



## Royal Society of New South Wales 2024

### Awards Winners 2024

The Awards for 2024 were announced at the 1328<sup>th</sup> Ordinary General Meeting of the Society, held on Wednesday, 4 December 2024.

### Four Career Excellence Awards

2024 RSNSW James Cook Medal

*Scientia Professor George Paxinos AO FAA FASSA FAHMS DistFRSN*

2024 RSNSW Aboriginal and/or Torres Strait Islander Scholars Medal

*Professor Jason Sharples FTSE FRSN*

2024 RSNSW Edgeworth David Medal

*Professor Yansong Shen*

2024 RSNSW Ida Browne Early Career Medal

*Dr Xuan Li*

### Five Discipline Awards and Medals

2024 RSNSW Pollock Award and Lectureship in the Physical Sciences and Mathematics

*Professor Nalini Joshi AO FAA FRSN FaustMS*

2024 RSNSW Interdisciplinary Award

*Professor Katherine Boydell FASSA*

2024 RSNSW Award in the Humanities, Philosophy and Law

*Scientia Professor Jane McAdam AO FASSA FAAL*

2024 RSNSW Poggendorff Award and Lectureship in Agricultural and Environmental Science

*Professor Alexander McBratney AO FAA*

2024 RSNSW Jak Kelly Award

*Mr David Sweeney*

### Three 2024 RSNSW Bicentennial Early Career Research and Service Citations

*Dr Cynthia Turnbull, Dr Fei Deng, Dr Jen Matthews*

### Three 2024 RSNSW Bicentennial Postgraduate Scholarships

*Joel Sved (University of Sydney), Linqing Tian (UNSW Sydney), Muyong Li (University of Sydney)*

### Two 2024 RSNSW Royal Society Service Awards

*Scientia Professor Emerita Eugenie Lumbers AM DistFRSN FAA, Ms C. Hannah Hibbert*

## Four Career Excellence Awards

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### 2024 RSNSW James Cook Medal

*Scientia Professor George Paxinos AO FAA FASSA FAHMS DistFRSN*

The James Cook Medal is awarded for the most meritorious lifetime contributions to knowledge and society in Australia or its territories made by an individual and conducted mainly in NSW. The James Cook Medal was established by the Council in 1943 following a donation made by Henry Ferdinand Halloran to celebrate his 50 years as a member of the Society and it has been awarded periodically since 1947. In 2023, the Council determined to award it annually.

**Professor Paxinos** is a visionary of neuroscience and the world's leading brain cartographer. He has published 59 books, his first book being the most highly cited Australian publication of all time. His stereotaxic atlases of the brain and spinal cord of humans, rats, mice and monkeys have proven critical in facilitating research into the relationship between the human brain and neurologic or psychiatric disease, as well as animal models of these diseases, and assisting the development of psychotherapeutic drugs and accurate interventions in the human brain. His eminent lifetime contributions to neuroscience make him an exceptional James Cook Medal candidate.

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### 2024 RSNSW Aboriginal and/or Torres Strait Islander Scholars Medal

*Professor Jason Sharples FTSE FRSN*

The Aboriginal and/or Torres Strait Islander Scholars Medal is awarded for the most meritorious contributions to knowledge and society made by scholars identifying as Australian Aboriginal or Torres Strait Islander and conducted mainly in NSW. The Aboriginal and/or Torres Strait Islander Scholars Medal was established by the Council in 2023 to reflect the full scope of the Society's values.

**Professor Sharples** is renowned as one of the world's leading experts in wildfire science. A proud Wahlabul Bundjalung man, he has made outstanding research contributions that have substantively improved our understanding of fire weather, fuel moisture modelling, wildfire risk assessment, fire-fighter safety, dynamic fire behaviour, fire-atmosphere interac-

tions, and extreme wildfire development. His paradigm-shifting contributions are widely acknowledged as leading international thought on how the problem of wildfires should be approached around the world, and under his leadership, the Bushfire Research Group at UNSW has emerged as a global leader in the interdisciplinary field of wildfire science.

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#### 2024 RSNSW Edgeworth David Medal

*Professor Yansong Shen*

The Edgeworth David Medal is awarded for the most meritorious contributions to knowledge and society in Australia or its territories, conducted mainly in NSW by an individual who is from 5–15 years post-PhD or equivalent on 1 January of the year of the award. The Edgeworth David Medal was established by Council in 1943 in honour of Sir T. W. Edgeworth David FRS, who compiled the first comprehensive record of the geology of Australia, and following a donation made by Henry Ferdinand Halloran to celebrate his 50 years as a member of the Society. It has been periodically awarded since 1948. In 2023, the Council determined to award it annually.

