C O M B I N A T O R I C S

Volume 6 (1984) Number 3 (October)

pp 20-36

1.   Director's report.

The total membership of the Society is 102.

At the 12th ACCMC there are 48 participants of whom 31 are presenting papers. There are 7 invited speakers.

I gratefully acknowlege financial and other assistance from the following in organising the 12th ACCMC:

    The Australian Mathematical Society
    The Mathematics Department,
      University of Western Australia
    The Mathematics Department,
      University of Adelaide
    The School of Mathematics & Computing,
      Western Australian Institute of Technology
    Trans Australian Airlines
    The Westpac Banking Corporation
    The Western Australian Department of Tourism
    The University of Western Australia
    Mr Douglas Rogers

I thank Professor Ralph Stanton for his clear and efficient directions in organising the publication of the proceedings of this 12th ACCMC.

Finally I thank the members of the organising committee for taking on their share of the organising chores for this conference (Drs Lloyd Alison, Lou Caccetta, Tom Dickson, Phill Schultz, Bob Sullivan and Vijayan), and I thank Messrs Trevor Gilham, Gordon Royle and Shaun Martin for their help during the conference.

                              Cheryl E. Praeger
                              August 1984

2. Minutes of the Annual General Meeting of the
   Combinatorial Mathematics Society of Australia.

   4 p.m., August 16, 1984, Engineering Lecture Room 1,
   University of Western Australia.

   1. Moved Breach, seconded Casse:

      That the minutes of the 1983 A.G.M. be accepted.
      Passed.

   2. Matters arising from 1983 Minutes (apart from link
      with Australian Mathematical Society) - none.

   3. Director's report - accepted.

   4. Financial report. The Director pointed out that
      this is an unaudited Interim report. There was
      some discussion on whether surplus funds in New
      Zealand should be used to support young partic-
      ipants in N.Z. However it was agreed that the
      funds should be transferred to Australia.

      B.H. Neumann, supported by J. Seberry suggested a
      permanent treasurer. There seemed to be general
      agreement on this but no resolution was made.

      Moved Breach, seconded Seberry that the 1983 and
      1984 reports be audited together. Passed.

      Moved Schultz, seconded Holton that the Financial
      Report be received. Passed.

   5. (a) 1985 Conference. Moved Praeger, seconded
          Neumann that J. Seberry be appointed Director
          of the 1985 Conference, to be held in Sydney.
          Passed.

          J. Seberry reported on progress in organising
          Conference for the last week in August.

      (b) 1986 Conference. D. Holton to enquire about
          holding Conference in Melbourne.

          1987 Conference. B. McKay proposed a 2-week
          International Conference in Canberra, to be
          supported by the Australian Academy of Science.
          This was moved, seconded and passed.

      (c) Mathematical Sciences Congress, 1988. There was
          considerable discussion about participation in
          this Congress, to be held May 16-20 at A.N.U.

          It was eventually moved that the Society partic-
          ipate in the Congress, but with no restriction on
          the normal annual conference in August 1988.
          Passed; 24 for, 2 against.

6.   Publication of conference proceedings: The Director
      raised the matter of publishing future proceedings
      in the Lecture Notes of the Aust. Math. Soc. series.
      There was considerable discussion about: speed and
      reliability of publication, control of refereeing,
      the advantage of publishing in an established con-
      tinuing journal (Ars Combinatoria), circulation of a
      new series, waiting to see how the Lecture Note
      Series performs, and not changing a publisher unless
      necessary.

      Moved from the chair that publication remain with
      Ars Combinatoria. Passed.

7.   Link with Australian Mathematical Society. The
      Director outlined a proposal for the Society to
      become a Special Interest Group of the A.M.S.,
      and proposed some Rules of Procedure for discussion.

      Dr W. Bloom, secretary of the Aust. Math. Soc. out-
      lined the advantages, both to the Society, and to
      mathematics in general, of accepting the proposal.

      There was considerable discussion about the Rules of
      Procedure, particularly having two classes of members,
      which was generally opposed. It was moved W. de Launey,
      seconded J. Dawson that Rule III, 5 & 6 be changed to
      omit any mention of different classes of membership,
      with appropriate changes to the other rules. This
      motion was later withdrawn.

