



emcrforum



Science Pathways 2015
Effective science
communication
for EMCRs

PROGRAM

'The Braggs' Lecture Theatre,
University of Adelaide
23–24 April 2015

HELP US
LIVE-TWEET
SCIENCE PATHWAYS!
#SciPath15

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Program

Day 1: Thursday 23 April	
10.00 am	Registration and morning tea
10.30 am	Session I: Welcome and introduction Andrew Siebel and Rachel Popelka-Filcoff, Conference Conveners
10.45 am	Opening address Leanna Read, Chief Scientist of South Australia
11.00 am	Chuwen Keynote Address <i>The challenges of transdisciplinary research</i> Heike Ebendorff-Heidepriem, Deputy Director of the Institute for Photonics and Advanced Sensing, The University of Adelaide
11.30 am	Session II: The art of communicating science <i>Communicating science to the public and media</i> Susannah Elliott, CEO, Australian Science Media Centre <i>Communicating and engaging with industry</i> Stefan Harrer, Science Technical Assistant to the Director, IBM Research, Melbourne Philipp Dautel, Research Facilitator, AusIndustry Entrepreneur Development <i>Science, policy, and government</i> Anna-Maria Arabia, Advisor to Bill Shorten Stephen Halliday, Director, Hawker Britton Group Pty Ltd
12.30 pm	Breakout group/panel discussion: <i>How can we better communicate science?</i> <ul style="list-style-type: none">• How do we measure the impact of your science communication?• How can we better communicate our science?• Why should we communicate our science?• Barriers/enablers/solutions

1.15 pm	Lunch
2.00 pm	Session III workshop: <i>What have you got to say, and how are you going to say it?</i> Simon Clews, Director, Writing Centre for Scholars and Researchers, The University of Melbourne
3.00 pm	Session IV: <i>Transdisciplinary research—communicating across disciplines</i> Ana Deletic, Director of Monash Water for Liveability, Monash University
3.45 pm	Afternoon tea
4.30 pm	Homework
5.00 pm	Networking event The Science Exchange at RiAus 55 Exchange Place, Adelaide Judges Melissa McBurnie, Investment Manager, Brandon Capital Partners Ben McNeil, Founder, Thinkable.org
5.30– 7.00 pm	Drinks and tapas served

Day 2: Friday 24 April

8.30 am Tea and coffee

9.00 am Session V: Science journalism panel

Niall Byrne (facilitator),
Creative Director, Science in Public

Reema Rattan,
Health and Medicine Editor, The Conversation

Cassandra Mciver,
Outreach Officer, Australian Institute of Policy and Science

Sally Woollett,
Editor, Chemistry in Australia Magazine

Nicky Phillips,
Science Editor, Sydney Morning Herald, Fairfax Media

Sarah Keenihan,
Communication Manager, Australia Science Communicators

10.30 am Morning tea

11.00 am Session VI: Social engagement— *inspiring the next generation of STEMMers*

Sponsored by the Australia 2050 Project

Kristin Alford,
Futurist & Founding Director, Bridge8 Pty Ltd

12.00 pm **Best practice: the Institute for Molecular Bioscience Science Ambassador Program**

Maggie Hardy,
The University of Queensland

12.45 pm **Networking lunch**

1.30 pm **Developing an action plan**

- Report back from breakout groups
- Open discussion
- Short-, mid- and long-term goals and action items

3.30 pm **Meeting close**

Coaches depart for Adelaide airport

Take the Australian Postdoctoral Reference Survey

The purpose of this study is to determine:

- 1) the demographic properties of postdoctoral researchers in Australia (gender; age; number of terms as a postdoc; years since PhD or highest degree, etc.);
- 2) what most postdoctoral researchers in Australia can expect in their position (mentoring, funding support, grant writing support, etc.); and
- 3) what 'best practices' or outstanding models for career planning and career progression, already exist for Australian postdoctoral researchers.

The procedure involves filling out an online survey that will take approximately 10 minutes (approximately 80 multiple choice questions, with the option for short answer questions at the end to provide more information if you wish). Your responses will be confidential and we do not collect personal identifying information such as your name, email address, or IP address. The survey questions will be about your experiences as a postdoctoral researcher in Australia.

The survey will be available until 1 June 2015.

To take the survey, please visit: <http://bit.ly/AusPDR15>.

Introduction

Professor Les Field AM FAA Secretary for Science Policy, Australian Academy of Science

A Chinese curse purportedly says, 'may you live in interesting times.' We certainly find ourselves in a period that is anything but 'uninteresting.' This has been a particularly unsettled and chaotic period, but more particularly one where we have had to fight hard to get traction for science and research more generally, with Government and also with the wider community.

The theme of this year's national EMCR meeting is 'Effective science communication'—I cannot emphasise enough how important this theme has become. The case for investing in science (in its broadest sense) would be much easier if science enjoyed a similar profile with the public as, say, health, education, sport, or social services. And there is nothing that will convince Government of the value of science than an overwhelming positive groundswell from the public. Governments listen to their constituents and we really do need to get across the value of investment in science to the Australian people and let them carry the message to Canberra.

My view is that we need a greater awareness of science in the community at all levels—all the way from our school-aged children through to the elders. The message that science is difficult and scary can only be countered if we all take turns to translate complexity into understandable bites in layman's language.

'Effective science communication' has become one of foundation pillars of the Academy. We have moved into an era where it is more important than ever to be able to communicate the potential impact of the research that we do to the real world.

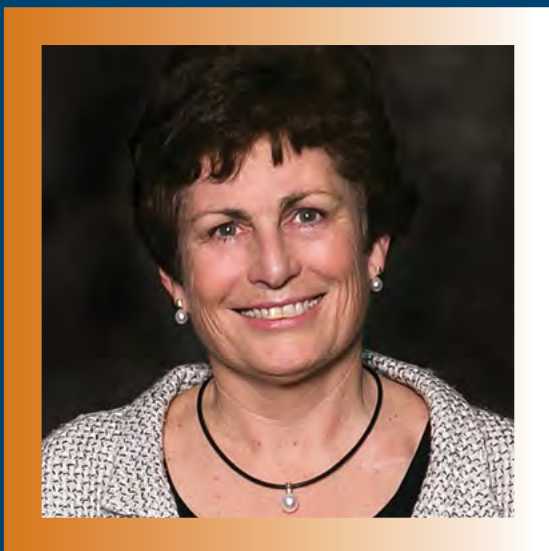
The Early- and Mid-Career Researcher Forum of the Australian Academy of Science came into existence a few years ago as a means to ensure that there was a strong voice from the 'younger, up-and-coming' demographic of the science research community. The fact that we have a strong and vibrant EMCR Forum also recognizes that the issues that the Academy is tackling right now, will be issues that will impact years or decades down the track and will need to be dealt with by the 'next generation' of academicians.

