



## Royal Society of New South Wales 2021

### Meetings 2021

Meetings held by the Society in Sydney, in Newcastle by the Hunter Branch, in Mittagong by the Southern Highlands Branch, and in western NSW by the Western NSW Branch.

### Sydney Meetings

The program below lists monthly Ordinary General Meetings and the Annual Forum of the Royal Society and Four Academies. In addition to these events, there are three named lectures, associated with the Society's 2020 Awards: Clarke Lecture — Distinguished Professor Michelle Leishman (Macquarie University), Liversidge Lecture — Professor Richard Payne FRSN (University of Sydney), and Poggendorf Lecture — Professor Angela Moles FRSN (UNSW Sydney), together with another lecture in the Ideas@theHouse series, and the Society's contributions to Science Week 2021.

#### 3 February

1290<sup>th</sup> Ordinary General Meeting and Open Lecture: 2020, Jak Kelly Award and RSNSW Scholarship Winner Presentations:

Controlling how electrons move in silicon at the atomic scale, *Mr Matthew Donnelly* — Jak Kelly Award Winner, PhD Student, Centre for Quantum Computation and Communication Technology, UNSW (Sydney).

3D Printing for Microfluidics (TBC), *Mr Sajad Razavi Bazaz* — RSNSW Scholarship Winner, PhD Student, School of Biomedical Engineering, University of Technology Sydney.

Molecular mechanisms of inflammasome activation by enterotoxins of the foodborne pathogen *Bacillus cereus*, *Mr Daniel Fox* — RSNSW Scholarship Winner, PhD Student, John Curtin School of Medical Research, Australian National University.

Improving the treatment of Post-traumatic Stress Disorder in refugees: The important role of emotion regulation, *Ms Phillipa Specker* — RSNSW Scholarship Winner, PhD Student, School of Psychology, UNSW (Sydney).

#### 17 February

Annual Meeting of the Four Societies 2021. A joint meeting of the Australian Institute of Energy, the Australian Nuclear Association, the Sydney Division of Engineers Australia, and the Royal Society of NSW: UN Sustainable Development Goals (SDGs) and the Role of Nuclear Technology, presented by Ms Lenka Kollar, Co-founder, Helixos.

*24 February*

Stewardship of Country, from the Royal Societies of Australia: Stewardship of Country: The Common Ground — A Convergence of Traditions, Presented jointly by the Royal Societies of Australia and Inspiring Australia Victoria. Presentations by: *Adjunct Associate Professor Mary Graham* of The University of Queensland (Keynote), *Professor Peter Bridgewater* of the Australian National University, the University of Canberra and Beijing Forestry University, *Mr David Pollock* of Wooleen Station, *Mr Justin O'Brien*, *Dr Chris Brady* and *Mr Peter Christopher* of Gundjeihmi Aboriginal Corporation.

*3 March*

129<sup>th</sup> Ordinary General Meeting and Open Lecture: What are the best options for growing Australia's mental health through the COVID-19 recovery? *Professor Ian Hickie* AM FRSN FASSA FAHMS, Co-Director (Health and Policy), Brain and Mind Centre, University of Sydney.

*10 March*

Stewardship of Country, from the Royal Societies of Australia: Stewardship of Country: Resilience, regeneration and escaping the iron law of business-as-usual, Presented jointly by the Royal Societies of Australia and Inspiring Australia Victoria. Presentations by: *Dr Nicholas Gruen*, CEO, Lateral Economics (Keynote), *Ms Carolyn Hall*, The Mulloon Institute, *Ms Jody Brown*, La Trobe Station, *Mr Nigel Sharp*, Odonata.

*24 March*

Stewardship of Country from the Royal Societies of Australia. Presented jointly by the Royal Societies of Australia and Inspiring Australia Victoria. Presentations by: *Dr Anne Poelina*, Martuwarra Fitzroy River Council and University of Nore Dame (Keynote), *Professor Kingsley Dixon*, Curtin University, *Dr Michelle Maloney*, Australian Earth Laws Alliance, Griffith University, *Mr Barney Foran*, Charles Stuart University.

