

FACULTY OF SCIENCE RESEARCH BULLETIN



Charles Sturt
University

ISSUE 5: JUNE 2019



Welcome to Issue 5 of the Faculty of Science Research Bulletin. Winter is here, but that doesn't mean that we are slowing down!

This issue features an interview with Professor Sam Adeloju, Deputy Dean of Science. Sam joined Charles Sturt in February 2019 from Monash University. As you will read, Sam has extensive academic and research experience which is sure to benefit FOS.

There is also news about the four 3MT finalists from Science who will be presenting at the CSU 3MT final, please go along and cheer them if you can.

As usual there is news about funding opportunities and professional development workshops available. In particular applications for the Granted (grant writing) program, CSU Green grants and the FOS SRISS grants close this week.

PdCSU is hosting Professor Rick Shine, from Macquarie University, in a talk about Cane Toads, everyone is welcome to hear about his research.

There is more information about ORCID profiles.....and the ORCID competition winners. Why so much information about ORCID profiles? Hint, hint they are important, and all authors should have one to ensure their work is recognised.

The bulletin is emailed to all staff and HDR candidates in the Faculty of Science in the first week of each month. If you have a news item, a resource, announcement or a great achievement related to research or HDR candidature you'd like to share, please send it to [Deborah](#) or [Melanie](#) for inclusion in the next bulletin.

Previous issues of the bulletin can be downloaded from the Faculty of Science Research Bulletin page [here](#)

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Congratulations – Approved for Graduation



Alexander MacQuarrie, thesis titled “Fit for Duty: Context and Correlates of Paramedic Health Status and Job Performance”

Doaa Hanafy, thesis titled “In vitro evaluation of extracts from Mentha species for potential treatment of Alzheimer's disease”

Forough Ataollahi, thesis titled “Effect of maternal supplementation with calcium and magnesium on immune response, energy metabolism and mineral profile of Merino ewes and their lambs”

Kelsey Richards, thesis titled “An Examination of Women in Leadership Positions in Sport: A Case Study of Australian Rules Football”

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RTP Scholarships expected to open in July

Coming
Soon!

The next round of Australian Government funded Research Training Program (AGRTP) scholarships for commencement in 2020 are expected to open next month. Candidates commencing in 2020 or candidates who are currently enrolled in a Higher Degree by Research may be eligible to apply.

All the information will be available on the [Research Scholarships page](#). In the meantime, you can learn more about the scholarships offered in the previous round.

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CSU 3MT Final – Wednesday 27 June



Congratulations to all students who participated in the 3MT heats on 27 & 29 May. The following four candidates from Science will go on to present in the CSU 3MT final on Thursday 27 June:

- Michelle Williams – *Biosecurity and seafood safety: Why parasites matter?*
- James Lee - *Starch is life*
- Blake Collins - *A Shift in Focus*

- Md. Shafaet Hossen - *Our Australian fish: Unwelcome parasite hitchhikers*

Well done!

Please come along to support our finalists at the CD Blake Lecture Theatre on Albury campus from 4.30pm – 6.30pm Thursday 27 June 2019. The winner of the final will go on to represent the University at the 2019 Asia-Pacific 3MT Competition being held in Brisbane in October.

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Census Date – 9 August 2019

August census date is a little way off yet, but in order to avoid delays in the examination process please ensure examiners are finalised as soon as possible. Although candidates should not know who their final examiners will be, they should initiate a discussion with their supervisors early on to identify researchers with expertise in the field who could provide a fair and balanced assessment of the work.

Candidates are also encouraged to state who they would not want as an examiner, for example where they are known to have strongly opposing views, methodologies and/or practices.

The Principal Supervisor is then asked to contact potential examiners and complete the [Notification of Readiness to Submit Thesis & Appointment of Examiners form](#) and forward to the Sub Dean Associate Professor Sandra Savocchia for review.

For any questions regarding the process please contact [Melanie](#).

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HDR Welcome & Induction

A reminder that the next HDR Candidate Welcome and Induction session is happening on Thursday 13 June, 2019. Please visit the [Professional Development Calendar](#) to register for this session. These sessions are highly recommended for new candidates commencing in 2019 and provide essential information about getting started.