      On the principle of acceptance, the following spoke
      in favour: B.H. Neumann, A. Street, J. Sefridge.

      The following spoke against: W. Wallis, R. Casse,
      W. de Launey.

      Moved Neumann, seconded Holton: that the Society
      accept in principle the status of special interest
      group of the A.M.S.

      Amended McKay, seconded Godsil, that the motion
      include the words "subject to the principle that
      there be only 1 class of membership".

      The amendment was put and passed.

      J. Seberry spoke strongly against the amended
      motion.

      The motion was passed 15 to 11.

      J. Seberry foreshadowed a rescission motion to be
      brought up at the next A.G.M.

      Moved Neumann, seconded Robinson that a small committee
      be appointed to examine and amend the proposed rules of
      procedure. Passed.

      The following committee was nominated and accepted:
      B.H. Neumann, C.E. Praeger, J. Seberry, W. Wallis.

8. B.H. Neumann proposed a vote of thanks to the
    Organising Committee. Passed.

9. The meeting closed at 6.05 p.m.

_____

3. Financial Statement.

The financial statements for the years 1983 and 1984 will
be jointly audited when the receipts etc. arrive from
New Zealand. I hope that the next newsletter will contain
the details.

_____

4. Proposed Rules of Procedure for a Special Interest Group
    within the Australian Mathematical Society.

This is a copy of the document discussed at the recent A.G.M.
with references to different classes of members omitted. It
is printed here for interest, and members of the subcommittee
(B.H. Neumann, C.E. Praeger, J. Seberry, W.D. Wallis) would
welcome comments from CMSA members about it.

I.   Introduction

      1. The following Rules are to be read in conjunction
          with the constitition of the Australian Mathemat-
          ical Society, in the sequel to be referred to as
          the Society.

II.   Name, Objects and Composition of the Group

      2. The Group shall be called the "Combinatorial
          Mathematics Society of Australasia", hereafter
          to be referred to as the Group.

      3. The objects of the Group shall be to promote
          combinatorial mathematics in Australasia.

      4. To further these objectives the Group may, (among
          other activities):
          (a) conduct regular meetings and conferenes
               including an annual conference,
          (b) publish the proceedings of appropriate
               conferences, and meetings as well as other
               material related to the work of the Group,
          (c) disseminate information about combinatorics
               and combinatorialists through its newsletter.

      5. Members of the Group shall be those persons who pay
          an annual membership fee to the Group.

III. <u>Officers and Executive Committee</u>

6. The Officers of the Group shall be Members
of the Group. The Executive Committee shall
be Members of the Group, the composition of
the Executive Committee to be subject to the
provisions of Paragraph 8.

7. The Officers of the Group shall be a Chairman,
a Secretary and a Treasurer.

8. The Executive Committee of the Group shall consist
of the Officers abovementioned, the Conference
Director defined in Paragraph 16, and a rep-
resentative of the Society nominated by the
Council of the Society.

9. The Executive Committee shall manage the business
of the Group and shall act to further the objects
of the Group.

10. The Chairman or his nominee shall preside at all
meetings of the Executive Committee. Three members
of the Executive Committee shall constitute a quorum.

11. The Secretary shall keep a record of the activities
of the Group and of the Executive Committee, and
shall do all such things for the use and service
of the Group as pertains to that office. The
Secretary shall annually submit a written report
on the activities of the Group to the Annual General
Meeting of the Group, and the Council of the Society.

12. The Treasurer shall collect and receive all funds
on account of the Group and shall deposit the same
in an interest bearing Account established in the
name of the Group. Payments from the Account shall
be made by cheques signed by the Treasurer and one
other person nominaed by the Executive Committee.
The Treasurer shall keep true accounts of the sums
of money received and expended by the Group and
shall annually submit an audited financial state-
ment to the Annual General Meeting of the Group
and to the Council of the Society. The annual
financial statement shall be made available to any
Member of the Group on request.

13. All members of the Executive Committee shall act
in an honorary capacity.

IV. <u>Annual Conference, Conference Director</u>

14. There shall be an Annual Conference.

15. The Director of the Conference shall be a Member
of the Group.

16. The Director shall form by cooption of members an Organizing Committee.

17. The Organizing Committee shall consist of the Director (as convenor), a Conference Secretary, a Conference Treasurer, and other members as the Director sees fit.

