

FACULTY OF SCIENCE RESEARCH BULLETIN



Charles Sturt
University

ISSUE 1: February 2020



Welcome to Issue 1 of the Faculty of Science Research Bulletin, the first for 2020 and the decade! We hope you have had a restful summer break and are now ready to reach your 2020 research goals.

In this issue we get to know Jhoana Opena, PhD candidate in the School of Agricultural and Wine Sciences, who is investigating suppressive abilities of the pasture legume phase on barnyard grass in drill-sown rice.

We also have plenty of information about funding opportunities, scholarships and professional development opportunities for both staff and HDR candidates to assist with starting the year.

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



Lars Dalen, thesis titled “BarnAs 1 - Development of an assessment tool for mapping activity preferences for children and adolescents (5-18) with disabilities”.

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Welcome to our New Candidates

Mikayla Hoad – School of Biomedical Sciences, working with Jade Forwood and Shane Raidal. Mikayla commenced this session full-time on the Wagga Wagga campus.

Please make her feel welcome.

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Progress Reporting Round – Now Open



The 201960 progress reporting is open now! You should have received an email from the Research Office inviting you to initiate your report for 201960. HDR candidates are required to report on the progress of their research twice per year. Candidates should provide and account of the progress during this period and plans for the next reporting period and provide honest and respectful feedback on the relationship and dynamic of their supervisory team.

It is important that candidates engage in the reporting process as the information contained within these reports is considered by the Director, Research when making decisions relating to requests for leave, scholarship and candidature extensions.

The initial student entry section should be completed and sent to your supervisor by Tuesday 18 February 2020.

If you have any questions at all please contact graduateresearch@csu.edu.au.

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University Research Committee HDR Student Representatives

The University Research Committee (URC) membership includes two Higher Degree by Research students; both positions are currently vacant.

Student representatives attend meetings and ensure that the students' perspective is heard within the University planning process. The representatives are able to raise issues of concern to students and have full voting rights. They are able to alert the broader student community to proposed changes, and contribute to issues that emerge.

Please note that student representatives cannot also be members of staff.

If you're interested, please complete [this nomination form](#) to apply for the HDR student representative positions and return to engagement@csu.edu.au by Wednesday 5 February.

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Getting to Know – Jhoana Opena (HDR candidate)



What School/Centre do you belong to?

School of Agricultural and Wine Sciences/Graham Centre for Agricultural Innovation

How did you come to being a PhD student as CSU?

My passion for weed management research in rice-based cropping systems brought me to explore wider perspectives and opportunities offshore. Fortunately, I was introduced to key contacts from the Ricegrower's Association of Australia (RGA) and CSU Wagga. I got invited to attend the International Temperate Rice Conference in 2017 at Griffith, NSW. My exposure to this conference kept relevant research questions on weed management on rice water-saving systems in Australia in my mind. I worked on developing a research proposal for my PhD study and was granted funding from the rice industry and a scholarship from CSU to conduct the research. Looking back, this road to PhD has gotten the best of my ability and experience so far.

What is the focus of your PhD?

My research focuses on investigating the suppressive abilities of the pasture legume phase on barnyard grass (*Echinochloa crus-galli*) in drill-sown rice.

Who is funding your research?

The AgriFutures and the Faculty of Science Compact Scholarship

Why does this research interest you and why is it important?

Engaging in research for me is like "improvement". Improvement for myself as it promotes critical thinking, improvement for the people around me as I get connected to them and benefit from its products and improvement for the environment such in the case of my research: finding ways to effectively manage threats (such as barnyard grass) in sustaining water productivity gains in rice.

What's your favourite meal?

Unripe mango with veggie salad, salted egg, and braised 'tulingan' (a locally known fish in the Philippines).

If you could invite anyone to a dinner party who would you invite and why?

I believe no other person deserves a sumptuous dinner and meaningful conversations with me but my mother whom I'm missing the most. She is thousands miles away from me and currently battling with cancer.

