

CMSA E-Newsletter 5

From Combinatorics Wiki

COMBINATORIAL MATHEMATICS SOCIETY OF AUSTRALASIA (INC)

CMSA E-Newsletter Number 5 (February 2001)

INTRODUCTION:

Many thanks to the members who have sent information for this newsletter.

CLOSING DATE for Issue 6: 31 May 2001. Email ejb@maths.uq.edu.au with all your news and information.

CMSA WEB PAGE: <http://www.math.fsc.qut.edu.au/cmsa/>

NEWSLETTER WEB VERSION: <http://www.maths.uq.edu.au/~ejb/cmsa-newsletter5.html>

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AIMS of the newsletter:

- * to promote combinatorics within Australasia
- * to provide a forum for sharing combinatorial and related information
- * to keep CMSA Members informed and in touch with combinatorial and related matters

VISITORS and 27ACCMCC IN 2002

The 27th Australasian Conference in Combinatorial Mathematics and Combinatorial Computing, in 2002, will be held in Newcastle, NSW. Precise dates are yet to be determined.

If you have any information concerning international (or other) visitors to Australasia in 2002, please could you pass this on to Ljiljana Brankovic in Newcastle. Ljiljana's email address is lbrankov@cs.newcastle.edu.au .

So far, tentative speakers include Alex Rosa, Jozef Siran and Mirka Miller.

RECENT CONFERENCE REPORTS: The 25th Australasian Conference on Combinatorial Mathematics and Combinatorial Computing The 25th Australasian Conference on Combinatorial Mathematics and Combinatorial Computing (25ACCMCC) was held at the University of Canterbury from 4-8 December 2000. Inundated with abstracts and registrations at the last minute, we had 68 participants altogether, almost half of whom came from places outside Australia and New Zealand.

The conference's Invited Speakers were

- * Joan Hutchinson (Macalester College)
- * Chris Rodger (Auburn University)
- * Ralph Stanton (University of Manitoba)
- * Robin Thomas (Georgia Institute of Technology)
- * Geoff Whittle (Victoria University of Wellington) and
- * Nick Wormald (University of Melbourne)

Speaking on a wide range of combinatorial topics, all of the invited speakers had obviously gone to some effort in preparing their talks - the presentations were excellent.

This year, we decided to have the ``pre-conference *reception on the Monday evening (held at the University of Canterbury Staff Club)*. *Holding the reception on Monday evening turned out to be one of our better ideas. The participants having had a day to recover from travel and to get into the swing of things, the atmosphere was relaxed, but noisy!*

The conference excursion was to Arthurs Pass, which is one of the three passes through the Southern Alps linking the East and West Coasts of the South Island. Because of the distance (4 hour round trip), we made it a day trip.

Arthurs Pass is a treasure trove for local trampers and mountaineers. With this in mind, everyone set off on one of the many scenic walks in the area. One such walk was to the top of Avalanche Peak. We must have looked like a trail of ants as we grunted our way to the top. The views were spectacular although perhaps hard to see under the dripping of sweat. Some people may be pleased to hear that every summer there is an organised race from Arthurs Pass township to the top of Avalanche Peak and down the other side. From memory, the race record to the top is about an hour - scary really!!

Although we all went to Arthurs Pass in mini-buses, some of us went to extraordinary lengths to travel back to Christchurch via helicopter. Participants will be pleased to hear that Carol Moon is recovering well back home.

The conference dinner was held at Trents Winery, a small winery about 11 km from the university. Luckily the bad weather held off, so that pre-dinner drinks and chat could be done outside. Of course, it being summer and all, we had a barbeque which included venison sausages, chicken, steak, and mussels. The BBQ ended with the NEW ZEALAND invented dessert - pavlova.

Lastly, we'd like to thank all participants for the effort they made in getting to the conference, their excellent and varied talks, and their happy faces. We hope everyone enjoyed the conference as much as we enjoyed hosting it.

Charles Semple and Mike Steel C.Semple@math.canterbury.ac.nz M.Steel@math.canterbury.ac.nz

Algebraic and Topological Methods In Graph Theory ATMGT2000 ATMGT2000, a conference on algebraic and topological methods in graph theory was hosted by the Department of Mathematics, University of Auckland, December 11-15, 2000. This was the first conference in, what is hoped to be, a series of graph theory conferences timed to occur around the middle of the four-year Slovene graph theory conference cycle. The organisers were particularly pleased that many Slovenes managed to participate in this Auckland conference.

