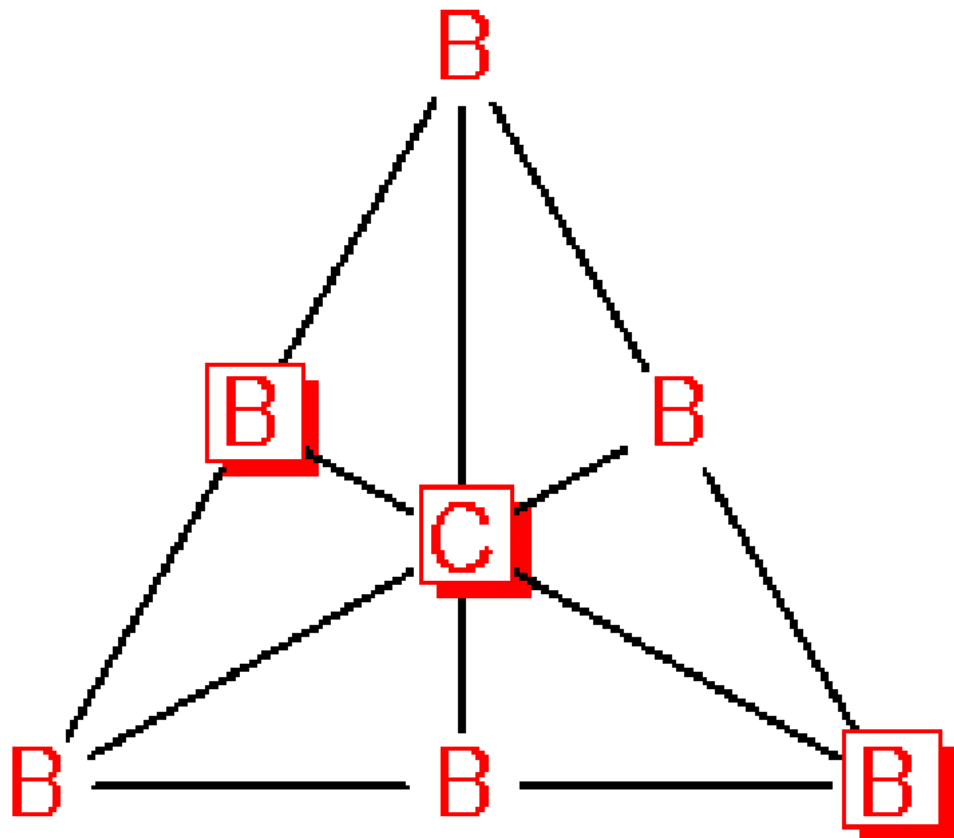


British Combinatorial Bulletin 2005



BRITISH COMBINATORIAL BULLETIN 2005

Editorial

This is the 2005 edition of the British Combinatorial Bulletin.

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

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

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

Graham Brightwell
Editor

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

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

British Combinatorial Committee

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

News

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

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

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

Sir Edward Wright

Sir Edward Wright died on February 2nd 2005, aged 98. He was best known for his work in analytic number theory, and he was also a pioneer in the use of analytic methods for graph theory, specifically questions of asymptotic enumeration. He was an invited speaker at the 2nd British Combinatorial Conference in 1975. He was a co-author of the classic text "An Introduction to the Theory of Numbers" with G.H.Hardy, his research supervisor. In 1935, at the age of 29, he was appointed to a Professorship at the University of Aberdeen, and in 1962 he became principal and vice-chancellor of the University.

Meetings in Combinatorics

ONE-DAY COMBINATORICS COLLOQUIUM

The annual Reading One-Day Combinatorics Colloquium will be held on Wednesday 25th May 2005. The programme will start at 10.30 am and finish at 5.30 pm. The list of speakers and titles is:

Hajo Broersma (Durham)

Tutte sets in graphs: structural and algorithmic aspects.

Terry Griggs (Open)

Configurations and colourings in triple systems.

Stephen Huggett (Plymouth)

Tutte polynomials of links, graphs, and matroids.

Mark Jerrum (Edinburgh)

Balanced matroids revisited.

Matthew Johnson (Durham)

The source location problem.

Anna de Mier (Oxford)

On the lattice of cyclic flats of a matroid.

James Oxley (Louisiana)

The structure of the 3-separations of 3-connected graphs and matroids.

Dominic Welsh (Oxford)

Graph polynomials: some questions.

Jurek Wojciechowski (West Virginia University)

Induced cycles in powers of complete graphs.

16th Postgraduate Combinatorial Conference

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

Keith Edwards, University of Dundee

Ben Green, University of Bristol

Joel Spencer, New York University

Subjects likely to be covered at the conference include graph theory, design theory, coding theory, cryptography, partial orders, extremal set theory, theoretical computer science and model theory.

View the website for further details: <http://www.maths.ox.ac.uk/~pcc2005>

20th British Combinatorial Conference

Sunday 10 July - Friday 15 July 2005
University of Durham

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

Invited speakers:

Ben Green (Cambridge)

Title: **Finite field models in additive combinatorics**

Oliver King (Newcastle)

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

Patric Östergård (Helsinki)

Title: **Constructing combinatorial objects via cliques**

Tim Penttila (Western Australia)

Title: **Flocks of circle planes**

Alex Scott (UCL)

Title: **Judicious partitions and related problems**

Oriol Serra (Catalunya)

Title: **An isoperimetric method for the small sunset problem**

Paul Seymour (Princeton)

Title: **The structure of claw-free graphs**

Alan Sokal (New York)

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

Angelika Steger (Zurich)

Title: **The sparse regularity lemma and its applications**

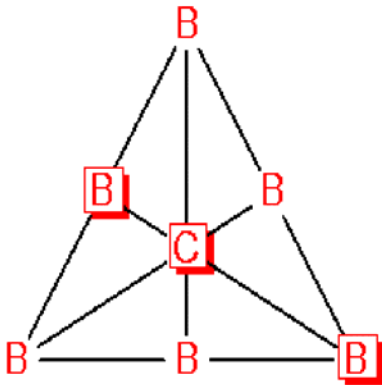
Further details, including titles and draft abstracts of the talks of the invited speakers, can be found at <http://mcs.open.ac.uk/bcc2005/>

BRITISH COMBINATORIAL COMMITTEE

(Scottish Charity Number SC019723)

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

Income	£
Interest	445.59
Royalties from Cambridge University Press	1020.07
	<u>1465.66</u>
 Expenditure	
Support for One-day conferences	1449.63
Postgraduate Combinatorial Conference 2004	500.00
Refund of overpayment of surplus from 19th British Combinatorial Conference, 2003	482.20
Refund of unused part of grant from LMS	55.00
Committee expenses	248.98
British Combinatorial Bulletin (2004)	270.79
Discrete Maths (Postage)	18.58
Open University Combinatorics Prize	100.00
Float for 20th British Combinatorial Conference, Durham, 2005	1000.00
	<u>4125.18</u>
 Accumulated Income	
Balance at 30 September 2003	18264.48
Excess of expenditure over income	2659.52
Balance at 30 September 2004	<u>15604.96</u>
 Represented by	
Bank of Scotland Treasurer's Account	1177.12
Scottish Widows Bank Treasury Tracker Account	14427.84
	<u>15604.96</u>



List A

Combinatorial Mathematicians based in Britain

A

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

B

Babbage, Dr. S.	Vodafone Group R&D
Bailey, Prof. R.A.	QMUL
Bailey, Mr. R.F.	QMUL, London
Ball, Prof. Keith M.	UCL, London
Barany, Prof. Imre	UCL, London
Barnea, Dr. Yiftach	Royal Holloway
Bate, Julia	Royal Holloway
Bedford, Dr. David	Keele
Beker, Prof. Henry J.	Royal Holloway
Bell, Dr. Francis K.	Stirling
Bending, Dr. Thomas D.	Middlesex
Biggs, Prof. Norman L.	LSE, London
Blackburn, Prof. Simon	Royal Holloway
Blackwell, C.	Royal Holloway
Boase, Mansur	Cambridge
Bogacka, Dr. B.	QMUL
Bollobás, B Dr	Cambridge
Bone, Dr. Nicholas	Vodafone Group R&D
Borg, Peter	Open
Borovik, Dr. Alexandre V.	UMIST
Bowler, Dr. Andrew	Birkbeck, London
Bray, Dr. John	QMUL
Brightwell, Prof. Graham R.	LSE, London
Bryant, Dr. Roger M.	UMIST
Burrows, Dr. Brian L.	Staffordshire
Butkovic, Dr. Peter	Birmingham
Byott, Dr. Nigel P.	Exeter

C

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

D

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

E

Eagle, Philip	Royal Holloway
Easton, Sarah J.	Staffordshire
Edwards, Dr. Keith J.	Dundee
Elder, Murray	St. Andrews
Ellison, Leigh	Glasgow
Elsholtz, Dr. Christian	Royal Holloway
Emmett, Lynn	East Anglia
Erlebach, Dr. T.	Leicester
Essam, Prof. John W.	Royal Holloway
Evans, Dr. David M.	East Anglia
Evans, Dr. Edward A.	St.Mary's U. C.
Everett, Prof. M. G.	Greenwich

F

Falconer, Prof. Kenneth J.	St. Andrews
Fenner, Dr. Trevor I.	Birkbeck, London
Firby, Dr. Peter A.	Exeter
Fleischmann, Prof. Peter	Kent
Forbes, A.D.	Open

G

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

H

Haigh, Claude W.	Swansea
Haight, Dr. John A.	UCL, London
Haji Naim, Abdul Ghani	Royal Holloway
Hauser, Dr. Raphael	Oxford
Henderson, Matthew	Reading
Heneghan, Chris	Royal Holloway
Hetherington, Timothy J.	Nottingham
van den Heuvel, Jan	LSE
Hierons, Dr. Robert M.	Brunel
Higgins, Dr. Peter M.	Essex
Hill, Prof. Ray	Salford
Hilton, Prof. Anthony J.W.	Reading
Hines, P.	Royal Holloway
Hirschfeld, Prof. James W.P.	Sussex
Hobbs, J.D.	Open
Hoffman, Michael	Leicester
Hoffman de Visme, Ivan	Charterhouse School
Holmes, Dr. B.	Birmingham
Holroyd, Dr. Fred C.	Open
Hopkins, H.	Royal Holloway
Howard, Dr. John	LSE
Huczynska, Dr. Sophie	St. Andrews
Hughes, Prof. Daniel R.	QMUL, London
Hughes Jones, Dr. R. (Dick)	Kent
Hunter, Gordon J.A.	St Mary's U. C.
Hurley, Steve	Cardiff

I

Irving, Dr. Robert W. Glasgow

J

Jackson, Prof. Bill Queen Mary, London
Jackson, Dr. Penelope S Stirling
James, Prof. Gordon D. ICL, London
Jarrett, David F. Middlesex
Jefferies, Dr. Nigel P. Vodafone Group R&D
Jennings, Dr. Sylvia London South Bank
Jerrum, Dr. Mark Edinburgh
Jha, Dr. Vikram Glasgow Caledonian
Johnson, Dr. Jeffrey H. Open
Johnson, Dr. Matthew Durham
Johnson, Dr. J. Robert QMUL
Johnston, Amy Royal Holloway
Johnstone, Dr. W. Roy Reading
Jones, Prof. Gareth A. Southampton

