

Australian Mathematical Society
Australian and New Zealand Industrial and Applied Mathematics



The 62nd ANZIAM Conference
8–12 February 2026
Canberra, Australia

The talk abstracts in this volume were typeset by their authors. Only minor typographical changes have been made by the editors. The opinions, findings, conclusions and recommendations in this book are those of the individual authors.

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1 Acknowledgement of Country

We wish to acknowledge the Ngunnawal people as traditional custodians of the land we are meeting on and recognise any other people or families with connection to the lands of the ACT and region. We wish to acknowledge and respect their continuing culture and the contribution they make to the life of this city and this region.

2 Conference Code of Conduct

ANZIAM is committed to a professional, open, productive and respectful exchange of ideas. These aims require a community and environment that fosters inclusion, provides mutual respect and embraces diversity. A condition of registering to attend the ANZIAM 2026 Conference and/or any associated satellite event is agreeing to the following Code of Conduct:

Harassment in any form will not be tolerated. This includes, but is not limited to, speech or behaviour (whether in person, in presentations or in online discussions) that intimidates, creates discomfort, prevents or interferes with a person's participation or opportunity for participation in ANZIAM's vision and mission. We aim for ANZIAM to be an organisation where harassment in any form does not happen, including but not limited to: harassment based on race, gender, religion, age, colour, national or ethnic origin, ancestry, disability, marital status, sexual orientation or gender identity. Harassment includes but is not limited to: verbal comments that reinforce social structures of domination; sexual images in public spaces; deliberate intimidation, stalking or following; harassing photography or recording; sustained disruption of talks or other events; inappropriate physical contact; unwelcome sexual attention; and advocating for or encouraging any of the above behaviour.

Conference organisers will take seriously all reports of breaches of this Code of Conduct, and treat all parties with respect and due process without presupposition of guilt. Complaints will be handled with sensitivity, discretion and confidentiality. If a conference participant engages in harassing behaviour, they may be asked by the conference organisers to leave the conference. Any event participant who experiences or witnesses harassment should contact one of the following Code of Conduct representatives:

- Jennifer Flegg
- Bronwyn Hajek
- Mark McGuinness
- Claire Miller
- Matthew Simpson
- Natalie Thamwattana

3 Conference Details and History

3.1 Organising committee

- Simon Watt, UNSW Canberra (Chair)
- Zlatko Jovanoski, UNSW Canberra
- Tim McLennan-Smith, DSTG
- Jason Sharples, UNSW Canberra
- Leesa Sidhu, UNSW Canberra
- Linda Stals, ANU
- Isaac Towers, UNSW Canberra
- Kate Turner, ANU

3.2 Invited speaker committee

- Jennifer Flegg, University of Melbourne (Chair)
- Simon Watt, UNSW Canberra (Conference rep)
- Cecilia González-Tokman, University of Queensland
- Ilze Ziedins, University of Auckland
- Yvonne Stokes, University of Adelaide
- Jason Sharples, UNSW Canberra
- Serena Dipierro, University of Western Australia
- Roslyn Hickson, James Cook University/CSIRO
- Ricardo Ruizbaier, Monash University
- Chris Angstmann, University of New South Wales
- Matthew Tam, University of Melbourne
- Lauren Smith, University of Auckland
- Andrew Bassom, University of Tasmania

3.3 Plenary speakers

- A/Prof Matthew Tam, University of Melbourne
- Prof Jennifer Flegg, University of Melbourne
- Prof Andrew Bassom, University of Tasmania
- Prof Natalie Thamwattana, University of Newcastle
- Prof Boris Baeumer, University of Otago
- Prof Mary Silber, University of Chicago
- Dr Edgar Duéñez-Guzmán, Gibran AI
- Prof Kavita Ramanan, Brown University

