

COMBINATORICS

Volume 7 (1985) Number 1 March

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*   bers and institutions is $5 Aust.
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*   During 1985, all enquiries should be directed to the
*   CMSA, c/- Dr J. Seberry, Department of Computer
*   Science, University of Sydney, Australia 2006.
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1. THE THIRTEENTH AUSTRALASIAN CONFERENCE ON COMBINATORIAL  
MATHEMATICS AND COMPUTING (XIII ACCMC) will be held from

26 - 30 August 1985

at the University of Sydney, Sydney.

(i) Invited Speakers

The following have accepted our invitation to give one-hour invited addresses:

Professor P. Erdos  
Professor C.A. Colbourne (University of Waterloo)  
Dr R.B. Eggleton (University of Newcastle)  
Professor C.A. Rodger (Auburn University)  
Dr D.J. Street (Waite Institute, University of Adelaide)  
Professor R.G. Stanton (University of Manitoba)  
Dr N. Wormald (University of Auckland)

Other speakers have also been invited.

(ii) Papers/Proceedings

In addition to the invited lectures, we welcome contributed papers in all areas of pure and applied combinatorics including computing aspects. These will be of 25 minutes duration with 5 minutes allowed for questions.

Potential speakers should send a TITLE and a SHORT ABSTRACT to:

Mr J. Hammer and Dr K. Wehrhahn,  
The Secretary CMA, Department of Pure Mathematics,  
University of Sydney, NSW, Australia 2006

The proceedings of the XIII ACCMC will be published as a special volume of the Ars Combinatoria. All papers will be refereed. Contributors may submit their manuscripts in final form at the conference, or, failing this, should send the final form of their manuscripts by 30 September 1985 to:

The Editor,  
Ars Combinatoria,  
Department of Computer Science,  
University of Manitoba,  
Winnipeg, Manitoba,  
Canada R2T 2N2

Typing instructions for manuscripts will be given in the next newsletter.

(iii) Accommodation

Accommodation has been reserved for the conference at

International House, a University Hall of Residence adjacent to the campus. Most of the rooms are single study bedrooms but a few double rooms are available, and it is possible to accommodate children. Participants may stay in International House before the conference, but must vacate their rooms by 10 a.m. Friday, 30 August (due to the return of students for the start of third term).

The cost of accommodation at International House will be \$40 Aust. per day for bed, breakfast, lunch and dinner. Lunches may also be taken at the Staff Club, and there are many other restaurants close to the campus. The Conference Dinner will take place at International House on Thursday evening at a cost of \$20 Aust. per person.

A deposit of \$20 Aust. per person is required by 1 July 1985. (This deposit will be refundable up to 1 July, but is non-refundable after this date.) If it would be more convenient for (overseas) participants the entire accommodation cost may be remitted by 1 July 1985.

Information about alternative forms of accommodation (for example hotel, motel) may be obtained from the committee. Please write to:

Mr J. Hammer and Dr K. Wehrhahn,  
Secretary, CHSA  
c/- Department of Pure Mathematics,  
University of Sydney,  
NSW Australia 2006

Please let us know if you have any special requirements, for example, a special diet, or disability, or if you require special arrangements for children.

(iv) Registration

Registration fees are payable at the conference (but may be sent ahead of time) and will be:

\$60 Aust. for members of the Combinatorial  
Mathematics Society of Australasia (CHSA).

\$65 Aust. for non-members (giving member-  
ship for the rest of the year).

Students or others unable to get funding should apply to the committee.

(v) Social Programme

On Sunday evening there will be a wine and cheese party in International House from 8 p.m. onwards at which participants may register.

We hope that on Monday early evening the Vice-Chancellor, Professor J.M. Ward, will welcome conference participants at a reception.

The conference excursion is planned for Wednesday afternoon. It will be a cruise on Sydney Harbour including a buffet lunch. Conference participants may bring guests. The cost will be announced later.