The mass deployment of photovoltaic solar panels plays a vital role in Australia's meeting the Net Zero 2050 targets. Importantly, at the end of their life these panels must be recycled to enable genuine life-cycle Net-Zero and to meet Australia's Waste Action Plan. Unfortunately, current photovoltaic solar-panel recycling consists of simply stripping the aluminium frames and sending the rest to landfill. In an Australian first, and inspired by metallurgy engineering, **Professor Shen** has developed a sustainable, full-loop system for end-of-life solar panels. This environmentally-friendly recycling process not only diverts waste from landfill but also provides materials for new solar panel manufacturing.

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#### 2024 RSNSW Ida Browne Early Career Medal

*Dr Xuan Li*

The Ida Browne Early Career Award recognises the most meritorious contributions to knowledge and society in Australia or its territories by an individual from 0–5 years post-PhD or equivalent on 1 January of the year of the award and conducted mainly in NSW. The Ida Browne Medal was established by the Council in 2023 in honour of Ida Browne DSc, a palaeontologist and the first woman President of the Royal Society of NSW, who served from 1953–1954.

**Dr Li** is a leading figure in environmental engineering, renowned for her innovative work in corrosion mitigation, wastewater-based infectious disease surveillance, and energy-efficient wastewater treatment. Her corrosion-resistant concrete extends sewer lifespan by 40%, reducing costs and maintenance needs while delivering substantial economic and environmental benefits. She was an early contributor to wastewater-based COVID-19 surveillance, demonstrating its reliability and establishing the world's first accurate predictive system for infection and hospitalisation rates, surpassing existing models in lead time and precision. Additionally, she has pioneered waste-driven technologies that enhance energy recovery in wastewater treatment, significantly benefiting water utilities. Dr Li's research has been widely tested by water industries and recognised by global organizations. Beyond

her research, Dr Li is actively involved in mentoring and outreach, regularly presenting at industry events and inspiring the next generation of scientists. Her remarkable contributions have earned her numerous awards, such as the Australian Academy of Science Award, and the Eureka Prize for Environmental Research. As the sole/lead CI, she has secured over \$1.2 million in research funding, such as the ARC DECRA Fellowship and the UTS Chancellor's Fellowship. Her work has been featured in over 100 media outlets, including major networks such as Fox8 (AU) and ABC (US).

## Five Discipline Awards and Medals

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### 2024 RSNSW Pollock Award and Lectureship in the Physical Sciences and Mathematics

*Professor Nalini Joshi AO FAA FRSN FaustMS*

Awarded for distinguished research in any area of the Physical Sciences and Mathematics, excluding the Chemical and Earth Sciences, conducted mainly in NSW. The Pollock Memorial Lectureship was first awarded in 1949, sponsored by the University of Sydney and the Society, in memory of J.A. Pollock, Professor of Physics at the University of Sydney (1899–1922) and a member of the Society for 35 years. In 2023, the Council designated it the Royal Society of NSW Pollock Award and Lectureship.

**Professor Joshi** has made ground-breaking contributions to mathematical modelling of nonlinear systems; particularly, innovative methods involving transcendental functions and Painlevé equations. Her research clarifies complex behaviours across various scales, significantly impacting fluid dynamics, nonlinear optics, and lattice theory. Recognised nationally and internationally, she is an Officer of the Order of Australia and has received multiple prestigious awards, including the George Szekeres Medal. She has supervised 18 PhD students and guided over 30 early-career researchers from across the world, earning the Eureka Prize for her commitment to mentoring. Joshi also founded the SAGE initiative, promoting gender diversity in STEM fields.

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### 2024 RSNSW Interdisciplinary Award

*Professor Katherine Boydell FASSA*

Awarded for distinguished research which spans across disciplines, conducted mainly in NSW. Council established the Royal Society of NSW Interdisciplinary Award in 2023 to reflect the full scope of the Society's founding values.