*7 April*

154<sup>th</sup> Annual General Meeting; 129<sup>th</sup> Ordinary General Meeting and Open Lecture: Antarctica, this ain't no mirage: The value of art in disseminating scientific information, *Lea Kannar-Lichtenberger*, Artist, exploring connections between science and art practice.

*14 April*

Inaugural David Cooper Lecture (UNSW): From the HIV/AIDS epidemic to the COVID-19 pandemic, what have we learnt and what do we still need to learn? *Dr Anthony S. Fauci*, Director, US National Institute of Allergy and Infectious Diseases.

*5 May*

129<sup>th</sup> Ordinary General Meeting and Open Lecture: Big, bad fires in NSW, *Emerita Professor Mary O'Kane* AC FRSN FTSE HonFIEAust, Chair, Independent Planning Commission of NSW and former Chief Scientist and Engineer of NSW.

*2 June*

1294<sup>th</sup> Ordinary General Meeting and Open Lecture: Murray-Darling Basin turmoil: past, present and future *Professor Richard Kingsford* FRSN, Director, Centre for Ecosystem Science, School of Biological, Earth and Environmental Sciences, UNSW (Sydney).

*7 July*

1295<sup>th</sup> Ordinary General Meeting and Open Lecture: Society as an information-processing system, and the influence of the media *Dr Erik Aslaksen* FRS, Director, Systems Engineer, and Author.

*22 July*

Ideas@theHouse: July 2021: Music as a Superfood: How music can help us live longer, sleep better, calm down, find flow, and feel happier, *Greta J. Bradman*, Writer, broadcaster and psychologist.

*4 August*

1296<sup>th</sup> Ordinary General Meeting and Open Lecture: An intimate history of evolution: From genesis to genetic with a scientific dynasty, *Professor Alison Bashford* FRSN FAHA FBA FRHistS, Faculty of Arts and Social Sciences, UNSW (Sydney).

*24 August*

2021 Clarke Lecture of the Royal Society of NSW: From bulldozers, pests, and pathogens to climate change and urban futures: the tough life of plants, *Distinguished Professor Michelle Leishman*, Director, Smart Green Cities, Macquarie University.

*25 August and 15 September*

Our Energy Future: The Unrecognised Opportunity in Glasgow — In Two Acts Part 1: Context and Castles, Part 2: Crushed Rocks. *Dr Saul Griffith* FRSN, including a conversation with *Dr Adi Paterson* FRSN

*1 September*

1297<sup>th</sup> Ordinary General Meeting and Open Lecture: Taking humour and laughter seriously: Exploring the multi-disciplinary field of humour studies, *Dr Jessica Milner Davis* FRSN, Honorary Associate, School of Literature, Art and Media, University of Sydney.

*6 October*

1298<sup>th</sup> Ordinary General Meeting and Open Lecture: Privacy and identity in an AI world, *Scientia Professor Toby Walsh* FAA FACM FAAAS, School of Computer Science and Engineering, UNSW (Sydney).

*4 and 5 November*

Royal Society of NSW and Learned Academies Annual Forum: Power and Peril of the Digital Age [see discussions in the June 2022 issue].

*1 December*

1299<sup>th</sup> Ordinary General Meeting and Open Lecture: Managing psychological distress in times of stress: handling the stress of COVID-19 and all that, *Scientia Professor Richard Bryant* AC FASSA FAA FAHMS — James Cook Medal Winner 2020, School of Psychology, UNSW (Sydney).

**Hunter Branch Meetings**

*26 May*

Hunter Branch Meeting 2021-1 and Lecture Jointly with the University of Newcastle as part of the Looking Ahead — In Conversation Series: On readying our region for low emissions technology *Dr Alan Finkel* AO FAA FTSE, Former Chief Scientist of Australia.