The Annual Dinner will be held at International House on Thursday evening. The cost is \$20 Aust. per head. Conference participants may bring guests.

For the duration of the conference, participants will be members of the University Staff Club.

## 2. SUBSCRIPTION RENEWAL

Members are reminded that the 1985 subscriptions for the Combinatorial Mathematics Society of Australasia fall due on 1 January. The rates are \$5 Aust. for those in full-time employment and \$3 Aust. otherwise. Prompt payment would be appreciated. Please make cheques, drafts, etc., payable to the CMSA and post with full name and address to Mr Sarvate, Treasurer, CMSA, c/- Department of Applied Mathematics, University of Sydney, NSW, Australia 2006. Receipts will be issued. Those remitting in US\$ send US\$6 (to allow for bank charges).

## 3. OTHER CONFERENCES

Eurocrypt 85 (Theory and Application of Cryptographic Techniques), Johannes-Kepler University, A-4040 Linz/Austria - 9-11 April 1985.

We would like to canvas reaction to the holding of the XIV ACCMC in Singapore during May next year. Please send comments to the Secretary.

## 4. NEW APPOINTMENTS AND CHANGES OF ADDRESS

Derek Holton has been offered the chair of Mathematics at the University of Otago.

We plan to continue announcing new appointments or changes of address. To have an announcement made, send details to the Secretary.

## 5. VISITORS

- (1) Professor R. Mathon (Computing and Designs) University of Toronto, Toronto, Canada, will be visiting the Department of Computer Science at the University of Sydney and the Mathematics Department of the University of Queensland from October 1985 to May 1986.

- (ii) Dr R. Robinson (Graph Theory and Applications) University of Canterbury, will visit the Basser Department of Computer Science at the University of Sydney during November 1985.
- (iii) Mr Asbjorn Damhus (Computer Aided Instruction of Mathematics) Technological University of Denmark, will visit the Department of Computer Science at the University of Sydney from February to May 1986.
- (iv) Professor Ron Read (Graph Algorithms) University of Waterloo, will be visiting the Department of Computer Science of the University of Queensland during the second half of this year.

Any details of other visitors who would be of interest to our readers should be sent to the Secretary.

#### 6. RECENT PAPERS/PREPRINTS

R.B. Eggleton and D.K. Skilton (1984), Double tracings of graphs. Proceedings of the eleventh Australasian Conference on Combinatorial Mathematics (Christchurch, New Zealand, 1983), Ars Combin. 17 -A, 307-323.

R.B. Eggleton and D.K. Skilton (1984), Graphs with eulerian chains, Bull. Austral. Math. Soc., 29, 389-399.

D.K. Skilton, Imbedding posets in the integers. Accepted (August, 1984) for publication in Order.

D.K. Skilton, Digraphs with eulerian chains. Accepted (November, 1984) for publication in J. Austral. Math. Soc. Ser. A.

R.B. Eggleton, P. Erdos and D.K. Skilton, Colouring the real line. Accepted (November, 1984) for publication in J. Combin. Theory Ser. B.

A.F. Horadam and A.G. Shannon (1983), Some properties of a sequence of Neumann and Wilson, Bull Malaysian Math. Soc. 6(1), pp 31-35.

A.F. Horadam, R.P. Loh and A.G. Shannon (1983), Some divisibility properties of Fibonacci Numbers, J. Natural Sciences and Mathematics 24(1), pp 47-53.

A.F. Horadam, A.G. Shannon and G.E. Bergum (1984), Infinite classes of sequence - generated circles, Fibonacci Quart. 22(3), pp 247-251.

A.F. Horadam (1984), Coaxial circles associated with recurrence-generated sequences, Fibonacci Quart. 22(3), pp 270-272, 278.

A.F. Horadam (1984), Pell numbers and coaxial circles, Fibonacci Quart. 22(4), pp 324-326.