K

Keedwell, Dr. A. Donald Surrey
Kemp, Prof. David St Andrews
Kemp, Dr. Freda St Andrews
Kenneth, R East Anglia
King, Dr. Oliver H. Newcastle
King, Prof. Ronald C. Southampton
Kisil, V.V. Leeds
Koller, Angela Brunel

Kovalenko, I	UNL
Krasikov, Dr. Ilia	Brunel
Krokhin, Andrei	Durham
Ku, Mr. C.Y.	QMUL
Kudla, Caroline	Royal Holloway
Kühn, Dr. D.	Birmingham
Kurtz, Cornelius	East Anglia
Kusuma, Josephine	QMUL

L

Laczkovich, 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, Dr. I.B.	Cambridge
Leese, Dr. Robert	Oxford
Liebeck, Prof. M.	Imperial College, London
Li'enart, E.	Goldsmiths, London
Linton, Dr. Stephen 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, London
Macpherson, Prof. H. Dugald	Leeds
Makroglou, Dr. Athena	Portsmouth
Manlove, Dr. David	Glasgow
Manning, Stephanie M.	Vodafone Group R&D
Manns, Mr. Tom	Portsmouth
Marsh, Dr. Robert J.	Leicester
Martin, K.	Royal Holloway
Martin, Nigel	Durham
Martin, Dr. Russell	Warwick
Mavron, Prof. Vassili C.	Aberystwyth
Maynard, Dr. Philip	East Anglia
McAlpine, Kenneth M.	Abertay
McCabe, Dr. John H.	St. Andrews
McDiarmid, Prof. Colin J.H.	Oxford
McDonough, Dr. Thomas P.	Aberystwyth
McKee, Dr. James	Royal Holloway
McMullen, Prof. Peter	UCL, London
Michalopoulos, I.	Royal Holloway
de Mier, Dr. Anna	Oxford
Mitchell, Prof. Chris J.	Royal Holloway
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.	Royal Holloway
Myers, J.S.	Cambridge

N

Nelson, Roy	Open
Ng, S.	Royal Holloway
Noble, Dr. Steven	Brunel
Norman, Dr. Chris W.	Royal Holloway
Nuebling, Herwig	East Anglia

O

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

P

Page, Tom	Royal Holloway
Panov, Taras	Manchester
Parker, Dr. C.W.	Birmingham
Parks, David	Open
Paterson, Prof. Kenny	Royal Holloway
Paterson, Maura	Royal Holloway
Paterson, Prof. Mike	Warwick
Payne, Prof. Roger W.	Rothamsted
Pearce, Prof. S. Clifford	Kent
Pebody, Dr. L.	Cambridge
Perkins, Dr. Stephanie	Glamorgan
Petridis, George	Cambridge
Philpotts, Adam R.	Nottingham
Pikhurko, Oleg	Cambridge

Pinch, Dr. Richard G.E.	GCHQ, Cheltenham
Piper, Prof. Fred	Royal Holloway
Piper, Greg	East Anglia
Potts, Prof. Chris N.	Southampton
Powell, Dr. Susan	LSE, London
Pratt, F	Staffordshire
Preece, Prof. Donald A.	Queen Mary, London; also Kent
Preiss, Prof. D.P.	UCL, London
Prellberg, Dr. Thomas	QMUL
Prince, Dr. Alan R.	Heriot-Watt
Pu, Dr. Ida	Goldsmiths, London

Q

Quinn, Dr. Kathleen A.S.	Open
--------------------------	------

R

Rackham, Laurence	Royal Holloway
Raman, Prof. R.	Leicester
Ray, Prof. Nigel	Manchester
Rees, Prof. Sarah E.	Newcastle
Rees, David H	Kent
Reuter, A.	Imperial
Riordan, Dr. O.	Cambridge
Robertshaw, Dr. Andrew	Glamorgan
Robertson, Prof. Edmund F.	St. Andrews
Rogers, Prof. C. Ambrose	UCL, London
Roney-Dougal, Dr. Colva M.	St. Andrews
Rooney, Dr. Joe	Open
Rowley, Dr. Christopher A.	Open

Rowley, Dr. Peter J.	UMIST
Rowlinson, Prof. Peter	Stirling
Rudd, Jason	QMUL
Rudloff, C.	East Anglia
Ruskuc, Dr. Nik	St Andrews
Russell, P.A.	Cambridge
Rutherford, Dr. Carrie	London South Bank
Rymer, Dr. Neil W.	Bangor

S

Salhi, A.	Essex
Sanders, A.J.	Cambridge
Sandling, Dr. Robert	Manchester
Sands, Dr. Arthur D.	Dundee
Saxl, Dr. Jan	Cambridge
Scott, Dr. Alex D.	UCL, London
Scott, Dr. J.	Leicester
Severini, Dr Simone	York
Sezgin, S.	UCL, London
Shah, Illana	Royal Holloway
Shareef, F.	QMUL, London
Shakhlevich, Natasha	Leeds
Shaw, Prof. (Emer) Ron	Hull
Shawe-Taylor, Prof. John S.	Southampton
Shreeve, Richard I.	Royal Grammar School
Siemons, Dr. I. Johannes	East Anglia
Singerman, Prof. David	Southampton
Singmaster, Prof. David B.	London South Bank
Smith, Prof. Derek H.	Glamorgan
Sng, Colin	Glasgow

Soicher, Dr. Leonard H.	QMUL, London
Spencer, Claire	Reading
Stark, Dr. D. S.	QMUL
von Stengel, Dr. Bernhard	LSE
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 R&D
Thomas, Dr. A. D.	Swansea
Thomas, Dr. Rick M.	Leicester
Thomason, Prof. Andrew G.	Cambridge
Thompson, Katie	East Anglia
Treacher, Helen	East Anglia
Truss, Prof. John K.	Leeds

V

Valenca, Paula	Royal Holloway
Vámos, Prof. Peter	Exeter
Vernitski, Alexei	Essex
Vincent, Robert	East Anglia
Vowden, Dr. Barry J.	Kent
Vuskovic, Kristina	Leeds

W

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

Z

Zaleskii, Prof. A.E.

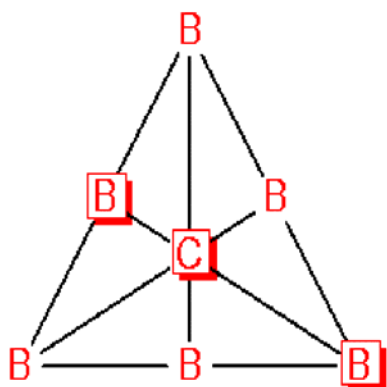
East Anglia

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

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

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

UNIVERSITY OF ABERDEEN

Business School

University of Aberdeen, Edward Wright Building, Dunbar Street, Old Aberdeen, AB24 3QY.

Tel: 01224 272167

<http://www.abdn.ac.uk/business>

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

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

UNIVERSITY OF WALES, ABERYSTWYTH

Institute of Mathematical & Physical Sciences

University of Wales, Aberystwyth SY23 3BZ.

Tel: 01970 622802 Fax: 01970 6227777

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

Prof. V.C. Mavron* (designs, codes)

Dr. T.P. McDonough (designs, permutation groups, codes)

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

Visitors

Professor J.D. Key (Clemson, July/August 2005),

Professor H.N. Ward (Virginia, May 2005)

Research student

C Andreou (Regular Hadamard Matrices)

Lecture courses

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

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

Current periodicals: P, U, X, h

UNIVERSITY OF WALES, BANGOR

Department of Mathematics

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

Tel: 01248 382686 Fax: 01248 361429

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

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

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

Lecture courses

Automata Theory (20 lectures, 2nd year u/g, Dr. Wensley)

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

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

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

UNIVERSITY OF BATH

Department of Mathematical Sciences

University of Bath, Bath, BA2 7AY

Tel: 01225 386989 Fax: 01225 386492

<http://www.bath.ac.uk/math-sci>

Prof. Mathew Penrose

QUEEN'S UNIVERSITY BELFAST

Department of Pure Mathematics

Queen's University Belfast, Belfast BT7 1NN.

Tel: 028 9027 3661 Fax: 028 9033 5076

<http://www.qub.ac.uk/mp/pmt/>

Dr. L. Halbeisen

BIRKBECK COLLEGE

School of Economics, Mathematics and Statistics

Birkbeck College, Malet Street, London WC1E 7HX.

Tel: 0207 631 6428 Fax: 0207 631 6416

<http://www.econ.bbk.ac.uk>

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

School of Computer Science and Information Systems

Birkbeck College, Malet Street, London WC1E 7HX.

Tel: 0207 631 6700 Fax: 0207 631 6727

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

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

Dr. K. Gibson (cryptography, combinatorial algorithms)

Prof. G. Loizou (combinatorial algorithms)

UNIVERSITY OF BIRMINGHAM

School of Mathematics

University of Birmingham, Edgbaston, Birmingham B15 2TT.

Tel: 0121 414 6581 Fax: 0121 414 3389

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

Dr. P. Butkovic* (Combinatorial Optimisation)

Prof. R.T. Curtis (Group Theory, Representation Theory)
Dr. A.D. Gardiner (Graph theory)
Dr. B. Holmes (Group Theory)
Dr. D. Kühn (Graph Theory, Extremal Problems, Probabilistic Methods)
Dr. D. Osthus (Graph theory, extremal problems, probabilistic methods, random graphs, randomized algorithms)
Dr. C.W. Parker (Group Theory)

Research Students

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

Lecture courses

Combinatorial Optimisation (22, 3rd year, Dr. Butkovic)
Combinatorics (22, 3rd year, Dr. Gardiner)
Discrete Mathematics (22, 1st year, Dr. Gardiner)
Geometry of Groups (22, 4th year, Prof. Curtis)
Current periodicals: None

BRUNEL UNIVERSITY

Department of Mathematical Sciences

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

Tel: 01895 274000 Fax: 0189 5203303

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

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

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

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

Research Students

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

Lecture courses

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

Working paper series

Technical Reports of Department of Mathematics (Ms. B. Curr)

Current Periodicals: G, h

UNIVERSITY OF CAMBRIDGE

Department of Pure Mathematics and Mathematical Statistics

Centre for Mathematical Sciences, Wilberforce Rd, Cambridge CB3 0WB.

Tel: 01223 337999 Fax: 01223 337920

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

Dr. H.T. Croft (Peterhouse)

Prof. W.T. Gowers (Trinity)

Dr. I.B. Leader* (Trinity)

Dr. J. Saxl (Caius)
Prof. A. Thomason (Clare)

Fellows

Dr. B. Bollobás (Trinity)
Dr. B. Green (Trinity)
Dr. L. Pebody (Trinity)
Dr. O. Pikhurko (St. John's)
Dr. O.M. Riordan (Trinity)
Dr. M. Walters (Trinity)

Research students

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

Lecture courses

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

Seminar

Combinatorics (Thursdays at 2p.m.)