*30 June*

Hunter Branch Meeting 2021-2 and Lecture: Extreme bushfires and the age of violent pyro-convection, *Professor Jason Sharples*, Director, Bushfire and Natural Hazards CRC, UNSW Canberra.

*25 August*

Hunter Branch Meeting 2021-3 and Lecture: Royal Commission for Ageing and the care and welfare of the elderly, *Professor Kathy Eagar*, Director, Australian Health Services Research Institute University of Wollongong.

*29 September*

Hunter Branch Meeting 2021-4 and Lecture: Mr Nathan Towney, Pro Vice-Chancellor (Indigenous Strategy and Leadership) University of Newcastle.

**Southern Highlands Branch Meetings**

*18 February*

Southern Highlands Branch Lecture 2021-1: The five islands off Port Kembla — a historical and ecological study, *Dr Kevin Mills*, Botanist and Ecologist.

*18 March*

Southern Highlands Branch Lecture 2021-2: The general development of the Sydney Basin Coast and its recent history since the last ice age, *Dr Howard Brady*.

*15 April*

Southern Highlands Branch Lecture 2021-3: Particle radiation therapy and human space exploration: commonality in challenges and solutions, *Professor Anatoly Rosenfeld*, University of Wollongong.

*20 May*

Southern Highlands Branch Lecture 2021-4: Burnout — the hottest issue, *Professor Gordon Parker* AO, *Scientia Professor of Psychiatry*, UNSW Sydney.

*17 June*

Southern Highlands Branch Lecture 2021-5: Reach for the Skies, *Max La Galle*, Materials science student, UNSW (Sydney).

*15 July*

Southern Highlands Branch Lecture 2021-6: Neutron scattering and the ANSTO WOMBAT project, *Dr Helen Maynard-Casely*, Instrument Scientist, ANSTO.

*19 August*

Southern Highlands Branch Lecture 2021-7: Transgenerational Epigenetics, *Alyson Ashe*.

### **Western NSW Branch Meetings 2021**

*19 October*

Western NSW Branch Meeting 2021-1: With the Falling of Dusk, *Professor Stan Grant*, Vice-Chancellor's Chair of Australian-Indigenous Belonging, Charles Stuart University.

### **Awards 2021**

#### **Royal Society of NSW Citation**

*The Honourable John Dowd AO QC FRSN*

Having previously served in prominent roles in the NSW Parliament, in 2002, The Honourable John Dowd AO QC FRSN was elected as Chancellor of Southern Cross University, serving until his retirement in 2014. In 2005, he was appointed Protection Ambassador for ActionAid Australia (previously AUSTCARE) and became a Director of the organisation in 2008 and President in 2009. In May 2011, Dowd launched The Justice Campaign in a show of support for human rights and justice with a focus on alleged abuses at Guantanamo Bay, Abu Ghraib and elsewhere with a particular focus on David Hicks. John Dowd provided the Royal Society of NSW with outstanding service in 2020 when he provided pro bono extensive legal advice over an extended period of time on the revision of the Society's Rules which had not been comprehensively reviewed since 1968. This exercise was complex and extensive and involved liaison with a wide range of members of the Society. It resulted in a modernised set of Rules which will stand the Society in good stead for many years to come. This outcome could not have been achieved without his input.

*Mr Hubert Regtop MRSN*

Hubert Regtop MRSN is a biochemist and microbiologist with a Master of Science from the University of NSW (1973). He has a long and esteemed career as a university lecturer, research fellow and research director of publicly listed companies, receiving multi-million-dollar grants, and responsible for hospital funded projects and partnerships with Universities in the US and UK. In the mid-nineties, he was responsible for introducing standardised herbs in Australia. As a director of Trilogie Pty Ltd, established in 1994, he currently consults and lectures to the major health food companies, doctors and pharmacists in Australia, on the role of nutrition in medicine. He has authored twenty-two publications and has had

twenty-three patents approved. He has been a long-standing Chairman of the Society's Southern Highlands Branch to which he has made a significant contribution over ten years maintaining an active branch with a strong events program.