3.4 Past conference locations

1966	Kangaroo Island (Aug)	1986	Wirrina	2007	Fremantle
1966	Coorong (Dec)	1987	Wairakei	2008	Katoomba
1967	Adelaide	1988	Leura	2009	Caloundra
1968	Halls Gap	1989	Ballarat	2010	Queenstown
1969	Victor Harbor	1990	Coolangatta	2011	Glenelg
1970	Lorne	1991	Hanmer Springs	2012	Warrnambool
1971	Smiggin Holes	1992	Batemans Bay	2013	Newcastle
1972	Wollongong	1993	Hahndorf	2014	Rotorua
1973	Surfers Paradise	1994	Pokolbin	2015	Surfers Paradise
1974	Lorne	1995	Busselton	2016	Canberra
1975	Tanunda	1996	Masterton	2017	Hahndorf
1976	Jindabyne	1997	Lorne	2018	Hobart
1977	Terrigal	1998	Coolangatta	2019	Nelson
1978	Broadbeach	1999	Mollymook	2020	Hunter Valley
1979	Leura	2000	Waitangi	2021	Cape Schanck ¹
1980	Cowes	2001	Barossa Valley	2022	Perth ¹
1981	Victor Harbor	2002	Canberra	2023	Cairns
1982	Bundanoon	2003	Sydney	2024	Hahndorf
1983	Perth	2004	Hobart	2025	Coffs Harbour
1984	Merimbula	2005	Napier	2026	Canberra
1985	Launceston	2006	Mansfield		

¹ online due to COVID-19

3.5 ANZIAM Medal

The ANZIAM Medal is awarded on the basis of research achievements or activities enhancing applied or industrial mathematics and contributions to ANZIAM. The first award was made in 1995. Past recipients are listed below.

1995	Renfrey Potts	U. Adelaide	2016	Frank de Hoog	CSIRO Canberra
1997	Ian Sloan	UNSW	2018	Phil Howlett	UniSA
1999	Ernie Tuck	U. Adelaide	2019	Peter Taylor	U. Melbourne
2001	Charles Pearce	U. Adelaide	2020	Larry Forbes	U. Tasmania
2004	Roger Grimshaw	Loughborough U.	2021	Nalini Joshi	U. Sydney
2006	Graeme Wake	Massey U.	2022	Phil Broadbridge	LaTrobe
2008	James Hill	UoW	2023	Tony Roberts	U. Adelaide
2010	Bob Anderssen	CSIRO	2024	Hinke Osinga	U. Auckland
2012	Robert McKibbin	Massey U.	2025	Andrew Basson	U. Tasmania
2014	Kerry Landman	U. Melbourne			

3.6 The E. O. Tuck Medal

In honour of the late Ernest Oliver Tuck, FAustMS, FTSE and FAA, ANZIAM has instituted a mid-career award for outstanding research and distinguished service to the field of Applied Mathematics. The inaugural E. O. Tuck Medals were presented at ANZIAM 2013. Past recipients are listed below.

2013	Geoffrey Mercer	ANU	2020	Matthew Simpson	QUT
	Shaun Hendy	VUW and Callaghan Innov.	2021	Michael Plank	U. Canterbury
2015	Troy Farrell	QUT	2022	James McCaw	U. Melbourne
2017	Kate Smith-Miles	Monash U.	2023	Luke Bennetts	U. Adelaide
2018	Yvonne Stokes	U. Adelaide	2024	Alex James	U. Canterbury
2019	Scott McCue	QUT	2025	Jennifer Flegg	U. Melbourne

3.7 The J. H. Michell Medal

The J. H. Michell Medal is awarded to outstanding new researchers who have carried out distinguished research in applied or industrial mathematics, where a significant proportion of the research work has been carried out in Australia or New Zealand. Past recipients are listed below.

1999	Harvinder Sidhu	UNSW	2014	Ngamta Thamwattana	UoW
2000	Antoinette Tordesillas	U. Melbourne	2015	Barry Cox	U. Adelaide
2001	Nigel Bean	U. Adelaide	2016	Joshua Ross	U. Adelaide
2002	Stephen Lucas	UniSA	2017	Alys Clark	U. Auckland
2004	Mark Nelson	UoW	2018	Claire Postlethwaite	U. Auckland
2006	Sanjeeva Balasuriya	U. Sydney	2019	Ryan Loxton	Curtin U.
2007	Yvonne Stokes	U. Adelaide	2020	Jennifer Flegg	U. Melbourne
2008	Carlo Laing	Massey U.	2021	Lewis Mitchell	U. Adelaide
2009	Scott McCue	QUT	2022	Elliot Carr	QUT
2011	Frances Kuo	UNSW	2023	Christopher Lustri	Macquarie U.
2012	Matthew Simpson	QUT	2024	Vivien Challis	QUT
2013	Terence O'Kane	CMAR CSIRO	2025	Matthew Tam	U. Melbourne

3.8 The T. M. Cherry Student Prize

A student prize was introduced in 1969 at Victor Harbor and is awarded annually for the best student talk presented at the conference. In May 1976, ANZIAM (then the Division of Applied Mathematics) adopted the title “T. M. Cherry Student Prize” in honour of one of Australia’s leading scientists, Professor Sir Thomas MacFarland Cherry. Past recipients are listed below.