The Forum has grown from strength-to-strength over the years and the Academy is very keen to help our EMCRs brush up the professional skills they will need to engage with each other and with the wider community. I have no doubt that the Forum will continue to grow as the voice of the next wave of leaders in Australian science.

My very best wishes for a successful EMCR Forum meeting in 2015.



Opening address



Dr Leanna Read FTSE FAICD Chief Scientist of South Australia

Dr Leanna Read is the Chief Scientist for South Australia and chairs the South Australian Science Council. She is a renowned biotechnology expert and brings a wealth of executive, board and investment experience in technology-based businesses. In addition to her role as Chief Scientist, Leanna chairs the Cooperative Research Centre for Cell Therapy Manufacturing and is a member of the SA Economic Development Board and the Council for the University of South Australia. Prior roles included CEO of the Cooperative Research Centre for Tissue Growth and Repair and the founding managing director of Adelaide biotechnology company, TGR BioSciences Pty Ltd. She has received a number of awards, including an Honorary Doctorate from the University of South Australia, the 2006 South Australian of the Year (Science and Technology) and the 2011 Central Region winner of the Ernst & Young Entrepreneur of the Year in the Technology Category.



Science at the Shine Dome 2015

Every year, Australia's foremost scientists gather at Science at the Shine Dome, where prestigious awards are presented, high achievers are admitted to the Fellowship of the Australian Academy of Science, and a symposium is held on an issue of national importance. In 2015, the theme will be *Minerals to medicines: 100 years of X-ray crystallography*. Scientists, policy makers, educators and the interested public are invited to attend. ● A special program for EMCRs includes an chance to network with Fellows of the Academy at an exclusive BBQ dinner and career development workshops delivered by experts and targeted to the needs of EMCRs. The workshop topics are as follows: Topic 1: Leadership in science ● Topic 2: Research and industry partnerships ● Topic 3: Successful grant writing ● Topic 4: Communication and collaboration in science ● 3-day EMCR Package \$525

For more information and to register please visit
www.science.org.au/events/science-shine-dome-2015

Registrations close on Monday 4 May 2015

26-28 MAY
SHINE DOME
CANBERRA

The Chuwen Keynote Address

Benjamin M. Chuwen PhD, 1974–2012 **Celebrating his life, commitment, and passion**

Dr Ben Chuwen completed his PhD at the Centre for Fish and Fisheries Research at Murdoch University in January 2010 and was a Postdoctoral Research Fellow with Dr Jeremy Lyle at the Institute for Marine and Antarctic Studies (IMAS) at the University of Tasmania. As an ichthyologist, Ben's work focused on the biological aspects of key fisheries species, such as the Black Bream, and how such biotic variables can change with fishing pressure and/or environmental change. Ben also developed quantitative ecosystem models for estuaries, and published his research in international journals and presented at a number of international and national conferences. Ben had completed the Fisheries Research and Development Corporation's Advance in Seafood Leadership Development Program and was the Tasmanian State representative on the board of the Australian Society for Fish Biology. Ben used to pride himself on being able to effectively communicate with a wide range of stakeholders and community members to enable the results of his work to be disseminated as widely as possible. ✂ Ben was a founding member of the Australian Early- and Mid-Career



Researcher Forum in 2011 and joined because he wanted to make a difference. As a passionate scientific researcher with a friendly, easy-going nature, Ben was an advocate for all young scientists, regardless of their professional discipline. With a strong commitment to a healthy work-life balance, Ben wrote in his Forum biography, 'I enjoy a balanced work/family life, which I achieve through being as productive as possible during my working time and allowing myself quality time after hours with my family.' Ben avidly acknowledged the love and support of his family, and how this helped him juggle the demanding roles as both a young father and an emerging researcher. ✂ On Sunday March 4, 2012 Ben woke with a 'lightning bolt' headache that rapidly became life threatening. Following multiple surgeries and several weeks in intensive care, Ben passed away peacefully on Friday April 20, 2012. Our thoughts remain with his family, especially his wife Nicole and their two young daughters, Lila and Gracie. Ben's colleagues at IMAS described him as 'a dynamic and enthusiastic young scientist' and they all strongly supported Ben's family through this difficult time. ✂ In celebration of Ben's life, commitment and passion for all things science, the Forum held the first *Chuwen Keynote Address* at its inaugural national meeting in September 2012.

The Chuwen Keynote Presenter



Heike Ebendorff-Heidepriem **Deputy Director of the Institute for Photonics and Advanced Sensing (IPAS), The University of Adelaide**

Heike Ebendorff-Heidepriem received the PhD degree in chemistry from the University of Jena, Germany, in 1994. She subsequently held two prestigious fellowships and received the Weyl International Glass Science Award. During 2001–04 she was with the Optoelectronics Research Centre at the University of Southampton, UK. Since 2005, she has been with the University of Adelaide, Australia. Currently, she is one of the leaders of the Optical Materials & Structures Theme and the Deputy Director of the Institute for Photonics and Advanced Sensing. Her research focuses on the development of novel optical glasses, fibers, surface functionalisation and sensing approaches. Her research has generated over 200 refereed journal papers and conference proceedings.

Background

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Dr Andrew Siebel and Dr Rachel Popelka-Filcoff **Conference Co-conveners**

The Australian Early- and Mid-Career Researcher Forum was started in 2011 with a vision to be the voice of Australia's future scientific leaders. With the support of the Australian Academy of Science and in particular Professor Bob Williamson, in his then role as Secretary for Science Policy, a group of motivated early and mid-career researchers (EMCRs) from across Australia came together to establish the first Forum committee.

Representing a large proportion of the Australian research industry, there is great responsibility on the Forum to engage with EMCRs across the Science, Technology, Engineering & Mathematics (STEM) disciplines in this country and advise the Academy on related issues.

The Forum has become the national voice of Australia's emerging scientists and examines critical issues including career structure, job security, funding, education, training, and gender equity. The Forum liaises with other national organisations to positively contribute to STEM research and education in

Australia and the future careers of our emerging experts in these sectors.

The EMCR Forum held its first national meeting *Science Pathways: Getting Science on the National Agenda* at the Shine Dome in Canberra on 24 and 25 September 2012. At this meeting the Forum engaged with EMCRs across multiple disciplines and from around Australia, to exchange views about the challenges they face and possible solutions.

In 2013, *Science Pathways: Engaging with Industry & Innovation* was held in Melbourne where the focus was on how EMCRs can more effectively engage with Industry and apply a more innovative approach to their research. This meeting included an invaluable 'Education session' to provide delegates with the skills and know-how to connect, collaborate and innovate. The 'Career hotspot' also exposed EMCRs to a range of career paths in industry and introduced them to some of the leading professionals in Australia's highest performing industry groups.