Attending an induction session is also part of the probationary conditions for candidature so if you haven't completed this previously, you will still be classified as 'on probation'.

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August Graduation Ceremony



If you are planning to graduate at one of the ceremonies in Sydney in August, please note that the deadline to have all of your requirements for graduation finalised with the Research Office is by 11 July 2019.

This means, following examination, having your response to examiners approved and receiving confirmation that you have been approved to graduate, you will need to upload your final thesis and submit your synopsis by 11 July 2019.

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Getting to Know – Professor Sam Adeloju



Professor Sam Adeloju is the Deputy Dean of Science, who has now been at Charles Sturt for close to four months.

At which university did you work at prior to CSU? What did you do there?

Prior to coming to CSU this year, I worked at Monash University for just over 16 years. The various positions I held at Monash include Professorial Chair and Head of School of Applied Sciences and Engineering for 9 years, Campus Director of Research and Graduate Studies for 3 years (concurrently with my role as HOS), Executive Director of a Monash not-for-profit company (Australian Sustainable Industry Research Centre) for 7 years (concurrently with my role as HoS), Professor of Chemistry and Director of Research Development in Science and Engineering for 3 years and Professor of Chemistry in the School of Chemistry for 4 years.

Before I went to Monash, I held several positions at the Western Sydney University as Senior Lecturer and Head of Department of Chemistry, Associate Professor and Professor of Chemistry and Environmental Science. In addition, I was the Director of a University Research Centre for over 15 years (concurrently with my respective academic appointments). Prior to my appointments at Western Sydney University, I was a Lecturer in Analytical and Environmental Chemistry, and Associate Director of the Centre for Chemical and Biological Analysis at Deakin University in Geelong.

In addition to the above appointments, I have held Visiting Professorships at the University of Tasmania, University of Goteborg (Sweden), University of Liverpool (UK), Hefei University of Technology (China), and University of Kuala Lumpur (Malaysia). I have also served as a Senior Foreign Expert under the Chinese government funded China Talent-1000 program.

What are your research specialities?

When I started my research as a postdoc and in early academic positions, my research foci were on the detection of trace metals and metalloids by stripping voltammetry, analytical spectroscopy and corrosion technology. Through my research in those days, I was involved in pioneering a number of adsorptive stripping voltammetric methods for a range of difficult-to-analyse trace metals, such as cobalt, nickel, vanadium, molybdenum, tin, selenium and arsenic. I was also involved in developing novel flow injection-based analytical spectroscopy methods for detection of arsenic, mercury, selenium, bismuth, and cadmium.

Over the years, my research evolved to new emerging areas and I have subsequently made original and innovative contributions to the design, fabrication, and characterization of conducting polymers, biosensors, nanobiosensors, nanomaterials and microbial fuel cells. My current research interests are focused on the development and utilization of advances in bioanalytical and biological chemistry coupled with nanotechnology for fabrication of novel advanced nanodevices and nanoanalytical systems, including nanobiosensors, medical diagnostics and microbial fuel cells. In these areas, I have made significant contributions to the development of biosensors and nanobiosensors for clinical, environmental and food analyses, as well as in the development of microbial fuel cells (MFCs) for power generation from wastewaters. I have published extensively, more than 300 papers, in international journals, books and proceedings. I also have 4 patents for inventions from my research.

The recognition of my research has resulted in the Royal Australia Chemical Institute (RACI) awards for Applied Research Medal (2009), R.H. Stokes Medal for Electrochemistry (2011), Doreen Clark Medal for Analytical Chemistry (2013) and Citation Award for Excellence in Leadership and Service (2017). Furthermore, I am Editor-in-Chief of the Chemistry Section of the Applied Sciences Journal (MDPI) and also on the International Advisory Board for Sci Journal (MDPI), Editorial Boards for Biosensors (MDPI), Heliyon (Elsevier) and other international journals.

Who is funding your research?

