Welcome to Issue 8 of the Faculty of Science Research Bulletin and to Spring! Let’s all enjoy the slightly warmer days before the magpies start to swoop.

In this issue we get to know Erini Abdelmessih, PhD candidate in the School of Biomedical Sciences who is doing some very important research into cardiovascular disease.

We also have lots to celebrate this month with our HDR candidates and staff receiving various awards, numerous conferences attendances and a great outcome in the Research Infrastructure Support Grants.

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, an 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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Welcome to our New Candidates

Nisansala Perera – School of Agricultural and Wine Sciences, working with Geoff Gurr, Leslie Weston and Paul Weston. Nisansala commenced this session full-time on the Wagga campus.

Emily Birckhead – School of Animal and Veterinary Sciences, working with Shane Raidal, Patrick Shearer and Emma Croser. Emily commenced this session full-time on the Wagga campus.

Ashley Brabon – School of Animal and Veterinary Sciences, working with Kris Hughes and Raphael Labens. Ashley Nisansala commenced this session full-time on the Wagga campus.

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

Nyadoub Jok – School of Biomedical Sciences, working with Chris Blanchard, Abishek Santhakumar and Kenneth Chinkwo. Nyadoub commenced this session full-time on the Wagga campus.

Thanasak Poomchaivej - School of Environmental Sciences, working with Lee Baumgartner, Xiaodi Huang and Martin Mallen-Cooper. Thanasak commenced this session via distance.

Congratulations – Approved for Graduation

Ashlea Zivanovic, thesis titled “Ecological and social factors drive variation in the psychological experience of city park users.”
Getting to know - Erini Abdelmessih (HDR Candidate)

What School/Centre do you belong to?
School of Biomedical Science

How did you come to being a PhD student as CSU?
My sister was undertaking a PhD in law, and encouraged me to do the same.

What were you doing prior to starting at CSU?
I was working as a community pharmacist and undertaking my masters degree

What is the focus of your PhD?
It is in the area of pharmacy practice which in my view is an essential area for any practising pharmacist. My thesis aim is to provide recommendations towards the development of a health model for immigrants with cardiovascular disease.

Why does this research interest you and why is it important?
Cardiovascular disease is a very prevalent disease worldwide, particularly among immigrants. Immigrants face many challenges to cardiovascular care and have many unmet health care needs. Therefore, there is a significant need to implement a suitable health care model that may address their health care challenges and meet their health care needs. This may improve disease management among immigrants, and ultimately improve their health outcomes.

What’s your favourite meal?
Good question!!! I would love to say steamed veges because I am on diet, but my favourite meal is Capellini with caviar.

If you could invite anyone to a dinner party who would you invite and why?
Some homeless people because some of them may have never been invited to a dinner party.

Thanks Erini for agreeing to be interviewed.

Recent Graduand Success - Marianne Gaul Award

Dr Elyce Green, 2018 PhD graduand, has recently been awarded the Marianne Gaul (AM) Award for Excellence in NSW Rural Emergency/Critical Care at the Rural Critical Conference in Dubbo.

Elyce’s doctoral research examined the use of noninvasive ventilation (NIV) to treat acute exacerbations of asthma in adults in a regional local health district in New South Wales, Australia. Now that NIV is being implemented widely across Western NSW Local Health District, Elyce’s work has been able to help inform the process, particularly regarding the needs of the clinicians.

Elyce was nominated for the award by her peers for her “undeniable passion for rural health care and nursing” and demonstrated clinical excellence, education and innovation in emergency/critical care through the implementation of countless improvement projects and mentorship.

Elyce is continuing her research and supporting and educating nursing students in her current role as a Lecturer in Rural Health in the Three Rivers University Department of Rural Health.

Keep up the great work!
Application closing date extended – AGRTP International Scholarships

Please note that the closing date for applications for international Higher Degree by Research scholarships funded under the Australian Government Research Training Program has been extended to 5.00pm AEST on Thursday 12 September 2019.

https://research.csu.edu.au/study-with-us/scholarships/international-full-time-agrtp

Please ensure all applicants complete and attach the Initial Research Outline.