Judge Institute of Management

Trumpington Street, Cambridge CB2 1AG

Tel: 01223 339700 Fax: 01223 339701

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

Dr R. Steinberg

UNIVERSITY OF CARDIFF

School of Computer Science

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

Tel: 029 2087 4812 Fax: 029 2087 4598

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

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

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

R. Whitaker (20876999) (mobile communications, frequency assignment, combinatorial optimisation, latin squares)

Lecture courses

Discrete mathematics I (1st year u/g)

Discrete mathematics II (2nd year u/g)

Information Security (3rd year u/g)

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

Discrete mathematics (MSc)

CITY UNIVERSITY LONDON

Faculty of Actuarial Science and Statistics

Cass Business School, 106 Bunhill Row, London EC1Y 8TZ

Tel: 020 7040 0140 Fax: 020 7040 8772

<http://www.cass.city.ac.uk/facact>

Prof. C. Glass

UNIVERSITY OF DUNDEE

Division of Applied Computing

University of Dundee, Dundee DD1 4HN.

Tel: 01382 344151 Fax: 01382 345509

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

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

Research student

D. Campbell (Dr. Edwards).

Division of Mathematics

University of Dundee, 23 Perth Road, Dundee DD1 4HN.

Tel. 01382 344471 Fax 01382 345516

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

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

Current Periodicals: T, V, b, d

DURHAM UNIVERSITY

Department of Mathematical Sciences

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

Tel: 0191 374 2349 Fax: 0191 374 7388

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

Dr. N. Martin*

Department of Computer Science

Science Laboratories, South Road, Durham DH1 3LE

Tel: 0191 33 41700 Fax:0191 33 41701

<http://www.dur.ac.uk/computer.science>

Prof. H. Broersma

Dr. S. Dantchev
Dr. T. Friedetsky
Dr. M. Johnson
Dr. D. Paulusma
Dr. A. Krokhin
Prof. I.A. Stewart
Dr. S. Szeider

UNIVERSITY OF EAST ANGLIA, NORWICH

School of Mathematics

University of East Anglia, Norwich NR4 7TJ.

Tel: 01603 456161 Fax: 01603 259515

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

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

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

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

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

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

Research associates

Dr. Philip Maynard

Research students

E. McFarlane (Dr Camina)

H. Nuebling (Dr Evans)

G. Piper (Dr Dzamonja)

K. Thompson (Dr Dzamonja)

H. Treacher (Dr Siemons)

R. Vincent (Prof Zalesski)

Lecture courses

Discrete Mathematics(2nd year u/g)

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

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

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

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

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

Graph theory (3rd year in 2002/3)

Group theory (3rd year in 2003/4)

Computability (3rd year in 2003/4)

Model theory (3rd year in 2003/4)

UNIVERSITY OF EDINBURGH

School of Informatics

2 Buccleuch Place, Edinburgh EH8 9LW

Tel. 0131 650 2691 Fax: 0131 650 6626

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

Dr. Mary Cryan (algorithms and complexity)
Prof. Mark Jerrum* (combinatorial algorithms, computational complexity, random structures)

Lecture Courses

Algorithms and Data Structures (3rd year u/g)
Computability and Intractability (3rd year u/g, MSc)
Computational Complexity (4th year u/g, MSc, 1st year PhD)
Current Periodicals: E, H, M, T, X, Y,

UNIVERSITY OF ESSEX

Department of Mathematical Sciences

University of Essex, Wivenhoe Park, Colchester CO4 3SQ.

Tel: 01206 873040 Fax: 01206 873043

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

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

Tel: 01206 873019 Fax: 01206 873043

Dr. David Penman

Mr. Chris Saker

Dr. A. Salhi (combinatorial optimisation)

Dr. Alexei Vernitski

Tel: 01206 873022 Fax: 01206 873043

Research students

Eleni Maistrelli

Lecture courses

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

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

Current periodicals: C, D, K, Y

UNIVERSITY OF EXETER

Department of Mathematical Sciences

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

Tel: 01392 264464 Fax: 01392 263997

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

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

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

Prof. P. Vámos (representation of matroids)

Lecture courses

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

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

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

Current periodicals: C, D, W

UNIVERSITY OF GLAMORGAN

Division of Mathematics and Statistics

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

Tel: 01443 482251 Fax: 01443 482711

<http://www.glam.ac.uk/sot/doms>

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

Dr. S. Perkins (coding theory, synchronization)

Dr. A. Robertshaw (graph theory)

Lecture courses

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

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

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

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

UNIVERSITY OF GLASGOW

Department of Mathematics

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

Tel: 0141 330 5176 Fax: 0141 330 4111

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

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

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

Research student

L. Ellison (designs, Dr. Anderson)

Lecture courses

Designs and codes (25 lectures, 4th year u/g, Dr. Anderson)

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

Graphs and networks (22 lectures, 2nd year u/g, Dr. Steiner)

Occasional combinatorial seminars

Department of Computing Science

17 Lilybank Gardens, Glasgow G12 8QQ

Tel: 0141 330 4256 Fax: 0141 330 4913

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

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

Dr. D.F. Manlove (combinatorial and graph algorithms)

Lecture course

Algorithms (4th year u/g)

Research students

Greg O'Malley (Dr. Manlove)

Colin Sng (Dr. Manlove)

Lecture courses

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

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

GLASGOW CALEDONIAN UNIVERSITY

School of Computing and Mathematical Sciences

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

Tel: 0141 331 3609 Fax: 0141 331 3005

<http://www.gcal.ac.uk/cms>

Dr. V. Jha* (finite geometries)

Current periodicals: none

GOLDSMITHS COLLEGE

Department of Computing

Goldsmiths College, University of London, New Cross, London SE14 6NW.

Tel: 0207 919 7850 Fax: 0207 919 7853

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

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

B. Cosh (graph connectivity)

Lecture courses

Discrete Mathematics (1st year u/g)

Graph Theory (3rd year u/g)

Data Structures and algorithms (2nd year u/g, Dr. Pu)

Current Periodicals: X, Y, b

GOVERNMENT COMMUNICATIONS HEADQUARTERS

Priors Road, Cheltenham GL52 5AJ.

Tel: 01242 221491 Fax: 01242 226816

C.C. Cocks (Chief Mathematician)

Dr. R.G.E. Pinch*

UNIVERSITY OF GREENWICH

School of Computing and Mathematical Sciences

University of Greenwich, London, SE18 6PF

Tel: 0208 316 8000 Fax: 0208 855 4033

<http://cms1.gre.ac.uk>

Prof. V.A. Strusevich (Scheduling Theory)

Current Periodicals: T

HERIOT-WATT UNIVERSITY

Department of Mathematics

Heriot-Watt University, Riccarton, Edinburgh EH14 4AS.

Tel: 0131 451 3221 Fax: 0131 451 3249

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

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

Lecture course

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

Department of Actuarial Mathematics and Statistics

Heriot-Watt University, Riccarton, Edinburgh EH14 4AS.

Tel: 0131 451 3202 Fax: 0131 451 3249

<http://www.ma.hw.ac.uk/ams.html>

Dr. Jennie Hansen

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

UNIVERSITY OF HULL

Department of Mathematics

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

Tel: 01482 465885 Fax: 01482 466218

<http://www.hull.ac.uk/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://www2.dcs.hull.ac.uk>

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

Research report series

<http://www.hull.ac.uk/math/people/rs/staffdetails.html>

Current periodicals: J, P, R, T

IMPERIAL COLLEGE LONDON

Department of Mathematics

Imperial College London, London SW7 2AZ.

Tel: 0207 594 8517 Fax: 0207 594 8483

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

Prof. G.D. James

Prof. M. Liebeck

Dr. L. White

KEELE UNIVERSITY

Department of Mathematics

Keele University, Keele, Staffordshire ST5 5BG.

Tel: 01782 583258 Fax: 01782 584268

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

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

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

Dr. J. Preater

K. Walker (583268) (graphs)

Lecture courses

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

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

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

UNIVERSITY OF KENT

Institute of Mathematics, Statistics and Actuarial Science

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

Tel: 01227 827181 Fax: 01227 827932

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

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

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

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

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

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

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

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

Lecture courses

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

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

Current periodicals: E, F, T

KING'S COLLEGE LONDON

Department of Computer Science

King's College, Strand, London, WC2R 2LS

Tel 020 7848 2588 Fax: 020 7848 2851

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

Dr Colin Cooper

UNIVERSITY OF LANCASTER

Department of Mathematics and Statistics

Fylde College, University of Lancaster, Lancaster LA1 4YF.

Tel: 01524 593960 Fax: 01524 592681

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

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

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

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

UNIVERSITY OF LEEDS

School of Mathematics

University of Leeds, Leeds LS2 9JT.

Tel: 0113 3435140 Fax: 0113 3435090

<http://amsta.leeds.ac.uk>

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

Dr. V.V. Kisil

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

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

Research Students

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

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

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

Lecture courses

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

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

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

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

Working Paper series

<http://www.maths.leeds.ac.uk/Pure/preprints>

School of Computing

University of Leeds, Leeds LS6 2HN

Tel. 0113 343 5430 Fax 0113 343 5468

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

Dyer, Prof. Martin (algorithms and complexity)

Muller, Haiko (algorithms, graph theory)

Shakhlevich, Natasha (scheduling theory)

Vuskovic, Kristina (graph theory)

Lecture courses

Introduction to Algorithms

Theory of computation

Computational graph theory and complexity

Modern issues in algorithmic design

Research Report Series

<http://www.scs.leeds.ac.uk/research/pubs/reports.shtml>

Current periodicals: P, X, Y

UNIVERSITY OF LEICESTER

School of Mathematics and Computer Science

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

Tel: 0116 2523887 Fax: 0116 2523604

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

Dr. T. Erlebach (2523411) (approximation algorithms, algorithmic graph theory)

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

Dr. M. Hoffmann (2523895) (combinatorial semigroup theory, algorithmic graph theory)
<http://www.cs.le.ac.uk/~mhoffmann>

Dr. R.J. Marsh (2525107) (Representation theory, cluster algebras, quantum groups, Lie theory) <http://www.mcs.le.ac.uk/~rmarsh>

Prof. R. Raman (2523894) (Algorithm engineering, data structures)
<http://www.cs.le.ac.uk/~rraman>

Dr J. Scott (2525392) (Combinatorial and representation theoretic aspects of cluster algebras)

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

Research students

A. Fonseca (Prof. Thomas, groups and formal languages)

M. Mihalak (Dr. Erlebach, Approximation algorithms for combinatorial optimisation problems)

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

M. Parsons (Dr. Marsh, cluster algebras and representation theory).

Lecture courses

Logic and Discrete Structures (40 lectures, 1st year u/g, Prof. Thomas)

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

Pure Mathematics at Work (18 lectures, 1st year u/g, Dr. Snashall)

Automata, Languages and Computation (30 lectures, 2nd year u/g, Prof. Thomas and Dr. Erlebach)

Design and Analysis of Algorithms (30 lectures, 2nd year u/g, Dr. Schmitt)

Seminars The school holds regular seminars (given by internal and external speakers) in Mathematics and Computer Science, including several with a combinatorial theme.