A.F. Horadam (1984), Generalised pell polynomials and other polynomials, Fibonacci Quart. 22(4), pp 336-339.

7. RECENT THESES

D.K. Skilton (PhD, 1984, University of Newcastle), Chain decomposition of graphs. Supervisor: R.B. Eggleton.

Please send details of recent theses to the Secretary.

8. HISTORICAL WAITINGS OF CMSA

We want to compile a volume or volumes containing a complete set of the CMSA newsletters, important correspondence concerning the society and other, let us say, more creative writings.

At the moment, we have here in Sydney the following editions of our newsletter.

|        |     |      |
|--------|-----|------|
| Vol. 1 | 1-5 | 1979 |
| Vol. 2 | 1-4 | 1980 |
| Vol. 3 | 1-4 | 1981 |
| Vol. 4 | 2,3 | 1982 |
| Vol. 5 | 1-4 | 1983 |
| Vol. 6 | 1-3 | 1984 |

Please send any other editions to the Secretary of CMSA.

Important letters might include: letters of invitation to speakers, letters which may have been written during the formative period of CMSA, etc.

To set the tone of this serious endeavour, we have included an example of the Society's Art and Literature.

THE INFINITY SONG (attached)

Please send anything that you think should be saved to the Secretary.

THE INFINITY SONG

I think, we are over the ocean,  
I think, we are over the sea,  
And somehow I have the odd notion,  
We are going to Infinity.  
Going, going, here we all go to infinity,  
Going, going, going to infinity.

We're passing so fast all the milestones,  
I do so wish that we could see,  
I hate to be missing the last one,  
The one that's marked: Infinity.  
Going, going, here we all go to infinity,  
Going, going, going to infinity.

The lonesome and lovelorn lion A,  
He longs so to meet lion B,  
But, ah, they are parallel lions,  
They'll meet in Infinity.  
Going, going, here we all go to infinity,  
Going, going, going to infinity.

I tried hard to solve that equation,  
I searched what the answer could be,  
When I found a good approximation,  
And the answer was: Infinity.  
Going, going, here we all go to infinity,  
Going, going, going to infinity.

(Raise your glasses)

Combinatorics is finite,  
Discreet, as discrete can be,  
But this is our Conference high night,  
Let's go to infinity.  
Going, going, here we all go to infinity,  
Going, going, going to infinity.

# THIRTEENTH CONFERENCE ON COMBINATORIAL MATHEMATICS AND COMPUTING

August 26-30, 1985

at University of Sydney, Sydney, N.S.W., Australia

Organised by the Combinatorial Mathematics Society of Australasia

Organising Committee: Jennifer Seberry (Director), Warwick de Launey, Norman Foo, Joe Hammer, Dinesh Savate (Treasurer), Esther Szekeres, George Szekeres, Karl Werhahn.

Papers are invited on all topics related to current work in the theory and application of Combinatorial Mathematics and Computing. Please send abstracts, registrations and indications of interest to

**CMSA Conference Secretary**  
**Besser Department of Computer Science,**  
**University of Sydney, N.S.W., 2006**  
**AUSTRALIA**

Registration: Accommodation has been reserved at International House which provides full board at \$40 per day. A deposit of \$10 is required to reserve this accommodation for you. There is a registration fee of \$60 (\$65 for non-members) which includes membership of the society and a copy of the proceedings. Please send your Registration fee and form early.



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## REGISTRATION FORM

Name:.....

Institution:.....

Address:.....

Phone number:.....Telex:..... Computer Address:.....

Do you plan to submit a paper?..... Tentative title?.....

International House accommodation wanted?..... Dates?.....

Other accommodation wanted (please specify)?..... Deposit attached?.....

Registration fee attached? (\$60 members, \$65 non-members).....

Indicate interest in attending Annual Dinner:..... Harbour Boat Trip:.....

Students and researchers who are unable to get funding should make application to the committee as a small amount of funding has been set aside for special circumstances.