**Professor Boydell** is an internationally recognised leader in qualitative inquiry and arts-based knowledge translation in mental health and social care. She has a long-standing, successful history in the development of innovative methodological approaches to create knowledge and translate empirical research using arts-based methods. As the founder and lead of the Arts-based Knowledge Translation Lab, she has developed a coordinated strategy to transform consumer participation in mental health research, drawing on the arts to communicate public awareness of mental health, decreasing stigma, expanding the research

base and creating global partnerships in innovative, whole-of-community approaches to mental health and well-being.

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#### 2024 RSNSW Award in the Humanities, Philosophy and Law

*Scientia Professor Jane McAdam AO FASSA FAAL*

Awarded for distinguished research in any area of the Humanities, Philosophy and Law, excluding the History and Philosophy of Science, conducted mainly in NSW. Council established the Royal Society of NSW Humanities, Philosophy and Law Award in 2023 to reflect the full scope of the Society's founding values.

Displacement remains one of the biggest human-rights challenges of our time, with conflict, human-rights abuses, disasters and climate-change impacts having driven more than 100 million people from their homes globally. Much can be done to alleviate displacement and its human costs — if we act with clear leadership and strategic, solutions-oriented thinking. **Professor McAdam** is at the forefront of such thinking, working with governments, affected communities, civil society and international organisations to develop effective responses. Indeed, her pioneering research on climate mobility is directly influencing policy from Guatemala to Geneva and making a real difference for people on the ground.

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#### 2024 RSNSW Poggendorff Award and Lectureship in Agricultural and Environmental Science

*Professor Alexander McBratney AO FAA*

Awarded for distinguished research in any area of the Agricultural and Environmental Sciences, conducted mainly in NSW. The Poggendorff Award and Lectureship honours Walter Poggendorff, an eminent biologist and noted plant breeder in the 1930s and '40s, and his bequest to the Society to support a Lectureship. It was first awarded in 1987 and in 2023 Council designated it the Royal Society of NSW Poggendorff Award and Lectureship.

**Professor McBratney's** pioneering work in precision agriculture, and digital soil mapping has revolutionized soil science and agricultural practices, enhancing Australian agricultural productivity by at least \$60 million annually and reducing environmental impact. His revolutionary theories and models have transformed access to soil information for farmers which, in turn, informs advances in sustainable farming practices. Global uptake of his digital tools and training programs have strengthened soil care and fostered AgTech businesses worldwide. His contributions address soil erosion, salinisation, and acidification, improving food security and biodiversity while influencing international soil security policies.

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#### 2024 RSNSW Jak Kelly Award

*Mr David Sweeney*

The RSNSW Jak Kelly Award recognises excellence in postgraduate research in physics annually. The Award is supported by the Royal Society and the Australian Institute of Physics, NSW Branch. The winner is selected from presenters at each year's Australian Institute of Physics NSW Branch Postgraduate Awards, as advised to the Awards Committee of the Royal Society of NSW. The Jak Kelly Award was created in honour of Professor Jak Kelly

(1928–2012), who was Head of Physics at University of NSW from 1985 to 1989 and Honorary Professor of University of Sydney from 2004. He was President of the Royal Society of NSW in 2005 and 2006.

**Mr Sweeney** was awarded the Jak Kelly Prize for his excellence in postgraduate research in physics, and more specifically his work as a PhD student and lead author of “The Galactic underworld: the spatial distribution of compact remnants,” published in *Monthly Notices of the Royal Astronomical Society*, with others.

### Three 2024 RSNSW Bicentennial Early Career Research and Service Citations

The RSNSW Bicentennial Early Career Research and Service Citations are awarded each year to recognise outstanding contributions to research and service to the academic and wider community. Applicants must on 1 January of the year of nomination be no more than 5 years after the award of their PhD or equivalent by a university or other research institution in NSW or the ACT.

For 2024, three RSNSW Early Career Citations have been awarded:

- Dr **Cynthia Turnbull** — Australian National University
- Dr **Fei Deng** — UNSW Sydney
- Dr **Jen Matthews** — University of Technology Sydney

**Dr Turnbull** is a postdoctoral researcher at the John Curtin School of Medical Research, Australian National University (ANU). Her PhD with Professor Carola Vinuesa focused on the role of genetic mutations in severe autoimmune disease. Currently, she works in the laboratory of Professor Si Ming Man and studies the role of innate immunity in inflammation and cancer. Outside of the lab, Cynthia has a passion for teaching and science communication. She has provided guest lectures at ANU, been invited to present at Australian and international research institutes and conferences and has featured in several media articles and radio talk shows.