Details may be found on the web; see

http://www.math.le.ac.uk/RESEARCH/PURE/SEMINARS/main_seminar.html

http://www.math.le.ac.uk/RESEARCH/APPLIED/SEMINARS/main_seminar.html

Technical Reports

The school has a technical report series; copies of the reports may be obtained on request. Details are available on the web at:

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

School of Psychology

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

Tel: 0116 2522170

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

Dr. R.T. Gillett (2522171)

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

LONDON SCHOOL OF ECONOMICS

Department of Mathematics

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

Tel: 0207 955 7732 Fax: 0207 955 6877

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

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

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

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

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

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

Dr. Malwina Luczak (probability and discrete mathematics)

Dr. Bernhard von Stengel (game theory and complexity)

Research students

Luis Cereceda

Raju Chinthlapti

Marianne Fairthorne

Nic Georgiou

Rahul Savani

CDAM Research Reports

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

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

Department of Operational Research

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

Tel: 0207 955 7653 Fax: 0207 955 6855

<http://www.lse.ac.uk/collections/operationalResearch>

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

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

Prof. Paul Williams (linear and integer programming)

Lecture courses

Discrete Mathematics (20 lectures, 3rd year u/g, Dr. Simon)

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

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

Computational Learning Theory and Neural Networks (20 lectures, M.Sc., Prof. Anthony)

Algorithms and Computation (20 lectures, M.Sc., Dr. von Stengel)

Discrete Mathematics and Complexity (20 lectures, M.Sc., Dr. van den Heuvel)

Information, Communication and Cryptography (20 lectures, M.Sc., Prof. Biggs)

Seminar and Workshop

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

CDAM Informal Workshop, Fridays 4:00, Dr. Simon

LONDON SOUTH BANK UNIVERSITY

Faculty of Business, Computing and Information Management

B.C.I.M., London South Bank University, 103 Borough Road, London SE1 0AA.

Tel: 0207 928 8989 Fax: 0207 815 7793

<http://www.lsbu.ac.uk/bcim>

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

Rutherford, Dr Carrie (matroid theory)

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

Visiting Professor:

Singmaster, David (recreational mathematics)

Lecture courses

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

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

Working Paper Series

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

Current periodicals: T

UNIVERSITY OF MANCHESTER / UMIST

School of Mathematics (University of Manchester)

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

Tel: 0161 275 5800 Fax: 0161 275 5819

<http://www.ma.umist.ac.uk/newmaths/>

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

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

Dr. R. Sandling (block designs)

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

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

School of Mathematics (UMIST)

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

Tel: 0161 200 3641 Fax: 0161 200 3669

<http://www.ma.umist.ac.uk/newmaths/>

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

Prof. R.M. Bryant,

Prof. P.J. Laycock,

Prof. P.J. Rowley

Lecture course

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

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

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

Current periodicals: C, D, K, L, N, U

UNIVERSITY OF MIDDLESEX

Mathematics and Statistics Group

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

Tel: 020 8411 6824

<http://mubs.mdx.ac.uk/Subjects/Mathematics>

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

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

Prof. Chris Wright (Graph theory, routing on networks)
Lecture Course
Discrete Mathematics for Information Systems (1st yr u/g)
Current Periodicals: F, T, b

UNIVERSITY OF NEWCASTLE UPON TYNE

School of Mathematics and Statistics

Newcastle University, Newcastle upon Tyne NE1 7RU.

Tel: 0191 222 6000 Fax: 0191 222 8020

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

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

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

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

Research associates

Dr. M. Batty

Lecture courses

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

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

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

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

UNIVERSITY OF NOTTINGHAM

School of Mathematical Sciences

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

Tel: 0115 951 4949 Fax: 0115 951 4951

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

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

Research students

T.J. Hetherington (Dr. Woodall)

A.R. Philpotts (Dr. Woodall)

R.J. Waters (Dr. Woodall)

Lecture courses

Introductory Graph Theory (30 lectures, 3rd yr u/g, Dr. Diamantis)

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

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

Current periodicals: none

THE OPEN UNIVERSITY

Faculty of Mathematics and Computing

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

Tel: 01908 653479 Fax: 01908 653744

http://brains.open.ac.uk/cfdocs/faculty/Html/Departments/pure_maths.cfm,

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

Dr. U. Grimm (659991) (enumerative combinatorics, words, tilings, applications to physics)

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

R. Nelson (retired) (Ramsey theory)

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

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

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

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

Research fellows

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

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

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

Research students

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

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

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

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

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

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

Faculty of Technology

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

Tel. 01908 652944 Fax 01908 654052

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

Dr. A.K. Dolan (networks)

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

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

Research Student

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

Courses

M336: Groups and Geometry (30 CAT points, third level)
MT365: Graphs, networks and design (30 CAT points, third level)
M836: Coding Theory (M.Sc. component course)
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 (Merton) (applied probability, complexity)
Dr. R. Leese (St. Catherine's) (channel assignment problems)
Dr. Anna de Mier
Dr. Andrew J. Goodall (Merton)

Visitor

Prof. James Oxley (Merton, April to July 2005)

Research students

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

Department of Statistics

1 South Parks Road, Oxford OX1 3TG.
Tel: 01865 272860 Fax: 01865 272595
<http://www.stats.ox.ac.uk>

Prof. C.J.H. McDiarmid* (Corpus Christi) (probability and algorithms, probabilistic methods in combinatorics, colouring problems)
Dr G. Reinert

Research students

Ross Kang (Prof McDiarmid)
Philipp Kostuch (Prof McDiarmid)
Kaisheng Lin (Prof Reinert)
Tobias Mueller (Prof McDiarmid)

Computing Laboratory

Wolfson Building, Parks Road, Oxford OX1 3QD
Tel: 01865 73838 Fax: 01856 73839
<http://web.comlab.ox.ac.uk/oucl/>

Dr Raphael Hauser

Lecture courses

Combinatorial optimisation (12 lectures, 2nd year u/g, Prof. McDiarmid)
Communication theory (16 lectures, 3rd year u/g, Dr. Stirzaker)
Enumerative Combinatorics (16 lectures, 4th u/g, Dr. de Mier)
Integer programming (16 lectures, 3rd year u/g, Dr. Hauser)
Randomised algorithms (16 lectures, 1st year p/g, Prof. Welsh)

Seminar

Combinatorial theory (Tuesdays at 3 p.m.)

Current periodicals: D, E, J, K, L, N, P, Q, T, Y

UNIVERSITY OF PORTSMOUTH

Department of Mathematics

Buckingham Building, Lion Terrace, Portsmouth, Hampshire PO1 3HE

Tel: 023 9284 6367 Fax: 023 9284 6364

<http://www.port.ac.uk/departments/academic/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/MRC>

Prof. D.K. Arrowsmith (graph colourings, percolation theory, interaction models and knot invariants)

Prof. R.A. Bailey (design of experiments, latin squares and their generalisations, designs for complicated block structures, association schemes, partition species)

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

Professor Bill Jackson (graph theory)

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

Dr. Thomas Müller (group theory, combinatorics, analysis)

Dr. T. Prellberg (statistical mechanics, dynamics, enumerative combinatorics)

Dr. L.H. Soicher (5463) (computational group theory, graph theory, finite geometry, design theory)

Dr. D. S. Stark (probability and combinatorics)

Prof. R. A. Wilson (computational group theory)

Researchers

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

Prof. Dan Hughes (Emeritus Professor: finite geometry)

Prof. Donald Preece (Professorial fellow)

Dr. Sam Tarzi

Research students

Fatma Al-Kharoosi (Prof. Cameron: coding theory)

John Arhin (Dr. Soicher; existence and structure of SOMAs)

Robert Bailey (Professor Cameron; coding theory)

Cheng Yeaw Ku (Professor Cameron; extremal theory for permutations)

Josephine Kusuma (Prof. Cameron: coding theory)

Debbie Lockett (Prof. Cameron: homogeneous structures)

Rebecca Lodwick (Professor Bailey; crossover trials)

Jason Rudd (Prof. Cameron: graph and matroid polynomials)

Adam Watson (Prof. Jackson: graph theory, matroid theory, rigidity)

Taoyang Wu (Dr. Riis/Prof. Cameron: Network coding)

Lecture courses

Discrete mathematics (36 lectures, 1st year u/g, Dr. McKay)

Games and Linear Programming (36 lectures, 2nd year u/g, Dr. Johnson)

Algorithmic Mathematics (36 lectures, 2nd year u/g., Dr. Just)

Graph Theory and Applications (36 lectures, 2nd year u/g., Prof. Leedham-Green)

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

Coding Theory (36 lectures, 3rd year u/g., Dr. Fayers)

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

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

Sets, logic and categories (24 lectures, 4th year, M.Sc., Dr. Chiswell)

Seminars

Combinatorics study group (Prof. Cameron, Fridays 4:30pm)

Design of Experiments (Prof. Bailey, Thursday 4:30pm)

Pure Mathematics (Dr. Leedham-Green and Dr. McKay, Monday 4:30pm)

Current periodicals: B, E, F, H, P, R, T, U, X, Y, g

UNIVERSITY OF READING

Department of Mathematics

University of Reading, Whiteknights, P.O. Box 220 Reading, Berks RG6 6AX.

Tel: 0118 378 8996 Fax: 0118 931 3423

<http://www.extra.rdg.ac.uk/Maths/index.asp>

Dr. J.K. Dugdale (graph theory) Tel: 0118 378 5012

Prof. A.J.W. Hilton* (graph theory, design theory, finite set systems) Tel: 0118 378 8989

Dr. W.R. Johnstone (graph theory) Tel: 0118 378 5013

Dr. D.S.G. Stirling (graph theory)

Honorary fellow

Dr. D.C. Daykin

Research Students

Claire Spencer (extremal finite set theory)

Matthew Henderson (edge-colouring problems for complete graphs)

David Cariolaro (edge-colouring problems)

Lecture courses

Combinatorics (20 lectures, 1st year u/g, Dr Dugdale)

Combinatorics (40 lectures, 3rd year u/g, Dr. Dugdale, Prof. Hilton)

Graph theory (40 lectures, 3rd year u/g, Dr. Dugdale, Prof. Hilton)

Combinatorics (20 lectures, 3rd year u/g, Prof. Hilton)

Research seminar

Combinatorics seminar (Mondays at 3 p.m.)

Current periodicals: C, N, P, S, X, Y, b

ROTHAMSTED EXPERIMENTAL STATION

Biomathematics Unit

IACR - Rothamsted, Harpenden, Herts AL5 5RJ

Tel: 01582 763133 Fax: 01582 4671166

<http://www.rothamsted.bbsrc.ac.uk>

Prof. R.W. Payne*, (Statistical computing, design and analysis of experiments, identification keys and diagnostic tables, statistical modeling)

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

Current periodicals: E, F

ROYAL HOLLOWAY

Department of Mathematics

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

Tel: 01784 443093 Fax: 01784 430766

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

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

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

Prof. J.W. Essam (applications of graph theory, combinatorics, numerical analysis and computing techniques to problems in critical phenomena theory, in particular to phase transitions, conduction in disordered materials, polymer science, epidemic models and cellular automata)

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

Prof. C. Mitchell (cryptography and information security)

Dr. S.P. Murphy (spatial probability, cryptography)

Dr. C.W. Norman (algebraic topics)

Prof. K. Paterson

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

Dr. M.J. Robshaw (cryptography and information security)

Prof. P.R. Wild* (algebraic combinatorics: designs and difference sets, statistical applications, applications of discrete mathematics to data communications, coding theory, cryptography)

Visiting Professors

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

Research students

M. Al-Meather, C. Blackwell, H. Hopkins, I. Michalopoulos, L. O'Toole.

Lecture courses

Discrete mathematics (33 lectures, 2nd year u/g, Dr. Cohn)

Cipher systems (33 lectures, 3rd year u/g, Prof. Wild)

Combinatorics (33 lectures, 3rd year u/g, Dr. Yates)

Error correcting codes (33 lectures, 3rd year u/g, Dr. Cohn)

Game theory (33 lectures, 3rd year u/g, Dr. Burmester)

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

Theory of graphs (33 lectures, 3rd year u/g, Dr. Damerell)

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

Cipher systems (33 lectures, p/g, Prof. Wild)
Combinatorics (33 lectures, p/g, Dr. Damerell)
Graph theory (33 lectures, p/g, Dr. Damerell)
Design theory (33 lectures, p/g, Prof. Wild)
Discrete Optimisation (33 lectures, p/g, Dr. Yates)
The Department of Mathematics runs taught M.Sc. programmes in Information Security,
Discrete Mathematics with Computing Applications and Dependable Computer Systems
jointly with the Department of Computer Science.