1969	R. Jones	U. Adelaide	1999	E. Ostrovskaya	ANU
1970	J. Rickard	UCL	2000	C. Reid	Massey U.
1971	J. Jones	Mount Stromlo	2001	M. Haese	U. Adelaide
1974	R. P. Oertel	U. Adelaide	2002	V. Gubernov	ADFA
1975	R. E. Robinson	U. Sydney		W. Megill	UBC/UoW
1976	J. P. Abbott	ANU	2003	Not awarded	
1977	J. Finnigan	CSIRO	2004	K. Mustapha	UNSW
	S. Bhaskaran	U. Adelaide	2005	J. Looker	U. Melbourne
1978	B. Hughes	ANU	2006	C. Fricke	U. Melbourne
	P. Robinson	UQ	2007	S. Harper	Massey U.
1979	J. R. Coleby	U. Adelaide	2008	E. Button	U. Melbourne
	B. Hughes	ANU		M. Haythorpe	UniSA
1980	M. Lukas	ANU	2009	S. Cohen	U. Adelaide
1981	A. Plank	UNSW	2010	L. Mitchell	U. Sydney
1982	G. Fulford	UoW	2011	S. Butler	U. Sydney
	J. Gear	U. Melbourne		J. Caffrey	U. Melbourne
1983	P. Kovesi	UWA	2012	J. Nassios	U. Melbourne
1984	A. Kucera	UoW	2013	D. Khoury	UNSW
	S. Wright	UQ		T. Vo	U. Sydney
1985	G. Fulford	UoW	2014	M. Chan	U. Sydney
	F. Murrell	U. Melbourne	2015	Hayden Tronolone	U. Adelaide
1986	A. Becker	Monash U.	2016	David Arnold	U. Adelaide
	K. Thalassoudis	U. Adelaide		Adrienne Jenner	U. Sydney
1988	W. Henry	ANU	2017	Claire Miller	U. Melbourne
1987	M. Rumsewicz	U. Adelaide		Eric Hester	U. Sydney
1989	M. Myerscough	U. Oxford	2018	Nabil Fadai	U. Oxford
	J. Roberts	U. Melbourne		Eloise Tredenick	QUT
1990	J. Best	UoW	2019	Elle Musoke	U. Auckland
1991	S. K. Lucas	U. Sydney		Conway Li	UWA
1992	S. F. Brown	UoW	2020	Rose Crocker	U. Adelaide
1993	D. Standingford	U. Adelaide	2021	Alex Browning	QUT
1994	B. Barnes	Monash U.		Rahil Valani	Monash U.
1995	A. Buryak	ANU	2022	Adriana Zanca	U. Melbourne
1996	A. Gore	U. Newcastle		Michael Denes	UNSW
	D. Scullen	U. Adelaide	2023	Sarah Vollert	QUT
1997	S. Cummins	Monash U.		Kyria Wawryk	Monash U.
1998	J. Clark	U. Sydney	2024	Patrick Grant	QUT
	T. Gourlay	U. Adelaide	2025	Juan Patiño-Echeverri	U. Auckland
				Kaitlyn Brown	QUT

3.9 The Cherry Ripe Prize

Since 1995 the students have run an alternative competition for the best non-student talk. Past recipients are listed below.