Congratulations Pierluigi Reveglia - Poster Presentation Award

Pierluigi Reveglia, cotutelle PhD student with CSU and the University of Naples Federico II, recently attended the 11th International Workshop on Grapevine Trunk Diseases (IWGTD) in Penticton (Canada). The IWGTD is organised by the International Council of Grapevine Trunk Diseases every two years to report recent progress on the etiology, epidemiology, plant-pathogen interactions and control strategies for grapevine trunk diseases (GTD). Pierluigi received great feedback on his research and won the First Place Student Poster Presentation Award for his investigations on 'Isolation and characterisation of phytotoxins produced by the Botryosphaeriaceae and their role in grapevine trunk diseases'.

The aim of Pierluigi’s research is to investigate the role of phytotoxins in pathogenesis and virulence processes of Botryosphaeriaceae spp. involved in grapevine trunk disease and is supervised by A/Prof Sandra Savocchia, Dr Regina Billones-Baaijens, Prof Antonio Evidente (UNINA) and Prof Alescio Cimmino (UNINA). Pierluigi thanks Wine Australia and the National Wine and Grape Industry Centre (NWGIC) and CSU (travel support grant for HDR students) for supporting his research and funding his travel.

Congratulations Pierluigi!

Recognition for Faculty of Science Researchers

The following Faculty of Science staff are to be congratulated for the recent recognition of their work:

Melissa Nott, School of Community Health, was the winner of the 2019 Research and Innovation Award at the 2019 Murrumbidgee Local Health District (MLHD) Excellence Awards. The award was for the research project titled ‘Best Evidence for Stroke Rehabilitation Therapy (BEST) which was undertaken with MLHD and Albury Wodonga Health (AWH).

Xiaoming Zheng (left), School of Dentistry and Health Sciences, recently travelled to accept the 2018 Distinguished Author Award at the American Association of Radiologic Technologists’ 2019 Educational Symposium and Annual Governance and House of Delegates Meeting from 19-24 June at Orlando, USA.
Joanna Gambetta, School of Agriculture and Wine Sciences and Faculty of Science Post-Doctoral Fellow, is a finalist in the Research/Innovator of the Year category in the Australian Women in Wine Awards. The Faculty wishes Joanna well at the awards ceremony on the 17th September 2019.

Ezekiel Nwose, School of Community Health, was one of 25 researchers awarded a Novo Nordisk travel grant to cover his registration, accommodation and travel costs for the International Diabetes Congress in Busan, Korea. Ezekiel will present a number of papers at the Congress.

Congratulations to all of these fabulous FOS researchers.

Science Success in Research Infrastructure Support Scheme

A total of 14 applications from across the University, with a combined value of $1,994,088, were received with final ranked applications reviewed by the DVC (Research and Engagement), PVC (Research and Innovation) and the Director Research against the criteria for RISS to ensure compliance with the Research Block Grants rules.

Out of the 14 applications submitted, 4 were awarded to a total value of $492,125.

All awards fell to the Faculty of Science; two awards sitting within the Faculty, one within the Graham Centre and one within the Institute for Land Water and Society (see table below). A great outcome for FOS researchers across a number of our campuses.

<table>
<thead>
<tr>
<th>Faculty/Centre / Primary applicant</th>
<th>Title</th>
<th>RISS funding awarded</th>
</tr>
</thead>
<tbody>
<tr>
<td>Science / Jade Forwood</td>
<td>Equipment supporting research strength areas in the life sciences - Wagga Wagga Campus</td>
<td>$74,000</td>
</tr>
<tr>
<td>Science / Nigel Urwin</td>
<td>Molecular Biology/ Biochemistry/ Microbiology Equipment for Research - Port Macquarie Campus</td>
<td>$96,000</td>
</tr>
<tr>
<td>ILWS / Lee Baumgartner</td>
<td>Enhancing aquatic research capability at Albury/Wodonga Campus</td>
<td>$145,000</td>
</tr>
<tr>
<td>Graham Centre / Michael Campbell</td>
<td>Precision Cattle Feeding systems for Digital Innovation in the red meat industry - Wagga Wagga Campus</td>
<td>$177,125</td>
</tr>
</tbody>
</table>

Congratulations to all awardees. We look forward to this infrastructure funding providing a significant boost to research productivity across the Faculty of Science.