Seminars

Discrete mathematics and its applications (organizer: Dr. Blackburn) (Tuesdays at 4.00 p.m. in room 219)

Department of Computer Science

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

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

UNIVERSITY OF ST. ANDREWS

School of Mathematics and Statistics

The Mathematical Institute, North Haugh, St. Andrews, Fife KY16 9SS.
Tel: 01334 463745 Fax: 01334 463748
<http://www.mcs.st-and.ac.uk>

Dr. P. Campbell (combinatorial group and semigroup theory)
Dr. C.M. Campbell (combinatorial group theory, combinatorics of semigroup presentations)
R.L. Constable (combinatorics)
Prof. K.J. Falconer (combinatorial geometry)
Dr. S. Huczynska (Applications of finite fields)
Prof. A.W. Kemp (combinatorial applications in statistics)
Dr. C.D. Kemp (combinatorial applications in statistics)
Dr. J.H. McCabe (graph theory, number theory)
Dr. J.J. O'Connor (combinatorial group theory)
Dr. L. Olsen (analysis and combinatorics)
Prof. E.F. Robertson (combinatorial group theory, combinatorics of semigroup presentations)
Dr. N. Ruskuc (combinatorial semigroup theory)
Dr. B.O. Stratmann (combinatorial group theory, Kleinian groups)

Lecture courses

Discrete mathematics (56 lectures, 2nd year u/g)
Finite mathematics (24 lectures, 3rd/4th year u/g, alternate years)
Graphs (24 lectures, 3rd/4th year u/g, alternate years)
Various courses involving algorithms and complexity at 3rd/4th year u/g.

School of Computer Science

North Haugh, St Andrews, Fife KY16 9SS.

Tel: 01334 463253 Fax: 01334 463278

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

Dr. Murray Elder (enumerative combinatorics)

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

Dr. C.M. Roney-Dougal* (finite permutation and matrix groups, constraint programming, computational group theory)

Current periodicals: B, E, F, M, N, P, Q, R, U, X, Y, a, c, d, e, 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 (x3654) (permutation groups, connections between groups and graphs)

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

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

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

Prof. D. Singerman (x3671) (discontinuous groups with applications to Riemann surfaces and the

theory of maps)

Research student

Anton Prowse (Prof. Jones)

Lecture courses

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

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

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

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

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

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

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

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

School of Electronics and Computer Science

University of Southampton SO17 1BJ

<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 (x5671)

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>

Burrows, Prof. Brian cmtblb@soc.staffs.ac.uk

Easton, Dr. Sarah* cmtsje@soc.staffs.ac.uk

Pratt, Mr. Fred cmtjfo@soc.staffs.ac.uk

UNIVERSITY OF STIRLING

Mathematics and Statistics Group, Department of Computing Science & Mathematics

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

Tel: 01786 467460 Fax: 01786 464551

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

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

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

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

Lecture courses

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

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

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

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

UNIVERSITY OF SURREY

Department of Mathematics and Statistics

University of Surrey, Guildford, Surrey GU2 7XH.

Tel: 01483 300800 Fax: 01483 686071

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

Honorary Visiting Senior Research Fellow

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

Lecture courses

Groups and symmetry (30 lectures, 2nd year u/g, Dr Hydon)

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

Statistical methods (30 lectures, 2nd year u/g, Dr Godolphin)
Current periodicals: C, E, F, T, i

UNIVERSITY OF SUSSEX

Department of Mathematics

Mantell Building, University of Sussex, Falmer, Brighton, East Sussex BN1 9RF.
Tel: 01273 877345 Fax: 01273 678097

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

Prof. J.W.P. Hirschfeld* (finite geometry, algebraic geometry, coding theory)
<http://www.maths.susx.ac.uk/Staff/JWPH/>

Research students

M. Aghaei (Prof. Hirschfeld, coding theory)

Lecture courses

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

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

Research reports

<http://www.sussex.ac.uk/maths/1-4-1.html>.

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

UNIVERSITY OF WALES SWANSEA

Department of Mathematics

University of Wales Swansea, Singleton Park, Swansea SA2 8PP
Tel: 01792 295457 Fax: 01792 295843

<http://www-maths.swan.ac.uk>

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

Lecture courses

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

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

UNIVERSITY COLLEGE LONDON

Department of Mathematics

University College London, Gower Street, London WC1E 6BT.
Tel: 020 7679 2839 Fax: 020 7383 5519

<http://www.ucl.ac.uk/Mathematics>

Prof. K.M. Ball,

Prof. I. Bárány,

Prof. M. Csornyei

Dr. J.A. Haight,

Prof. M. Laczkovich

Prof. D.G. Larman,

Prof. P. McMullen,

Prof. D. Preiss,

Prof. C.A. Rogers (retired),

Dr. A.D. Scott*,

Dr. J. Talbot

Postdoctoral fellow

Dr. Laura Wisewell

Research students

Tom Rackham, Atsushi Tateno, Natalia Garcia-Colin, Maria Prodromou

Lecture courses

Optimisation (2nd year u/g)

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

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

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

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

Seminar

Colloquium (Wednesdays at 2.30 p.m.)

Informal Seminar (Wednesdays at 4.30pm)

Department of Economics

University College London, Gower Street, London WC1E 6BT

Tel: 020 7679 5888 Fax: 020 7916 2775

<http://www.econ.ucl.ac.uk>

Prof. K. Binmore

VODAFONE GROUP RESEARCH AND DEVELOPMENT - UK

Vodafone House, 1 The Connection, Newbury RG14 2FN.

Tel: 01635 33251 Fax: 01635 31127

<http://www.vodafone-rnd.com/whoweare/uk.htm>

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

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

Current periodicals: G, T, Z

UNIVERSITY OF WARWICK

Department of Computer Science

University of Warwick, Coventry, CV4 7AL.

Tel: 024 7652 3193 Fax: 024 7657 3024

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

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

Dr. L.A. Goldberg*,

Dr. Paul Goldberg,

Dr. R. Martin,

Prof. M. Paterson,

Research Students

Markus Jalsenius, Peter Krusche, Nick Palmer, Kasper Pederson, Pattarawait Polpinit

Lecture courses

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

Discrete Maths 1 (1st year u/g)

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

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

Warwick Business School

Phone: 024-76528220 Fax: 024-76524539

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

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

Lecture courses

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

Operational Research (4rd year, u/g)

Optimisation (masters students)

UNIVERSITY OF THE WEST OF ENGLAND, BRISTOL

Faculty of Computing, Engineering and Mathematical Sciences

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

Tel: 0117 344 2783 Fax: 0117 344 2734

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

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

Lecture courses

Operational Research (2nd year u/g)

Mathematical Programming (3rd year u/g)

Decision Analysis (p/g)

Current periodicals: D, N, S, b

List C: Recent and forthcoming publications

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

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

Two algorithms for the student-project allocation problem , submitted.

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

Popular matchings, Proc. SODA 2005, 16th ACM/SIAM Symposium on Discrete Algorithms, Vancouver, to appear.

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

Graphs and digraphs with all 2-factors isomorphic, *J. Combinatorial Theory (Ser. B)* 92 (2004), 395-404.

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

Diagonally switchable 4-cycle systems, *Australas. J. Combin.* (to appear).

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

Maximal arc partitions of designs. To appear in *Discrete Mathematics*.

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

Dominating sets in k-majority tournaments. Submitted. *CDAM Research Report*, 2004-11.

Allen, S. M.

[see also: Montemanni]

Alpern, S. and Baston, V.

Rendezvous in Higher Dimensions. *CDAM Research Report*, 2004-06.

Alpern, S. and Baston, V.

A common notion of clockwise can help in planar rendezvous. *CDAM Research Report*, 2004-07.

Alpern, S. and Baston, V.

Rendezvous on a planar lattice. *CDAM Research Report*, 2004-08.

Alpern, S.

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

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

A Randomized Algorithm for the MaxFS Problem. Technical Report.

Amaldi, E. and Hauser, R.

Boundedness theorems for the relaxation method. Accepted for publication in Math. of OR.

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

Discrete mathematics in the high school curriculum, Zentralblatt fur Didaktik der Mathematik, 36 (2004), 105-116.

Anderson, I. and Ellison, L.

Z-cyclic ordered triple whist tournaments on p elements where $p \equiv 5 \pmod{8}$, Discrete Math., to appear.

Anderson, I. and Ellison, L.

Z-cyclic ordered triplewhist and directed triplewhist tournaments on p elements where $p \equiv 9 \pmod{16}$, J. Comb. Math. Comb. Computing, to appear.

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 Combinatoria, to appear.

Anderson, I. and Finizio, N.

Some new Z-cyclic whist tournament designs, Discrete Math., to appear.

Anderson, I. and Preece, D.A.

Narcissistic half-and-half power-sequence terraces for Z_n with $n = pqt$, *Discrete Math.* 279 (2004), 33-60.

Anderson, I. and Preece, D.A.

Logarithmic terraces, *Bull. Inst. Combinatorics Appl.*, to appear.

Anderson, I. and Preece, D.A.

Some power-sequence terraces for Z_{pq} with as few segments as possible, *Discrete Math.*, to appear.

Anderson, I. and Preece, D.A.

Some $Z_{(n-1)}$ terraces from Z_n power-sequences, n being an odd prime power, *Proc. Edin. Math. Soc.*, to appear.

Anthony, M.

On data classification by iterative linear partitioning. *Discrete Applied Mathematics*, 144 (1-2): 2-16, 2004.

Anthony, M.

Partitioning points by parallel planes. *Discrete Mathematics*, 282 (1-3): 17-21, 2004.

Anthony, M.

Generalization error bounds for threshold decision lists. *Journal of Machine Learning Research*, 5: 189-217, 2004.

Anthony, M. and Hammer, P. L.

A Boolean measure of similarity. *RUTCOR Research Report RRR-27-2004*, RUTCOR, Rutgers Center for Operations Research, Rutgers University, New Jersey, USA, 2004.

Anthony, M.

On learning a function of perceptrons. *Proceedings of the IEEE 2004 International Joint Conference on Neural Networks*, IEEE Press, 2004.

Anthony, M. and Franco, L.

On a generalization complexity measure for Boolean functions. *Proceedings of the IEEE 2004 International Joint Conference on Neural Networks*, IEEE Press, 2004.

Anthony, M.

Some connections between learning and optimization. *Discrete Applied Mathematics*, 144 (1-2): 17-26, 2004.