I have been successful throughout my career in receiving over \$13 million in research funding and research contracts from ARC, Pasminco Research Centre, Department of Science and Technology (Philippines), Clarence Colliery, Australian Coal Research Program, Art Gallery of NSW, 3M Aust Ltd, Department of Innovation, Industry Research

and Development (Victoria), Collex Aust Pty Ltd, Dairy Aust Research Development Grant, Prana Biotechnology Pty Ltd, Victoria Innovation, Industry and Regional Development Grant, Nanotechnology Victoria, NanoVentures Australia, Asia Pacific Network for Global Change (APN, Japan), Department of Primary Industry, Victoria, Brown Coal Innovation Australia, China Talent-1000 Program, and CarbonNet EIF Funding.

What would be your key piece of advice for a new researcher?

Don't be a passive researcher, Don't wait to be told what to do all the time; learn the tricks of the trade early and make a difference by improving on it; be ambitious, innovative, agile, be ready to evolve and stay at the cutting-edge of research; aspire to be an expert in your field; learn and aspire to be an active and effective writer, author and speaker.

What do you do away from CSU?

Walking (10,000+ steps daily), reading contemporary books, listening and dancing to music (my African inheritance), cooking and chilling out, inter-state and overseas travel.

Thank you for your time Sam. Welcome to Charles Sturt and the Faculty of Science.

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Research Portfolio Update



The DVC Research, Development & Industry portfolio structure has recently been updated and the portfolio will now be known as **DVC Research and Engagement**.

While there have been minimal changes and the majority of roles have remained unchanged, there have been some changes to reporting lines and positions descriptions. Some of the changes include three new Pro Vice-Chancellors roles:

- Pro Vice-Chancellor Community & Global Engagement
- Pro Vice-Chancellor Indigenous Engagement
- Pro Vice-Chancellor Research & Innovation

While the PVC CGE and PVC IE roles are yet to be filled, I have great pleasure in announcing that **Professor Michael Friend** has been appointed to the PVC Research & Innovation role, in an interim capacity until the substantive position has been filled. Recruitment for all three PVC roles will commence shortly.

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RESEARCH TIP: Audit Requirements for Research Project Income



Researchers are reminded that each year **external research income and expenditure** is subject to audit by the NSW Auditor General's Office. All project related income and expenditure is reviewed and assessed in line with the obligations the University has agreed to within **all** research funding agreements.

Project related expenditure must be aligned with the agreed budget which forms part of the application and contract between the University and the external funding organisation. Expenditure must also be incurred within the executed contract timelines for project activity.

Researchers are reminded that any requirements to alter or request a variation to the project activity, budget, or timelines should be communicated to the Research Office in the first instance by contacting your Research Office Liaison Officer on 02 6933 2578, or via email: research@csu.edu.au

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Faculty Board

The following members of academic staff have been declared elected to the positions on the Faculty of Science Board:

School of Agricultural & Wine Sciences Dr Ben Stodart
School of Animal & Veterinary Sciences Dr Andrew Peters
School of Biomedical Sciences Mr George John
School of Community Health Dr Tracey Parnell
School of Dentistry & Health Sciences Dr Muhammed Yakin
School of Environmental Sciences Dr Jonathon Howard
School of Exercise Sciences, Sport & Health Dr Chelsea Litchfield
School of Nursing, Midwifery & Indigenous Health Dr Sophia Dywili

Professoriate Members

Associate Professor Marguerite Bramble
Professor Rodney Pope
Associate Professor Maree Simpson

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Faculty Editing Service



Academic staff in the Faculty of Science are reminded that they can access the editing service to help 'fine-tune' their research papers before they are submitted to journals for publication.

The aim of the service is to help improve the quality of papers being submitted to journals and in doing so, improve overall acceptance rates. The service is available to all academic staff but the focus is on papers targeting higher ranked journals (JCR, SJR

Q1 & Q2). The service can also be used to edit grant funding applications. It is not available to students and HDR candidates.

To access this service, you need to complete a single page application form. For more details or an application form, email Mark Filmer (mfilmer@csu.edu.au).

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FUNDING OPPORTUNITIES



***** Please note that all applications for external funding must be submitted to the CSU Research Office 10 working days prior to the granting bodies closing date with a completed Notice to Submit (NTS) form including all signatures of researchers, HOS and ADR.***

Reminder: Granted Program – Applications close 7 June 2019

Applications are invited from early- and mid-career researchers to participate in the Granted program in 2019. Granted is an online course in grant writing and development offered by *Postdoc Solutions Online*.