The invited speakers were:

- * Bruce Richter, University of Waterloo, Canada
- * Joan Hutchinson, Macalester College, St Paul, Minnesota
- * Dragan Marusic, University of Ljubljana, Slovenia
- * Tomaz Pisanski, University of Ljubljana, Slovenia
- * Cheryl Praeger, University of Western Australia, Perth, Australia
- * Jozef Siran, Slovak Technical University, Bratislava, Slovakia
- * Robin Thomas, Georgia Institute of Technology, Atlanta, Georgia
- * Tom Tucker, Colgate University, Hamilton, New York
- * Mark Watkins, Syracuse University, New York

Dr Margaret Morton was instrumental in the organisation of this conference. Margaret passed away on August 31, aged only 55, after a short battle with cancer. The organisers decided to dedicate the conference to Margaret, and to hold a half-day special session on the Tuesday in her honour. The speakers during this session included collaborators and colleagues: Joan Hutchinson, Cheryl Praeger, Marston Conder, Neal Brand and Paul Bonnington.

The social events included a Monday night reception in "Old Government House", on the University grounds, and an excursion (on a glorious sunny day) to the vineyards and beaches of Waiheke Island in the Hauraki Gulf. (However, we understand that many theorems were proved during this excursion while sitting on Oneroa Beach, and therefore whether it qualifies as a "social" event is debatable.) The conference dinner was a very popular kiwi-style BBQ held at Dianne and Gaven Martin's home situated in an area of beautiful native bush (complete with glow-worms) north of Auckland.

A total of 50 people from New Zealand, Australia, Slovenia, Canada, United States, Iran, Mexico, South Africa, Slovakia, and the Sultanate of Oman registered for the conference. From all reports, the participants thoroughly enjoyed the conference, and had a stimulating week of mathematics!

The organisers wish to thank the Department of Mathematics (University of Auckland), the Marsden fund (administered by the Royal Society of New Zealand) and the Centre of Discrete Mathematics and Theoretical Computer Science (University of Auckland) for their generous financial support of the conference.

Paul Bonnington and Marston Conder p.bonnington@auckland.ac.nz conder@math.auckland.ac.nz

A workshop on Emerging applications of combinatorial designs was held at the Mathematical Sciences Research Institute in Berkeley, California from November 5-10, 2000. The workshop was well organised and many interesting talks describing a range of new applications of designs were presented. The message to come out of the workshop was undoubtedly that combinatorial design theory is alive and well. Special mention should be made of Peter Gibbons who received a prize for travelling the furthest distance to the workshop. He was visiting the University of Vermont prior to the workshop and flew from there via The Netherlands and New Zealand, thereby outdoing Peter Adams and Darryn Bryant who attended from Brisbane.

Organizing Committee was: Esther Lamken (chair), Charlie Colbourn, Jeff Dinitz.

Report from Darryn Bryant and Peter Adams. db@maths.uq.edu.au pa@maths.uq.edu.au

FUTURE WORKSHOP AND CONFERENCE ANNOUNCEMENTS: BRAZILIAN SYMPOSIUM ON GRAPHS, ALGORITHMS AND COMBINATORICS GRACO 2001 will be held from March 17-19, 2001 in Fortaleza, Ceara State, Brazil. See <http://www.lia.ufc.br/symp2001> or the previous CMSA E-Newsletter 3 for details.

GRACO 2001 is open to faculty members, researchers, specialists and graduate students from around the world, and will take place in conjunction with the Brazilian Summer School on Combinatorics and Algorithms (see <http://www.lia.ufc.br/scho2001>).

Submissions: Due date was 25 October 2000. See <http://www.lia.ufc.br/symp2001>.

Publication: Selected full papers from the symposium will appear as a special issue of a journal to be announced shortly. The submission of the full texts for the special issue is encouraged, but not compulsory. The deadline for submission is April 21, 2001.

For the Program Committee please see <http://www.lia.ufc.br/symp2001> . Organizing Committee: Manoel Campelo Neto, Fortaleza (Co-Chair); Ricardo Correa, Fortaleza (Chair); Fernando Gomes, UFC, Fortaleza (Co-Chair).