Babbage, S.

'Stream Ciphers: What does Industry Want?', presented at the ECRYPT 'State of the Art in Stream Ciphers' workshop, October 2004, and available in the workshop record at <http://www.isg.rhul.ac.uk/research/projects/ecrypt/stvl/sasc-record.zip>

Babbage, S.

[see also: Maximov]

Bailey, R. A.

Association Schemes: Designed Experiments, Algebra and Combinatorics, Cambridge Studies in Advanced Mathematics 84, Cambridge University Press, Cambridge, 2004. 387pp. ISBN: 0 521 82446 X.

Bailey, R. A.

Principles of designed experiments in J. A. Nelder's papers, in *Methods and Models in Statistics: In Honour of Professor John Nelder FRS* (eds. N. M. Adams, M. J. Crowder, D. J. Hand and D. A. Stephens), Imperial College Press, London, 2004, 171-194.

Bailey, R. A.

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

Bailey, R. A.

Balanced colourings of strongly regular graphs, *Discrete Math.*, to appear.

Bailey, R. A.

Six families of efficient resolvable designs in three replicates, *Metrika*, to appear.

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

Crested products of association schemes, *J. London Math. Soc.*, to appear.

Bailey, R. A., Cameron, P. J., Dobcsányi, P., Morgan, J. P., and Soicher, L. H.
Designs on the Web, *Discrete Math.*, to appear.

Bailey, R. A. and Druilhet, P.

Optimality of neighbor-balanced designs for total effects, *Annals of Statistics*, 32, 2004, 1650-1661.

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

(eds), *Graph theory and its applications (Proceedings of the Conference on graph theory and its applications, Anna University, Chennai, India, 14-16 March 2001)*, Narosa Publ. Co., 2004.

Ball, S. and Hirschfeld, J. W.P.

Bounds on (n,r) -arcs and their application to linear codes, submitted.

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

On complete caps in the projective geometries over F_3 . II: New improvements, *Journal of Combinatorial Mathematics and Combinatorial Computing* 49 (2004), 9-31.

Baston, V.

[see also: Alpern]

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

Quantum Algorithms in Group Theory, *Contemporary Mathematics* 2004, 349, 1-62.

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

Extending the Promise of the Deutsch--Jozsa--Hoyer Algorithm for Finite Groups, submitted.

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

Introduction, in *Topics in Algebraic Graph Theory* (ed. L. W. Beineke and R. J. Wilson), Cambridge Univ. Press, Cambridge, 2004 (ISBN 0521801974), pp.1-29.

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

(eds.), *Topics in algebraic graph theory*, Encyclopedia of Mathematics and its Applications 102, Cambridge University Press, 2004.

Bennett, G.K., Grannell, M.J., Griggs, T.S., Korzik, V.P. and Siran, J.

Small surface trades in triangular embeddings, submitted.

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

Non-orientable biembeddings of Steiner triple systems of order 15, *Acta Math. Univ. Comeniana*, 73 (2004), 101-106.

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

Exponential lower bounds for the numbers of Skolem-type sequences, *Ars Combin.*, 73 (2004), 101-106.

Bell F.K., Li Marzi E. M. and Simic S.K.,

Some new results on graphs with least eigenvalue not less than 2, *Rendiconti del Seminario Matematico di Messina*, Serie II, Tomo XXV, Volume 9 (2003), 11-30.

Biggs, N., Klin, M. H. and Reinfeld, P.

Algebraic methods for chromatic polynomials. *European Journal of Combinatorics*, 25 : 147-160, 2004.

Biggs, N.

Specht modules and chromatic polynomials. *Journal of Combinatorial Theory*, (B) 92: 359-377, 2004.

Bonin, J. and de Mier, A.

T-uniqueness of some families of k-chordal matroids, *Adv. Appl. Math.* 32 (2004) 10-30.

Bonin, J. and de Mier, A.

Tutte polynomials of generalized parallel connections, *Adv. Appl. Math.* 32 (2004) 31-43.

Bordewich, M., Welsh, D.J.A., Freedman, M. and Lovasz., L.

Approximate Counting and Quantum Computation, to appear in *Combinatorics, Probability and Computing* 2005.

Borodin, O. V., Broersma, H. J., Glebov, A. and van den Heuvel, J.

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

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

The LaTeX companion (2nd edn.), Pearson, 2004.

Brightwell, G. and Tetali, P.

The number of linear extensions of the Boolean lattice. *Order*, 20: 333-345, 2003.

Brightwell, G. and Winkler, P.

Graph homomorphisms and long range action. In *Graphs, Morphisms and Statistical Physics* (J. Nešetřil and P. Winkler eds.), DIMACS Series in Discrete Mathematics and Computer Science 63: 29-47, 2004.

Brightwell, G. and Winkler, P.

A second threshold for the hard-core model on a Bethe lattice. *Random Structures and Algorithms*, 24: 303-314, 2004.

Brightwell, G. and Winkler, P.

Counting Eulerian circuits is P-complete. To appear in the proceedings of the 2005 Workshop on Analytic Algorithmics and Combinatorics (ANALCO05); also submitted for journal publication. *CDAM Research Report*, 2004-12.

Broersma, H. J.,
[see also: Borodin]

Buan, A. B. Marsh, R. J. and Reiten, I.
Cluster mutation via quiver representations, preprint, December 2004.

Buan, A. B. Marsh, R. J. and Reiten, I.
Cluster-tilted algebras, Transactions of the American Mathematical Society, to appear.

Buan, A. B. Marsh, R. J. Reineke, M., Reiten, I. And Todorov, G.
Tilting theory and cluster combinatorics, preprint, February 2004.

Bryant, D.E., Grannell, M.J. and Griggs, T.S.
Large sets of cycle systems on nine points, *J. Combin. Math. Combin. Comput. (to appear)*.

Bryant, D.E., Grannell, M.J., Griggs T.S. and Macaj, M.
Configurations in 4-Cycle Systems, *Graphs Combin* 20 (2004), 161-179.

Bryant, D.E, Maenhaut, B.M., Quinn, K.A.S. and Webb, B.S.
Existence and embeddings of partial Steiner triple systems of order ten with cubic leaves, *Discrete math.* 284 (2004), 83-95.

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

Caldero, P., Marsh, R.J. and Morier-Genoud, S.
Realisation of Lusztig cones. *Representation Theory* 8 (2004), 458-478.

Cameron, P. J.
Automorphisms of graphs, in *Topics in Algebraic Graph Theory* (ed. L. W. Beineke and R. J. Wilson), Cambridge Univ. Press, Cambridge, 2004 (ISBN 0521801974), pp.137-155.

Cameron, P. J.
Strongly regular graphs, in *Topics in Algebraic Graph Theory* (ed. L. W. Beineke and R. J. Wilson), Cambridge Univ. Press, Cambridge, 2004 (ISBN 0521801974), pp. 203-221.

Cameron, P. J.
Combinatorics and Groups: Peter Cameron's IPM Lecture Notes, IPM Lecture Notes Series 4, Institute for Studies in Theoretical Physics and Mathematics (IPM), Tehran, 2004, 86pp.

Cameron, P. J.

Topology in permutation groups, in *Groups: Topological, Combinatorial and Arithmetic Aspects* (ed. T. W. Müller), London Math. Soc. Lecture Notes 311, Cambridge University Press, Cambridge, 2004, pp. 93-105.

Cameron, P. J.

Partitions and permutations, *Discrete Math.*, to appear.

Cameron, P. J.

The random graph has the strong small index property, *Discrete Math.*, to appear.

Cameron, P. J.

Embedding partial Steiner triple systems so that their automorphisms extend, *J. Combinatorial Design*, to appear.

Cameron, P. J. (editor),

Problems from the 19th British Combinatorial Conference, *Discrete Math.*, to appear.

Cameron, P. J. and Johnson, C. R.

The number of equivalence classes of symmetric sign patterns, *Discrete Math.*, to appear.

Cameron, P. J. and Knarr, N.

Tubes in $PG(3,q)$, *Europ. J. Combinatorics*, to appear.

Cameron, P. J. and Müller, T. W.

A cohomological property of p -groups, *Archiv der Mathematik* 82 (2004), 200-204.

Cameron, P. J. and Nešetřil, J.

Homomorphism-homogeneous relational structures, *Combinatorics, Probability and Computing*, to appear.

Cameron, P. J. and Tarzi, S.

Switching with more than two colours, *Europ. J. Combinatorics* 25 (2004), 169-177.

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

Covering radius for sets of permutations, *Discrete Math.*, to appear.

Cameron, P. J.

[see also: Bailey and Beineke]

Campbell, D. F. and Edwards, K.J.

A new lower bound for the harmonious chromatic number, *Australasian Journal of Combinatorics* 29 (2004) 99-102.

Cechlarova, K. Irving, R. W. and Manlove, D.F.

Stability in labour market games, *ERCIM News* 57 (2004), 27-28.

Cieliebak, M. Erlebach, T., Liptak, Zs., Stoye, J. and Welzl, E.
Algorithmic Complexity of Protein Identification: Combinatorics of Weighted Strings, Discrete Applied Mathematics 137 (2004), 27-46.

Cvetkovic, D. and Rowlinson P.
Spectral Graph Theory in: Topics in Algebraic Graph Theory, (Eds. Beineke L. W. and Wilson R. J.) Cambridge University Press (ISBN 0521-80197-4), 2004, pp.88-112.

Cvetkovic D., Rowlinson P. and Simic S.,
Spectral Generalizations of Line Graphs, LMS Lecture Note Series, Vol. 314 Cambridge University Press (ISBN 0521-83663-8) 310 pages, 2004.

Darby-Dowman, K
[see also: Nwana]

Duckworth, W., Manlove, D.F. and Zito, M.
On the approximability of the maximum induced matching problem, J.Discrete Algorithms 3 (2005), 79-91.

Duncan, A.J. and Gilman, R.H.,
Word Hyperbolic Semigroups, Math. Proc. Camb. Phil. Soc 2004, 136(3), 513-524.

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

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

Edwards, K.J.
Detachments of complete graphs, Combinatorics, Probability and Computing, to appear.

Edwards, K.J. and Farr, G.E.,
On monochromatic component size for greedy colourings, Discrete Applied Mathematics, to appear.

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

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

Ellison, L.
[see also: Anderson]

Erlebach, T. and Hall, A.
NP-Hardness of Broadcast Scheduling and Inapproximability of Single-Source Unsplittable Min-Cost Flow, Journal of Scheduling 7 (2004), 223-241.

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

Polynomial-Time Approximation Schemes for Geometric Intersection Graphs, SIAM Journal on Computing, to appear.

Erlebach, T. and Jansen, K.

Conversion of Coloring Algorithms into Maximum Weight Independent Set Algorithms, Discrete Applied Mathematics, to appear.

Forbes, A.D., Grannell, M.J. and Griggs, T.S.

Distance and fractional isomorphism in Steiner triple systems, submitted.

Forbes, A.D., Grannell, M.J. and Griggs, T.S.

Steiner triple systems and existentially closed graphs, submitted.

Forbes, A.D., Grannell, M.J. and Griggs, T.S.

On independent sets, *Mathematica Slovaca* (to appear).

Forbes, A.D., Grannell, M.J. and Griggs, T.S.

