)

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

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

Dr. R. E. Paget* (representation theory of symmetric groups, cellular algebras)

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

Dr. R. J. Shank (modular invariant theory)

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

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

Research associate: Dr. G. Williams (combinatorial group theory)

Lecture courses

Discrete mathematics (30 lectures, 3rd year, Dr. Woodcock)
Computational algebra (30 lectures, 3rd year, Prof. Fleischmann)

Current periodicals: E, F, T
(electronic access to A, B, H, J, L, M, N, P, Q, R, S, U, V, X, Y, Z, a, b, c, d, e, f, g)

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. D. R. Gray (semigroups, automorphism groups of graphs, digraphs, partial orders).

Dr. V.V. Kisil (Applications of coherent states, wavelet transform and group representations in quantum mechanics, combinatorics, etc).

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

Dr. Robert Marsh (quantum groups, algebraic groups, Lie algebras)

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)

Dr. Natasha Shakhlevic (deterministic scheduling theory, combinatorial optimisation, computational complexity)

Dr. Kristina Vuskovic (graph theory, algorithms and combinatorial optimisation)

Postdoctoral Researcher

Ton Kloks (graph theory and algorithms).

Research Students

Ragab Elageili (Prof. Truss)

Simon Rose (Prof. Truss)

David Knipe (automorphism groups of partial orders, Prof. Truss)

Feresiano Mwesigye (theories of linear orders, Prof. Truss)

Murilo V.G. da Silva (even-hole-free graphs, Dr. Vuskovic).

Pietro dello Stritto (model theory for generalised polygons and BN pairs, Prof. MacPherson)

Richard Marshall (model theory of finite structures, Prof. Macpherson)

Lecture courses

Introduction to Discrete Mathematics (22 lectures, 2nd year, Prof. Truss)

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

Combinatorics (22 lectures, 3rd year, Dr. Allenby)

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. K. Baur (representation theory of Lie algebras, cluster categories, secant varieties, tropical geometry)

Dr. T. Erlebach (combinatorial optimization, approximation algorithms, algorithmic graph theory)

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

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

Lecture courses

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

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

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

Cryptography and Information Security (30 lectures, 3rd year, Dr. Fung)

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

Game Theory in Computer Science (24 lectures, M.Sc., Dr. Savani).

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, T, X, Y (paper)

E, F, M, N, P, Q, R, T, U, X, Y, b, c, d, e, f, g, h (electronic)

UNIVERSITY OF LIVERPOOL

Department of Computer Science University of Liverpool, Ashton Building,
Liverpool L69 3BX, United Kingdom. Tel. 0151 795 4276 Fax: 0151 795 4235.

<http://www.csc.liv.ac.uk/>

Dr. C. Ambuhl (combinatorial algorithms, networks, scheduling)

Prof. L.A. Goldberg* (combinatorial algorithms, complexity of counting and sampling)

Dr. P.W. Goldberg (algorithmic game theory)

Dr. P. Krysta (algorithmic game theory)

Dr. R. Martin (enumerative combinatorics)

Dr. P.W.H. Wong (combinatorial algorithms, scheduling, packing)

Dr. M. Zito (algorithms and complexity, random structures)

Research Students

Markus Jalsenius (Markov chain algorithms, Prof L. Goldberg)

Andrew McGrae (colouring, random graphs, Dr Zito)

Kasper Pedersen (Markov chain algorithms, Prof. L. Goldberg)

Patarawit Polpinit (algorithmic game theory, Dr P. Goldberg)

Lecture courses:

Comp108 Algorithmic Foundations (1st year)

Comp202 Complexity of Algorithms (2nd year)

Comp308 Efficient Parallel Algorithms (3rd year)

Comp309 Efficient Sequential Algorithms (3rd year)

Comp523 Advanced Algorithmic Techniques (M.Sc.)

Comp526 Applied Algorithmics (M.Sc.)

Seminar:

Complexity Theory and Algorithmics Seminar, Thursdays 3:15.