Save the Date – ‘Living Well Across the Lifespan’

The Faculty of Science will hold a Research Symposium on the 28th and 29th of November on the Wagga Wagga Campus with the theme of ‘Living Well across the Lifespan’

The aim of the overall forum is to:

- encourage research cross collaboration within CSU,
- share the breadth of research being undertaken within FOS, and more broadly CSU,
- ensure our external partners get to know the breadth of research/capabilities at CSU, and assist FOS’s researchers with professional development.
The symposium will be an opportunity for networking with CSU and community partners. We encourage all researchers with a health interest to mark the dates in your calendars.

The symposium will feature three sessions on Day 1 (28 November) covering a range of research themes including:

- One Health and Biosecurity,
- Food for Life
- Research for Translation and Impact

Day 2 (29 November) will be a half day focused on co-production and health research with community partners. Registrations for the event will open soon.

Conference Attendance

Faculty of Science researchers continue to showcase their research at national and international conferences with support provided by the Faculty.

**Regina Billones-Baajens** (left), National Wine and Grape Industry Centre, 11th International Grapevine Trunk Disease Workshop, Penticton, BC, Canada. Dr Billones-Baajens presented two oral presentations at the workshop. Regina reports that “My oral presentations showcased the capabilities of Australian researchers in the field of molecular biology and GTD epidemiology. My presentations were well received by the workshop participants, attracting much interest. I gained further knowledge on new developments in molecular techniques for pathogen detection and epidemiological studies of GTDs”.

**Bruce Allworth**, School of Veterinary Sciences and the Fred Morley Centre, attended the combined Ontario Small Ruminant Veterinary Conference / British Sheep Vets Annual Conference in Guelph, Canada. Bruce noted that “This is the first major Small Ruminant International Conference in North America and had a combined European / British/ North American flavour, with attendees from 19 countries (3 delegates were from Australia)”.

Bruce presented two papers at the conference — “Improving lamb survival – the role of calcium” and “Pain Relief products in sheep – an Australian perspective”. Both papers were well received, and prompted lots of discussion, especially on pain relief. It is always encouraging to see the high regard other countries have for work done in Australia in the sheep area.

As part of the conference Bruce visited a total of 6 commercial sheep and goat farms, and a research sheep farm. Bruce reported “The intensive nature of the Canadian lamb production system was very evident, with much if not all of the operation occurring indoors. Predation from feral animals and parasites were major issues for those using outdoor pastures. The intensive management systems were in strong contrast to the Australian situation, and gave reflection over our lamb survival in our extensive environment. Farms we visited were highly motivated,
recording great data and using it. Lamb growth rates were exceptional in a Total Mixed Ration (TMR) feeding regime. No lambs were castrated”.

Kylie Murphy, School of Community Health, travelled to Valencia to present at the 5th International Conference on Higher Education Advances (HEAd’19). Kylie presented on curriculum work undertaken by academics in the School of Community Health and the School of Nursing, Midwifery & Indigenous Health in the area of Evidence-Based Practice (EBP) education. The conference was attended by academics from America, the UK and broader Europe.

Kylie reports “On the findings I presented, there was wonderful interest! The Americans were particularly interested in the idea that undergraduate health professionals should be trained to engage in all steps and aspects of the EBP process; including fearlessly acknowledging uncertainty and asking questions (to trigger the EBP process) and using their client-centred communication skills to effectively and accurately educate their clients to dispel health-related myths. Apparently there is a big problem with the American public believing things that aren’t true!! A great discussion ensued about the fact that many health professionals around the globe believe things that aren’t true, too, or are not inclined to investigate when they’re unsure. So, the audience liked our emphasis on the importance of encouraging scenario-triggered curiosity in students – an enquiring approach to clinical practice – beyond just training students to ‘appraise research they’re told to appraise’.

The final round of the Conference and Training Scheme for 2019 closes on the 11th of October 2019. The guidelines and application form can be downloaded here: S:\Common\ Temp Folder Less Than 90 Days\FOS Conference and Training Scheme

Changes at PdCSU

There have been some changes in personnel in CSU’s Early Career Research Society, PdCSU. Adam Frew, the inaugural president of the society has stepped down and two new members have been elected to the committee.

Thomas Williams and Zeyu Xiao join the committee of Joanna Gambetta (Vice-President), James Turner (Secretary) and Saliya Gurusinghe (Treasurer). Thomas has stepped in the role of President.