HORIZONS IN COMBINATORICS FIRST ANNOUNCEMENT AND CALL FOR PAPERS

A Conference on Graph Theory, Combinatorics and Computing in conjunction with the 16th Annual Shanks Lectures honoring Baylis and Olivia Shanks will be held at Vanderbilt University, Nashville, Tennessee, U.S.A. Monday 21st May - Thursday 24th May, 2001

INVITED SPEAKERS:

- * W.T. (Tom) Trotter, Arizona State University, Shanks Lecturer,
- * Jeff Kahn, Rutgers University,
- * Eva Tardos, Cornell University,
- * Robin Thomas, Georgia Institute of Technology,
- * Bjarne Toft, University of Southern Denmark,
- * Peter Winkler, Lucent Technologies Bell Laboratories.

FORMAT: The conference will consist of seven invited talks (two by the Shanks Lecturer) of 50 minutes each, and contributed talks of 20 minutes each.

IMPORTANT DATE: The deadline for both early registration and abstracts for contributed talks will be 5 p.m. on Friday, 20th April 2001.

REGISTRATION: The registration fee will be US\$50 before the deadline above, and US\$60 afterwards. Registration is free with proof of graduate student status.

ORGANIZING COMMITTEE: Paul Edelman, Mark Ellingham, Jonathan Farley, Mike Plummer and Jerry Spinrad.

FURTHER INFORMATION: More details will be given in a second announcement. Information may also be obtained from the following sources. Email: shanks@math.vanderbilt.edu Web: <http://www.math.vanderbilt.edu/~shanks/16th/> Regular mail: Horizons in Combinatorics/Shanks 2001 Department of Mathematics, SC 1326 Vanderbilt University Nashville, TN 37240, U.S.A. Phone: +1 615 322 6672 (Department of Mathematics) Fax: +1 615 343 0215

A WORKSHOP on COMBINATORIAL MATHEMATICS AND APPLICATIONS will be held in the Centre for Discrete Mathematics and Computing in the Department of Mathematics at The University of Queensland, from JUNE 12-15, 2001. This will provide an opportunity to discuss various aspects of combinatorial mathematics and computing, with emphasis on new applications. More details are available from Peter Adams, email pa@maths.uq.edu.au

SOUTH AFRICAN INTERNATIONAL GRAPH THEORY CONFERENCE The South African International Graph Theory Conference is to be held during June 18-22, 2001 and is dedicated to Professor Henda C. Swart and Professor Izak Broere, the pioneers of graph theory in South Africa.

The conference will be held at Ntshondwe Camp, Ithala Game Reserve, situated in KwaZulu-Natal, South Africa and hosted by the University of Natal. The main goal of the conference is to explore the most recent research in graph theory. The Principal Talks will be scheduled for 25 minutes and contributed talks for 15 minutes.

Special functions during the week includes a night drive in open safari vehicles, breakfast at the Bird Hide, sundowners overlooking the beautiful Phongola River, a night bush braai (alias *barbeque*) and a Zulu dancing exhibition.

The Principal Speakers are:

- * Lowell Beineke, Indiana University-Purdue University, USA
- * Izak Broere, Rand Afrikaans University, South Africa
- * Odile Favaron, Universite' Paris-Sud, France
- * Johan Hattingh, Georgia State University, USA
- * Martyn Mulder, Erasmus University of Rotterdam, Netherlands
- * Ortrud R. Oellermann, The University of Winnipeg, Canada
- * Michael Plummer, Vanderbilt University, USA
- * Peter J. Slater, The University of Alabama in Huntsville, USA
- * Henda C. Swart, University of Natal, South Africa

For more information, please see the web site <http://www.maths.unp.ac.za/> Michael Henning Henning@nu.ac.za

MATHEMATICS & DESIGN 2001 The Schools of Computing and Mathematics, and Architecture and Building at Deakin University are combining to organize MATHEMATICS & DESIGN 2001, at Deakin University, Victoria, Australia, July 3-5, 2001. For more information see <http://rosassa.deakin.edu.au/MD2001>