**Dr Deng** is currently a researcher in the Graduate School of Biomedical Engineering, UNSW. Dr Deng received his PhD (Biomedical Engineering, 2021) from UNSW. His research interests include point-of-care biosensing devices, CRISPR biosensing devices and in vivo biosensing devices. Dr Deng has published over 30 journal articles, including in *Nature Communications*. In addition, he has secured over \$10m in research grants. His biosensor research has been well recognised by industry, leading to a start-up company (Casbio Pty Ltd).

**Dr Matthews** is Deputy Team Leader of the Future Reefs Group at the University of Technology Sydney. Her research has transformed our understanding of coral nutrition and the physiology of corals in NSW, vital for local policy. Collaborating with Traditional Owners, she develops practical solutions to coral ecosystem challenges. With more than 50 invited presentations and 17 awards such as the 2023 NSW Tall Poppy Award, her global impact is clear. Jen has published 32 papers (*h*-index: 14) and secured 13 grants exceeding \$3.4m. Her commitment to science communication and mentoring was recognised by the 2021 Science Technology Australia Superstars of STEM program.

## Three 2024 RSNSW Bicentennial Postgraduate Scholarships

The RSNSW Bicentennial Postgraduate Scholarships are awarded each year to recognise outstanding achievements by young researchers in any academic field. Applicants must have completed an undergraduate degree within NSW or the ACT and must on 1 January of the year of nomination be enrolled as research students in the first or second year of their first higher degree at a university or other research institution in NSW or the ACT.

For 2024, three RSNSW Scholarships have been awarded:

- **Joel Sved** — University of Sydney
- **Linqing Tian** — UNSW Sydney
- **Muyang Li** — University of Sydney

The paper by **Joel Sved**, S. Song, Y. Chen, L. Zhou, R. Minasian, and X. Yi, “Machine learning assisted two-dimensional beam-steering for integrated optical phased arrays,” (*Optics Communications*, 540, 2023), introduces the first machine-learning-assisted method for achieving high-precision 2D beam-steering in optical phased arrays. This ground-breaking approach, designed to overcome fabrication imperfections, thermal crosstalk, and ambient temperature variations, was experimentally validated on a silicon-on-insulator (SOI) platform. The technique demonstrates significant potential for a wide range of applications, including LiDAR, imaging and sensing systems, free-space optical communications, as well as augmented and virtual reality technologies.

Leveraging her extensive expertise in polymer science and computational modelling, alongside her innovative approach to nanomedicine, **Linqing Tian** developed a novel drug-delivery system that enhances the delivery of therapeutic drugs without relying on organic solvents. This sustainable system, which uses sugars and amino acids, allows for the formation of nanomedicine in an aqueous environment. It streamlines the process by eliminating the need for multiple steps and enables precise control over nanoparticle size by adjusting the quantity of the added drug. Versatile and easy to adapt, this system is suitable for a wide range of therapeutic drugs.

**Muyang Li**'s academic records are impressive — only in his second year, he has thus far published 9 peer-reviewed articles in top conferences and journals of our area, his papers have been cited 130 times in the past two years. His research excellence has been recognised by different entities, such as Google Award for best poster in AI/ML from the University of Sydney and Google, outstanding reviewer award from ICLR 2024, finalist in the renowned Data Science PhD fellowship from Bloomberg, and he has been recommended by his school for the application of Apple Scholar for the round of 2025.

## Two 2024 Royal Society Service Awards

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### 2024 Royal Society Service of NSW Medal

The Royal Society of New South Wales Medal recognises an individual who has made meritorious contributions to the advancement of knowledge in any field and also to the Society's administration, organisation, and endeavours. The RSNSW Medal was first awarded in 1884, revived in 1943, and has been awarded periodically thereafter.

*Scientia Professor Emerita Eugenie Lumbers AM DistFRSN FAA*

Eugenie Lumbers researched and taught physiology and pharmacology at UNSW for 30 years, serving on its Council and becoming Scientia Professor in 2003. She was elected as a Fellow of the Australian Academy of Science in 2002 and received Membership in the Order of Australia in 2012. In 2006 she joined RSNSW, becoming a Fellow in 2010 and a Distinguished Fellow in 2011. A member of the RSNSW Council, she chaired the Society's Awards Committee at a critical time in 2020 and was the motivating force in the creation of the Hunter Branch of the Society in 2019, serving on its committee ever since.