### **The James Cook Medal**

*Scientia Professor Rose Amal*, Scientia Professor of Chemical Engineering, UNSW, Sydney.

Professor Amal AC FRSN FTSE FAA FRACI HonFIEAust FICHEM FRSN is an acknowledged international leader in the field of chemical engineering. Her research has changed the way in which the properties of catalysts are understood, with her scientific breakthroughs in catalysis leading to real-world applications for sustainable environment and energy applications. In particular, she is renowned for her photocatalysis breakthroughs for large-scale industrial water treatment, and the generation of “clean hydrogen,” i.e. production of hydrogen from water using solar energy powered by an electrolyser, including the generation of hydrogen directly from seawater. Her contributions to science and human welfare in and for the Southern Hemisphere have been extensive.

### **The Edgeworth David Medal**

*Dr Lining Arnold Ju* ARC DECRA Fellow, Faculty of Engineering, University of Sydney.

Dr Lining Arnold Ju BSc, PhD employs innovative and cutting-edge research in mechanical engineering and biomechanics to open new avenues to diagnose, monitor and treat blood-clotting diseases. In just 8 years since his PhD award and under 35 years of age, he has been an ARC DECRA Fellow, Heart Foundation Future Leader Fellow and won awards such as the MIT TR35 Innovator, Australian Museum Eureka Prize and NSW Young Tall Poppy. His academic standing is on a steep upward trajectory nationally and internationally. He is now spearheading his own Cardiovascular Biomechanics Lab for organ-on-chip blood clot assessment and developing future cardiovascular point-of-care tests and telehealth microdevices.

### **The Clarke Medal and Lecture (Zoology)**

*Laureate Professor (David) John Aitken*, College of Engineering, Science and Environment,, University of Newcastle.

Laureate Professor John Aitken PhD, ScD, FRSN, FSRB, FAHMS, FRSE, FAA is a global leader in reproductive biology and the 2012 NSW Scientist of the Year. Based at the University of Newcastle, he is President, International Society of Andrology, Director of the Priority Research Centre in Reproductive Science and Professor of Biological Sciences. Professor Aitken heads up a research team that is making significant inroads into human and animal reproductive issues. His research achievements include identifying a major cause of male infertility that has resulted in new methods of therapeutic intervention and the development of a contraceptive that would prevent pregnancy and inhibit the spread of sexually transmitted diseases. He currently has an active program of research to develop non-surgical methods of sterilization for domestic and feral animals. Nationwide, the damage done by vertebrate pests to Australian biodiversity and agricultural productivity amounts to \$1 billion per annum. In response to this need, Professor Aitken's research group has developed a

technology for the non-surgical sterilization of mammalian species that opens up a market worth billions of dollars per annum.

### **Poggendorff Lectureship**

*Professor Richard Trethowan*, Director, IA Watson Research Centre, Narrabri Plant Breeding Institute, School of Life and Environment Sciences, University of Sydney.

Professor Richard Trethowan PhD is a world-leading plant breeder. His work improved our understanding of the genetic control of heat resistance in wheat, an important trait globally, and he contributed significantly to the development of new technologies including hybrid wheat systems and the application of genomic selection to plants. His work led to the development of unique genetic wheat strains that have impacted the productivity of agricultural systems in many countries. These impacts include release of wheat cultivars to farmers from his experimental materials either directly, through their use as parents or the application of knowledge generated from his research.

### **Pollock Memorial Lectureship**

*Professor Geraint Lewis*, Professor of Astrophysics, Sydney Institute for Astronomy, School of Physics, University of Sydney.

As an outstanding researcher, Professor Geraint Lewis PhD FRSN FLSW focuses on cosmological mysteries. Through exquisite and extensive observations with the world's largest telescopes coupled with synthetic universes generated on immense super computers, he hunts for the dark side — the dark matter and dark energy that shape the cosmos. With significant discoveries that confront our ideas on the formation and evolution of galaxies, he has published extensively in international journals. His passion for cosmology and physics is reflected in his teaching and student supervision, as well as an extensive outreach program which brings the mysteries of the universe to diverse international audiences.