The program guides participants through the process of writing a draft grant proposal, with personal support, mentoring, and strategic advice by a dedicated facilitator. Participants will complete six course modules structured over an 8-week program, and then implement what they learn to develop a draft grant proposal ahead of a one-on-one coaching session.

There are 10 funded places available in the Granted program, commencing 29th July 2019.

Selection into the program is through a competitive Expression of Interest process. Further information regarding this program, eligibility criteria, and an Expression of Interest form are available at S:\Common\ Temp Folder Less Than 60 Days\Granted. Applications close Friday, 7 June 2019.

Please direct any questions to Dr Alison Matthews, Manager Research Professional Development on 02 6051 9429 or email almatthews@csu.edu.au.

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Faculty of Science Small Research Infrastructure Support Scheme



The Faculty of Science (FOS) is pleased to announce the release of the funding guidelines for the 2019 Small Research Infrastructure Support Scheme (RISS).

The aim of this scheme is to allow purchase of equipment, infrastructure or services, including research support staff, to enable FOS staff and students to achieve greater research quality and productivity across the FOS. A maximum of \$30,000 is available per application. Applications for the scheme close on **11 June 2019, 5pm**.

Applications through this scheme can include the following: research support staff time including on-costs; access to external databases, facilities or other internal or external research services; small to medium items of equipment, and maintenance or replacement costs for existing equipment.

Items that CANNOT be funded include: travel, conference support or facilities hire; sponsorship; publication charges; costs for consumables related to equipment such as enzymes, chemicals, plastic ware or any other general costs associated with use of an equipment item. Please do not include these in your application.

The funding guidelines and application form can be found at the following link: S:\Common\ Temp Folder Less Than 90 Days\FOS RISS SCHEME

If you are unsure if your request may be eligible for funding, please contact FOS-ADR@csu.edu.au for discussion prior to lodging your application.

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CSU Green Project Grants

Green Project Grants are now open. Projects up to \$10,000 can be funded to improve the sustainability of our university through alignment with our recently launched Sustainability Statement (<https://www.csu.edu.au/csugreen/about-us/sustainability-statement>)

The grants are open to both students and staff so get together and make some ideas come to life!

Applications close June 26 2019 For more, see <https://www.csu.edu.au/csugreen/grants>

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HCF Research Foundation – Now open



The HCF Research Foundation EOI program is now open for 2019. Research teams focused on improving **health services aligned to the advertised topics** are encouraged to apply. Funding for successful research programs will commence 1 January 2020.

Applications will close on the **27th June 2019, 5:00pm AEST**. For more information, including the application guidelines and forms please visit <https://www.hcf.com.au/about-us/hcf-foundation/hcf-foundation-applications>.

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St John Ambulance Australia – Funding for First Aid Related Research

St John Ambulance Australia (St John) is Australia's leading provider of first aid training, health care aid at public events, and the premier supplier of first aid kits and equipment. St John runs the statutory ambulance services in Western Australia and the Northern Territory, and provides a range of community services and youth development programs. Read the [2018 Annual Report](#) for more information.

Surprisingly, there is little research evidence to support a lot of first aid practice. In support of first aid-related research in Australia, **St John is pleased to offer funding of up to \$10,000 to assist relevant research projects**. This funding is available to Australian tertiary students with the necessary skills to produce high quality research. All submitted applications will be reviewed by the St John Ambulance Human Research Ethics Committee of the Medical Advisory Panel.

Receipt for applications close on **Tuesday 18 June 2019**. Application forms and other documents can be requested from: publications@stjohn.org.au

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Australian Association of Gerontology – Strategic Research Grants

The Strategic Research Grants funding program is focussed on early and mid-career researchers (up to eight years post-PhD, considering career interruption), and practitioners engaged in research.

Following the success of the inaugural grants last year, the Strategic Research Grants will be aiming to develop research capacity in the diverse fields related to ageing in Australia. It supports the development and translation of the evidence base, through facilitating dynamic and responsive research that will improve research impact by contributing to research programs and research translation.