Thank you Jhoana.

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Congratulations Pieter Willem-Hendriks - Tim Healey Memorial Scholarship

Pieter Willem-Hendriks, PhD candidate in the School of Agricultural and Wine Science, has been awarded the Tim Healy Memorial Scholarship.

A subcommittee of the AW Howard Memorial Trust may award the scholarship annually to a deserving candidate studying in a field that benefits the future of Australian farming such as pastures, livestock management, farming systems, agronomy, farm business management, woody crops, on-farm biodiversity or socio-economic aspects of farming.

The scholarship will provide Pieter with a top-up to his stipend of \$10,000 per year.

You can find out more about the scholarship on the [PIRSA website](#).

Congratulations and well done!

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Welcome to the 2020 Research Year - Associate Dean Research



Welcome to the first FOS Research Bulletin for 2020.

Research active staff in FOS have had a busy start to 2020. The catastrophic bushfires affecting our regions have called on the expertise of a number of our researchers to provide input to local or government responses. AProf Dale Nimmo (SES) and AProf Andrew Peters (SAVS) have both been providing expertise and commentary on the effects of bushfire on our native wildlife. We have also seen a number of grant funding opportunities released in response to the impacts of the bushfires on both human and livestock health. Charles Sturt researchers have been active in responding to these calls with quality proposals and we anticipate funding flowing to FOS in response to these submissions.

The increased focus on research activity and quality in the current University climate is generally welcomed by FOS. We undertake impactful, high quality research in FOS and are encouraged that the University is placing stronger emphasis and recognition on the research activities and outputs of our staff.

Many staff, either centrally through our FOS, through their Schools, or individually have provided feedback on the proposed Research Strategy and Plan 2020-2026. FOS thank all staff who responded to this request during the summer, your input is greatly appreciated. FOS needs to have a strong voice in the shaping and development of this plan as we play a major role in the University's research productivity, income and outputs. We will also be expected to have a strong presence in operationalisation of the Strategy and delivery of its outcomes. FOS provided a high-level response to the Strategy that encompassed FOS commendations and concerns regarding the draft document and we look forward to being further engaged as the Strategy is further developed.

The current situation regarding Faculty Compact budgets is that we do not yet have an operational budget for Faculty research activities. A budget request has been lodged for 2020 and we hope to get a response soon to know if we can deliver on our various schemes for research support for staff this year.

Associate Professor Jane Quinn – Associate Dean Research (Science)

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Congratulations Geoff Currie

Congratulations to **Dr Geoff Currie**, of the School of Dentistry & Health Sciences, who was admitted as a member of the Order of Australia for his significant service to nuclear medicine and medical radiation. [Read more here.](#)

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Open Access Publishing Scheme Pilot 2019 – Update



The 2019 Open Access Publishing Scheme was run as a pilot scheme to help encourage dissemination of scholarly research through open access. Open access (OA) resources are free, unrestricted, digital materials available to anyone via the Internet. Making peer-reviewed research publications available through open access can increase the number of times a publication is accessed, read and cited.

When applications for the scheme ended in late 2019, 26 of the 33 applicants had been awarded funds to cover publishing fees in Open Access Journals. To date (mid-January), 11 articles have been published with 10 of the articles published in open access journals classified as '**Q1**' (first quartile) of the Scimago

Journal Rankings (SJR). The remaining articles are waiting on reviewer comments or the authors are responding to reviewer comments.

Published articles include:

Black sorghum phenolic extract regulates expression of genes associated with oxidative stress and inflammation in human endothelial cells, [Francis, N.](#), [Rao, S.](#), [Blanchard, C.](#) & [Santhakumar, A.](#), 12 Sep 2019, In : [Molecules](#). 24, 18, p. 1-11 11 p., 3321.

Development of a method suitable for high-throughput screening to measure antioxidant activity in a linoleic acid emulsion; [Ghani, M. A.](#), [Barril, C.](#), [Bedgood, D.](#) & [Prenzler, P.](#), 02 Sep 2019, In : [Antioxidants](#). 8.