18. Members of the Organizing Committee shall be Members of the Group.

19. The Organizing Committee shall make all arrangements for the Annual Conference, including arrangements for the publication of the Conference Proceedings.

20. The Organizing Committee shall be responsible for the preparation and distribution of the newsletter of the Group.

21. (a) Where fees are to be charged to cover expenses involved in the organization and conduct of the Conference, Members of the Group may pay a discounted fee as determined by the Executive Committee.

    (b) In matters relating to attendance at the Conference, the Group shall extend appropriate courtesies, as determined by the Executive Committee, to Honorary Members of the Society.

    (c) In matters relating to publications of the Group, the Group shall extend appropriate courtesies, as determined by the Executive Committee, to Institutional Members of the Society.

22. The Conference Treasurer shall submit a financial statement covering the financial arrangements of the Conference to the Executive Committee within three months of the conclusion of the Conference. The Conference Treasurer shall send any outstanding monies from the Conference to the Treasurer of the Group within three months of the conclusion of the Conference.

V. Elections and Meetings

23. The Annual General Meeting of the Group shall take place at the Annual Conference. The Chairman shall be the Chairman of the Group or his nominee.

24. A quorum at a General Meeting of the Group shall be ten members of the Group.

25. Any contentious issue shall be determined by a
    simple majority vote of the Members present,
    except that an amendment of the Rules of Procedure
    of the Group, or the termination of the Group shall
    be subject to the provisions of Paragraphs 34-36.

26. The positions of Chairman, Treasurer, Secretary,
    shall be declared vacant at the Annual General
    Meeting of the Group every (second) year.

27. The Chairman, Treasurer, and Secretary, shall be
    elected for a period of one (two) year(s) by Members
    of the Group.

28. The Director of the Conference shall be elected by
    Members of the Group.

29. Such elections abovementioned shall take place at
    the Annual General Meeting of the Group and shall be
    a simple majority vote of those present.

30. Nominations for any or all of the Officers or
    Director may be made by any two Members of the Group
    provided that the nominations reach the Secretary
    before the Annual General Meeting.

31. Persons elected as Officers or Director shall normally
    take up their positions immediately after the Annual
    General Meeting.

32. The Executive Committee shal decide whether to fill
    casual vacancies on the Executive Committee, or in
    the position of Director should they occur. Such
    vacancies shall be filled by appointment by the
    Executive Committee.

33. In the extraordinary case where no election of
    Officers has taken place by January 31st of a
    (post-election) year the Council of the Society
    shall intervene and take whatever action it deems
    appropriate.

VI. Amendment of Rules and Termination of the Group

34. Notice of intent to amend the Rules or to terminate
    the Group must be posted to the Members of the
    Group one Calendar month before the Annual General
    Meeting or before a Special General Meeting
    convened for one of those purposes.

35. Any motion to amend the Rules or to terminate the
    Group shall be decided by vote at a General Meeting
    of the Group and shall require a two-thirds majority
    to be passed.

36. In the event of the group being terminated all
    residual funds and assets of the Group shall be
    donated to the Australian Mathematical Society.

5.   1986 Conference: in Singapore?

Derek Holton has written to me about the possibility of holding
our Conference in 1986 in Singapore. This has the support in
principle of the National University of Singapore, and I hope
I am not out of order in quoting part of a letter to Derek
from Dr C.C. Chen:

> "Your ideas of holding a joint conference by
> combinatorialists in Australasia and S.E. Asia
> is a wonderful one. I have talked to Professor
> H.H. Teh and other colleagues in our Department
> and all of us welcome very much the suggestion.
> Next year, we have already planned a graph
> theory conference to be held in Tokyo, which
> may not be a suitable location for a joint
> conference. Hence, Professor Teh has tentatively
> suggested that we have one here in either May or
> August, 1986, on "Information Processing and
> Combinatorial Mathematics". Please bring this
> up in your annual conference in Perth, and suggest
> to us how you think the combined meeting should be
> held! Meanwhile, we shall also try to get the
> approval from our University for such a meeting
> as soon as we can."