### **History and Philosophy of Science Medal**

*Professor Dean Rickles*, Professor of History and Philosophy of Modern Physics, University of Sydney.

Professor Dean Rickles PhD has made seminal contributions to both the history and the philosophy of modern physics, creating two-way traffic from conceptual and philosophical issues to historical ones. His work has been used and praised by philosophers, historians, and physicists alike. In particular, he has been a central figure in the emerging field of history and philosophy of quantum gravity (the as yet unknown theory that would treat our two great fundamental theories of physics, general relativity and quantum theory, in a single framework), and has driven much of the current research landscape. He has been responsible for many firsts, including the first detailed histories of string theory, praised by its chief architect (John Schwarz), and of quantum gravity, and the first philosophical papers on dualities and loop quantum gravity.

### **Warren Prize (Medal and Lectureship)**

*Dr. Noushin Nasiri*, Senior Lecturer, School of Engineering, Macquarie University.

Dr Noushin Nasiri PhD combines multidisciplinary techniques in the field of nanomaterials, nanoelectronics, and chemistry to develop innovative nanomaterials that transform nanosensing technologies. Her work has already resulted in practical, beneficial outcomes, such as the world's first wearable sensor, capable of differentiating between UVA and UVB rays, that alerts users in real time to over-exposure to UV radiation. The technology is tailored for individuals, taking into account different skin types when calculating sun-safe limits. Dr Nasiri heads Macquarie University's NanoTech Laboratory with a team of 10 researchers. Just four years after earning her PhD, she has co-authored 42 papers in high impact journals, 19 as first author, collectively earning 1200 citations, and an *h*-index of 21 and *i10*-index of 25. She is a NSW Young Tall Poppy, a 2021–2022 Superstar of STEM, a 40 Under 40 Most Influential Asian-Australian Leaders, and has presented her research at high-profile events including TEDx Sydney, TEDx Macquarie University, TEDx Bligh Street and on ABC radio's ABC Ockham's Razor.

### The Jak Kelly Award

*Zain Mehdi*, PhD Candidate, The Australian National University.

Zain's research investigates quantum physics in the mesoscopic regime — the intermediate scale between the microscopic world of individual atoms and the macroscopic world of classical objects. Their work focuses on theoretical investigations of exotic phenomena, such as superfluidity and turbulence, in cold atom systems.

### Royal Society Scholarships (Ranked)

#### 1. *Sajad Moshizi*, PhD Candidate, Macquarie University

Sajad Moshizi is conducting the development of hair-cell sensors for using inside the semi-circular canals in the inner ear to treat patients suffering from balance problems and gaze instability. He is a recipient of the Biomolecular Discovery Research Centre (BDRC) Postgraduate Prize, the best internationally peer-reviewed paper by a postgraduate student as first author accepted for publication ("Development of an ultrasensitive, and flexible piezoresistive flow sensor using vertical graphene nanosheets," *Nano-Micro letters* (IF=16.419), Volume 109, Issue 12, 2020, DOI: 10.1007/s40820-020-00446-w). He is a recipient of Macquarie University Postgraduate Research Fund (PGRF) scheme up to \$3000 and has more than 30 peer-reviewed journal articles, Total citations:618, *h*-Index:13, *i10*-Index:19.