Science Pathways 2015: Effective science communication for EMCRs will be held at 'The Braggs' Lecture Theatre, University of Adelaide on 23–24 April 2015. This event will bring together EMCRs and senior scientists as well as representatives from industry and government. Making science more accessible to a wider audience is essential, especially with the heavy reliance on government funding for research. Effective communication of new scientific ideas and breakthroughs to the wider community can be a real challenge for many scientists. *Science Pathways 2015* will be an opportunity to learn new skills in the important area of science communication. This may also open up new career opportunities for EMCRs looking to use their research experience in a different way.

Approximately 150 delegates from around Australia and neighbouring countries are expected to attend the two-day meeting. We look forward to meeting you in Adelaide!

Speakers and panel members

In order of appearance

Session II: The art of communicating science

SUSANNAH ELIOTT

CEO, Australian Science Media Centre



Susannah is CEO of the Australian Science Media Centre, an independent not for profit organisation that works with the news media to inject more evidence-based science into public discourse.

She has a PhD in cell and developmental biology from Macquarie University, a

Graduate Diploma in Journalism from the University of Technology Sydney (UTS) and more than 22 years of practical experience in science communication with the relationship between science and the mainstream media her primary focus.

At the Science Media Centre she has built up a strong following of Australian journalists and has initiated several major projects including ScienceMediaSavvy.org, *Scientists in Residence* and the *Science Media Exchange* (launched in March 2015). She presents regularly on science and the media and is a contributor to ABC Radio National Drive with Waleed Aly, ABC TV 24 and Radio 2CC in Canberra.

In 2010–11 she chaired the Expert Working Group on Science and the Media for the Federal government and in February 2011 was appointed to the national Climate Commission until May 2012. She sits on the Board of the Environment Institute at Adelaide University and is a judge for several science-media awards. She lives in Adelaide with her husband and two children.

STEFAN HARRER

Science Technical Assistant to the Director, IBM Research, Melbourne



Stefan holds B.Sc., Diploma, and Ph.D. degrees in EECS from the Technical University Munich and an Honors Masters Certificate in technology management from the Technical University Munich and the Ludwig-Maximilians University Munich. He was a Research Scholar at UC Berkeley and a Visiting Graduate Student at the

Massachusetts Institute of Technology before he joined IBM Research as a process development engineer in the Advanced Lithography Group, Albany, USA. He then became a research scientist in the IBM T. J. Watson Research Center, Yorktown Heights, USA. He is currently the Lead of BioNanotechnology Research for IBM Research Australia, Science Technical Assistant to the Lab Director, and also an Honorary Associate Professor at the University of Melbourne.

PHILIPP DAUTEL

Research Facilitator, AusIndustry Entrepreneur Development



Philipp is facilitating the Research Connections component of the Entrepreneurs' Infrastructure Programme in South Australia. He works across all industry sectors, helping companies engage with research organisations to drive innovation and business growth for SMEs.

Before joining the Department of Industry as a Facilitator, Philipp worked at UniSA's technology commercialisation company, ITEK Ventures, where he commercialised University Intellectual Property, including assessing and developing commercial opportunities. Before relocating to Australia, Philipp worked for global technology and manufacturing companies based in Germany and Switzerland, where he developed and executed marketing strategies. Philipp's formal qualifications include a Master in Business Administration from Munich University of Applied Sciences.

ANNA-MARIA ARABIA

Director of Policy for the Hon Bill Shorten



Prior to her appointment as Director of Policy to the Hon Bill Shorten, Leader of the Federal Opposition, Anna-Maria has held various senior science executive positions, including the position of General Manager at Questacon—the National Science and Technology Centre; and CEO

of Science & Technology Australia—the national peak body for the science and technology sector.

Anna-Maria has worked extensively with parliamentarians, business leaders, the media and the broader community. She has also worked in senior political and policy advisory roles in both social and economic portfolios with the ALP in opposition and in government.

She is a Director of the Board of Spinal Cord Injuries Australia—an organisation committed to creating independence, dignity and unlimited opportunity for people living with spinal cord injury.

She is formally trained and has practiced as a research scientist in the field of neuroscience working in Australia and abroad.

STEPHEN HALLIDAY

Director, Hawker Britton Group Pty Ltd



Stephen Halliday has spent more than 30 years working in around the media, politics and Government in South Australia.

Beginning his career as a journalist at the ABC in Adelaide in 1982 he has worked as a media adviser, journalists union official and was for 10 years Chief of Staff to

former SA Premier Mike Rann, both in Opposition and Government. For the past 10 years he has led the SA office of the government relations and lobbying firm of Hawker Britton assisting a wide variety of firms across many industry sectors talk to Government.

Session III workshop: *What have you got to say, and how are you going to say it?*

SIMON CLEWS

Director, Writing Centre for Scholars and Researchers, The University of Melbourne



For 10 years now Simon Clews has been the Director of Melbourne University's Writing Centre for Scholars and Researchers. This unique centre supports postgraduate students, early career researchers and academic staff as they transform their research into writing for non-specialist audiences. Graduates

of the Centre's programs have published everything from award-winning books to trend-setting blogs, including articles, newspaper columns, opinion pieces and essays. Simon also offers non-fiction writing workshops for writers around Australia and internationally.

He is Creative Program Director for Melbourne's Reader's Feast book store producing *Crime & Justice*, a celebration of crime writing and social justice that takes place in late November, and this year adding the inaugural *History Writers' Festival* to Melbourne's literary calendar. Before becoming the Writing Centre's inaugural Director, he was the Festival Director and CEO of *Melbourne Writers' Festival* for fourteen years. And prior to this, he was responsible for programming *Stories Alive*, a large-scale celebration of writing for children, and two precursors to *Writers on Collins—Writers at the Convent* and *Writers at Como*.

He is a regular book reviewer and writer of newspaper articles and once even ventured into the world of guidebooks with *Let's Go Shopping*, a very tongue-in-cheek international mail order shopping directory. Most recently he has launched ideePOP, a new publishing start-up and is on the lookout for interesting, quirky writing for digital publication.

www.simonclews.com

Session IV: *Transdisciplinary research—communicating across disciplines*

ANA DELETIC

Director of Monash Water for Liveability, Monash University



Ana Deletic is a Professor in Water Engineering and Associate Dean of Research (Engineering) at Monash University. She is Director of Monash Water for Liveability and was instrumental in establishing the Cooperative Research Centre for Water Sensitive Cities. She is the world leader in integrated urban

water management. Commencing research in Yugoslavia and Scotland (1990s), she moved to Monash University (2003) to focus on removing pollutants from urban runoff, establishing the world's most published group on stormwater management, leading development of biofilters and raingardens. Ana is Fellow of Engineers Australia and Australian Academy of Technological Sciences and Engineering (ATSE) and Deputy Chair of the ATSE's Water Forum. In 2012, Parliament awarded Ana the Victoria Prize for Science and Innovation (Physical Sciences).