Dr Chen's letter arrived too late for this to be discussed
in Perth. It is important that anyone with objections to
holding the 14th ACCMC outside of Australasia (for example
problems of finance) write to Dr Derek Holton, Department
of Mathematics, University of Melbourne, Parkville 3052
as soon as possible. There is some urgency because of the
need to consider invited speakers etc.

6.   Report on the First International Conference on Fibonacci
Numbers and their Applications.

This specialist Conference was held at the University of Patras
in the Peloponnese region of Greece during the period 27-31
August, 1984.

Representatives from about 15 nations participated in the
Conference and offered over two dozen addresses on a variety
of topics which included Number Theory (Combinatorial, Algebraic,
Classical), Graph Theory, Electrical Applications, Probability
and Statistics, and Geometry.

Speakers and their national affiliations were, in alphabetical
order, as follows, where the name(s) in brackets for a joint
paper refers to the non-speaker(s):

Antoniadis, J.A. - Crete (Greece)
Bong, N.H. - Malaysia
Freitag, Herta T. - U.S.A.
Hirano, K. - Japan
Horadam, A.F. (Mahon, J.M.) - Australia
Horadam, A.F. (Shannon, A.G.) - Australia
Jaruskova, Daniela - Czechoslavakia
Kirschenhofer, P. (Prodinger, H., Tichy, R.F.) - Austria
(Kiss, P.), Pethö, A. - Hungary
Lahr, J. - Luxemburg
(Mahon, J.M.), Horadam, A.F. - Australia
Markatos, K.M. - Greece
Papastravrides, S. - Greece
Pethe, S. - Malaysia
Pethö, A. - Hungary
Philippou, A.N. - Greece
Philippou, G.N. (Georghiou, C.) - Cyprus (Greece)
Phillips, G.M. - Scotland
Popov, B.S. - Yugoslavia
Rotkiewicz, A. - Poland
Somer, L. - U.S.A.
Tichy, R.E. - Austria
Tsangaris, P., Zachariou, A. - Greece
Xekalaki, Evdokia (Philippou, A.N., Panaretos, J.) -
     Crete (Greece)
Zachariou, A. - Greece

Other participants from, e.g. Italy, Australia and the U.S.A.,
did not present papers.

-----

7. <u>Report of a "Combinatorial Corroboree" held at the University</u>
    <u>of Melbourne, September 28th.</u>

There were four speakers; Derek Holton, Derrick Breach,
Roger Eggleton and Tony Gardiner. Here are the titles,
and abstracts for three of the talks.

<u>Derek Holton</u> (University of Melbourne)
"CYCLING"

Derrick Breach (University of Canterbury)

and Anne Penfold Street (University of Queensland)

"IRREDUCIBLE DESIGNS FROM SUPPLEMENTARY DIFFERENCE SETS"

Some 2-designs can be made by taking $D_1, D_2, \ldots, D_n$ all of
size k as starter blocks from which all blocks are
developed through addition modulo v. The sets $D_1, D_2, \ldots, D_n$
are called supplementary difference sets and the resulting
design is cyclic. A family of difference sets is said to be
minimal if no proper subfamily leads to a cyclic design modulo
v. A cyclic design from a minimal family of supplementary
difference sets may however contain a subdesign which is not
cyclic in which case the design is reducible. Conditions under
which this can happen will be discussed.

* * * * * * * * *

Roger Eggleton and Wal D. Wallis (University of Newcastle)

"HAMILTONIAN CYCLES AND EQUIDISTANT PERMUTATION SEQUENCES"

Let $G(n, \lambda)$ denote the graph with vertex set comprising all
the $n!$ permutations on a given set of n symbols, and edges
between all pairs of permutations which agree on λ of these
symbols. In all posisble cases we construct sequences of
permutations which correspond to hamiltonian cycles in $G(n, \lambda)$.

* * * * * * * * *

Tony Gardiner (University of Birmingham)

and Cheryl E. Praeger (University of Western Australia)

"IMPRIMITIVE GRAPHS"

Any symmetry of the triangular prism must either leave the two
triangular faces invariant or interchange them. Any symmetry
of the cube merely permutes the four pairs of "opposite"
vertices (the ends of the four body diagonals). A vertex-
transitive graph Γ is imprimitive if the vertex set $V\Gamma$
can be partitioned $V\Gamma = B_1 \cup B_2 \cup \ldots \cup B_n$ in such a way
that any automorphism of Γ merely permutes the sets B_i.