Factors associated with survival and return to function following synovial infections in horses; [Crosby, D.](#), [Labens, R.](#), [Hughes, K.](#), [Nielson, S.](#) & [Hilbert, B.](#), 22 Oct 2019, In : [Frontiers in Veterinary Science](#). 6, p. 1-9 9 p., 367.

A whole canopy gas exchange system for the targeted manipulation of grapevine source-sink relations using sub-ambient CO₂. [Smith, J.](#), [Edwards, E.](#), [Walker, A.](#), [Gouot, J.](#), [Barril, C.](#) & [Holzapfel, B.](#), 2019, In : [BMC Plant Biology](#). 19, 535.

Where to from here? While funding for this scheme has ended, we will continue to monitor citations and downloads for all published articles. Further analysis of this scheme will take place in mid-2020. In the meantime, please consider publishing in Open Access Journals. For more information about open access publishing refer to the [Charles Sturt Open Access Library Guide](#).

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Editing Service for Faculty Researchers 2020



FOS researchers can continue to engage the services of Mark Filmer to edit journal articles and grant applications throughout 2020. Mark has been working in the field of writing and editing for most of his working life.

All Faculty of Science staff are able to access the editing service, you need to complete a single page application form. For more details or an application form, email **Mark on mfilmer@csu.edu.au**

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Toolkit for Consumer and Community Involvement in Health Research



NHMRC is pleased to release the Toolkit for Consumer and Community Involvement in Health and Medical Research (the Toolkit), providing practical advice on engaging with consumers and the community to undertake high quality and relevant research.

The Toolkit, comprising five individual resources, complements the 2016 [Statement on Consumer and Community Involvement in Health and Medical Research](#) by providing further detailed guidance on the expectations, effectiveness and impact of research involving consumers.

NHMRC thanks members of the Community and Consumer Advisory Group from the 2015-2018 and 2018-2020 triennia for their leadership and contributions in developing the Toolkit. To access the Toolkit and to find more information, visit the [NHMRC website](#).

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Samson Agboola International Travel Prize – last chance to apply



Named in memory of Associate Professor Samson Agboola, the Faculty of Science will offer an annual prize up to the value of \$1000 to contribute toward travel to a relevant international conference or visiting international laboratories/institutions for the purpose of developing collaboration, presenting results or conducting experiments.

Candidates must be currently enrolled in a Doctor of Philosophy or Master of Philosophy with research activity focused on chemistry and/or food science in order to be eligible.

Further information and the application form can be found on the [Faculty of Science Scholarships and Prizes page](#).

Applications close 28 February 2020.

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AGRTP Scholarships – Midyear applications



The next round of applications for AGRTP scholarships are expected to open soon! There will be opportunities for both Domestic and International candidates.

These will be advertised on the [Research Scholarships](#) page.

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New Monthly Listing of Grant Opportunities



The Faculty research team is trialling a new initiative during 2020 with a monthly funding opportunities listing being emailed to all academic listings. Funding opportunities closing in the following month will be distributed in the first week of each month. This distribution is aimed at ensuring researchers have adequate time to complete the grant application. The listing is emailed to the academic email lists for each FOS school.

If you did not receive the list for February (distributed 9 January 2020), and would like to be on the mailing list please contact – **Deborah Munns** on FOS-RLO@csu.edu.au

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Where can I locate funding opportunities?



All Charles Sturt staff and students with a CSU email address can access Research Professional which is a database of funding opportunities in Australia, and overseas. Australian researchers are eligible for all grants listed on Research Professional even if they are overseas.

Research Professional can be accessed through the Library Journal Databases under the letter 'R' or via the Research Hub website. To access Research Professional via the [Research Hub](#)

Research Professional Database – Want to learn more?