Networking event

MELISSA MCBURNIE

Investment Manager, Brandon Capital Partners



Melissa is an Investment Manager at Brandon Capital Partners and is based in Adelaide. Brandon Capital Partners makes seed and venture capital investments to support the development and international growth of Australian life science companies. The Brandon Capital team work collaboratively with

entrepreneurs to demonstrate the benefit of their technology, thereby creating value for them, their teams and Brandon Capital's investors.

Melissa joined the investment team of Brandon Capital Partners in 2008, following two years as a venture investor with Terra Rossa Capital in Adelaide, a Fund Manager specialising in seed-to-early stage life science investment. Melissa was previously a Business Development Manager with Bio Innovation SA where she helped early stage companies refine their business plans and prepare to raise capital and has also worked in an early stage medical device company in Adelaide, assisting it with capital raising. Melissa spent three years as a postdoctoral scientist at Prince Henry's Institute of Medical Research, Victoria.

Melissa has a first class honours degree in science and PhD in Immunology from the University of Adelaide and an MBA, specialising in finance, from the University of South Australia. Melissa holds a Graduate Certificate in Applied Finance from Kaplan (formerly FINSIA) and is a graduate of the Australian Institute of Company Directors.

Session V: Science journalism panel

NIALL BYRNE (FACILITATOR)

Creative Director, Science in Public



Niall is a science writer and publicist based in Melbourne, and the creative director of Science in Public. The focus of his work is helping scientists bring their work into the public space through the media, events and festivals. He also guides science organisations in the development of communication strategies to reach

their stakeholders, customers and the public. Recent clients include: Nature; Monash University, The Australian Institute of Marine Science and the GAVI Alliance. Niall holds a Bachelor of Science Honours Degree in Botany from Durham University.

Some recent highlights of his work include: story-telling and publicity for the Prime Minister's Science Prizes (2004 to present), L'Oréal For Women in Science Fellowships (2007–present), the Eureka Prizes (2003–06; 2013 to present), and the Clunies Ross Foundation (1998–2004); working with CERN on the Australian end of the Higgs boson discovery at the High Energy Physics Conference (2012); conference director, 5th World Conference of Science Journalists in Melbourne in 2007, and the World Congress of Science and Factual Producers in 2009; development and management of the Fresh Science program (1998–present); a series of supplements for Nature (2003 to 2014).

REEMA RATTAN

Health and Medicine Editor, The Conversation



Reema Rattan is the health and medicine editor at The Conversation news website, which publishes articles written by researchers. Prior to joining TC, she worked as a sub-editor in South Korea and a research officer at The University of Sydney.

CASSANDRA MCIVER

Outreach Officer, Australian Institute of Policy and Science



In her current position as Outreach Officer for the Australian Institute of Policy and Science, Cassandra is actively promoting the Young Tall Poppy Science Awards, recognising the achievements of young South Australian researchers from all areas of science. Not only do these awards acknowledge the recipients' research

achievements but also their capacity and commitment to communicate science and its significance to the broader community.

Cassandra has 10 years' experience as a Molecular Biologist working in institutions such as the Basil Hetzel Institute of Translational Health Research, Flinders University and the Food and Nutrition Flagship of the CSIRO. During this time she was involved in the investigation of gene expression changes using genomic and proteomic techniques in obesity, pre-diabetes and colorectal cancer.

Cassandra has a B. Health Science degree with Honours in Physiology and a PhD in Biosciences (Physiology) from the University of Adelaide.

She is passionate about science communication and is involved in activities such as Science Alive during National Science Week, student workshops like those held by the Gifted and Talented Students Association and regularly does primary school visits.

SALLY WOOLLETT

Editor, Chemistry in Australia Magazine



After a brief stint in the laboratory as a chemistry graduate in the 1990s, Sally retrained in book publishing and has been happily freelancing ever since. One of her long-term clients is the Royal Australian Chemical Institute, for which she edits their membership magazine, Chemistry in Australia.

NICKY PHILLIPS

Science Editor, Sydney Morning Herald, Fairfax Media



Nicky Phillips is the science editor at the Sydney Morning Herald, where she has worked since 2010. In this role she writes across a variety of topics, but has a particular interest in genetics, archaeology and conservation. More recently Nicky has driven the Herald's Science at the Crossroads series,

highlighting the importance of well-funded research and sound science policy for a prosperous nation.

Nicky was previously a radio reporter and producer with ABC's Radio National's science unit and a science writer for ABC Online. She has a bachelor of science and postgraduate qualifications in journalism. In the summer of 2013/14 she spent two months in Antarctica as an Australian Antarctic Division media fellow. Her work was featured in the 2013 and 2014 Best Australian Science Writing Anthology. She also mentors science journalists in Asia for the World Federation of Science Journalists.

SARAH KEENIHAN

Communication Manager, Australia Science Communicators



Sarah is a freelance science writer based in Adelaide, South Australia. She established her writing business in early 2012 after 15 years working in immunology research and science communication in Australia and Indonesia. She has a Bachelor of Medical Science with honours, a PhD

and a Graduate Diploma in Sciences Communication. Sarah believes that her training in research was a critical aspect of her development as a writer. It taught her how to manage and present complex information, provided her with critical insight into relevant processes and procedures, and allowed her to develop strong relationships within research communities. When not reading and writing, Sarah indulges in cooking, eating and exercising. She is on the committee and manages communication for the SA Chapter of the Australia Science Communicators, and is a member at the SA Writers Centre. Sarah's writing is published by CSIRO Publishing, The Lead South Australia, Adelaide Hills Magazine, South Australian Museum, BioInnovation SA, Refraction Media, COSMOS and several universities.

Session VI: Social engagement— inspiring the next generation of STEMMers

KRISTIN ALFORD

Futurist & Founding Director, Bridge8 Pty Ltd



Kristin established Bridge8 in 2004 following careers in engineering, human resources, strategy and product development for companies including BHP Billiton, Ansett-Air New Zealand, the Royal Agricultural Society of Victoria and Nanotechnology Victoria.

Kristin holds a PhD in process engineering and a Masters of Management in Strategic Foresight. She is a graduate of the Australian Institute of Company Directors, a Fellow of the Governor's Leadership Foundation and a sessional lecturer at the University of Adelaide.

Recent projects include facilitating innovation workshops for the South Australian Government, and co-organising and facilitating the Australia 2050 workshop with the Australian Academy of Sciences.