Most vertex-tansitive graphs are imprimitive. The theory of
permutation groups treats imprimitive graphs as "degenerate".
As a result we know almost nothing about the structure of such
graphs. Yet there is good reason to think that their
imprimitivity should have interesting combinatorial con-
sequences. I shall give an introduction to the general
problem, and give a complete analysis of one extremal case.

8. Combinatorial Mathematics Society of Australasia
    Membership List, October 1984.

Professor J. Abrham
Industrial Eng. Dept.
University of Toronto
Ontario, Canada M5S 1A4

Mr R. Aldred
Department of Mathematics
University of Melbourne
Parkville, Victoria 3052
Australia

Dr Lloyd Allison
Department of Computer
    Science
University of Western
    Australia
Nedlands, 6009
Western Australia

Dr B. Alspach
Department of Mathematics
Simon Fraser University
Burnaby BC V5A 1S6
Canada

Dr C. Armanios
Department of Mathematics
Birzeit University
West Bank
Via Israel

Dr A.H. Ball
5 Elva Avenue
Speers Point, 2784
New South Wales
Australia

Professor A. Barlotti
Institute Matematico
Univesita Degli Studi
1 50134 Firenze
Italy

Dr D. Billington
Department of Mathematics
University of Queensland
St Lucia, Queensland 4067
Australia

Dr E. Billington
Department of Mathematics
University of Queensland
St Lucia, Queensland 4067
Australia

Dr D.R. Breach
Department of Mathematics
University of Canterbury
Christchurch
New Zealand

Professor W. Brisley
Department of Mathematics
University of Newcastle
New South Wales, 2308
Australia

Dr R.N. Buttsworth
Department of Mathematics
University of Queensland
St Lucia, Queensland 4067
Australia

Dr Angelina H.J. Byrne
Melbourne State College
757 Swanston Street
Carlton, Victoria 3053
Australia

Dr L. Caccetta
School of Maths & Comp
Western Australian Institute
    of Technology
South Bentley, 6102
Western Australia

Dr R. Casse
Department of Pure Mathematics
University of Adelaide
Adelaide, 5001
South Australia

Professor C.C. Chen
Department of Mathematics
National University of
    Singapore
Kent Ridge
Singapore

Professor C.J. Colbourn
Department of Computational
    Science
University of Saskatchewan
Saskatoon
Saskatchewan S7N 0W0
Canada

Dr I.D. Coope
Department of Mathematics
University of Canterbury
Christchurch
New Zealand

Mr E.W. Dawson
Department of Mathematics
Queensland Institute of
    Technology
Brisbane, Queensland 4000
Australia

Mr J.E. Dawson
Department of Physiology
    JCSMR
Australian National University
G.P.O. Box 4
Canberra, 2601
Australian Capital Territory

Mr W. De Launay
Department of Applied
    Mathematics
University of Sydney
Sydney, 2006
New South Wales
Australia

Dr T.J. Dickson
Department of Mathematics
University of Western
    Australia
Nedlands, 6009
Western Australia

Miss D. Donovan
Department of Mathematics
University of Queensland
St Lucia, Queensland 4067
Australia

Dr R.B. Eggleton
Department of Mathematics
University of Newcastle
New South Wales, 2308
Australia

Professor P. Erdos
C/- Professor G. Szekeres

Mr M.N. Ellingham
Department of Comb &
    Optimization
University of Waterloo
Waterloo
Ontario N2L 3O1
Canada

Dr L.R. Foulds
Operations Research
University of Canterbury
Christchurch
New Zealand

Miss T. Galliguez
Department of Mathematics
University of Newcastle
Newcastle, 2308
New South Wales
Australia

Dr A. Gardiner
Department of Mathematics
University of Birmingham
Birmingham
England

Dr P. Gibbons
Department of Computer Science
University of Auckland
Auckland
New Zealand

Mr T. Gilham
Guildford Grammar School
Guildford, 6005
Western Australia

Dr D.G. Glynn
Department of Pure Mathematics
University of Adelaide
Adelaide, 5001
South Australia

Professor C. Godsil
Department of Mathematics
Simon Fraser University
Burnaby BC V5A 1S6
Canada