The Library Faculty Liaison Team conduct on-line workshops Do you want to find funding opportunities using the Research Professional database? We will give you tips on searching and how to set up alerts and make the most of the information that is available to you. [Plan & Fund]. The next on-line workshop is scheduled for **28 February 2020 at 1pm** – [Register here](#)



GrantConnect is the central web-based information base for all current and forecast Australian Government grant opportunities. GrantConnect provides an online automatic notification facility for registered users who have registered particular areas of interest in relation to Grant Opportunities. Registered users will then be notified of new Grant Opportunities and Forecast Opportunities via e-mail that match their specified notification profile when they are published.

You can self-register on GrantConnect by selecting this link. The internet web address is <https://www.grants.gov.au/?event=public.registereduser.new>.

Other sources: NSW Government eTendering - [Tenders NSW](#)
Australian Government Tenders – [AusTender](#)

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2019 David Syme Research Prize

The Australia-wide prize (\$8900) recognises the best original research in Biology, Physics, Chemistry or Geology **produced*** in Australia during the past two years (1 January 2018 - 31 December 2019). The prize is made by nomination only. Senior members of the academic or research community such as co-authors or co-researchers, heads of department or deputy vice-chancellors (research) are invited to nominate eligible colleagues. Self-nominations are not accepted.

Researchers associated with any Australian university and researchers without university connections are eligible for nomination, noting that the following are not eligible:

Professors or researchers who will have attained the position of professor at the time the award is made;
Researchers outside universities who will have attained a level of seniority comparable to a university professor at the time the award is made (LEVEL E);
Researchers who have not spent the equivalent of at least 5 full years of the last 7 in Australia.

The award is made on the basis of the research quality within the discipline and its likely impact and value in the industrial and commercial interests of Australia.

Application **close 29 April 2020**. Full details and the nomination form are available at: <https://scienceunimelb.smartygrants.com.au/syme2019>

DFAT International Relations Grants Program (various countries)



Grant opportunities available under the International Relations Grants Program are:

□ Australia-ASEAN Council 2020 □ Australia-China Council 2020 □ Australia-India Council 2020 □ Australia-Indonesia Institute 2020 □ Australia-Japan Foundation 2020 □ Australia-Korea Foundation 2020 □ Australian Cultural Diplomacy Grants Program 2020 □ Council for Australian-Arab Relations 2020 □ Council on Australia Latin America Relations 2020

Further information on the International Relations Grants Program, including descriptions of previous grant-funded projects, is available at [DFAT Foundations, councils and institutes](#)

The 2020 grant rounds will open on the 4th of February and close, depending on the council, between the 21st March and 4 April. Information specific to each foundation, council or institute can be found on their respective web pages.

Applications are made via the Australian Government's website: [Grantconnect](#).

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Churchill Trust 2020 Churchill Fellowship Roadshow



The Churchill Trust, in partnership with your local Churchill Fellows' Association (CFA), will be on the road throughout February and March to deliver a National Roadshow of Information Sessions about the 2020 Churchill Trust opportunity.

Listen to some of our outstanding Churchill Fellows share their Fellowship experiences, impart insights on their fascinating projects and motivate you with what they have achieved since returning to Australia. Discuss your project ideas and gain helpful advice on how to apply!

There will be workshops in **Dubbo, Orange and Albury**, in addition to many other locations. For more information – [Winston Churchill Trust](#)

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Prime Minister's Prizes for Science



THE PRIME MINISTER'S
PRIZES FOR SCIENCE

Celebrating 20 years

The Prime Minister's Prizes for Science – Science Prizes award Australian scientists and innovators with prizes to recognise outstanding achievements in science, research-based innovation and commercialisation. Nominees must be an Australian citizen or permanent resident of Australia.

Open date: 06 Feb 2020 09:00 AM AEDT. **Close date:** 12 Mar 2020 05:00 PM AEDT.
What do you get?

There are 5 Science Prizes ranging between \$50,000 and \$250,000.