Best practice

MAGGIE HARDY

The University of Queensland



Originally from Boston, Dr Maggie Hardy is a Postdoctoral Research Fellow at The University of Queensland Institute for Molecular Bioscience in Australia. She is internationally recognized for her work in sustainable agriculture and insecticide discovery. Dr Hardy earned her MSc in Entomology from the University of Hawai'i

in 2007, and her PhD in Chemistry and Structural Biology from The University of Queensland in 2011. Bringing science to the public is one of Dr Hardy's passions. While a PhD student at the IMB, she founded the IMB Science Ambassador Program to train early career researchers in speaking to the public, to the media, and to funders. She has been a Young Science Ambassador for the Australian Academy of Technological Sciences and Engineering (2008), part of the Queensland Government's Talking Scientists program (2009–present), and is a member of the Australian Academy of Science Early- and Mid-Career Researcher Forum (2013 – present). You can connect with her on Twitter @DrMaggieHardy.

Travel award sponsors



Australian
National
University



CHILDREN'S
MEDICAL
RESEARCH
INSTITUTE



Curtin University



THE UNIVERSITY OF
WESTERN AUSTRALIA

Travel award recipients

Listed alphabetically by surname

With thanks to our sponsors

NOTE CSL travel award winners are indicated with ●
MCRF travel award winners are indicated with ◆

EMMA BECKETT ●

University of Newcastle



Emma's research focuses on the interactions between nutrition and genetics, and how this influences health and disease. This relationship works both ways; genetics can influence how we take in and respond to nutrients, and nutrients can influence the expression of our genes. Genetics can influence taste, nutrient

intake, uptake and processing. Nutrients can act to activate or suppress gene expression directly by acting as transcription factors or modulating epigenetic pathways. These interactions may influence the risk of later life diseases, such as cardiovascular disease, diabetes and cancer.

REBECCA DARBYSHIRE ●

The University of Melbourne



The focus of Rebecca's research is the quantitative analysis of environmental factors in relation to biological systems. Currently she is conducting research to connect fruit tree physiology, such as flowering processes and sun damage susceptibility, to climate and then projecting these relationships to assess

potential climate change impacts. Adaptation options, such as shade netting, are included in modelling procedures to evaluate the benefit of these options under climate change conditions. In mapping these effects across Australia and into the future, lead times to production tipping points can be assessed and the value of adaptation in diminishing impacts anticipated.

ANSELM ENDERS

Australian National University



Enders combines training and expertise in basic science immunology, with a background in clinical immunology to relate findings of research in mouse models to humans with immunodeficiencies and other B cell mediated diseases.

Research interests include development and function of B cells, Human Immunodeficiency, Lymphocyte development and differentiation and genetic basis of autoimmunity.

Enders holds an NHMRC Career Development Fellowship and is CIA on two NHMRC Project Grants investigating B cells. He is also a CI on the NHMRC Centre for Personalised Immunology.

SHAZZAD HOSSAIN

The University of Western Australia



Shazzad Hossain, a core member of ISO, is well regarded internationally for his contributions in the field of geotechnical engineering of offshore foundations. He has advanced the design of spudcans (foundations for mobile offshore drilling rigs), has made a number of innovative contributions to understand and quantify

the performance of spudcan, and proposed optimum solutions for stopping million-dollar-cost hazardous failures. His scientific contributions to deep water anchoring systems are forming a basis for using torpedo anchors in problematic calcareous sediments for tethering floating facilities. His work includes, centrifuge tests, numerical analysis, reveal the underlying mechanisms, the development of mechanism-based and direct penetrometer to foundation design approaches comparing with field data. He was named as Woodside Early Career Scientist of the Year 2013 by the Government of Western Australia, and he is an Australian Research Council DECRA Fellow.

WENDY HUI

Curtin University



Wendy Hui is a senior lecturer in Information Systems at Curtin University. Her research interests include information security and big data analytics.

HEATHER MADSEN ♦

Florey Institute of Neuroscience and Mental Health



Heather is a behavioural neuroscientist with extensive experience in using preclinical models to investigate the neurobiology of addiction and anxiety. Despite knowledge that adolescents are particularly susceptible to developing these disorders, existing research focuses almost exclusively on adults. Therefore

Heather has recently focused her research upon understanding the neurobiological factors that underlie adolescents' increased vulnerability to develop anxiety and substance use disorders, with the aim of developing readily translatable pharmacological and behavioural interventions. To this end, her research has already identified a number of therapeutic interventions that show preclinical efficacy in reducing relapse to fear- and drug-associated cues in adolescents.

FRIEDERIKE MANSFELD

Children's Cancer Institute



Friederike is a chemist by training, and loves a really neat, exciting new synthesis route as much as the next chemist, but during her PhD studies at the University of Cambridge, she found that she was far more interested in the application of chemistry to solving challenges in drug delivery. Friederike gained experience

in peptide drug delivery at the University of Queensland and polymer-drug conjugates as injectable slow-release formulations at the biotech start-up PolyActiva, and currently works at the Children's Cancer Institute in Sydney on targeted drug delivery to cancer cells using antibody-drug conjugates and nanoparticles.

KATHRYN MCMAHON

Edith Cowan University



Kathryn's research is in the discipline of environmental science. She focuses on improving our understanding of how coastal marine ecosystems function and respond to human impacts, and then with this knowledge develops tools for conserving, managing and monitoring the marine environment.

Her key areas of interest are in dredging management and connectivity in seagrass systems.

TINA NOUTSOS

Flinders NT



Tina is a part time PhD candidate, investigating the natural history, clinical outcomes and potential aetiologies of snake bite associated thrombotic microangiopathy and associated acute kidney injury.

CARMEN PACE ♦

Murdoch Childrens Research Institute



Carmen Pace is a psychologist and postdoctoral research fellow in the Victorian Infant Brain Studies group at the Murdoch Childrens Research Institute. She has a special interest in the mental health of parents and how this impacts on parent-infant attachment and children's ongoing development,

particularly in populations born preterm. Her PhD was a longitudinal study of symptoms of depression, anxiety and post-traumatic stress in mothers and fathers of very preterm infants, and followed these parents and their infants over the first year of life. She also has particular interest in the mental health of fathers following the birth of their children.

ANTONIA PRITCHARD ♦

QIMR Berghofer Medical Research Institute



Dr Pritchard completed a B.Med.Sc degree, specialising in cellular and molecular biology (2001) and her PhD, investigating genetic risk factors for Alzheimer's disease (2005), both from the University of Birmingham in the UK. In 2006, her supervisor was offered a position at QIMR and Dr Pritchard moved

with her to Australia to continue her work in the Alzheimer's disease field. In her following research position, Dr Pritchard took an opportunity to extend her field of expertise, by undertaking a 2 year research position in a virology/immunology laboratory. This experience led her to set up her Melanoma Immunology sub-group within Professor Nick Hayward's Oncogenomics research group at QIMR Berghofer in 2012. Dr Pritchard has established research projects combining molecular biology with the immunology field. These studies aim to use next generation sequencing and state-of-the-art mass spectrometry technologies to guide the identification of tumour marker profiles that identify specific molecular targets in individual patients. Dr Pritchard is a member of the board of directors for the Australian Society for Medical Research (ASMR), a strong advocate group publicly and politically for scientific research carried out in Australia.