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)
Dr. Tugkan Batu (randomized computation, algorithms on massive data sets, property testing, statistical testing, streaming algorithms)
Prof. Norman Biggs (algebraic graph theory, history of combinatorics, applications in physics and finance)
Prof. Graham Brightwell* (partially ordered sets, random structures)
Prof. Jan van den Heuvel (graph theory, discrete mathematics, applications)
Dr. Malwina Luczak (probability and discrete mathematics)
Dr. Jozef Skokan (quasi-randomness, applications of the regularity lemma, numbers in Ramsey theory)
Prof. 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>

Prof. 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 Chinthalapti
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., Prof. Appa)
Theory of Algorithms (20 lectures, 3rd year, Prof. von Stengel)
Computational Learning Theory and Neural Networks (20 lectures, M.Sc., Prof. Anthony)
Algorithms and Computation (20 lectures, M.Sc., Prof. von Stengel)
Discrete Mathematics and Complexity (20 lectures, M.Sc., Prof. 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. J. Paris (logic, including interactions with combinatorics)

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 courses

Discrete mathematics (24 lectures, 2nd year, Dr. Mark Muldoon)

Combinatorics and Number Theory (24 lectures, 3rd year, Dr. Gabor Megyesi)

Coding theory (24 lectures, 3rd year, Dr. Peter Symonds)

Mathematical Programming (24 lectures, 3rd year, Dr. Mike Tso)

Knot Theory (24 lectures, 3rd year, Prof. Ray)

Computational Complexity (24 lectures, 3rd/4th year, Prof. Paris).

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, V, b, e (all available both on paper and electronically).

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. J.R. Britnell (finite classical groups, cycle index methods for matrix groups, pairwise generating sets for finite 2-generator groups)

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

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

Dr. Alina Vdovina (geometric group theory, noncommutative geometry, knot theory, Riemannian geometry)

Lecture courses

Enumeration and Combinatorics (24 lectures, 2nd year, Dr. Duncan)

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

Geometries and Designs (24 lectures, 3rd year, Dr. King)

Coding Theory (24 lectures, 3rd year, Dr. Britnell).

Current periodicals: A, B, F, H, I, J, L, M, N, P, Q, R, S, T, U, V, X, Y, a, c, d, e, f, g. These are mostly electronic access only, but F, P, R, T, U, X, c, d are paper-access too.

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)

Dr. T. J. Hetherington (list colourings of graphs).

Research students 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

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

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

Dr. K. M. Chicot (infinite combinatorics)

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 graph colourings, graceful and related tree labellings, Erdős-Ko-Rado properties of graphs)

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

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

B. Sing (enumerative combinatorics, aperiodic tilings, applications to physics)

Prof. J. Širáň (topological graph theory, Cayley graphs)

Dr. B. S. Webb (automorphisms of designs, Latin squares, infinite designs)

Prof. R.J. Wilson (history of graph theory and combinatorics, graph colourings)

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)

Department of Physics and Astronomy Faculty of Science, The Open University, Walton Hall, Milton Keynes MK7 6AA.

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

Prof. A. I. Solomon (combinatorial physics, integer sequences)

Visiting research fellow Dr. A.D. Forbes (combinatorial designs)

Research students

P. Borg (Erdős-Ko-Rado properties of graphs: Dr. Holroyd, Dr. Quinn and Dr. Webb)

M. Heuer (combinatorial aspects of sequences and tilings: Dr. Grimm, Prof. Baake (University of Bielefeld) and Dr. Umerski (Open University)).

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 (graph theory in America, 1860-1940: 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 (3rd year)

M836: Coding Theory (M.Sc.).

Current periodicals: A, C, D, E, F, H, J, N, P, S, V, W, X, Y, b, i.

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>

Dr. R. Leese (channel assignment problems)

Prof. Oliver Riordan (combinatorics, graph theory) (from October 2007).

Prof. Alex Scott (combinatorics, graph theory)

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

Department of Statistics 1 South Parks Road, Oxford OX1 3TG. Tel: 01865 272860 Fax: 01865 272595

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

Dr. Louigi Addario-Berry

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)

Kaisheng Lin (Prof Reinert)

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

Lecture courses

Combinatorial optimisation (16 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, 4th year, Prof. Scott)
Probabilistic Combinatorics (16 lectures, 4th year, Dr. Martin).

Seminar Combinatorial theory (Tuesdays at 2.30 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)

Dr. J. N. Bray (group theory)

Prof. P. J. Cameron* (groups and their operands, graphs, codes, designs, models, orbits and enumeration)

Prof. Bill Jackson (graph theory)

Prof. Mark Jerrum (computational complexity, probabilistic computation, the complexity of combinatorial enumeration)

Dr. J. R. Johnson (graph theory and combinatorics)

Prof. 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. John Arhin (existence and structure of SOMAS).