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**2024 Royal Society of NSW Service Citation**

The Royal Society of New South Wales Citations recognise individuals who have made significant contributions to the Society, but who have not been recognised in any other way. The RSNSW Citation was first awarded in 2019.

*Ms C. Hannah Hibbert*

Hannah Hibbert is an accomplished archivist with formal credentials and roles as the archivist for the Australian Turf Club and, currently, the Sydney Opera House. Serving as the Honorary Archivist for the Royal Society of New South Wales from November 2019 to April 2024, Hannah played a key role in the Society's bicentenary exhibition and online listing of the Society's extensive archives. From 2011, Hannah volunteered countless hours investigating and documenting the material held by the Society at 121 Darlington Road, Darlington. This was a challenging task. In 2012, Hannah produced a spreadsheet that identified over 500 records and objects, with an assessment of their condition, significance, and a comprehensive set of notes where appropriate. Hannah continued to develop this over subsequent years in the period leading up to her appointment as Honorary Archivist. Hannah is President of the Australian Society of Archivists.





## Events in 2024

Meetings were held by the Society in five places: Sydney; Newcastle by the Hunter Branch; Mittagong by the Southern Highlands Branch; western NSW by the Western NSW Branch; and, as of November 2024, Armidale by the New England North West Branch.

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### 1319<sup>th</sup> OGM and Open Lecture

Emeritus Professor Roy Green AM FRSN, “Productivity: what it is, and why it matters,” 7 February, Metcalfe Theatre, State Library of NSW. (See the paper in this issue.)

<https://www.youtube.com/watch?v=kgKjzIphgeo>

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### Southern Highlands Branch Meeting 2024-1

Susannah Fullerton OAM FRSN, “Ten novels that changed the world,” 15 February 2024, RSL Mittagong, Carrington Room.

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### Hunter Branch Meeting 2024-1 with the Australian Decorative and Fine Arts Society

Dr Martina Mrongovius, “Exploring the Holographic,” 19 February, Hunter Theatre, Cameron Street, Broadmeadows, NSW

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### Annual Meeting of the Four Societies 2024

Vince Di Pietro AM CSC FRSN FRAeS FAICD, “Resilience before Readiness: ‘... for the want of a horseshoe nail,’” 21 February 2024, Metcalfe Theatre, State Library of NSW.

<https://www.youtube.com/watch?v=ubRWpOBC-qs>

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### Western NSW Branch Meeting 2024-1

Professor Shokoofeh Shamsi, “Parasites, Australia’s silent threat: coincidence, nature’s hand, or policy complacency,” 28 February 2024, Wagga Wagga campus (Riverina Playhouse), Charles Sturt University [https://www.youtube.com/watch?v=-Do4\\_hfx2Fs](https://www.youtube.com/watch?v=-Do4_hfx2Fs)

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### RSNSW 2024 Annual Dinner and Presentation of Awards

1 March 2024, Strangers’ Room, Parliament House, Sydney.

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### Ideas@theHouse: March 2024

John Bell AO OBE, “Shakespeare on politics — what can we learn?” 6 March 2024, Government House, Sydney. (See the paper in this issue.)

<https://www.youtube.com/watch?v=-VOo7eEpIpk>

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### RSNSW 2023 Student and Early Career Research Award Presentations

Dr Jaime Alvarado-Montes, Macquarie; Ms Sasha Bailey, Sydney; Mr Jayden McKinnon, Wollongong; Dr Jacinta Martin, Newcastle; Dr Abhimanu Pandey, ANU; Dr Shoujin Wang, UTS. 13 March 2024, Western Sydney University Parramatta South Campus, Old Female Orphan School.

### Hunter Branch Annual General Meeting 2024

21 March 2024, Zoom webinar.

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### Southern Highlands Branch Meeting 2024-2

Professor Allen Nutman, “The antiquity of life: Oldest (3.7 billion years old) stromatolite fossils discovered in Greenland,” 21 March 2024, RSL Mittagong, Carrington Room.

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### Frontiers of Science Forum 2024

Prof John Mattick, UNSW Sydney; Dr Renee Goreham, University of Newcastle; Prof Katrina Jolliffe, University of Sydney; Assoc Prof Richard Garner, Macquarie Univ. “Exploring major discoveries and theories in physics, mathematics, biology, and chemistry,” 22 March 2024, Concord Golf Club, 190 Majors Bay Road, Concord.