JANET RICHMOND

Edith Cowan University



Janet completed her occupational therapy undergraduate degree, honours and Master's degrees in South Africa. She has experience working in a military hospital, South African special schools for children with hearing impairments and other learning difficulties, private practice with a focus on all paediatric

diagnoses, Occupational Therapy Manager in a general hospital and lecturing at Edith Cowan University. She completed her PhD in 2010 and her current clinical and research interests are in paediatrics with a particular focus on visual perception, learning difficulties, visual motor integration, developmental delay and sensory integration, as well as scooter use (motorised mobility aids), disability and aging.

KATHARINE SCHLESINGER

Australian National University



Katharine is currently a Postdoctoral Fellow at the Research School of Astronomy & Astrophysics. Her research focuses on how our Galaxy has evolved over time, and she works with the GALactic Archaeology with HERMES (GALAH) survey, a 6+ year observational program aiming to get detailed chemical

information for a million stars in the Milky Way. The chemical make-up of each individual star can tell us about when and where it was born. These elemental patterns serve as astronomical DNA, allowing us to link up stars born together, even if their current locations are very far apart.

ROWENA SCOTT

Curtin University



As a science education lecturer at Curtin University, Dr Rowena Scott developed a lesson planning competition as a community engagement partnership with Water Corporation's education team. Rowena is part of a collaborative team that gained an Office of Learning and Teaching (OLT) research grant titled

Volunteering to Learn: Enhancing learning in the student volunteering experience in Australian universities. In 2013, she was successful with a research grant titled Evaluation of Natural Sciences Practicum as Work Integrated Learning, Community Engagement and Volunteering. Rowena teaches outdoors, facilitating students' development of keen observation skills through drawing, sustainability skills and their connectedness to nature.

CRAIG SINCLAIR

University of Western Australia



Craig's research focuses on promoting support and autonomy in healthcare decision-making. He is currently running a multi-centre trial of advance care planning among patients with severe respiratory disease, to examine whether this can improve decision-making and lead to better quality end of life care for

these people. He has a growing interest in dementia care, and aims to conduct research that will inform policy reform relating to supported decision-making for people with dementia. Craig has a passion for promoting greater community engagement in science, and currently sits on the Great Southern Science Council: a regional science hub made up of scientists and science educators.

MICHELE VELDSMAN

The Florey Institute of Neuroscience and Mental Health



Dr Veldsman investigates the impact of stroke and dementia on networks in the human brain. She is interested in how brain networks change and reorganise after the damage caused by stroke and dementia. She completed her PhD in Neuroimaging at the University of Cambridge in 2014, funded by a highly

competitive Medical Research Council postgraduate fellowship. In November 2013, she moved to Melbourne to take up a postdoctoral research position at The Florey Institute. She is president of the Florey Postdoctoral Association and a passionate advocate for Equality in Science

RUTH WEBSTER

The George Institute For Global Health



Dr Ruth Webster is a research fellow at The George Institute for Global Health and holds a Heart Foundation post-doctoral fellowship in the area of improving use of available medications to prevent cardiovascular disease. She is the international co-ordinator of the SPACE Collaboration, an academic consortium

of polypill studies, as well as the study director of the TRIUMPH study, a 700 patient RCT of early use of triple, low dose blood pressure lowering therapy to improve management and control of high blood pressure.

CARL WHITE ♦

Harry Perkins Institute of Medical Research



Carl's current research investigates the molecular pharmacology of chemokine receptors, particularly the functional and physiological implications of chemokine receptor heterodimerisation. His work hypothesises that heterodimerisation of chemokine receptors not only plays a role in normal signalling but changes

in receptor expression in disease states can result in activation aberrant signalling pathways. He is based at the Harry Perkins Institute of Medical Research at the University of Western Australia as an early career research fellow.

CHIN LONG WONG

Children's Medical Research Institute



Chin's research interest is in the mammalian cell cycle and more specifically mitosis—cell division. His lab's particular specialisation is the research into how the endocytosis machinery is involved in cell division. From this research he is also involved in designing and characterising new cancer specific drugs.

DENISE YU

Children's Cancer Institute



Denise is currently a postdoctoral scientist with the Experimental Therapeutics/ Molecular Diagnostics Programs at Children's Cancer Institute, working on novel therapies for the childhood cancer neuroblastoma, the most common cancer in infants and the cause of 15% of deaths due to childhood cancer. Her key focus is

on the development of small molecule inhibitors targeting drug resistance mechanisms in cancer cells.



Australian Early- and Mid-Career Researcher Forum

2015 Executive Board

DR SHARATH SRIRAM (CHAIR)



Sharath is the joint leader of the Functional Materials and Microsystems Research Group at RMIT University, Melbourne, Australia, from where he was awarded his Ph.D. in 2009. He is also the Deputy Director of the University's Micro Nano Research Facility, a 1,200 sq.m. state-of-the-art micro/nanofabrication

capability. Dr. Sriram's expertise includes the synthesis of functional thin films (at thickness scales 1/1000th to 1/100th of a human hair) and micro/nanostructures and devices. He has published 100 peer-reviewed publications. He is the recipient of the 2010 Gold Medal for Excellence in Research from the Australian Institute of Nuclear Science and Engineering, a 2011–14 Australian Post-Doctoral Fellowship from the Australian Research Council, the 2012 NMI Prize for Measurement Excellence from the National Measurement Institute, Australia, a 2012 Victoria Fellowship, and the 2014 RMIT Vice-Chancellor's Early Career Researcher Award.

DR ANDREW SIEBEL (DEPUTY CHAIR)

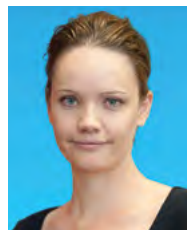


Andrew completed his PhD studies in 2004 through the Department of Zoology, University of Melbourne working in the field of Reproductive Endocrinology using the Tammar Wallaby as an animal model. In 2005, Andrew received a 4-year NH&MRC Peter Doherty Research Fellowship to work on the Developmental

Origins of Metabolic Diseases in a rodent model of growth restriction with Mary Wlodek in the Department of Physiology, University of Melbourne.