#### 2. *Harry Marquis*, PhD Candidate, University of Sydney.

Harry Marquis is a PhD candidate at The University of Sydney, School of Physics. His research is primarily conducted at the Department of Nuclear Medicine, Royal North Shore Hospital, under the supervision of Professor Dale Bailey. His project is titled "Development of a Dosimetry Platform for Theranostic Agents." His key research interests are in quantitative PET and SPECT imaging, diagnostic medical imaging and image processing, theranostics and radionuclide therapy dosimetry, radiobiology and radiation safety. Harry's research has already gained international recognition. In 2020, Harry received the Arthur Weis Award for "Outstanding original work in radiation safety and dosimetry" from the Society of Nuclear Medicine and Molecular Imaging (SNMMI). In 2021, Harry's work was featured in the



SNMMI plenary lecture highlights “Basic Science Instrumentation & Data analysis: Image Generation” session and was also shortlisted for the best poster award in the physics track. His paper titled “Theranostic SPECT reconstruction for improved resolution: application to radionuclide therapy dosimetry” was published in the *European Journal of Nuclear Medicine and Molecular Imaging* in February 2021 and has received 2 citations.

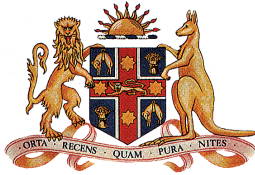
3. *Kevin (The Huong) Chau, Master of Research candidate, Macquarie University.*

Kevin joined the Analytical Glycoimmunology team at Macquarie University (MQ) in April 2018 as an undergraduate volunteer to study the removal of synapses by microglial receptors in the brain during sleep. After completing his course work to near-perfection (GPA 6.4/7.0), he decided to complete a Master of Research (MRes) degree focusing on platelet glycobiology. He is only months away from completing this degree. During the past 3–4 years he has shown an immense potential and talent, demonstrated, for example, by the award of multiple prestigious scholarships and awards during his coursework progress, including the inaugural Amgen Scholars Program at the University of Melbourne (2020), the Molecular Sciences Prize for Excellence in the MRes Year 1 (2020), Le Fevre Memorial Prize for proficiency in 200-level Physical Chemistry units (2018) and Macquarie University 2018 Merit List: top 1% highest achieving student (2018). Further, he secured the highly competitive International Macquarie University Research Excellence Scholarship (iMQRES-MRES) in 2020 to support his studies at MQ.

Kevin’s MRes research focuses on mapping the glycoproteome of human platelets. He has also presented a poster with his own data at the 18<sup>th</sup> World Congress HUPO Adelaide 2019, one of the most renowned international conferences in the field. Kevin has also shown that he is a great scientific communicator and mentor for junior students. As a Peer Assisted Learning (PAL) Leader during his Undergraduate program, he provided valuable guidance for first- and second-year students who find the basic concepts in the biomolecular sciences challenging.

## 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://www.legislation.nsw.gov.au/#/gazettes>.



## *Government Gazette*

of the State of  
New South Wales  
**Number 59–Other**  
**Friday, 12 February 2021**

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 February 2021 says:

“Her Excellency, The Honourable Margaret Beazley AC QC, 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 and Distinguished Fellows of the Society in 2020.”