18th BRITISH COMBINATORIAL CONFERENCE This conference will take place at the University of Sussex, Brighton, United Kingdom from Sunday 1 to Friday 6 July, 2001. You are warmly welcome to participate. For all information and registration, see <http://www.maths.susx.ac.uk/TAGG/Confs/BCC/>

James Hirschfeld Richard Lewis (Organisers)

SECOND WORKSHOP ON ALGEBRAIC GRAPH THEORY INTERNATIONAL CENTRE FOR MATHEMATICAL SCIENCES, EDINBURGH, SCOTLAND 8-13 JULY 2001

Registration forms and further information are now available at
<http://www.ma.hw.ac.uk/icms/current/graph/index.html>

For other events (including the 18th British Combinatorial Conference in the previous week and a Durham Symposium on Groups, Geometry and Combinatorics in the following week) see
<http://www.maths.qmw.ac.uk/~pjc/bcc/conf2001.html>

From Peter Rowlinson p.rowlinson@maths.stir.ac.uk

The 26th ACCMCC The 26th Australian Conference on Combinatorial Mathematics and Combinatorial Computing will be held at Curtin University of Technology, Perth, Australia from JULY 9 - 13, 2001. The Conference aims to bring together researchers in all areas of combinatorial mathematics and combinatorial computing from Australia, New Zealand and overseas to exchange ideas and information on their work. The 26th ACCMCC will feature a special session on Optimization. The following invited speakers are confirmed :

* Richard Anstee	UBC
* Curt Lindner	Auburn
* John Moon	Alberta
* Tank Aldred	Otago
* Elizabeth Billington	UQ
* Cheryl Praeger	UWA

Additional speakers will be added to this list. Detailed information on the conference including a call for papers will be circulated soon. For those not familiar with Western Australia, Perth is a modern city, located on the banks of the picturesque Swan River, with a population of around 1.4 million. Although July is winter, the weather can be very nice. Perth is ideally located as Australia's gateway to Asia and Europe and is in fact the closest Australian State Capital city to those countries.

Professor Louis Caccetta Department of Mathematics and Statistics School of Applied Science Curtin University of Technology email : caccetta@cs.curtin.edu.au phone : (08) 9266 7672 fax : (08) 9266 7672

**The Second Lethbridge Workshop on DESIGNS, CODES, CRYPTOGRAPHY and GRAPH THEORY
SECOND ANNOUNCEMENT, CALL FOR PAPERS**

The Second Lethbridge Workshop on DESIGNS, CODES, CRYPTOGRAPHY and GRAPH THEORY will be held July 9 - 14, 2001 at University of Lethbridge, Lethbridge, Alberta. The workshop builds on the success of the Workshop on Coding Theory, Cryptography and Computer Security held at the University of Lethbridge, August 3 - 7, 1998. Sponsors are the Pacific Institute for the Mathematical Sciences, MITACs, the University of Lethbridge and VeriSign Inc.

The workshop web site is <http://www.cs.uleth.ca/dccg> .

INVITED SPEAKERS INCLUDE:

- * B. Alspach, University of Regina
- * C. Colbourn, University of Vermont
- * C. Rodger, Auburn University
- * D. Stinson, University of Waterloo
- * V. Tonchev, Michigan Technical University
- * K. Arasu, Wright State University
- * R. Craigen, University of Manitoba
- * W. deLauney, Institute for Defense Analysis, San Diego.
- * G.B. Khosrovshahi, IPM and Tehran University
- * D. Kreher, Michigan Technological University
- * A. Ling, Michigan Technological University
- * M. Yamada, Kanazawa University

INTENDED AUDIENCE Researchers in designs, codes, cryptography and graph theory, mathematicians and computer scientists in related areas who wish to explore connections to these areas, research scientists and others from industry primarily from Canada, graduate students primarily but not restricted to Western Canada, and undergraduate students from southern Alberta including Lethbridge and Calgary. Everyone is welcome.

PROGRAM We anticipate a combination of instructional lectures and research sessions. Morning sessions will be for instructional talks and afternoon sessions for research talks. Selected refereed papers presented to the last workshop were published in a proceedings issue of Discrete Applied Math. We anticipate similar plans being made for this workshop.