Professor G.Z. Hu
Department of Mathematics
Qinghua University
Beijing
Peoples Republic of China

Professor G. Xu
Maths & Operations Research
Institute of Systems Science
Chinese Academy of Sciences
Beijing
Peoples Republic of China

Mr J. Hammer
Department of Applied
    Mathematics
University of Sydney
Sydney, 2001
New South Wales
Australia

Dr K. Heinrich
Department of Mathematics
Simon Fraser University
Burnaby BC V5A 1S6
Canada

Professor Dr H. Harborth
Bienroder Weg 47
D-3300 Braunschweig
West Germany

Dr M. Hendy
C/- Mathematics & Statistics
Massey University
Palmerston North
New Zealand

Dr D.A. Holton
Department of Mathematics
University of Melbourne
Parkville, Victoria 3052
Australia

Professor A.F. Horadam
Department of Mathematics
University of New England
Armidale, 2351
New South Wales
Australia

Mrs J.A. Hoskins
Dept of Clothing & Textiles
University of Manitoba
Winnipeg
Manitoba R3T 2N2
Canada

Professor W.D. Hoskins
Department of Computer Science
University of Manitoba
Winnipeg
Manitoba R4T 2N2
Canada

Professor A. Jaeger
Lehrstuhl Fur Wirt
Ruhr Universitat
4630 Bochum 1
West Germany

Dr S. Kettle
Department of Mathematics
Monash University
Clayton, Victoria 3169
Australia

Dr W. Kocay
Department of Computer Science
University of Manitoba
Winnipeg
Manitoba R3T 2N2
Canada

Mr K.P. Long
29 Lake Yen Street
Bentong
Pahang
Malaysia

Professor C. La Campagne
C/- Dept of Mathematics
University of Newcastle
Newcastle, 2308
New South Wales
Australia

Dr P. Laird
Department of Mathematics
University of Wollongong
Wollongong, 2500
New South Wales
Australia

Professor R. Lidl
Department of Mathematics
University of Tasmania
Box 252C GPO
Hobart, Tasmania 7001
Australia

Dr C.H.C. Little
Department of Maths & Stats
Massey University
Palmerston North
New Zealand

Professor P.J. Lorimer
Department of Mathematics
University of Auckland
Private Bag
Auckland
New Zealand

Mr S. Martin
Department of Mathematics
University of Western
    Australia
Nedlands, 6009
Western Australia

Professor R. Mathon
Dept of Computer Science
University of Toronto
Ontario M5S 1A7
Canada

Mr K.L. McAvaney
Div of Computing & Maths
Deakin University
Victoria, 3217
Australia

Dr B.D. McKay
Dept of Computer Science
The Faculties
Australian National University
G.P.O. Box 4
Canberra, 2601
Australian Capital Territory

Professor B.H. Neumann
Inst of Advanced Studies
Australian National University
G.P.O. Box 4
Canberra, 2601
Australian Capital Territory

Ms C. O'Keefe
Department of Pure Mathematics
University of Adelaide
Adelaide, 5001
South Australia

Mr D. O'Keefe
Department of Mathematics
University of Newcastle
Newcastle, 2308
New South Wales
Australia

Dr P. Patison
Department of Psychology
University of Melbourne
Parkville, Victoria 3052
Australia

Professor C.E. Praeger
Department of Mathematics
University of Western Australia
Nedlands, 6009
Western Australia

Professor N.J. Pullman
Queens University
Kingston
Ontario K7L 3N6
Canada

Dr A.J. Rahilly
Department of Mathematics
University of the South Pacific
Suva
Fiji

Professor K.N. Rao
Dept of Mathematical Sciences
North Dakota State University
Fargo
North Dakota 58105
U.S.A.

Professor K.B. Reid
Department of Mathematics
Louisiana State University
Baton Rouge
Louisiana 70803
U.S.A.

Dr D.F. Robinson
Department of Mathematics
University of Canterbury
Christchurch
New Zealand

Professor R.W. Robinson
Dept of Computer Science
University of Georgia
Athens GA 30602
U.S.A.