## 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.

ANSLEY, Professor Kaarin Jane Ansley FRSN

BALLEINE, Professor Bernard Walter Balleine FRSN

BARTLETT, Professor Stephen Douglas Bartlett FRSN

BARTON, Dr Noel Geoffrey Barton AM FRSN

BIZO, Professor Lewis Albert Bizo FRSN

BLAKERS, Professor Andrew William Blakers FRSN

BOULTON, Emeritus Professor Thomas John Boulton AM FRSN

CARE, Professor Robert Frank Care AM FRSN

CHOW, Dr Edith Chow FRSN

COHEN, Dr Graeme Laurence Cohen FRSN

COLLINS, Professor Clare Elizabeth Collins FRSN

CONSTABLE, Professor Ian Jeffrey Constable AO FRSN

CRESSIE, Professor Noel Andrew Campbell Cressie FRSN

CUTCHER, Professor Leanne Rose Cutcher FRSN

DE GRAAF, Associate Professor Simon Paul de Graaf FRSN

DEANE, Dr Elizabeth Margaret Deane FRSN

DOWD, The Honourable John Robert Arthur Dowd AO QC FRSN

DUNCAN, Emeritus Professor Annabelle Duncan PSM FRSN

ESSELLE, Distinguished Professor Karu Priyathama Esselle FRSN

EVANS, Professor Jason Peter Evans FRSN

FOLEY, Dr Catherine Patricia Foley AO PSM FRSN

FRASER, Emeritus Professor Brian James Fraser FRSN

GARTON, Professor Stephen Robert Garton AM FRSN

GERMOV, Professor John Germov FRSN

GOLDYS, Professor Ewa Magdalena Goldys FRSN

GRIFFITH, Dr Saul Thomas Griffith FRSN

GUILLEMIN, Professor Gilles J Guillemin OM (France) FRSN

HENRY, Emeritus Professor Bruce Ian Henry FRSN

HICKIE, Professor Ian Bernard Hickie AM FRSN

KALANTAR-ZADEH Professor Kourosh Kalantar-Zadeh FRSN

KEWLEY, Professor Lisa Jennifer Kewley FRSN

KILLCROSS, Professor Andrew Simon Killcross FRSN

KNIGHT, Professor Eric Ronald Wing-Fei Knight FRSN

LECHNER-SCOTT, Professor Jeanette Susanne Lechner-Scott FRSN

LE COUTRE, Professor Johannes Paul Martin le Coutre FRSN

LEWIS, Professor Geraint Francis Lewis FRSN

LOMB, Adjunct Professor Nicholas Lomb FRSN

LOXTON, Professor John Harold Loxton FRSN

MCCAMEY, Professor Dane Robert McCamey FRSN

MCCLUSKEY, Professor Adam McCluskey FRSN

MCDONALD, Mr John McDonald FRSN

MCLAWS, Professor Mary-Louise McLaws FRSN

MARTIN, Professor Jennifer Helen Martin FRSN

JOURNAL & PROCEEDINGS OF THE ROYAL SOCIETY OF NEW SOUTH WALES  
Proceedings — Meetings, Awards, Gazetted Fellows

MEDLYN, Professor Belinda Elizabeth Medlyn  
FRSN

MEISSNER, Professor Katrin Juliane Meissner  
FRSN

MUSGRAVE, Dr David Bruce Musgrave FRSN

NAKAGAWA, Professor Shinichi Nakagawa FRSN

NASH, Dr David George Nash FRSN

NEWBY, Associate Professor Jill Marce Newby  
FRSN

NICKERSON, Professor Angela Marissa Nickerson  
FRSN

NIXON, Professor Paddy Nixon FRSN

PATRICK, Professor John William Patrick FRSN

PRICE, Emeritus Professor Huw Price FRSN

RADOLL, Professor Peter John Radoll FRSN

REEKIE, Dr Tristan Andrew Reekie FRSN

ROBINSON, Ms Belinda Robinson FRSN

SIMPSON, Professor Jane Helen Simpson FRSN

SINODINOS, The Honourable Arthur Sinodinos  
AO FRSN

SMITH, Laureate Professor Roger Smith AM FRSN

STENZEL, Professor Martina Heide Stenzel FRSN

STEVENS, Professor Catherine Joanna Stevens  
FRSN

TAO, Professor Dacheng Tao FRSN

THAMWATTANA, Professor Ngamta Thamwat-  
tana FRSN

TYREE, Dr Peter Lyndon Tyree AM FRSN

VERSTRATEN, Professor Franciscus Antonius  
Josephus Verstraten FRSN

WARTON, Professor David Iain Warton FRSN

WELLER, Professor Steven Ronald Weller FRSN

WHITFORD, Professor Thomas James Whitford  
FRSN

WILSON, Professor Jeremy Somers Wilson AO  
FRSN

ZOMAYA, Professor Albert Yousif Zomaya FRSN

## Distinguished Fellows

Those Fellows of exceptional distinction, entitled to use the post nominal DistFRSN.