1995	Natashia Boland	U. Melbourne	2012	Martin Wechselberger	U. Sydney
1996	Andrew Pullan	U. Auckland	2013	Scott McCue	QUT
1997	Neville de Mestre	Bond U.		Sheehan Olver	U. Sydney
1998	David Stump	UQ	2014	Peter Kim	U. Sydney
1999	Mark McGuinness	VUW	2015	Not awarded	
2000	Joseph Monaghan	Monash U.	2016	Matthew Simpson	QUT
	Andy Philpott	U. Auckland		Melanie Roberts	IBM Research Australia
2001	Phil Broadbridge	UoW	2017	Christopher Green	QUT
2002	Ernie Tuck	U. Adelaide	2018	Christopher Lustri	Macquarie U.
	Larry Forbes	U. Tasmania	2019	Raúl Rojas	Freie Universität Berlin
2004	Stephen Lucas	UniSA	2020	Mike Meylan	U. Newcastle
2005	Kerry Landman	U. Melbourne		Peter Taylor	U. Melbourne
2006	Vicky Mak	Deakin U.	2021	J. Nathan Kutz	Washington
	James Sneyd	U. Auckland	2022	Jennifer Flegg	U. Melbourne
2007	Geoffrey Mercer	USW		Adrianne Jenner	QUT
2008	Neville de Mestre	Bond U.	2023	Adrianne Jenner	QUT
2009	Philip Maini	U. Oxford	2024	Larry Forbes	U. Tasmania
2010	Larry Forbes	U. Tasmania	2025	Maria Kleshnina	QUT
2011	Larry Forbes	U. Tasmania			
	Darren Crowdy	Imperial College			

3.10 The A. F. Pillow Applied Mathematics Top-up Scholarship

The A. F. Pillow Applied Mathematics Trust offers an annual “top-up” scholarship to a student holding either an Australian Postgraduate Award (APA) or equivalent award for full-time research in Applied Mathematics leading to the award of a PhD. The aim of the A. F. Pillow Applied Mathematics Top-up Scholarship is to increase the quality of postgraduate students in the field of Applied Mathematics in Australia. Past recipients are listed below.

2009	Christopher Lustri	QUT	2017	Jody Fisher	Flinders U.
2010	Alex Badran	UoW	2019	Jesse Sharp	QUT
2011	Michael Dallaston	QUT	2020	Matthew Berry	UoW
2012	Hayden Tronnolone	U. Adelaide	2022	Eugene Tan	UWA
2013	Lisa Mayo	QUT	2023	Noa Levi	QUT
2014	Audrey Markowskei	Macquarie U.	2024	Yong See Foo	U. Melbourne
2015	Pouya Baniyadi	Flinders U.	2025	Liam Blake	U. Adelaide
2016	Alexander Tam	U. Adelaide			

3.11 Acknowledgements

The Organising Committee would like to express our heartfelt gratitude to John Banks from The University of Melbourne for his invaluable assistance in developing and maintaining the online conference registration system. We also extend our thanks to Michael Lydeamore from Monash University for his support in managing the financial aspects of the conference. Finally, the committee sincerely appreciates the backing of the following organisations.



UNSW
THE UNIVERSITY OF NEW SOUTH WALES

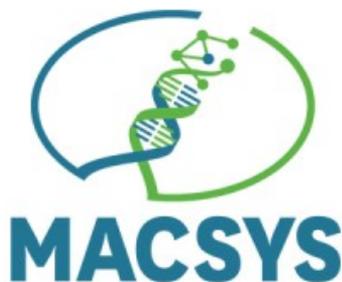
CANBERRA



**Australian
National
University**

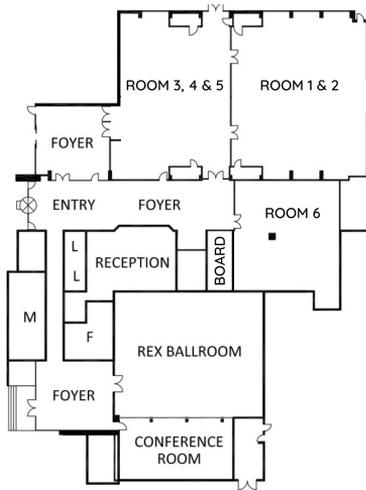


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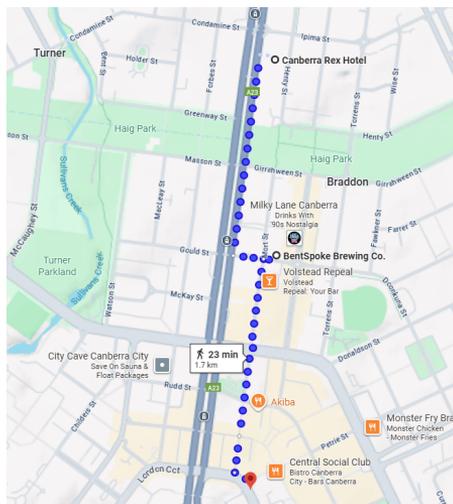