The second funding round of the Strategic Research Grants is offering two \$30,000 grants. Grants close 29th of June. More information [here](#)

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Endeavour College of Natural Health

Endeavour College of Natural Health's Research Grant Program is made up two categories, both open to external researchers in the complementary medicine (CM) field for projects involving a collaborator who is affiliated with Endeavour. In 2019 there are Seed Grants and Research Project Grants – applications for both schemes close 1 July 2019. Information can be accessed [here](#).

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ARC Linkage Grants



The Linkage Program promotes national and international research partnerships between researchers and business, industry, community organisations and other publicly funded research agencies. By supporting the development of partnerships, the ARC encourages the transfer of skills, knowledge and ideas as a basis for securing commercial and other benefits of research.

The Linkage Projects grant opportunity supports projects which initiate or develop long term strategic research alliances to apply advanced knowledge to problems, acquire new knowledge and as a basis for securing commercial and other benefits of research.

To facilitate successful collaboration between higher education institutions and other parts of the innovation system, Linkage Projects applications can be submitted at any time and funding outcomes are recommended to the Minister within six months of application submission. <https://www.arc.gov.au/grants/linkage-program/linkage-projects>

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2019 CSL Florey Medal

The 2019 CSL Florey Medal will be awarded to an Australian biomedical researcher for significant lifetime achievements in biomedical science and/or human health advancement for research conducted primarily in Australia.

The CSL Florey Medal may be awarded to an individual, or jointly to up to three persons who would share the \$50,000 prize money. There are no conditions attached to utilisation of the prize money. Applications close 28 June 2019. For more information please refer [here](#)

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Falling Walls Lab Australia – Now open

The Australian Academy of Science invites applications from researchers living and working in Australia who are postdocs and students, entrepreneurs, engineers and innovators from all areas to attend Australia's Falling Walls Lab in 2019.

Falling Walls Lab Australia will be held on 3 September 2019 at the Academy's Shine Dome, Canberra. Twenty Australian contestants will be invited to participate in the challenge, each giving a three-minute presentation on their research, business model or initiative based on the 'Which walls will fall next?' concept. For more information visit the Falling Walls Lab. Presentation templates and further instructions will be provided to successful applicants.

Applications close – 11 July 2019 - More information is available here – [Falling Walls Lab Academy of Science](#)

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2019 NSW Premier's Prizes for Science and Engineering



Scientists, engineers and teachers working in NSW universities, research organisations, government agencies, and primary and secondary schools are encouraged to submit a nomination for the relevant prize category.

A trophy and prize of \$5,000 will be awarded to the winner in nine categories. A prize of \$60,000 is awarded to the Scientist of the Year. A nomination form, category definitions and guidelines are available at: [Premiersprizes](#)

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Google Scholar profile
Scopus Author ID

You can also add in any websites, blogs or social media accounts so that all of your information is easily accessible in one location.

Linking your CRO (Charles Sturt University Research Online) and ORCID profiles.

To ensure that all your Charles Sturt University information and research outputs are added to your ORCID profile you can link your CRO profile. This means that by updating your CRO profile your ORCID profile is automatically updated a short time later.

To link your profile, log in to PURE, then click on the "Edit Profile" button, then look for this option:



Then click the link and create your ORCID profile, or add in your details. Or if you are having any difficulties, contact the library for help.

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Want to know more or need more help?

You can contact your friendly [Faculty Liaison Librarian](#), or look at these resources:

- [Researcher profiles & ORCID](#)
- Video guide – [What is ORCID](#)
- Video guide – [How to integrate your ORCID profile into CRO](#)
- Library guide: CRO ([Your Profiles – CRO and ORCID](#))

Don't forget to come along to one of our training sessions on ORCID and CRO, or one of the many other options we have coming up this month:

3rd Jun 2019 9.30- 10.30am	Using Citation Databases Effectively This session will introduce you in detail to the citation databases. It will show you how you how to identify key articles or authors through citation counts, and how to use this to expand your searching.
5th Jun 2019 2.00- 3.00pm	Where to publish This session will outline good practice and introduce you to a checklist of what to look for to identify suspicious publishers
11th Jun 2019 9.30- 10.30am	Promoting your research: Establishing a Research Profile Need to set up a Research Profile and not sure what is out there or how to go about it? This session will show you the different profiles available, and their features and how to establish and maintain your profile.
17th Jun 2019 2.00- 3.00pm	Literature review using EndNote & NVivo – An introduction With your new skills with Nvivo, you can now learn how to use EndNote and Nvivo to manage and write your literature review. You can import EndNote data into Nvivo and you can cite details from your Nvivo analysis.
25th Jun 2019 9.30- 10.30am	Understanding Open Access This session will create an understanding of Open Access publishing. What it is, forms of Open Access Publishing, why and how to identify suitable journals, with added information on sharing resources.

Professional Development Calendar

There are a range of sessions available to staff and HDR candidates that may be of interest including NVivo, Endnote, Focus Group Interviews and Introduction to GIS. The Professional Development Calendar is available [here](#).

Managing My Research Project Workshop



Do you have a funded research project? This session is all about enabling you to better understand the processes and people within CSU who can support you in managing your research project. The sessions includes understanding your contractual obligations, how to access your budget and fund codes, and key tips to enable you to connect with systems and support people to manage project expenditure. **6 June 9.30am – 11am.** More information and registration [here](#)

My Research Career – Building a track record and web presence

In this module you will learn about the components of a research track record and strategies you can develop to improve your track record and its presentation to peers. You will also be introduced to strategies for establishing and maintaining a web profile. Future modules will cover building your track record in relation to publishing, grant writing and networking. **11 June 2019 9.20am – 11am.** More information and registration [here](#)

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Getting Started with Intellectual Property

INTELLECTUAL
PROPERTY



IP Australia is an Australian Government agency that administers intellectual property (IP) rights and legislation relating to patents, trademarks, designs and plant breeder's rights. The IP Australia website is a great source of information about where to get started in regard to IP. The site includes case studies and tips. [IP Australia](#)

TIP: IP Australia suggest that you do not publish your design or patent in any form until ownership has been confirmed. This includes not tweeting, or putting it on Facebook or writing about it in journals.

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National Science Week 2019 – Host a Brain Break morning tea



National Science Week takes place from **10 – 18 August 2019**. In the past two years, FOS has celebrated by hosting science themed morning teas during National Science Week. In 2018 morning teas were held on the Bathurst, Port Macquarie and Wagga campuses. In 2019 we are aiming for morning teas to be held on all Charles Sturt campuses. An organiser to send out the invites is required for each campus.

If you are interested in being an organiser/host of a morning tea (or other event) please get in contact with Deborah Munns - dmunns@csu.edu.au for more information.



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ORCiD - Winners

Congratulations to the following readers of the FOS Bulletin who have received a CSU travel mug for simply emailing their ORCiD number. Mugs are now winging their way to most CSU campuses.



* FOS encourages all researchers and authors to obtain an ORCiD number.

Kylie Murphy – SCH	Maggie Watson – SES	
Paul Prenzler - SAWS	Marie Bhanugopan – SAVS	Shokoofeh Shamsi - SAVS
Michael Cahill – SBMS	Jayden Hunter – SESSH	James Turner - SES
Shaun Wang – SCH	Amanda Chandler - SDHS	Grant Brechney – SESSH
Cate Thomas – FOS	Greg Fry – Library	Jane Quinn - SAVS
Sangay Wangchuk – SES	Celia Barril - SAWS	Shawn McGrath – SAVS

Congratulations. Enjoy using your mug on the chilly days ahead.

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Finally..... Why Don't Penguins' Feet Freeze?



As we slip on our boots and thick socks, have you ever pondered how penguins can stand on ice? Penguins stand on ice, not only for days, but their whole lives! And their feet don't hurt like ours would. It has something to do with blood and an amazing twist that penguins have developed.

Click [here](#) to find out more.

Next Issue:

If you would like to contribute a story to the July 2019 issue please send it to **Deborah or Melanie** by the **24th of June**. The next issue will be released in the first week of **July 2019**.

Until next issue.....

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