In 2009, he moved to the Baker IDI Heart & Diabetes Institute to work with Assam El-Osta in the Human Epigenetics Laboratory investigating the genetic and epigenetic mechanisms underlying the concept of glycaemic memory in a transgenic mouse model. Andrew is currently is a Senior Research Officer working with Bronwyn Kingwell in the Metabolic and Vascular Physiology Laboratory at Baker IDI Heart & Diabetes Institute. He is investigating the beneficial effects of HDL cholesterol in the context of cardiovascular disease and diabetes.

DR KATE HOY (DEPUTY CHAIR)



Kate is a Senior Research Fellow, NHMRC Career Development Fellow and Clinical Neuropsychologist at Monash University where she leads the Cognitive Neurotechnology Research Group within the Monash Alfred Psychiatry Research Centre (MAPrc). Her research group investigates the neurocognitive

and neurobiological outcomes of non-invasive brain stimulation techniques, such as TMS and tDCS, the ultimate goal of which is the development of novel biological approaches to the treatment of cognitive impairment. Kate is passionate about communicating science to the public, not only her own research, but the importance and impact of science in general. She has published articles in consumer targeted magazines (i.e. Link Disability Magazine) and on the conversation website. Kate was awarded a 2013 Victorian Tall Poppy Science Award in recognition of both her research excellence and commitment to science communication.

DR NIKOLA BOWDEN



Nikola is a Cancer Institute NSW Career Development Fellow at the Hunter Medical Research Institute (HMRI) and University of Newcastle. After being awarded a PhD in schizophrenia genomics in 2006 she received an NHMRC training (postdoctoral) Fellowship in 2009 and changed her research focus

to DNA repair and cancer. In 2010, she was an invited Visiting Fellow at the National Cancer Institute, National Institutes of Health, in the US. She was awarded the University of Newcastle Young Alumni of the Year in 2011 for excellence in leadership and innovation.

Nikola leads a team of researchers investigating DNA repair triggered by sunlight and chemotherapy in melanoma. She is also investigating the same process in ovarian cancers that are resistant to chemotherapy. Her overall goal is to rapidly develop new combination therapies and diagnostic tests for both melanoma and ovarian cancer.

Nikola is a proud Mum of three and an advocate for women in science and scientific communication. She regularly speaks at major community events and with cancer patient support/advocacy groups.

DR ADRIAN CARTER



Dr Adrian Carter is a Senior Research Fellow at the Monash Clinical and Imaging Neuroscience, School of Psychological Sciences, Monash University. His research examines the impact that neuroscience has on understanding and treatment of addiction and other compulsive

behaviours. This includes the impact of neuroscience on: our notions of agency, identity and moral responsibility; the use of coercion and the capacity for voluntary control of addictive or compulsive behaviours; and the use of emerging technologies, such as deep brain stimulation and brain imaging, to treat addiction.

After completing his PhD at the Queensland Brain Institute (2009), Dr Carter was awarded an NHMRC Postdoctoral Fellowship (2010–14). Dr Carter is currently funded by an ARC Discovery Early Career Award (2014–17). He received the Australasian Professional Society of Alcohol and Other Drugs 'Early Career Award for Excellence in Research and Science' (2012), the Australian National Drug and Alcohol Award for Excellence in Research (2010) and The University of Queensland Dean's Award for Outstanding Research Higher Degree Theses (2010). He has published two books, including 'Addiction Neuroethics: The Promises and Perils of Addiction Neuroscience' (Cambridge University Press, 2012). Dr Carter has over 80 publications, including reports for the World Health Organization (WHO), the European Monitoring Centre for Drugs and Drug Addiction, and the Australian Ministerial Council on Drugs Strategy. He has been an advisor to the WHO and United Nations Office on Drugs and Crime (UNODC) on the use of coercion in drug treatment and the ethical treatment of opioid dependence.

DR MICHAEL CRICHTON



From Edinburgh, Scotland, Michael is currently a postdoctoral research fellow at the Australian Institute for Bioengineering and Nanotechnology (AIBN) at the University of Queensland. His research is focussed on understanding biomaterial tissue mechanics for application to novel micro-devices for drug and vaccine

delivery. Specifically, he employs mechanical engineering testing techniques to understand how to better design devices for functional interaction with epithelial tissue. He earned his MEng (Hons) in Aeronautical Engineering from the University of Glasgow in 2007, followed by a PhD in Biomedical Engineering at the University of Queensland's AIBN in 2012. He then joined a start-up company working to translate a medical device from laboratory testing to human clinical trials, which was built upon the devices that he was working on during his PhD. His focus within the company was on engineering a device for scale up to human, performing a range of pre-clinical trials. At the beginning of 2014 Michael returned to an academic research role at the

University of Queensland where he continues to work on novel biomedical device research, with a keen focus on translatable technologies. His goal is to be able to expand understanding of biological interactions for microdevices and subsequently apply these with advanced manufacturing techniques for rapid translation of low cost healthcare.

ASSOCIATE PROFESSOR ANDREAS FOURAS



Andreas is a mechanical engineer working exclusively in the field of medical research. After graduating in 2008 he established the Laboratory for Dynamic Imaging in 2009, which today consists of five staff, 15 postgraduate students and 10 honours students. Andreas' research lies in mechanobiology—the idea that

physical forces are a key, and sometimes forgotten part, of biology and medicine. Most notably, he has developed a completely new imaging modality with the potential to revolutionise respiratory medicine through early diagnosis, increased patient safety, higher throughput and lower costs.

Andreas has received numerous awards for his work including a Monash University Vice Chancellor's Award, NHMRC Achievement Award and Australian Leadership Award (ADC Forum). In order to accelerate the impact of his research, Andreas founded 4Dx—a medical technology company with ambitions to improve global healthcare while delivering into the Australian economy.

DR MAGGIE HARDY



Originally from Boston, Massachusetts, Maggie is currently a UQ Postdoctoral Research Fellow at the Institute for Molecular Bioscience. She publishes broadly in the areas of sustainable agriculture and insecticide toxicology. She earned her MSc in Entomology from the University of Hawai'i in 2007,

and in 2011 she earned her PhD at The University of Queensland's Institute for Molecular Bioscience. Maggie's research program is focused on discovering novel, environmentally friendly, orally active insecticides from the venom of native Australian spiders, including funnel-webs and tarantulas, and she is co-author on the patents granted on her technology.

In addition to her research, Maggie has long been involved with programs designed to help traditionally underrepresented groups achieve equity in higher education and careers in science. Maggie is a delighted mom of three children under three, and is actively engaged with science engagement and science policy. You can follow her on Twitter @DrMaggieHardy.