4 Conference Venue

The conference is being held at the Canberra Rex Hotel in Canberra. The Canberra Rex is located at 150 Northbourne Avenue, Braddon ACT 2612, about two kilometres to the north of the Canberra CBD. The floor plan is shown below.



For those wishing to walk to the CBD, see the map below.



Note that there is a light rail stop outside the Rex, but you need to purchase a MyWay+ card.

4.1 Conference Reception

The welcome reception will be held in the Rex Ballroom on Sunday 8 February from 6.30pm. All conference delegates are invited.

4.2 Conference Dinner

The conference dinner will be held at the Canberra Rex in the plenary room (Room 1 and 2) on Wednesday 11 February beginning with pre-dinner drinks from 6.30pm.

4.3 Refreshment Breaks and Lunches

Morning and afternoon tea and light refreshments will be available in the Rex Ballroom. Lunches are included in the registration fee and will be available in the Rex Ballroom after the last presentations of the morning sessions.

4.4 Internet Access

Delegates will be provided with WiFi internet access throughout the conference. Network and password to be confirmed.

4.5 Social Media

ANZIAM attendees are encouraged to use social media from their personal accounts to share ideas from the conference. The conference hashtag is #ANZIAM2026. It is good practice to include a reference to the presenter and their affiliation, and please seek permission from the presenter before posting a video of them or their presentation online.

4.6 Early Career Workshop

The ANZIAM Early Career Workshop will be held at the Mathematical Science Institute at the Australian National University over the Saturday and Sunday prior to the ANZIAM conference. This workshop is a professional development and networking opportunity for PhD students and early career researchers. It will feature sessions on communication, postdoctoral expectations, alternative career paths, project idea development, and networking. The 2026 workshop has been organised by Dr Claire Miller and Brock Sherlock, and is supported by AMSI, the AustMS and ANZIAM.

4.7 Student Event

All students are invited to the student event on Monday 12 February at 6.30pm. It will be held at Grease Monkey (19 Lonsdale St, Braddon). The event provides a chance to meet fellow students in an informal setting, with food and non-alcoholic drinks provided.

4.8 LGBTQIA+ and Allied lunch

We invite everyone in applied mathematics to join us for a lunchtime gathering celebrating our LGBTQIA+ community and allies. This event provides an inclusive space to strengthen connections and reflect on the value of diversity in mathematics. All are welcome to attend, regardless of identity, to share in open conversation and community building. Tickets are free but you must have registered through the conference registration system before 19 January.

The lunch will be held in parallel to the main conference lunch on Monday 9 February and will be held in Room 6.

4.9 Women in Mathematics Special Interest Group Lunch

The WIMSIG lunch is held at national ANZIAM conferences to promote and celebrate the contribution of women, trans and gender diverse people in the mathematical sciences. Conference delegates of any gender are encouraged to attend and participate in the discussion. Tickets are free but you must have registered through the conference registration system before 19 January. The lunch will be held in parallel to the main conference lunch on Tuesday 10 February and will be held in the Rex Ballroom.

Lunch is supported by James McCaw.

4.10 ANZIAM AGM

The 51st AGM of ANZIAM will be held at 7.30pm (AEST) on Tuesday 10 February in the plenary room (Rooms 1 and 2) and on Zoom. All ANZIAM members are welcome and encouraged to attend this meeting. The link for the agenda and reports will be emailed to all members a week prior to the AGM.

4.11 Early Career Workshop

The Early Career Workshop will be held at the Mathematical Sciences Institute at ANU the weekend before the ANZIAM conference. The workshop will run from 1:30pm–4:30pm Saturday, with a dinner (free to workshop attendees) Saturday night, and 9:30am–12:30pm Sunday, followed by a catered lunch.

The workshop will target both postdoctoral students and postdoctoral/research fellows. Session topics will include networking, communication, and careers, facilitated by a great lineup of academics.

