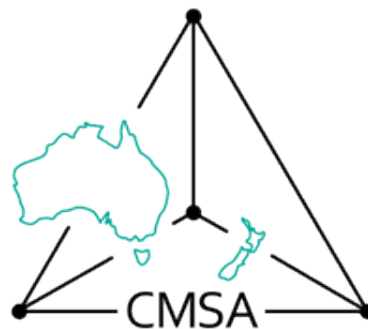# Combinatorial Mathematics Society of Australasia

Newsletter 68: October 2023

Incorporated 8 July 1996

Introduction

Thanks to all CMSA members who have sent information for this newsletter.

Please send news as soon as you have anything of interest to CMSA members and the combinatorial community, even if no newsletter is imminent. Email items to the Newsletter Editor: kevin.mcavaney@ozemail.com.au. Only in plain text please.

Closing date for Newsletter 69: 31 March 2024.

Old newsletters can be found here.

Workshop and conference announcements

45ACC December 2023

The 45th Australasian Combinatorics Conference (45ACC) will be held at The University of Western Australia, Perth, Australia, 11-15 December 2023.

It will include invited talks, contributed talks, a presentation of the CMSA Anne Penfold Street Student Prize for the best student talk at the conference, and the CMSA Annual General Meeting. Registration will automatically include a one-year membership of CMSA, if not already a life member.

Researchers in any area of discrete mathematics and its applications are warmly invited to attend and contribute a talk.

The invited speakers for 45ACC are:

- Sara Davies, The University of Queensland
- Gary Greaves, Nanyang Technical University
- Krystal Guo, University of Amsterdam
- André Kündgen, California State University San Marcos
- Padraig Ó Cathláin, Dublin City University
- Tibor Szabó, Freie Universität Berlin
- Geertrui Van de Voorde, University of Canterbury
- Gabriel Verret, University of Auckland

Organising Committee: John Bamberg, Michael Giudici, Gordon Royle, Cheryl Praeger, Alice Devillers, Luke Morgan.

Early bird registration deadline: 6 November 2023.
Deadline for submission of abstracts: 27 November 2023.

Contact: 45ACCuwa@gmail.com

Website: https://45acc.github.io.

67th Annual Meeting of the Australian Mathematical Society

This meeting will be held at The University of Queensland 5–8 December 2023. It has plenary speakers across several areas of mathematics. Special sessions include *Algebra and Combinatorics* organised by Lawrence Reeves, Binzhou Xia, and Sanming Zhou.

Contact: austms2023@uq.edu.au

Website: https://austms2023.smp.uq.edu.au/.

Wet and Discrete 2

Wet and Discrete 2 (W&D) is to be held in Cairns, Queensland, 17–20 January, and Darwin, Northern Territory, 22–31 January 2024.

This is a small conference centred upon a set of workshops to bring together mathematicians interested in open problems relating to Combinatorics and especially Extremal Set Theory. Amongst other areas this could encompass Finite sets, Sperner Theory, Combinatorial Design, Graphs or Hypergraphs, Lattices, Algebraic Combinatorics, Discrete Optimisation, and more. An aim is to bring together the expertise of mathematicians who may work in related fields where knowledge sharing would potentially enhance research.

Previous such collaborative style meetings were in Darwin (W&D January 1998) and Central Australia (Dry & Discrete, July 2006).

Organising Committee: Ian Roberts (Charles Darwin University, Darwin), PJ Couch (Lamar University, USA), Uwe Leck (Flensburg University, Germany).

The website has been updated, including a current list of suggested workshop problems. There has been interest from Australia, Europe and America to allow participants to join parts of W&D by ZOOM. This will be arranged where possible. Proposals for Workshop problems are still being accepted.

Contact: ian.roberts@cdu.edu.au

Website: https://sites.google.com/view/wnd2/startseite.

Symmetries of Discrete Objects

The Symmetries of Discrete Objects conference is to be held at the University of Auckland, New Zealand, on 12-16 February 2024.

The conference theme includes: symmetries of graphs, maps and polytopes, group action on trees, and expander Cayley graphs.

Confirmed invited speakers include:
- Isabel Hubard, Universidad Nacional Autónoma de México
- Ori Parzanchevski, Hebrew University of Jerusalem
- Simon M. Smith, University of Lincoln
- Binzhou Xia, University of Melbourne

To register for the conference, please go to https://jschillewaert.wixsite.com/sodo2024/registration.
Registration is free but to help with planning please register as soon as possible.

Contact: SODO2024AKL@gmail.com

Conference organisers: Florian Lehner, Jeroen Schillewaert, Gabriel Verret.