Configurations and trades in Steiner triple systems, *Australas. J. Combin.* 29 (2004), 75-84.

Forbes, A.D., Grannell, M.J. and Griggs, T.S.

Independent sets in Steiner triple systems, *Ars Combin.* 72 (2004), 161-169.

Gerke, S. and McDiarmid, C.

Graph imperfection with a co-site constraint, SIAM Journal on Discrete Mathematics 17, (2004) 403 - 425.

Gerke, S. and McDiarmid, C.

On the number of edges in random planar graphs, *Combinatorics, Probability and Computing* 13, (2004) 165-183.

Giulietti, M., Hirschfeld, J.W.P., Korchmáros G. and Torres, F.

Curves covered by the Hermitian curve, *Finite Fields Appl.*, to appear.

Goldstein, L. and Reinert, G.

(2005). Total Variation Distance for Poisson Subset Numbers. To appear: *Annals of Combinatorics*.

Goodall, A.J.,

The Tutte polynomial modulo a prime, *Advances in Applied Mathematics* 32 (2004), 293-298

Goodall, A.J.,

Some new evaluations of the Tutte polynomial, submitted

Gordon, N.A., Jarvis, T.M. and Shaw, R.

Aspects of the linear groups $GL(n,2)$, *J. Combin. Math. and Combin. Comput.*, to appear.

Gordon, N.A.

[see also: Shaw]

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

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

Biembeddings of Latin Squares and Hamiltonian Decompositions, *Glasgow Math. J.* 46 (2004), 443-457.

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

Triangulations of surfaces by complete tripartite graphs, submitted.

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

A Steiner triple system which colors all cubic graphs, *J. Graph Theory* 46 (2004), 15-24.

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

Maximum genus embeddings of Steiner triple systems, *European J. Combin.* (to appear)

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

Minimal perfect bicoverings of K_v with block sizes two three and four, *Ars Combin.* 71 (2004), 125-138.

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

On λ -fold coverings with a maximum block size four for $\lambda = 3, 4$ and 5 , *J. Combin. Math. Combin. Comput.* 51 (2004), 137-158.

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

On λ -fold coverings with a maximum block size four for $\lambda \geq 6$, *Utilitas Math.* 66 (2004), 221-230.

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

Nonorientable biembeddings of Steiner triple systems, *Discrete Math.* 285 (2004), 121-126.

Grannell, M.J.

[see also: Adams, Bennett, Bryant and Forbes]

Griggs, T.S., Danziger, P., Dukes, P. and Mendelsohn, E.

On the intersection problem for Steiner triple systems of different orders,
submitted.

Griggs, T.S., Lo Faro, G. and Quattrocchi, G.

On some colouring of 4-cycle systems with specified block colour patterns,
submitted.

Griggs, T.S.,

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

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

A multidimensional approach to typesetting, *Proceedings of the TeX Users Group* 24 (1) (2004), 105-114.

Hauser, R.

[see also: Almaildi and Martinez]

Hetherington, T. J. and Woodall, D. R.

Edge and total choosability of near-outerplanar graphs, submitted.

van den Heuvel, J. and Johnson, M.

A polynomial algorithm for the source location problem in digraphs. *CDAM Research Report*, 2004-02.

van den Heuvel, J. and Johnson, M.

Transversals of subtree hypergraphs and the source location problem in digraphs. *CDAM Research Report*, 2004-10.

van den Heuvel, J. and Johnson, M.

The external network problem. To appear in Lecture Notes in Computer Science. *CDAM Research Report*, 2004-15

Hill, R.

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

Hill, R.

Some reflections on the cot death cases. *Significance*, to appear.

Hill, R.

[see also: Barat]

Hirschfeld, J.W.P.

The number of points on a curve, and applications, submitted.

Hoffmann, M. and Thomas, R. M.

A geometric characterization of automatic semigroups, preprint, 2004.

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

$L_2(59)$ is a subgroup of the Monster, *J. London Math. Soc.* 69 (2004), 141-152.

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

Subgroups of the Monster generated by A_5 s, *J. Algebra*, to appear.

Holroyd, F.C. and Škovič, M.

Colouring of cubic graphs by Steiner triple systems, *J. Combin. Theory Ser. B* 91 (2004), 57-66.

Holt, D.F., Rees, S.E., Röver, C.E. and Thomas, R.M.,
Groups with context-free co-word problem, to appear in the Journal of the London Mathematical Society.

Hopkins, B. and Wilson, R.J.
The truth about Königsberg, *College Mathematics Journal* 35 (2004), 198-207.

Irving, R.W., Michail, D., Mehlhorn, K., Paluch, K. and Telikepalli, K.
Rank-maximal matchings, Proc. SODA 2004, 15th ACM/SIAM Symposium on Discrete Algorithms, New Orleans (2004), 68-75.

Irving, R.W. and Scott, S.
An algorithm for the stable fixtures problem, submitted.

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

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

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

Ivrissimtzis, I. and Singerman, D.
Regular maps and principal congruence subgroups of Hecke groups. *European Journal of Combinatorics*, to appear in 2005.

Jackson, B.
[see also: Abreu]

Johnson, J. R.
A disproof of the Fon-der-Flaass conjecture, *Combin. Probab. Comput.* 13 (2004), 195-201.

Johnson, J. R.
Long cycles in the middle two layers of the discrete cube, *J. Combinatorial Theory Ser. A* 105 (2004), 255-271.

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

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

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

Keedwell, A. D.

Critical sets in latin squares and related matters: an update. *Utilitas Math.*, 65(2004), 97-131.

Keedwell, A. D.

Tests for loop nuclei and a new criterion for a latin square to be group-based. *Europ. J. Combin.*, 26(2005), 111-116.

Keedwell, A. D. and Mullen, G.

On sets of partially orthogonal latin squares and “near” projective planes. *Discrete Math.* 288(2005), 49-60.

Keedwell, A. D. and Shcherbacov V. A.

Construction and properties of (r, s, t) -inverse quasigroups II. *Discrete Math.* 288(2005), 61-71.

Keedwell, A. D. and Shcherbacov V. A.

Quasigroups with an inverse property and generalized parastrophic identities. Submitted.

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

Partial permutation decoding of codes from finite planes. To appear in the European Journal of Combinatorics 3.

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

Information sets and related PD-sets for codes from finite geometries and designs. Submitted.

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

Maximal orthogonal subgroups of finite unitary groups, *Journal of Group Theory* 2004, 7, 447-462.

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

On some maximal subgroups of unitary groups, *Communications in Algebra* 2004, 32, 989-995.

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

Twisted tensor product group embeddings and complete partial ovoids on quadrics in PG $(2^t-1, q)$, *Journal of Algebra* 2004, 273, 854-868.

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

The domination number of greedy heuristics for the frequency assignment problem. *Discrete Mathematics*, 275 (2004) 331-338.

Kostochka, A. V. and Woodall, D. R.

Irreducible hypergraphs for Hall-type conditions, and arc-minimal digraph expanders, *European J. Combin.*, to appear.

Krasikov, I. and Noble, S. D.

Finding next-to-shortest paths in a graph. *Information Processing Letters*, 92 (2004) 117-119.

Krattenthaler, C. and Müller, T. W.,

Equations in finite semigroups: Explicit enumeration and asymptotics of solution numbers, *J. Combinatorial Theory Ser. A* 105 (2004), 291-334.

Kühn D. and Osthus, D.

Complete minors in $K_{s,s}$ -free graphs, *Combinatorica* 25 (2004) 49-61.

Kühn D. and Osthus, D.

Induced subdivisions in $K_{s,s}$ -free graphs of large average degree, *Combinatorica* 24 (2004) 287-304

Kühn D. and Osthus, D.

Every graph of sufficiently large average degree contains a C_4 -free graph of large average degree, *Combinatorica* 24 (2004) 155-162.

Kühn D. and Osthus, D.

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

Kühn D. and Osthus, D.

Large topological cliques in graphs without a 4-cycle, *Combinatorics, Probability and Computing* 13 (2004) 93-102.

Kühn D. and Diestel, R.

Topological paths, cycles and spanning trees in infinite graphs, *European J. Combinatorics* 25 (2004) 835-862

Kühn D. and Diestel, R.

On infinite cycles I, *Combinatorica* 24 (2004) 69-89.

Kühn D. and Diestel, R.

On infinite cycles II, *Combinatorica* 24 (2004) 91-116 .

Lakin, S. R. and Thomas, R. M.

Context-sensitive decision problems in groups, in C. S. Calude, E. Calude and M. J. Dinneen (eds.), *Developments in Language Theory: 8th International Conference, DLT 2004, Auckland, New Zealand (Lecture Notes in Computer Science 3340, Springer-Verlag, 2004)*, 296-307.

Leese, R. A. and Noble, S. D.

Cyclic labelling with constraints at two distances. *Electronic Journal of Combinatorics*, 11 (2004) R16.

Luczak, M. and Winkler, P.

Building uniformly random subtrees. *Random Structures and Algorithms*, 24: 420-443, 2004.

Luczak, M. and McDiarmid, C.

On the power of two choices: balls and bins in continuous time. To appear in *Annals of Applied Probability*.

Luczak, M. and McDiarmid, C.

On the maximum queue length in the supermarket model, *Annals of Probability*, to appear.

Luczak, M. and Norris, J. R.

Strong approximation for the supermarket model. To appear in *Annals of Applied Probability*.

Maenhaut, B., Wanless, I. and Webb, B.S.

Subsquare-free Latin squares of odd order, submitted.

Manlove, D.F. and Middendorf, M.

Combined super-/substring and super-/subsequence problems, *Theoretical Computer Science* 320 (2005), 247-267.

Manlove, D.F., Abraham, D., Cechlarova, K. 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.

Manlove, D. F. and Cechlarova, K.

The exchange-stable marriage problem, submitted.

Manlove, D. F.

[see also: Abraham, Cechlarova and Duckworth]

Marsh, R. J. and Rietsch, K.

Parametrizations of flag varieties. *Representation Theory* 8 (2004), 212-242.

Martinez, S., Hauser, R. and Matzinger, H.

Large deviation based upper bounds for the LCS problem. Submitted, under revision.

Mavron, V. C.

[see also: Al-Kenani, Key and McDonough]

Maximov, A., Johansson, T. and Babbage, S.

'An Improved Correlation Attack on A5/1'. In *Selected Areas in Cryptography 2004*, published as *Lecture Notes in Computer Science* 3357 by Springer Verlag.

McDiarmid, C., Steger, A. and Welsh, D.J.A.

Random planar graphs, *J. Combinatorial Theory B*, 93, (2005) 187 - 206.

McDiarmid, C.

On the span of a random channel assignment problem, *Combinatorica*, to appear.

McDiarmid, C., Gerke, S. Steger, A and Weissl, A.

Random planar graphs with n nodes and a fixed number of edges. SODA 2005

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

Vertex-Colouring Edge-Weightings, *Combinatorica*, to appear.

McDiarmid, C.

[see also: Luczak]

McDonough, T.P., Mavron, V. C. and Tonchev, V. D.

Maximal arcs and Hadamard designs. To appear in *Discrete Mathematics*.

McDonough, T.P.

[see also: Key]

McSorley, J. P. and Soicher, L. H.

Constructing t -designs from t -wise balanced designs, *Europ. J. Combinatorics*, to appear.

de Mier, A. and Noy, M.