CALL FOR PAPERS Participants who wish to contribute 20-30 minute talks are invited to submit an abstract of at most 300 words. The abstracts should preferably be written in LaTeX or TeX and should be sent to hadi@cs.uleth.ca. Deadlines for submission have not been set but are anticipated to be a few weeks before the workshop starts.

SUPPORT: There is some financial support available for graduate students and postdocs. Those working in any area of combinatorics are encouraged to apply as soon as possible to be considered for financial support.

Further information about the workshop including accommodation information is available at the web site <http://www.cs.uleth.ca/dccg>.

ORGANIZING COMMITTEE: Wolf Holzmann, University of Lethbridge Hadi Kharaghani, University of Lethbridge Jim Liu, University of Lethbridge

If you have questions or wish to be put on our mailing list, please send e-mail to Hadi Kharaghani at hadi@cs.uleth.ca or write to: DCCG Workshop, Dept. of Mathematics and Computer Science, University of Lethbridge, Lethbridge, Alberta T1K 3M4 CANADA

FAX: (403) 329-2519 email: hadi@cs.uleth.ca Dept. Phone: (403) 329-2470

APPLICATIONS OF DISCRETE MATHEMATICS At the 45th Annual Meeting of the Australian Mathematical Society, to be held at the Australian National University, Canberra, Saturday 22 September to Wednesday 26 September 2001, inclusive, a special session entitled APPLICATIONS OF DISCRETE MATHEMATICS is being organized by Lynn Batten (Deakin University) and Ian Roberts (Northern Territory University). The session will accommodate about twenty speakers over the four and a half day period, including presentations by students. The focus of the session will be on all applications of discrete mathematics.

Contact Ian Roberts at iroberts@darwin.ntu.edu.au or Lynn Batten at lbatten@deakin.edu.au for details on the special session. More information about the meeting will soon be available on the Australian Mathematical Society website; see <http://www.austms.org.au/People/Conf/AustMS45/> or else <http://room.anu.edu.au/conferences/AustMS2001/> . Some financial support is available for students presenting a paper who are members of the Australian Mathematical Society.

AAECC-14 AAECC-14, the 14th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, will be held from November 26-30, 2001, in Melbourne at RMIT. Paper Deadline: January 31, 2001

Contact: Kathy Horadam or Serdar Boztas; email: horadam@rmit.edu.au or serdar@rmit.edu.au . Web: <http://www.irit.fr/ACTIVITES/AAECC/A14.shtml>

A very useful website giving upcoming conferences in Coding, Cryptography and Effective Algebra AND their deadlines is <http://www-rocq.inria.fr/codes/Anne.Canteaut/annonces.html> .

RECENT NEWS OF CMSA MEMBERS:

Congratulations to Professor JENNIFER SEBERRY who is one of five program leaders of the Smart Internet Technology CRC, which has been successful in receiving funding of \$22,000,000 over 7 years. Jennie is also the leader of the "Intelligent Environments Program" .

News from BRENDAN McKAY at ANU, who sent email saying:

> Our PC cluster just won some prize in America for the first > built for less than US\$1 per megaflop. > >
> Date: Fri, 10 Nov 2000 07:08:00 +1100 > From: Robert Edwards > Subject: we WON! > > Latest news
> from Dallas, Texas: > ANU's Bunyip supercomputer has won the 2000 Gordon Bell prize for >
> price/performance in a real supercomputer application. > > I put up a picture of Doug giving his talk on the
> Bunyip web page: > <http://tux.anu.edu.au/Projects/Bunyip> > yesterday and will put up some more pictures
> of Doug receiving the > award later on. > > Cheers, > > Bob Edwards.

AUSTRALIAN COMPUTER SOCIETY MEDIA RELEASE ACS Applauds Australian Ingenuity and Innovation in ANU Award

Monday 13 November 2000 - The Australian Computer Society (ACS) has congratulated Australian National University (ANU) on winning a prestigious international supercomputing award. ANU's Australian-designed and built Bunyip Beowulf-style supercomputer won the Gordon Bell Prize for best price/performance at the Supercomputing 2000 Conference in Texas late last week. ACS President John Ridge said the award was yet another example of Australian research leading the world. "It's very exciting to see Australian innovation being recognised at a global level," said Mr Ridge. "Not only has ANU created a supercomputer that is superior to all others in terms of its price/performance, but they have demonstrated that Australians can achieve extraordinary results in a field which has considerable commercial potential. "Once again, this result highlights the need for both the public and private sectors to invest more heavily in Australian R&D and innovation," he continued. "The Bunyip project was only made possible through a research grant from ANU, but consider what other breakthroughs might be made if more funding was available for our researchers and academics, and the benefits these might have for our nation's economy." Mr