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### Western NSW Branch Meeting: 2024-2

Professor Alan Cooper, “Out of Arabia: how ancient human history gave us modern lifestyle diseases,” 10 April 2024, Port Macquarie campus (Building 802, Room 2330/7, Major Innes Road), Charles Sturt University.

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### Hunter Branch Meeting 2024-2

Honorary Professor Michael Mahony AM, “Conservation, frogs, and citizen science,” 11 April 2024, King Street Room, NEX, Newcastle Exhibition and Convention Centre.

[https://www.youtube.com/watch?v=zS2dIJ\\_bitc](https://www.youtube.com/watch?v=zS2dIJ_bitc)

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### 1320<sup>th</sup> OGM and Open Lecture

Emeritus Professor Peter Shergold AC FRSN FASSA and Professor Kirsty Muir “Putting the ‘Civil’ Back in Civil Society,” 17 April 2024, Metcalfe Theatre, State Library of NSW.

<https://www.youtube.com/watch?v=BvPjaXBcQNo>

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### Southern Highlands Branch Meeting 2024-3

Professor Fred Watson AM, “Webb’s wondrous window on the Universe,” 18 April 2024, RSL Mittagong, Carrington Room.

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### 1321<sup>st</sup> OGM and Open Lecture

Scientia Professor Kaarin Anstey FRSN FASSA FAHMS, “Brain Health Equity — a new frontier for healthy longevity,” 1 May 2024, Zoom webinar.

<https://www.youtube.com/watch?v=lOZdiWzCKi4>

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### Joint RSNSW and State Library of NSW Special Event: May 2024

Emeritus Professor Dennis Reinhartz and Emeritus Professor Robert Clancy AM FRSN “On the history of Russian conflict with Ukraine,” 3 May 2024, Maps Room, State Library of NSW.

### Southern Highlands Branch Meeting 2024-4

Distinguished Professor Anatoly Rozenfeld FRSN, “Latest advances in radiation therapies for cancer,” 16 May 2024, RSL Mittagong, Carrington Room.

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### 1322<sup>nd</sup> OGM and Open Lecture

Professor Pall Thordarson FRSN, “RNA and me: from the origins of life and nanomedicine to building an RNA ecosystem,” 5 June 2024, Dixson Room, Mitchell Building State Library of NSW. <https://www.youtube.com/watch?v=8CbHmRo2gHs>

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### Joint AIP, RACI, RSNSW, and ANSTO Event: June 2024

Professor David Cohen FTSE FAIP, “Electrifying discoveries: using particle accelerators to research air pollution, radiobiology, and electronic chips that go into space,” 18 June 2024, ANSTO, New Illawarra Road, Lucas Heights.

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### Southern Highlands Branch Meeting: 2024-5

Dist. Professor Gordon Wallace AO FAA FTSE FRSN, “Getting technological advances into the clinic — things I wish I’d known 20 years ago!” 20 June 2024, RSL Mittagong, Carrington Room.

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### Western NSW Branch Meeting: 2024-3

Professor Muhammad J. A. Shiddiky, “Onsite and POC Testing: Improving biomedical and agricultural diagnostics and analysis,” 26 June 2024, Orange campus (Building 1008, Room 206), Charles Sturt University. [https://www.youtube.com/watch?v=r\\_lgL8otTVo](https://www.youtube.com/watch?v=r_lgL8otTVo)

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### 1323<sup>rd</sup> OGM and Open Lecture

Professor Sir Michael Marmot CH FRCP FFPHM FMedSci FBA, “Social Justice and Health Equity,” 3 July 2024, Zoom webinar. <https://www.youtube.com/watch?v=yDiI9csMHmI>

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### Ideas@theHouse: July 2024

Julie Inman Grant, eSafety Commissioner, “W × 3 — The World Wide Web (we weaved),” 18 July 2024, Government House Sydney. (See the paper in this issue.)  
<https://www.youtube.com/watch?v=nSFVrIugy3E>

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### Southern Highlands Branch Meeting 2024-6

Dr Brad Tucker, “Space Race 2.0.” Scheduled for 18 July 2024, this event was cancelled.