More combinatorics conferences

35th Workshop on Topological Graph Theory (TGT35),
Yokohama National University, Yokohama, Japan, 7–10 November 2023

Graph Drawing and Combinatorial Geometry Workshop,
Erdős Center - Alfréd Rényi Institute of Mathematics, Budapest, Hungary, 13–17 November 2023

International Conference on Graph Theory and its Applications (ICGTA23),
Amrita Vishwa Vidyapeetham, Coimbatore, India, 18–20 December 2023

Combinatorial Algebra meets Algebraic Combinatorics (CAAC 2024),
University of Quebec in Montreal, Canada, 26–28 January 2024

10th Annual International Conference on Algorithms and Discrete Applied Mathematics (CALDAM 2024),
Indian Institute of Technology Bhilai, Chhattisgarh, India, 15–17 February 2024

55th Southeastern International Conference on Combinatorics, Graph Theory & Computing,
Florida Atlantic University, Boca Raton, USA, 4–8 March 2024

40th European Workshop on Computational Geometry (EuroCG2024),
University of Ioannina, Greece, 13–15 March 2024

Combinatorial Constructions Conference,
Centre for Advanced Academic Studies, Dubrovnik, Croatia, 7–13 April 2024

Discrete Mathematics Days 2024,
Alcalá de Henares, Spain, 3–5 July 2024

[SIAM Conference on Discrete Mathematics (DM24),](#)
Spokane Convention Centre, Spokane, Washington, USA, 8–11 July 2024

[Summit280,](#)
Eötvös University, Budapest, Hungary, 8–12 July 2024

[13th International Workshop on Coding and Cryptography (WCC 2024),](#)
University of Perugia, Italy, 17–21 July 2024

[10th Polish Combinatorial Conference,](#)
Warszawa, Poland, 22–28 September 2024

46th Australasian Combinatorics Conference (46ACC), University of Queensland, Australia, 2–6 December 2024.

47th Australasian Combinatorics Conference (47ACC), Victoria University of Wellington, New Zealand, December 2025. Dates TBD.

Recent news

CMSA Seminars

Recent seminars in this online series were by:

- Jessica McDonald, Auburn University, 1 August 2023
- Melissa Lee, Monash University, 15 August 2023
- Mathias Schacht, University of Hamburg, 29 August 2023
- Florian Lehner, University of Auckland, 12 September 2023
- Marcelo Campos, University of Oxford, 3 October 2023

For talk titles and abstracts and forthcoming seminars visit http://combinatorics-australasia.org/seminars.html

An Outreach Opportunity

Maths Challenge is a unique open style annual problem-solving program designed to support and encourage mathematically gifted students from years 3 to 10 and their teachers. It is produced by the Australian Mathematics Trust and has been running for 33 years. There are over 15000 entries in a typical year. The problems and teacher guides are prepared by a committee of up to 16 committed volunteer teachers, educationalists, and mathematicians. More details are available in my ZDM paper [Mathematics Challenge for Young Australians](#). There is currently a vacancy on the committee for a mathematician who is keen to foster enthusiasm for mathematics amongst our future analytical thinkers. If interested, please contact the Committee Chair kevin.mcavaney@ozemail.com.au

MATRIX Workshops

MATRIX, a residential research institute for the mathematical sciences in Australia, is hosting two more combinatorics workshops this year:

16–27 October 2023. [Workshop on Uniqueness and Discernment in Graph Polynomials.](#)
Organisers: Jo Ellis-Monaghan, Iain Moffatt, Kerri Morgan, Graham Farr

4–9 December 2023. [Extremal Problems in Graphs, Designs, and Geometries.](#)
Organisers: Daniel Horsley, Anita Liebenau, Tibor Szabo

Joint Meeting

There will be a joint meeting in Auckland NZ, 9–13 December 2024, of the New Zealand, Australian and American Mathematical Societies. Expressions of interest/proposals for special sessions are invited. It is expected that these will be co-organized by mathematicians from different countries. Required information is name of the session, organisers' contact details, a brief summary of the session's scope, a sample list of 8–10 potential speakers (plenary, invited, or contributed). Send proposals to melissa.tacy@auckland.ac.nz

The Australasian Journal of Combinatorics

[AJC](#) is a 'diamond open access' journal: online and free for readers and authors. There are three volumes per year, closing in about February, June and October. Each volume has three parts. [Volume 87, Parts 1, 2](#) are now available, as are all volumes back to Volume 1.

Visit here to register for email notices whenever new papers are published.

Submissions to the Australasian Journal of Combinatorics may be sent to ajc@maths.uq.edu.au. Only pdf files are required at submission stage.

The Journal is now indexed by Scopus from Volume 13 (1996) onwards, and by Clarivate Analytics 'Emerging Sources Citation Index' from 2015 on.