More information at [Department of Industry, Innovation and Science](#)

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NSW Health Translational Research Grants Scheme – Opening soon

NSW Office for Health and Medical Research announces Round five of the Translational Research Grants Scheme (TRGS) with a focus on building translational research capacity in the health system. The grants will be open to medical staff, nursing staff and allied health professionals and population health practitioners employed within the NSW public health system. Round five has seven priorities. Funding amounts typically range from \$50,000 to \$1 million for two year projects.

Applications open on 27 February 2020. Expressions of Interest will be due in **May 2020**. More information available at [Translational Research Grants](#)

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Australian Rotary Health PhD Scholarships

A number of partial PhD scholarships opportunities are available through the Australian Rotary Health. Applicants must be enrolled in an Australian University, an Australian citizen, Australian Permanent Resident, or New Zealand citizen, and not be under bond to any foreign government in order to be eligible.

Applications close Friday 14 February 2020.

[Please see the website for further information and how to apply.](#)

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Other 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*



2020

Department of Agriculture – [Traceability Grants Program Round 1](#) – Closing 21 February 2020

[CASS Foundation](#) – Travel awards – Closing 28 February 2020

[Helen Macpherson Smith Trust](#) – Round 1 Grant Funding – Closing 27 February

[Meat & Livestock Australia \(MLA\)](#) – Feedlot Shade or Shelter Evaluation – Close 28 February 2020

[Australian & New Zealand Society of Blood Transfusion](#) – Research Grants – Closing 28 February 2020

[ANSTO](#) – 2020 User Access July – December 2020 – 28 February 2020

[Victorian Fisheries Authority](#) – Large Grants Program – Closing 29 February 2020

[Australian Flora Foundation](#) – 2021 Project Grants – Closing 16 March 2020

[Australian Army History Research Grants](#) – Closing 13 March 2020

[Heart Foundation of Australia](#) – Partnership Engagement Grants – Closing 20 March

[The Alport Foundation of Australia](#) - Alport Research Grants 2020 – Closing 30 April

ARC [Linkage Infrastructure, Equipment and Facilities Funding 2021](#) – Closing 1 April 2020

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Library Research Focus - How to Promote Your Work

Want to know how to promote your work, and make sure that it gets the most impact? Read on for tips and tricks... So far we have looked at choosing the right journal or book publisher to publish your research with, then we looked at how you can promote yourself through your researcher profiles, this time we are combining all of that and looking at how you can promote your work.

Research Impact

The Library guide on [Research Impact](#) will describe ways you can assess the impact of your research and increase the readership, citation count and influence of your research.

Author metrics

Impact can be measured in a number of ways including at author level with author metrics, this can include your h-index. You can find your h-index through a range of sources including Web of Science or Publons; Scopus; Google Scholar. The h-index that you see if your CRO profile on the public site, comes from Scopus, the one that you see when you log into CRO comes from PlumX.

Article Impact

This refers to the impact that a specific piece of research has. Traditionally scholarly citation metrics reflect the long term impact of the research and these can be found through citation databases and Google scholar. Alternative metrics or social impact include other impacts of research, and can include number of downloads, mentions in blog posts, news stories, bookmarks and shares in software such as Mendeley, and articles shared via social media.

Journal Rankings

The Library has access to SciMago Journal and Country Rankings. This is a database that compares like journals in subject areas – such as journals from the Social Sciences, rather than comparing all journals together. It can be found at: <http://www.scimagojr.com/> More information about categories and quartile ranking of journals can be found in our library guide on the [Journal Ranking](#) tab. These details can also assist you in establishing the quality of a journal before you publish.

More information on [Research impact & engagement](#) can be found on the Library's [Research Tab](#).

Want to know more, contact your [Faculty team](#). Keep watching the training calendar to see specific training sessions on this topic.