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### Hunter Branch Meeting 2024-3

Laureate Professor Clare Collins AO, “Are you what you eat? Discovering the science of personalised nutrition,” 19 July 2024, The University Conservatorium, Laman Street, Cooks Hills, Newcastle. <https://www.youtube.com/watch?v=Pp4MlY7IEYg>

### 1324<sup>th</sup> OGM and Open Lecture

Medy Hassan OAM FRSN (Facilitator) together with an expert panel, “Our Housing Crisis: Dissolving Barriers and Delivering Solutions,” 7 August 2024, Metcalfe Theatre, State Library of NSW. <https://www.youtube.com/watch?v=lpS336YRooY>

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### Southern Highlands Branch Meeting 2024-7

Professor Carolyn Hogg FRSN, “Biodiversity, bilbies, and battling extinction,” 15 August 2024, RSL Mittagong, Carrington Room.

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### Western NSW Branch Meeting: 2024-4 (joint with Charles Sturt University)

Professor Leslie Weston FAA, “Adapting to change — invasive plants and pests take up the challenge,” 28 August 2024, CSU Riverina Playhouse, 8 Cross Street, Wagga Wagga. <https://www.youtube.com/watch?v=YvzNyOjdHpQ>

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### Joint UNE and RSNSW Presentation

Professor Yihong Du FAA, “Mathematics for propagation and the spreading of species,” 3 September 2024, NOVA, 122 Faulkner Street, Armidale. <https://www.youtube.com/watch?v=8qv9icmeOLA>

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### 1325<sup>th</sup> OGM and Open Lecture

Emeritus Professor Bruce Chapman AO FASSA, “HECS-HELP: History, effects, international comparisons, and the University Accord,” 4 September 2024, Zoom webinar. <https://www.youtube.com/watch?v=XWDeQDm-lTU>

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### Southern Highlands Branch Meeting 2024-8

Scientia Professor Gordon Parker AO FASSA FAHMS, “Secrets of ageing with resilience,” 19 September 2024, RSL Mittagong, Carrington Room.

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### 1326<sup>th</sup> OGM and Open Lecture

Dr Anne Coote, Historian and Author, Book Launch: The RSNSW origin story, 2 October 2024, Metcalfe Theatre, State Library of NSW. (See the papers in this issue.) [https://www.youtube.com/watch?v=To\\_QQ2Fb-mc](https://www.youtube.com/watch?v=To_QQ2Fb-mc)

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### Southern Highlands Branch Meeting 2024-9

Professor Michael Kassiou FRACI FRSC FAFMC FSRS, “The Chemistry of Social Anxiety,” 7 October 2024, RSL Mittagong, Carrington Room.

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### First of the Lunchtime series: Provocations and Inspirations

Dr Ken Henry AC, “Inequality in Australia,” 22 October 2024, Union University and Schools Club, 25 Bent Street, Sydney. (See the paper in this issue.) <https://www.youtube.com/watch?v=8RUUFewI-e4>

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### Western NSW Branch Meeting 2024-5

Distinguished Professor Sarah O’Shea, “Equity within the Academy: Rethinking the ‘why’ of higher education,” 23 October 2024, CSU Dubbo Campus Bldg 901, Room 121, 8 Tony McGrane Place, Dubbo. <https://www.youtube.com/watch?v=nDwirsuLN4w>

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### Hunter Branch Meeting 2024-4

Professor Francesco Paolucci, “How can we afford the healthcare system of our dreams?” 24 October 2024, Vivid Room, NEX, Newcastle Exhibition and Convention Centre. <https://www.youtube.com/watch?v=Ftgwzlz3fsU>

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### Ideas@theHouse: October 2024

Professor Tim Stephens FAAL, “The big thaw: who governs Antarctica’s ice?” 31 October 2024, Government House Sydney, and live stream. [https://www.youtube.com/watch?v=XiHTYy5\\_dfw](https://www.youtube.com/watch?v=XiHTYy5_dfw)

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### 1327<sup>th</sup> OGM and Open Lecture

Dr Abul Rizvi PSM, “Australian immigration policy and the Federal election,” 6 November 2024, Zoom webinar. <https://www.youtube.com/watch?v=29-UwSoebOg>

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### RSNSW and Learned Academies Forum 2024

“Threats to democracy,” 14 November 2024, Government House, Sydney. (See the papers in the June 2025 issue.) <https://www.youtube.com/playlist?list=PLYFFwCGj2FIZlvYa8S8dFlDottMW7nU6V>

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### Southern Highlands Branch Meeting 2024-10

Vince Di Pietro AM CSC FRSN, “Community Resilience and National Readiness,” 21 November 2024, RSL Mittagong, Carrington Room.