STODDART, Sir James Fraser Stoddart KBE FRS DistFRSN



# Archibald Liversidge: Imperial Science under the Southern Cross

Roy MacLeod

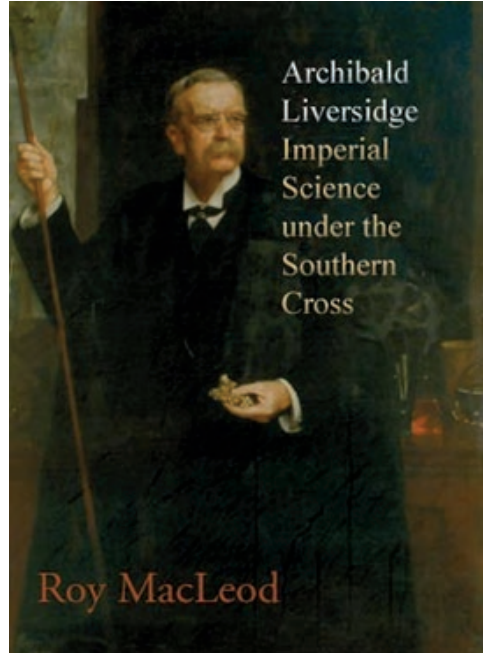
Royal Society of New South Wales, in association with Sydney University Press

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When Archibald Liversidge first arrived at the University of Sydney in 1872 as Reader in Geology and Assistant in the Laboratory, he had about ten students and two rooms in the main building. In 1874, he became Professor of Geology and Mineralogy and by 1879 he had persuaded the University Senate to open a Faculty of Science. He became its first Dean in 1882.

In 1880, he visited Europe as a trustee of the Australian Museum and his report helped to establish the Industrial, Technological and Sanitary Museum which formed the basis of the present Powerhouse Museum's collection. Liversidge also played a major role in establishing the *Australasian Association for the Advancement of Science* which held its first congress in 1888.

This book is essential reading for those interested in the development of science in colonial Australia, particularly the fields of crystallography, mineral chemistry, chemical geology and strategic minerals policy.



To order your copy, please complete the Liversidge Book Order Form available at:

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and return it together with your payment to:

The Royal Society of NSW,  
(Liversidge Book),  
PO Box 576,  
Crows Nest NSW 1585,  
AUSTRALIA

or contact the Society:

Phone: +61 2 9431 8691  
Fax: +61 2 9431 8677  
Email: [info@royalsoc.org.au](mailto:info@royalsoc.org.au)

# The Royal Society of New South Wales



## INFORMATION FOR AUTHORS

Details of submission guidelines can be found in the on-line Style Guide for Authors at: <https://royalsoc.org.au/society-publications/information-for-authors>

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The templates available on the Journal website should be used for preparing manuscripts. Full instructions for preparing submissions are also given on the website.

If the file-size is too large to email it should be placed on a USB drive (or other digital media) and posted to:

The Honorary Secretary (Editorial),  
The Royal Society of New South Wales,  
PO Box 576,  
Crows Nest, NSW 1585  
Australia

Manuscripts will be reviewed by the Editor, in consultation with the Editorial Board, to decide whether the paper will be considered for publication in the Journal. Manuscripts are subjected to peer review by at least one independent reviewer. In the event of initial rejection, manuscripts may be sent to other reviewers.

Papers (other than those specially invited by the Editorial Board) will only be considered if the content is either substantially new material that has not been published previously, or is a review of a major research programme. Papers presenting aspects of the historical record of research carried out within Australia are particularly encouraged. In the case of papers presenting new research, the author must certify that the material has not been submitted concurrently elsewhere nor is likely to be published elsewhere in substantially the same form. In the case of papers reviewing a major research programme, the author must certify that the material has not been published substantially in the same form elsewhere and that permission for the Society to publish has been granted by all copyright holders. Letters to the Editor, Discourses, Short Notes and Abstracts of Australian PhD theses may also be submitted for publication. Please contact the Editor if you would like to discuss a possible article for inclusion in the Journal.

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