Upcoming Training

The Library has a large range of training sessions coming up through the Research Office Professional Development calendar including:

Date	Session Details & Registration
5th Feb 2020	Presenting research metrics for grants and promotion Are you looking to complete a grant application or application for promotion and want information about how to present your research impact? This session will show you how. Learn more about engaging with metrics to get the best possible outcome for your grant application or promotion. [Plan & Fund]
10th Feb 2020	Use your CRO and ORCID profiles to publish and disseminate your research. Want to understand and get the best out of your CRO profile? Come along and learn how to add publications to CRO, how to add to your profile and linking your CRO and ORCID profiles. [Plan & Fund]
28th Feb 2020	Finding Funding Opportunities using Research Professional database Want to find funding opportunities using the Research Professional database? We will give you tips on searching and how to set up alerts and make the most of the information that is available to you. [Plan & Fund]

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Writing workshops – evening timeslots available

In February and March, you have the option to attend research writing workshops either during the day or in the evenings. This is on a trial basis, depending on attendance. Currently we have scheduled 2 workshop topics in the evening ('Writing a Research Proposal' and 'The Basics of Thesis Structure'). If enough people attend these, we will also schedule evening options for other topics. These February-March workshops are targeted to new postgraduate researchers, but all other staff and students are welcome. Further topics will be scheduled in coming months.

Questions always welcome to the facilitator, Cassily Charles – ccharles@csu.edu.au

- Writing a Research Proposal – 10am-11:30am, Thursday the 13th of February – Info and registration link: https://connect.csu.edu.au/resprop2020/event/event_info.html
- Writing a Research Proposal – **evening option** – 6pm-7:30pm, Monday the 10th of February – Info and registration link: https://connect.csu.edu.au/resprop2020eve/event/event_info.html
- The Basics of Thesis Structure – Part 1 – 12:30pm-2pm, Tuesday the 11th of February – Info and registration link: https://connect.csu.edu.au/thesisstruct2020/event/event_info.html
- The Basics of Thesis Structure – Part 2 – 12:30pm-2pm, Wednesday the 12th of February – Info and registration link: https://connect.csu.edu.au/thesisstruct2020p2/event/event_info.html
- The Basics of Thesis Structure – Part 1 – **evening option** – 6pm-7:30pm, Wednesday the 12th of February – Info and registration link: https://connect.csu.edu.au/thesisstruct2020eveningp1/event/event_info.html
- The Basics of Thesis Structure – Part 2 – **evening option** – 6pm-7:30pm, Thursday the 13th of February – Info and registration link: https://connect.csu.edu.au/thesisstruct2020eveningp2/event/event_info.html
- Reading the Literature Critically – 12:30pm-2pm, Monday the 17th of February – Info and registration link: https://connect.csu.edu.au/critread2020/event/event_info.html
- Structuring a Literature Review – Part 1 – 12:30pm-2pm, Tuesday the 18th of February – Info and registration link: https://connect.csu.edu.au/litrev2020p1/event/event_info.html
- Structuring a Literature Review – Part 2 – 12:30pm-2pm, Wednesday the 19th of February – Info and registration link: https://connect.csu.edu.au/litrev2020p2/event/event_info.html
- Meet the Helpers – 12pm-1pm, Monday the 2nd of March - Info and registration link: https://connect.csu.edu.au/helpers2020/event/event_info.html
- Overcoming Procrastination – 12pm-1:30 pm, Thursday the 5th of March - Info and registration link: https://connect.csu.edu.au/procrast2020/event/event_info.html

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CSU research professional development calendar

There are a range of short Adobe Connect on line sessions available to staff and HDR candidates that may be of interest including the Human Research Ethics café, Supervisor Series and Why Apply for a Grant. The Professional Development Calendar is available [here](#).