Dr. Robert Bailey (coding theory, permutation groups)

Prof. Anthony Hilton (Professorial fellow: graph theory, design theory, finite set systems)

Prof. Dan Hughes (Emeritus Professor: finite geometry)

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)

Josephine Kusuma (coding theory, Prof. Cameron)

Debbie Lockett (homogeneous structures, Prof. Cameron)

Rebecca Lodwick (crossover trials, Prof. Bailey)

Federico Montecalvo (covering designs, Prof. Cameron)

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)

Emil Vaughan (graph theory and statistics, Prof. Cameron)

Lecture courses

Graph Theory and Applications (36 lectures, 2nd year, Prof. Jackson)

Combinatorics (36 lectures, 3rd year, Prof. Jackson)

Coding Theory (36 lectures, 3rd year, Prof. Jerrum)

Cryptography (36 lectures, 3rd year, Prof. Wilson)

Enumerative and Asymptotic Combinatorics (24 lectures, M.Sc., Prof. Müller)

Projective and Polar Spaces (24 lectures, M.Sc., Prof. Cameron)

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: Prof. Hilton)

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. 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. S. Gerke (graph theory, combinatorics, random structures and algorithms)

Dr. K.M. Martin (cryptography and information security)

Prof. C. Mitchell (cryptography and information security)

Prof. 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. Birkett (security, asymmetric cryptography).

C. Blackwell (Internet attack and defence taxonomies, Prof. Mitchell)

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

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

S-J. Choi

R. Hughes-Jones (combinatorics, Prof. Blackburn and Dr. Elsholtz).

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

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

J. Novak (formerly J. Bate) (combinatorial key management techniques: Dr. Martin).

R. S. Ruprai (elliptic curves, Dr. Galbraith)

A Soleimanfallah

S Srinivasan (cryptography, network security, provable security: Prof. Paterson)

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

T. Page (hash structures: Dr. Martin)

L. Rackham (combinatorial number theory. Dr. Elsholtz).

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

L. Stringer (combinatorics and group theory: Prof. Blackburn).

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 (all available hard copy, some also available electronically).

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)

Dr. D. Kahrobaei (graph theory and combinatorics)

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

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

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. Ruškuc (combinatorics of words, mappings, permutations: combinatorial semigroup theory)

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

Dr. 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)

Research Students

Mr. B. U. M. Assmann (design and implementation of algorithms for infinite groups: Prof. Linton).

Mr J. M. Bagnall (finiteness problems in groups and semigroups: Dr. Quick and Prof. Ruškuc)

Mr R. L. F. Brignall (algebraic combinatorics: Prof. Ruškuc)
Miss F. T. Brunk (combinatorics: Dr. Huczynska and Prof. Ruškuc).
Mr A. M. H. Connelly
Miss H. J. Coutts (primitive groups: Dr. Quick and Dr. Roney-Dougal)
Mr A. Distler
Mr M. R. Hille (Kleinian groups, Teichmüller theory etc)
Mr V. Maltcev (semigroup theory: Dr. Mitchell and Prof. Ruškuc)
Ms S. A. Munday
Mr Y. H. Peresse (generation of groups and semigroups: Dr. Mitchell and Dr. Quick).
Mr A. J. Samuel (Noncommutative aspects of affine self-similar fractal sets: Dr. Stratmann)
Miss N. Snigireva

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.

Seminars Pure Mathematics Colloquium 4pm Thursdays
Algebra and Combinatorics Seminar 4pm Wednesdays

Current periodicals: B, E, F, f are available on paper. Available only electronically are the following: A, H, J, L, M, N, P, Q, R, S, U, V, X, Y, Z, a, b, c, d, e, g.

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. P.S. Jackson (algebraic graph theory)

Emeritus 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, 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, Prof. M. Roberts)
Algorithms and data structures (24 lectures, 2nd year, Mr Bish)
Algebra and Codes (30 lectures, 2nd year, Dr. D. Fisher)
Galois theory (3rd year, 30 lectures, Dr. D. Fisher)
Experimental design (30 lectures, 2nd year, Dr E. J. Godolphin)

Current periodicals: C, E, F, i (paper), T (electronic).

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. 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)
Rahil Baber (combinatorics, Dr. Talbot)

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 (Tuesdays at 4.00 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/>

Prof. Artur Czumaj (analysis and design of algorithms and data structures, randomized algorithms, graph theory, game theory)

Dr. Marcin Jurdzinski (algorithmic game theory, logic in computer science, optimization, modelling and algorithmic analysis of systems)

Prof. Mike Paterson* (computational complexity, analysis and design of algorithms)

Dr. Harald Raecke (algorithms, network algorithms).

Dr. Rahul Savani (game theory)

Dr. Alex Tiskin (bulk-synchronous parallel computation).