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### Launch and Inaugural Meeting of the New England North West Branch

Dr Amy Moss and Dr Marissa Betts, ARC DECRA Fellows, “Women in STEM,” 25 November 2024, NOVA, 122 Faulkner Street, Armidale, and live stream. [https://www.youtube.com/watch?v=jEe7w5vJJ\\_Q](https://www.youtube.com/watch?v=jEe7w5vJJ_Q)

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### 1328<sup>th</sup> OGM, Open Lecture and Christmas Party

Scientia Professor Helen Christensen AO FASSA FAHMS, “Social media and smartphones for youth: What’s the story?” 4 December 2024, Metcalfe Theatre, State Library of NSW. <https://www.youtube.com/watch?v=T-l3MBJz6Bo>

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## Note on Gazetting

The Government Gazette of the State of New South Wales is managed by the New South Wales Parliamentary Counsel's Office and has published Government notices, regulations, forms and orders since 1832. It went on line in 2001 and since 2014 is only to be found at <https://legislation.nsw.gov.au/gazette>.



## Government Gazette

of the State of  
New South Wales

Number 266 - Other  
Friday, 12 July 2024

On the initiative of RSNSW Fellow Robert Whittaker AM FRSN, the Society approached His Excellency the Governor to formally gazette fellows of the Society. All current fellows were included in the first gazetting in 2018, and subsequently at the beginning of each year fellows elected in the previous year will appear in the Gazette.

As the Gazette of Friday 12 July 2024 says:

“Her Excellency the Honourable Margaret Beazley AC KC, Governor of New South Wales, as Patron of The Royal Society of New South Wales and in furtherance of the aims of the Society in encouraging and rewarding the study and practice of Science, Art, Literature and Philosophy, is pleased to advise and acknowledge the election of the following as Fellows of the Society in 2023.”

## Fellows

Proven leaders and experts in their field, entitled to use the post nominal FRSN. Please note Professorial titles — including adjuncts, conjoint, and professors of practice — have been used where applicable. Details as to their field of expertise, their resident university (or universities) or institution may be ascertained from the Royal Society of New South Wales.

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BROPHY, Dr Joseph John FRSN

ASHBURN, Professor Elizabeth Anne OAM FRSN

CAIN, Associate Professor Amy Katherine FRSN

BERAN, Professor Roy Gary AM FRSN

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BITSIKA, Professor Vicki F AM FRSN

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CRIPPS, Professor Sally Ann FRSN  
CROUCHER, Professor Rosalind Frances AM FRSN  
DINGER, Professor Marcel Eduard FRSN  
ETHERIDGE, Mr Lionel FRSN  
GREENHILL, Professor Catherine FRSN  
GRIFFITHS, Associate Professor Kalinda FRSN  
GUO, Professor Yingjie Jay FRSN  
HOLDEN, Professor Richard FRSN  
KARTON, Professor Amir FRSN  
LANGFORD, Professor Steven James FRSN  
LI, Dr Jiao Jiao FRSN  
LOVEGROVE, Professor Kim RML MSE (Ethiopia) FRSN  
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MAN, Professor Si Ming FRSN  
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MILLER, Professor David Philip FRSN  
MILLS, Professor Anthony John FRSN  
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SHARPLEY, Professor Christopher F FRSN  
SIMMONS, Professor Craig Trevor FRSN  
TALLEY, Professor Nicholas Joseph AC FRSN  
TEESSON, Professor Maree Rose AC FRSN  
UPTON, The Hon Gabrielle Cecelia FRSN  
UY, Professor Brian FRSN  
WARD, Professor Christopher Morice FRSN  
WATSON, Professor Stephanie Louise OAM FRSN  
WILLIAMS, Dr Alan Nicholas FRSN  
WILLIAMS, Dr Robyn AO FRSN  
WOOD, Professor Robert Eric FRSN

## Distinguished Fellows

Those Fellows of exceptional distinction, elected in 2020 by their peers, entitled to use the post nominal DistFRSN.

SLOAN, Professor Ian Hugh AO DistFRSN



# The Royal Society of New South Wales



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