Supervisor Series - Module 1 – Introduction, overview and first session of enrolment

9:30am, Monday 10 February - Online in Adobe Connect

This module will explore what should happen in the first meeting with your new candidate including:

- Determining the HDR candidate's research interests
- Developing candidate/supervisor expectations, roles, responsibilities
- Discussions around resourcing, resource needs, training needs, professional development

Module 1 will also explore what should happen in the first session of enrolment including:

- Refining the research topic
- Commencing the literature review
- Developing research aims
- Commencing discussions around possible methodologies available to conduct the research

[Registration and further information here.](#)

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ABARES Outlook 2020 – 3 – 4 March



ABARES invites you to attend Outlook 2020, the agriculture sector's premier information sharing and networking event. Together, speakers and delegates will explore the practical steps to reaching what some call an ambitious target - \$100 billion in farm output by 2030.

Join the conversation as we consider the opportunities and threats in reaching that target over two full days of stimulating discussion and debate on Tuesday 3 and Wednesday 4 March in Canberra. More information [here](#)

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Soil CRC – Participants Conference 2020

It's time for the Soil CRC to get together at our annual Soil CRC Participants Conference 2020. This year our conference will be held in **Adelaide** from **24-26 March 2020**.

The program includes two full days of conference sessions (25-26 March) preceded by one day of optional project team meetings and PhD student workshops (24 March). The entire conference is open to all staff and members of our 40 Participant organisations. In addition, this year we are also opening the conference to the general public for one day - Wednesday 25 March. The Conference is free for all to attend. More information [here](#)

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Other conferences and workshops

GRDC Herbicide Behaviour Workshops - These Herbicide Behaviour workshops for grains advisers go into the science underpinning how both pre and post-emergent herbicides work. Various locations and dates. [GRDC Herbicide Behaviour Workshops](#)

The Vet Expo – 9 – 10 November 2020, International Convention Centre, Sydney. A definitive event that brings all essential elements together under one roof, The VET Expo showcases a new format, new thinking, new technology, improved efficiency, best practice and re-imagined CPD.

We are looking for engaging and influential speakers for our inaugural event and professionals who collaborate in the latest innovations, case studies, new technology and industry breakthroughs. [The VET Expo](#).

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Finally..... 20/20 vision

E	1	20/200
F P	2	20/100
T O Z	3	20/70
L P E D	4	20/50
P E C F D	5	20/40
E D F C Z P	6	20/30
F E L O P Z D	7	20/25
D E F P O T E C	8	20/20
L E F O D P C T	9	
F D P L T C E O	10	
P E Z O L C F T D	11	

I have wondered previously where the term 20/20 vision originated from, so figured it timely to finally find out.

The term "20/20" and similar fractions (such as 20/40, 20/60, etc.) are visual acuity measurements. They also are called Snellen fractions, named after Herman Snellen, the Dutch ophthalmologist who developed this measurement system in 1862.

In the Snellen visual acuity system, the top number of the Snellen fraction is the viewing distance between the patient and the eye chart. In the United States, this distance typically is 20 feet; in other countries, it is 6 meters.

At this testing distance, the size of the letters on one of the smaller lines near the bottom of the eye chart has been standardized to correspond to "normal" visual acuity, this is the "20/20" line. If you can identify the letters on this line but none smaller, you have normal (20/20) visual acuity.

The increasingly larger letter sizes on the lines on the Snellen chart above the 20/20 line correspond to worse visual acuity measurements (20/40, 20/60, etc.); the lines with smaller letters below the 20/20 line on the chart correspond to visual acuity measurements that are even better than 20/20 vision (e.g., 20/15, 20/12, 20/10).

The single big "E" at the top of most Snellen eye charts corresponds to 20/200 visual acuity. If this is the smallest letter size you can discern with your best corrective lenses in front of your eyes, you would be considered legally blind.

On most Snellen charts, the smallest letters correspond to 20/10 visual acuity. If you have 20/10 visual acuity, your eyesight is twice as sharp as that of a person with normal (20/20) vision.

Source – All About Vision

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Next Issue:

If you would like to contribute a story to the March 2020 issue please send it to **Deborah or Melanie** by the **24th of February**. The next issue will be released in the first week of **March 2020**.

Until next issue.....

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