Warwick Business School Tel. 024 7652 8220 Fax: 024 7652 4539

<http://www.wbs.ac.uk>

Prof. Bo Chen (scheduling theory and applications; real-time optimisation; combinatorial optimisation; decision analysis)

Dr. Vladimir Deineko (combinatorial optimisation, polynomially solvable cases of NP-hard problems)

Dr. Arie Koster (combinatorial optimisation, polyhedral combinatorics, network design, fixed-parameter tractable algorithms).

Warwick Mathematics Institute. Tel. 024 7652 4661 Fax: 024 7652 4182.

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

Dr. Vadim Lozim (algorithmic and structural graph theory, graph algorithms)

Research Students

Haris Aziz (algorithmic voting theory, Prof. Paterson)

Peter Krusche (efficient parallel processing, Dr. Tiskin)

Nick Palmer (machine learning, Prof. Paterson)

Michal Rutkowski (game theory, Dr. Jurdzinski)

Ashutosh Trivedi (algorithmic game theory, Dr. Jurdzinski).

Lecture courses

Mathematics for Computer Scientists 1 (1st year)

Further Discrete Mathematics (1st year)

Data Structures and Algorithms (2nd year)

Algorithm Design (2nd year)

Complexity of Algorithms (3rd year)

Advanced Topics in Algorithms (3rd year)

Modelling and Algorithmic Analysis of Systems (4th year)

Advanced Algorithms (MSc)

Mathematical Programming and Heuristics (MSc)

Operational Research (4th year)

Optimisation (MSc)

All the people listed above at Warwick are affiliated with DIMAP, the Centre for Discrete Mathematics and its Applications; see <http://www.dcs.warwick.ac.uk/dimap> for more details.

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 Rhys Gwynllwy (graph theory and its applications)

Dr Ana Sendova-Franks (graph theory and its applications)

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

Research Students:

Anush Poghosyan (graph theory and algorithms)

Lecture courses

Discrete Mathematics (2nd year)

Operational Research (2nd year)

Decision Analysis (3rd year)

Mathematical Programming (3rd year)

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 period April 2006-April 2007 - and have come to the attention of the BCB Editor. 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, or are still waiting to be published. 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., Irving, R. W. and Manlove, D. F.

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

Diagonally switchable 4-cycle systems, *Australas. J. Combin.*, **34** (2006) 145-152.

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

Vertex-Colouring Edge-Weightings. *Combinatorica* **27** (2007) 1-12.

Albert, M.H., Linton, S.A. and Ruškuc, N.

On the permutational power of token passing networks. *Theor. Comput. Sci*, to appear.

Alon, N., Bollobás, B., Gyárfás, A., Lehel, J. and Scott, A. D.

Maximum cuts in directed graphs. *J. Graph Theory* **55** (2007) 1-13.

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

Dominating sets in k -majority tournaments. *J. Comb. Theory Ser. B.* **96** (2006) 374-387.

Alpern, S. and Baston, V.

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Alpern, S. and Baston, V.

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Anand, R.S.

[see: Adamy, U.]

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Design Theory: Antiquity to 1950. In: *C.R.C. Handbook of Combinatorial Designs*, second edition (eds. C.J. Colbourn and J.H. Dinitz), Chapter 3, 11-22, 2006.

Anderson, I. and Ellison, L.

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

Anderson, I. and Ellison, L.

Further results on logarithmic terraces. *Discrete Math.* To appear.

Anderson I., Finizio N. J.

Whist tournaments. In: *CRC Handbook of Combinatorial designs*, second edition (2007), 663-668.

Anderson, I. and Preece, D. A.

Two special terraces for Z_{121} . *Bull. Inst. Comb. Appl.* **49** (2007), 93-98.

Anderson, I. and Preece, D. A.

Some narcissistic power-sequence Z_{n+1} terraces with n an odd prime power. *Ars Comb.*, to appear.

Anderson, I. and Preece, D. A.

A general approach to constructing power sequence terraces for Z_n . *Discrete Math.*, 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* **17** (2006) 578-590.

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Variable neighbourhood search for extremal graphs 16: some conjectures related to the largest eigenvalue of a graph. *European Journal of Operational Research*, to appear.

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Stopping times, metrics and approximate counting. In: Bugliesi, M, Preneel, B, Sassone, V and Wegener, I (editors) *Automata, Languages and Programming: 33rd International Colloquium, Proceedings Part I*, 108-119. Springer-Verlag, 2006.
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Braunstein, S. L.
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A linear bound on the diameter of the transportation polytope. *Combinatorica* **26** (2006) 133-139.

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Simple permutations and algebraic generating functions. *J. Comb. Theory Ser. A*, to appear.

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Decomposing simple permutations, with enumerative consequences. Submitted.

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