Dr D. Rogers
68 Liverpool Road
Watford Herts WD1 8DN
England

Mr G. Royle
Department of Mathematics
University of Western
    Australia
Nedlands, 6009
Western Australia

Dr D. Row
Department of Mathematics
University of Tasmania
Box 252C
GPO Hobart, Tasmania 7001
Australia

Professor S. Kageyama
Department of Mathematics
Shinonome School
Faculty of School Education
Hiroshima University
1-33 Shinonone 3-Chro
Hiroshima 734   Japan

Dr D.G. Sarvate
Dept of Applied Mathematics
University of Sydney
Sydney, New South Wales 2006
Australia

Dr K. Satyanarayana
Department of Mathematics
Osmania University
Hyderabad 500007 India

Dr P. Schultz
Department of Mathematics
University of Western Australia
Nedlands, 6009
Western Australia

Dr J. Seberry
Dept of Applied Mathematics
University of Sydney
Sydney, New South Wales 2006
Australia

Professor J. Selbridge
C/- Department of. Mathematics
University of Newcastle
Newcastle, New South Wales 2308
Australia

Dr E.A. Selvanathan
School of MPS-Maths
Murdoch University
Murdoch, Western Australia 6150

Dr A.G. Shannon
Mathematics Education Unit
NSW Institute of Technology
PO Box 123
Broadway, New South Wales 2067
Australia

Professor M.K. Siu
Department of Mathematics
University of Hong Kong
Hong Kong

Mrs V. Sivakumarau
Dept Maths, Stats & Comp Sci
University of Newcastle
New South Wales, 2308
Australia

Mr D. Skilton
Department of Mathematics
Simon Fraser University
Burnaby BC V5A 1S6
Canada

Mr A.D. Smith
P.O. Box 146
Essendon, Victoria 3040
Australia

Professor R. Stanton
Dept of Computer Science
University of Manitoba
Winnipeg
Manitoba R3T 2N2
Canada

Dr D.R. Stinson
University of Manitoba
Winnipeg
Manitoba R3T 2N2
Canada

Dr A.P. Street
Department of Mathematics
University of Queensland
St Lucia, Queensland 4067
Australia

Dr D.J. Street
Biometry Section
WAITE Agricultural Res Inst
P.O. Box 1
Glen Osmond, 5064
South Australia

Mr J. Suck
Rahmstrasse 140
D 4300 Essen
Federal Republic of Germany

Dr R.P. Sullivan
Department of Mathematics
University of Western
   Australia
Nedlands, 6009
Western Australia

Mrs M. Sved
Dept of Pure Mathematics
University of Adelaide
Adelaide, 5001
South Australia

Professor G. Szekeres
School of Mathematics
University of New South Wales
P.O. Box 1
Kensington, 2033
New South Wales
Australia

Mrs E. Szekeres
School of Mathematics
University of New South Wales
P.O. Box 1
Kensington, 2033
New South Wales
Australia

Professor C. Thomassen
The Mathematical Institute
Technical University of Denmark
Lyngby
Copenhagen
Denmark DK 2500

Mr A.R. Thompson
Department of Mathematics
University of Canterbury
Christchurch
New Zealand

Mr R. Taylor
Department of Mathematics
University of Melbourne
Parkville, Victoria 3052
Australia

Dr J. Van Rees
Department of Computer Science
University of Manitoba
Winnipeg
Manitoba R3T 2N2
Canada

Professor S. Vanstone
Dept of Combinatorics &
   Optimization
University of Waterloo
Waterloo
Ontario N2L 3G1
Canada

Dr K. Vijayan
Department of Mathematics
University of Western Australia
Nedlands, 6009
Western Australia

Professor W.D. Wallis
Department of Mathematics
University of Newcastle
Shortland, 2308
New South Wales
Australia

Mr G. Whittle
Department of Mathematics
University of Tasmania
Box 252C
GPO Hobart, Tasmania 7001
Australia

Dr S. Williams
Department of Mathematics
University of Queensland
St Lucia, Queensland 4067
Australia

Dr N. Wormald
Department of Mathematics
University of Auckland
Private Bag Auckland
New Zealand

Dr D. Younghusband
Dept of Computer Science
University of Manitoba
Winnipeg
Manitoba R3T 2N2
Canada

Professor Z. Wan
Institute of Mathematics
Chinese Academy of Sciences
Beijing
Peoples Republic of China