Ridge repeated his earlier call, made during his speech to the IO2000 2000 Information Outlook Conference in Canberra, for Australian Governments to lead the way in innovation investment, providing stronger leadership for the private sector to emulate. "The ANU's Gordon Bell Award is but one example of Australian innovation at work. We must provide more opportunities to enable our knowledge workers - our thinkers and innovators - to push the boundaries of technology and create new products and services that can then be commercialised for the domestic and export markets. "The benefits for Australia will be considerable," he said.

Details of the ANU Bunyip Project are on-line at: <http://tux.anu.edu.au/Projects/Bunyip> This media release is located on the ACS Web site at <http://www.acs.org.au/131100.htm>

OVERSEAS VISITORS

(Please send in details of future visitors and dates in time for contacts to be made with the visitors.)

The following people will be visiting the Department of Mathematics at the University of Queensland in the first half of 2001:

- * Ian Wanless (Oxford University) March
- * Malcolm Greig (Greig Consulting) May, June
- * Barbara Maenhaut (Open University) May, June
- * Heather Gavlas (Grand Valley State University, Michigan) June
- * Saad El-Zanati (Illinois State University) June

MEMBERS' (OR STUDENTS OF MEMBERS) RECENT RESEARCH DEGREES :

Congratulations to two of Professor Jennie Seberry's students at the University of Wollongong, on obtaining their PhDs: DR JEFFREY HORTON, "Malicious Software and Distributed Computing" and DR CHENGXIN QU, "Boolean Functions in Cryptography".

PREPRINTS/RECENT PUBLICATIONS BY MEMBERS:

[Note from Ed: In CMSA E-News3 it was decided to shelve this section, as no one was sending in details. So there was no such section in CMSA E-News4. However, the following have been sent in for this issue, so it looks as if this section is restarted! So send in your preprint and recent publication details!]

From Anne Street:

- C.C. Lindner and A.P. Street, The metamorphosis of lambda-fold block designs with block size four into lambda-fold 4-cycle systems, Bull. Inst. Combin. Applics 28 (2000), 7-18; corrigendum, ibid 29, p.88.
- J. Seberry and A.P. Street, Stongbox secured secret sharing schemes, Utilitas Mathematica 57 (2000), 147-163.

From Graham Norton:

- T.D. Blackmore and G.H. Norton, On trellis structures for Reed-Muller codes, Finite Fields and their Applications 6 (2000), 39-70.

- T.D. Blackmore and G.H. Norton, On a family of abelian codes and their state complexities, IEEE Trans. Inform. Theory (2001), to appear.
- G.H. Norton and A. Salagean, On the Hamming distance of linear codes over finite chain rings, IEEE Trans. Inform. Theory 46 (2000), 1060-1067.
- G.H. Norton and A. Salagean, On the key equation over a commutative ring, Designs, Codes and Cryptography 20 (2000), 125-141.
- G.H. Norton and A. Salagean, On the structure of linear and cyclic codes over finite chain rings, Applicable algebra in engineering, communication and computing 10 (2000), 489-506.

From Jennifer Seberry: EDITED BOOK

- Josef Pieprzyk, Eiji Okamoto and Jennifer Seberry, (Eds), Information Security, ISW'2000}, Lecture Notes in Computer Science, Vol. 1975, Springer-Verlag, Berlin, 2000.