On graphs determined by their Tutte polynomials, *Graphs Combin.* 20 (2004) 105--119

de Mier, A. and Noy, M.

A solution to the tennis ball problem, *Theoret. Comput. Science*, to appear.

de Mier, A.

[see also: Bonin]

Mitra, G.

[see also: Nwana]

Montemanni, R., Smith, D.H. and Allen, S.M.,

An improved algorithm to determine lower bound for the fixed spectrum frequency assignment problem, *European Journal of Operational Research*, 156, August 2004, pp 736-751.

Müller, T. W. (editor),

Groups: Topological, Combinatorial and Arithmetic Aspects, London Math. Soc. Lecture Notes 311, Cambridge University Press, Cambridge, 2004. ISBN 0-521-54287-1.

Müller, T. W.

Parity patterns in Hecke groups and Fermat primes, in *Groups: Topological, Combinatorial and Arithmetic Aspects* (ed. T. W. Müller), London Math. Soc. Lecture Notes 311, Cambridge University Press, Cambridge, 2004, pp. 327-374.

Müller, T. W.

Counting wreath product representations of finite groups, *J. Algebra*, to appear.

Müller, T. W. and Schlage-Puchta, J. C.

Classification and statistics of finite index subgroups in free products, *Advances in Math.* 188 (2004), 1-50.

Müller, T. W. and Schlage-Puchta, J. C.

Modular arithmetic of free groups, *Forum Math.*, to appear.

Müller, T. W. and Schlage-Puchta, J. C.

Asymptotic stability for sets of polynomials, *Acta Math. Hung.*, to appear.

Müller, T. W. and Schlage-Puchta, J. C.

Character theory of symmetric groups, subgroup growth of Fuchsian groups, and random walks, *Advances in Math.*, to appear.

Müller, T. W. and Schlage-Puchta, J. C.

Expansion properties of symmetric groups, *J. Combinatorial Theory Ser. A*, to appear.

Müller, T. W. and Schlage-Puchta, J. C.

On the number of primitive lambda-roots, *Acta Arithmetica*, to appear.

Müller, T. W. and Schlage-Puchta, J. C.

Some examples in the theory of subgroup growth, *Monatshefte Math.*, to appear.

Müller, T. W.

[see also: Cameron and Krattenthaler]

Ninčák, J. and Owens, P. J.

On a problem of R Häggkvist concerning edge-colouring of biparte graphs. *Combinatorica*, 24 (2004), 325-329.

Noble, S. D.

Evaluating the rank generating function of a graphic 2-polymatroid. *Combinatorics, Probability and Computing*, to appear.

Noble, S. D.

[see also: Koller, Krasikov and Leese]

Norris, J. R.

[see also: Luczak]

Nwana, V., Darby-Dowman, K. and Mitra, G.

A two-stage parallel branch and bound algorithm for mixed integer programs. *IMA Journal of Management Mathematics* 15 (2004) 227-242.

Nwana, V., Darby-Dowman, K. and Mitra, G.

A co-operative parallel heuristic for mixed zero-one linear programming: combining simulated annealing with branch and bound. *European Journal of Operational Research* 164 (2005) 12-23.

Oliver, G. P. and Thomas, R. M.

Automatic presentations for finitely generated groups, in V. Diekert and B. Durand (eds.), 22nd Annual Symposium on Theoretical Aspects of Computer Science (STACS'05), Stuttgart, Germany (Lecture Notes in Computer Science 3404, Springer-Verlag, 2005), 693-704.

Ollis, M. A.

Protection against premature termination of experiments based on Williams squares with circular structure, *Utilitas Mathematica*, to appear.

Osthus, D.

[see also: Buckley and Kühn]

Owens, P. J.

[see also: Ninčák]

Parkes, D. W., Shavrukov, V. Yu. and Thomas, R. M.

Monoid presentations of groups by finite special string-rewriting systems, *RAIRO Theoretical Informatics and Applications* 38 (2004), 245-256.

Plaice, J. and Rowley, C.A.

New directions in document formatting: What is text?, *Proceedings of the Glyph and Typesetting Workshop 2003, Kyoto, Japan* (2004), 1-8.

Plaice, J. and Rowley, C.A.

Characters are not simply names, nor documents trees, *Proceedings of the Glyph and Typesetting Workshop 2003, Kyoto, Japan* (2004), 9-16.

Perkins, S. Smith, D.H. and Ryley, A.,

Robust data compression: consistency checking in the synchronization of variable length codes, *The Computer Journal*, Vol. 47, No. 3, (May 2004), pp. 309-319.

Perkins, S. and Smith, D.H.,

Robust data compression: variable length codes and burst errors, *The Computer Journal*, to appear.

Perkins, S., Sakhnovich, A.L. and Smith, D.H.,

On an upper bound for mixed error-correcting codes, submitted.

Preece, D. A.

[see also: Anderson]

Poole, T. R.

A degree and neighbourhood condition for the extendability of a set of l edges to a k -factor in a bipartite graph, submitted.

Poole, T. R.

A sufficient condition for Hamiltonian circuits in bipartite graphs, submitted.

Preece, D. A., Wallis W. D. and Yucas, J. L.

Paley triple arrays, *Australasian Journal of Combinatorics*, to appear.

Quinn, K. A. S.

[see also: Bryant]

Read, R.C. and Wilson, R.J.

An atlas of graphs, paperback edn., Oxford University Press, 2004.

Reinert, G., Schbath, S., and Waterman, M.S.

(2005). Statistics on words with applications to biological sequences. In Lothaire: Applied Combinatorics on Words. J. Berstel and D. Perrin, eds., Cambridge University Press, 251-328

Rees, S. E.

[see also: Batty and Holt]

Robertshaw, A. M.,

k -factors and extendability in bipartite graphs, submitted.

Robertshaw, A. M.,

Vertex-disjoint cycles covering a graph and containing specified edges, submitted.

Rowlinson P.

Star complements and maximal exceptional graphs, Publ. Inst. Math. Beograd, to appear.

Rowlinson P.

Co-cliques and star complements in extremal strongly regular graphs, Submitted.

Rowlinson P.

[see also: Bell and Cvetkovic]

Rowley, C. A.

[see also: Braams, Haralambous and plaice]

Rutherford, C. G.

[see also: Jones]

Savani, R. and von Stengel, B.

Exponentially many steps for finding a Nash equilibrium in a bimatrix game. *CDAM Research Report*, 2004-03. Extended abstract in: Proc. 45th Annual IEEE Symposium on Foundations of Computer Science (FOCS 2004), 258-267.

Scott, S.

[see also: Irving]

Shaw, R. and Gordon, N.A.

The quintic Grassmannian $G_{1,4,2}$ in $PG(9,2)$, *Designs, Codes and Cryptography*, 32 (2004) 381-396.

Shaw, R., Maks, J.G. and Gordon, N.A.

The classification of flats in $PG(9,2)$ which are external to the Grassmannian $G_{1,4,2}$, *Designs, Codes and Cryptography*, 34 (2005) 203-227

Shaw, R., Maks, J.G. and Gordon, N.A.

Partial spreads in $PG(4,2)$ and flats in $PG(9,2)$ external to the Grassmannian $G_{1,4,2}$. *Discrete Mathematics*, to appear.

Shaw, R. and Gordon, N.A.

The polynomial degree of the Grassmannian $G_{1,n,2}$. (Submitted)

Shaw, R.

[see also: Gordon]

Sheehan, J.

[see also: Abreu]

Singerman, D.

Riemann surfaces, Belyi functions and Hypermaps, in Topics on Riemann surfaces and Fuchsian groups. LMS Lecture Note Series 287, (2001) 43-68

Singerman, D. and Syddall, R.I.

The Riemann surface of a combinatorial dessin, *Beitrage zur Algebra und Geometrie*, Vol.44, No.24,(2003) 13-430

Singerman, D.

[see also: Ivriissimtzis]

Smith, D.H., Hughes, L.A., Moon, J.N.J., and Montemanni, R.,

Measuring the Effectiveness of Frequency Assignment Algorithms, submitted.

Smith, D. H.

[see also: Graham, Jones, Montemanni and Perkins]

Soicher, L. H.

Computing with graphs and groups, in Topics in Algebraic Graph Theory (ed. L. W. Beineke and R. J. Wilson), Cambridge Univ. Press, Cambridge, 2004 (ISBN 0521801974), pp. 250-266.

Soicher, L. H.

The GRAPE 4.2 Package for GAP 4.4, 2004;

See <http://www.maths.qmul.ac.uk/~leonard/grape/>

Soicher, L. H.

The DESIGN 1.1 Package for GAP 4.4, 2004;

See http://designtheory.org/software/gap_design/

Soicher, L. H.

[see also: Bailey and McSorley]

Stark, D.,

The vertex degree distribution of random intersection graphs, *Random Structures & Algorithms* 24 (2004), 249-258.

Stark, D.,

Convergence in distribution for subset counts between random sets, *Electronic J. Combinatorics* 11 (2004), R59 (9pp.)

Stark, D.,

Review of "Logarithmic Combinatorial Structures: a Probabilistic Approach" by Richard Arratia, A. D. Barbour, and Simon Tavaré, Bull. London Math. Soc., to appear.

Tarzi, S.

[see also: Cameron]

Thomas, R. M.

[see also: Holt]

Tsai, P. W., Gilmour, S. G. and Mead, R.

Statistical isomorphism of three-level fractional factorial designs, *Utilitas Mathematica*, to appear.

Vernitski, A.

Finite quasivarieties and self-referential conditions, *Studia Logica* 78 (2004), 337-348.

Wanless, I. M.

[see also: Cameron and Maenhaut]

Waters, R. J.

Some new bounds on T_r -choosability, submitted.

Waters, R. J.

Consecutive list colouring and a new graph invariant, submitted.

Webb, B. S.

[see also: Bryant and Maenhaut]

Wilson, R.J.

The early history of block designs, *Rendiconti del seminario matematico di Messina, Serie II, Tomo XXV N.9* (2003), 267-276.

Wilson, R.J.

History of graph theory, *Handbook of graph theory* (ed. J. Gross and J. Yellen), CRC Press (2004), 29-49.

Wilson, R.J.

Alice in Numberland: an informal dramatic presentation in 8 fits, *Mathematical adventures for students and amateurs* (ed. D. Hayes and T. Shubin), Math. Assoc. of America (2004), 259-280.

Wilson, R.J.

Cztery barwy wystarcza, czyli o kolorowaniu map, *Delta* 6 (361) (2004), 12-13.

Wilson, R.J.

Graph theory puzzles', *Popularisering av Matematik*, Nasjonalt Senter for Matematikk I Opplaeringen, Trondheim 2 (2004), 159-166.

Wilson, R.J.

Articles on 'Thomas Penyngton Kirkman' and 'Alfred Bray Kempe', *New dictionary of national biography*, Oxford Univ. Press, 2004.

Wilson, R.J.

Four colours suffice, US paperback edn., Princeton University Press, 2004 and Japanese edn., Shinchosha Co., 2004.

Wilson, R.J.

[see also: Balakrishnan, Beineke, Hopkins and Read]

Wilson, R.A.

[see also: Holmes]

Woodall, D. R.

Total 4-choosability of series-parallel graphs, submitted.

Woodall, D. R.

[see also: Hetherington and Kostochka]