A big thanks to AustMS for providing the financial support to run this workshop.

The following is the preliminary schedule for the workshop. Note, this is still subject to change.

Saturday 7 February

Time	Topic
1.30pm	Welcome
1.45pm	Career in government and policy
2.30pm	Postdoctoral expectations
3.15pm	Afternoon tea
3.30pm	Getting the most out of conferences
4.00pm	Networking
4.30pm	Free time (walk to dinner)
6.00pm	Dinner

Sunday 8 February

Time	Topic
9.30am	Grant and project development
10.45am	Morning tea
10.45am	Communication skills
12.15pm	Workshop close
12.30pm	Lunch

4.12 Optimisation Workshop

SigmaOpt, the optimisation special interest group of ANZIAM, is holding a one-day workshop at the Australian National University on the day after the 2026 ANZIAM Conference. The workshop will feature talks from our invited speakers, as well as the Winner of the Student Best Paper Prize.

Important Information:

- When: Friday February 13, 2026
- Where: Australian National University, Canberra
- Invited Speakers:
 - Hoa Bui (Curtin)
 - Philipp Braun (ANU)
 - Bethany Caldwell (UNSW)
 - Mahdi Abolghasemi (QUT)
 - James Nichols (Macquarie Bank/ANU)
 - The Winner of the Student Best Paper Prize (TBA)
- Registration: \$50 (includes catering).

For further information about the workshop, download the poster at https://www.anziam.org.au/tiki-download_file.php?fileId=199 (PDF, 244 KB).

4.13 Mathematical Biology Special Interest Group Meeting

The annual one-day Mathematical Biology Special Interest Group (MBSIG) Workshop will be held after the main ANZIAM Conference. The Workshop will feature talks from five invited speakers and the Winner of the Student Best Paper Prize, and a panel discussion on interdisciplinary research in mathematics and biology.

- *When* : Friday 13 February 2026, 9.45am – 2.15pm
- *Where* : The Mathematical Science Institute (Building 145) at ANU
- *Cost* : \$50 AUD (you must have registered through the conference registration system before 19 January.)

4.14 Engineering Mathematics Workshop

The Engineering Mathematics Group is holding a one-day workshop at the Australian National University on the day after the ANZIAM Conference in Canberra on Friday 13 February 2026. We welcome submissions of abstracts for short talks.

Important Information:

- When: 9.45am – 3pm, Friday February 13, 2026
- Where: Australian National University, Canberra
- Registration Deadline: Early-bird registration closes Tuesday 9 December. Standard registration closes Sunday 1 February.
- Abstract Submission: Please send abstracts to Louise Olsen-Kettle: Email: lolsenkettle@swin.edu.au Registration: \$50 (includes catering).
- Invited Speakers:
 - Chris Tisdell (UNSW)
 - Fangbao Tian (UNSW)

As we are unsure of the appetite for EMAC, depending on the number of registrations for this workshop at the end of ANZIAM Early Bird Registration (9 December), the workshop may not go ahead. In that case, all money will be refunded.

5 Conference Events at a glance

Time	Sun 8 Feb	Mon 9 Feb	Tue 10 Feb	Wed 11 Feb	Thu 12 Feb
7:30 - 8:30		Registration			
8:30 - 9:00		Opening			
9:00 - 10:00		Plenary 1	Plenary 3	Plenary 4	Plenary 7
10:00 - 11:00		Contributed talks	Contributed talks	Contributed talks	Contributed talks
11:00 - 11:30		Morning tea	Morning tea	Morning tea	Morning tea
11:30 - 12:30		Contributed talks	Contributed talks	Contributed talks	Plenary 8
12:30 - 14:00		Lunch LGBTIQA+ & Allies lunch	Lunch WIMSIG lunch	Lunch	Closing Lunch
14:00 - 15:00		Plenary 2		Plenary 5	
15:00 - 15:30		Afternoon tea		Afternoon tea	
15:30 - 16:30		Contributed talks		Plenary 6	
16:30 - 17:00	Registration open	ANZIAM Exec		Info session	
17:00 - 17:30					
18:30 - 20:30	Welcome reception	Student social		Conference dinner	
20:30 - 22:30			ANZIAM AGM		