REFEREED JOURNAL ARTICLES

- C. Koukouvinos, M. Mitrouli and Jennifer Seberry, Growth in Gaussian elimination for weighing matrices $W(n,n-1)$, Linear and Multilinear Algebra, 306 (2000), 189-202.
- Ghulam Chaudhry and Jennifer Seberry, On the influence of entries in critical sets of Room squares, Bull ICA, 28 (2000), 67-74.
- C. Koukouvinos and Jennifer Seberry, New orthogonal designs and sequences with two and three variables in order 28, Ars Combinatoria, 54, (2000), 97-108.
- Chengxin Qu, Jennifer Seberry and Josef Pieprzyk, Homogeneous bent functions, Applied Discrete Mathematics, Volume 102, Numbers 1-2, (2000) 133-139.
- C. Koukouvinos, M. Mitrouli and Jennifer Seberry, Bounds on the maximum determinant for $(1,-1)$ matrices. Bull ICA, 29, (2000), 39-48.
- Jennifer Seberry and Anne Penfold Street, Strongbox secured secret sharing schemes, Utilitas Mathematica, 57, (2000), 147-163.
- S. Georgiou, C. Koukouvinos, M. Mitrouli and Jennifer Seberry, Necessary and sufficient conditions for two variable orthogonal designs in order 44: Addendum, JCMCC 34 (2000), 59-64.
- L.F. Fitina and Jennifer Seberry, On the spectrum of an F-square, Australas. J. Combin., 22 (2000) 81-90.
- Tianbing Xia, Jennifer Seberry and Josef Pieprzyk, Construction of cubic homogeneous boolean bent functions, Australas. J. Combin. 22 (2000) 233-246.
- Roderick J Fletcher and Jennifer Seberry, New D-optimal designs of order 110, Australas. J. Combin., 23 (2001) 49-52.
- Roderick J Fletcher, Marc Gysin and Jennifer Seberry, Application of the discrete Fourier transform to the search for generalised Legendre pairs and Hadamard matrices, Australas. J. Combin., 23 (2001) 75-86.
- Marc Gysin and Jennifer Seberry, On infinite families of sequences with one and two valued autocorrelation and two valued crosscorrelation function, Australas. J. Combin., 23 (2001) 197-209.
- Marc Gysin and Jennifer Seberry, On ternary complementary pairs, Australas. J. Combin., 23 (2001) 153-170.

REFEREED CONFERENCE PRESENTATIONS

- Jaroslaw Pastuszak, Dariusz Michalek, Josef Pieprzyk, Jennifer Seberry, Identification of bad signatures in batches, ACISP'00, Lecture Notes in Computer Science, Vol. 1751, H. Imai and Y. Zheng (Eds), Springer-Verlag, Berlin, Vol. 1751, 28--45, 2000.
- Jaroslaw Pastuszak, Dariusz Michalek, Josef Pieprzyk, Jennifer Seberry, Codes identifying Bad Signatures in Batches, INDOCRYPT'2000, Lecture Notes in Computer Science, Vol. 1977, B. Roy and C Ding, Springer-Verlag, Berlin, 2000, 143-154.
- C.X. Qu and J. Seberry and J. Pieprzyk, Relationships between boolean functions and symmetric groups, International Computer Symposium 2000, Taiwan, 2000.

RADIO/TV/MEDIA PRESENTATIONS

- Jennifer Seberry, bo2k software from oxblood@cultdeadcow.com, Interview with Andrew West, Sun Herald, 2 Feb 2000.
- Jennifer Seberry, St George Bank, Denial of Service Attack, Interview with Katy Cronin, ABC "Lateline", Andrew West, 1 Sept 2000.

The AUSTRALASIAN JOURNAL OF COMBINATORICS :

There is now a web page for the Australasian Journal of Combinatorics, and it has a search facility for past authors and for keywords in paper titles. See <http://ajc.math.auckland.ac.nz/> . Instructions to authors are also available from this web site.

From now on, submissions to the AJC may be sent to either of the addresses below. Paul Bonnington will mainly deal with papers in graph theory, and Elizabeth Billington will deal with all other areas of combinatorics. However, a paper may be submitted to either address below, or indeed (as in the past) to any member of the Editorial Board, or emailed to ajc@maths.uq.edu.au .

Dr E.J. Billington, Editor-in-Chief, Australasian Journal of Combinatorics, Department of Mathematics, The University of Queensland, Qld 4072 Australia

Dr C.P. Bonnington, Managing Editor, Australasian Journal of Combinatorics, Department of Mathematics, The University of Auckland, Private Bag 92019, Auckland, New Zealand.

REMINDER: Deadline for next issue 31 May 2001. Elizabeth Billington, Dept Maths, University of Queensland, Qld 4072. ejb@maths.uq.edu.au

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