DR ROSLYN HICKSON



Roslyn is a Research Scientist with IBM Research—Australia. As an applied mathematician, Roslyn works with inter-disciplinary teams across problems in the natural resources and healthcare areas. In 2014 Roslyn was awarded the IBM Client Value Outstanding Technical Achievement Award. Roslyn completed

her PhD studies through UNSW Canberra in 2010, where her research into the critical times of heat and mass transfer through multiple layers was jointly awarded the Ria de Groot prize for the best female postgraduate student. Roslyn then took up a position as a Research Fellow with the National Centre for Epidemiology and Population Health at the Australian National University. At NCEPH, Roslyn's work focussed on informing policy and practice through the mathematical modelling of infectious diseases. In December 2011 Roslyn was awarded a four year University of Newcastle Postdoctoral Research Fellowship to continue her work in infectious disease modelling, before joining IBM Research-Australia in May 2014. Roslyn's infectious disease modelling work has ranged from methodological contributions to working on multidisciplinary teams for specific diseases, including tuberculosis, dengue fever, influenza and Ebola.

Roslyn has been heavily involved in the Australian and New Zealand Industrial and Applied Mathematics professional body, having served on the national executive since 2010, and as the Early Career Representative since 2013. Roslyn has made significant contributions to the organisation of six conferences, including chairing an international workshop on infectious disease modelling in Newcastle. Roslyn has been instrumental in creating opportunities for early career mathematicians, having successfully advocated for the inclusion of a research student representative on the national executive of ANZIAM, and the co-location of the AMSI Early Career Research Workshops with the ANZIAM conference. Roslyn is also involved in mathematics outreach activities, including contributing to the design of a maths based problem for the Science and Engineering Challenge, and having spoken on 2NURFM on several occasions about interesting maths problems.

DR RACHEL POPELKA-FILCOFF



Rachel is an Australian Institute of Nuclear Science and Engineering (AINSE) Senior Research Fellow in the School of Chemical and Physical Sciences at Flinders University. Her research program is based on radioanalytical and spectroscopic methods for archaeological science and forensic studies and the application of

analytical, radioanalytical and physical methods to cultural, environmental and forensic questions. Her work is to the first characterisation of Australian Aboriginal natural mineral pigments on cultural heritage materials, including ochre, by several advanced analytical methods. She has also contributed to the comprehensive characterisation of Australian uranium materials for nuclear forensics. A significant portion of her research is based at the Australian Nuclear Science and Technology Organisation (ANSTO), as well as collaborations with other forensic and cultural heritage institutes and universities. Rachel holds a PhD in Chemistry from the University of Missouri (USA), and completed a National Research Council postdoc at the National Institute of Standards and Technology (NIST, USA).

Rachel has received awards for her research including the Vice Chancellor's Award for Early Career Researchers (2010) and the South Australian Tall Poppy of the Year in 2012, which recognises to top early career researcher in the state. She has also had her research profiled in several scientific and general media outlets such as Cosmos Magazine, Chemistry in Australia, and Chemistry World, and several radio interviews.

Rachel co-founded and leads the Early Career Group in the Faculty of Science and Engineering and Faculty of Medicine at Flinders University. She is also on the ECR Advisory Group to the Premier's Science Council for South Australia.

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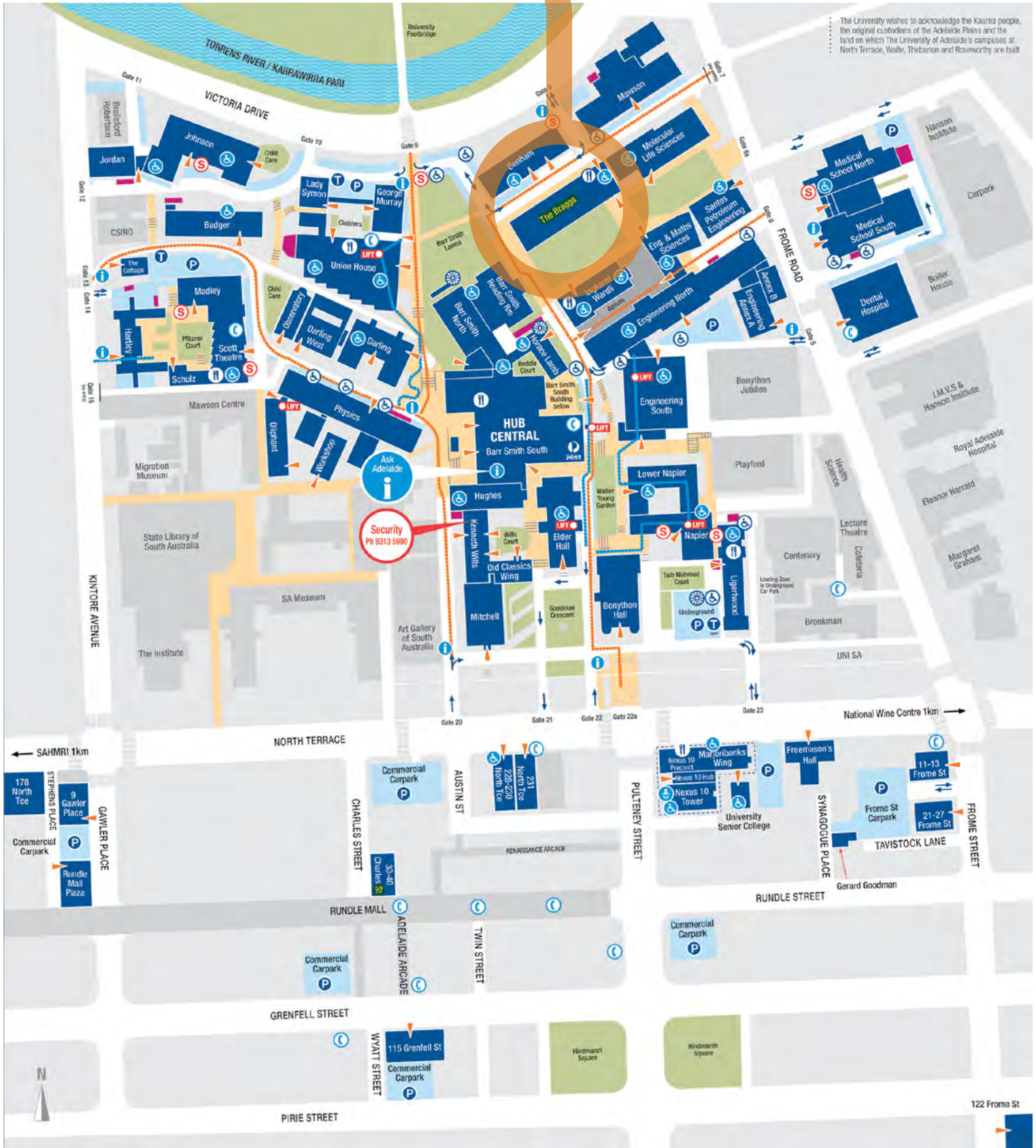
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Map

Location of The Braggs



Map: www.adelaide.edu.au/campuses/mapscurrent/north_terrace.pdf

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