Thomas Williams (President) completed his undergraduate and postgraduate studies at Charles Sturt University, Wagga Wagga. His research has focussed on large ruminant health in established and developing industries assessing the interactions between parasites, wildlife hosts, farmer management, and animal disease status. Thom currently works within a multidisciplinary team investigating novel point-of-decision diagnostic tools aiming to improve large ruminant health and production outcomes in extensive and intensive systems. Thom has a passion for developing strong communities, R4D, and food security.

Zeyu Xiao (Committee member)

Zeyu completed his Bachelor of Viticulture and Oenology (Hon.) in 2013 and PhD in viticulture and plant physiology in 2018 at The University of Adelaide. His PhD thesis explored whether hypoxia within the grape berry was associated with mesocarp cell death during berry ripening and how stressful conditions (heat and water stress), in the vineyard, can affect berry cell death. Zeyu is currently a Post-Doctoral Research Fellow with the ARC Training Centre for Innovative Wine Production. His project investigates the vascular transport into the grape berry and its impact on fruit size and composition.

PdCSU is busy organising some upcoming events. Anyone interested in joining PdCSU is encouraged to send an email to e: pdcus@csu.edu.au | twitter: CSUpostdocs
Writing Tips for Academics

The Faculty of Science has engaged the services of Mark Filmer to edit journal articles and grant applications for staff. Mark has been working in the field of writing and editing for most of his working life.

We recently asked Mark to share a few writing tips for staff and we will feature Mark’s tips. Following the previous tips of keeping it simple and using consistent spelling, this month we have the important tip of checking citations.

Check your citations/references. Most researchers are using citation/reference management software. CSU provides EndNote but there are several others. A common problem I encounter when proofreading papers is that citations and references do not match. This seems to occur most often when writers manually insert a citation into the text but forget to include the corresponding reference in the end list.

Prefer simpler words. Many writers use complex words because they sound more formal or ‘academic’. For example, amongst (prefer among), whilst (while), utilise (use) commence (begin) etc. All writing is about communicating and clear, simple language equals more effective communication.

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 (mfilmer@csu.edu.au).

Update your Academic Staff Web Profile

Is your academic internet profile out of date? Have you added some publications and supervised a number of students since your profile was last updated?

Web profiles can help potential collaborators and post-doctoral students locate you. It is important that your profile reflects your latest work.

The Faculty Ops team can help with updates and changes to your academic web profile. Contact: FOS-ops-Admin@csu.edu.au for a template.

CSIRO postgraduate top-up scholarships

CSIRO is currently offering top-up postgraduate scholarships for candidates enrolled at an Australian University and holding a Research Training Program (RTP) scholarship or university equivalent, commencing in late 2019 or early 2020. These scholarships are for PhD projects in CSIRO priority research areas that will be co-supervised by CSIRO researchers.

For further information and details on how to apply, please see the CSIRO Postgraduate Scholarships page.

The closing date for applications is 31 October 2019.
Internal CSU Funding


Faculty of Science Open Access Publishing Scheme [S:\Common\ Temp Folder Less Than 90 Days\FOS OPEN ACCESS PUBLISHING SCHEME]

Faculty of Science Conference and Training Scheme – Next round closes 11 October 2019 - [S:\Common\ Temp Folder Less Than 90 Days\FOS Conference and Training Scheme]

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NSW DPI - Habitat Action Grant

The Habitat Action Grants are funded from the Recreational Fishing Trusts which direct funding generated by the NSW Recreational Fishing Fee towards on the ground actions to improve fish habitat and recreational fishing in NSW.

Angling clubs, individuals, community groups, local councils and organisations interested in rehabilitating fish habitats in freshwater and saltwater areas throughout NSW can apply for small grants of $2,000 or large grants of up to $40,000. Applications close: 20 September [https://www.dpi.nsw.gov.au/fishing/habitat/rehabilitating/ahr-grants-program]

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Australia-India Collaborative Research Projects

Australia-India Collaborative Research Projects are funded by the Australia-India Strategic Research Fund (AISRF). For this grant opportunity, $5 million is available over 3 years. The minimum grant amount is $500,000 and the maximum grant amount is $1,000,000.

The priority areas for Round 12 of the Australia-India Strategic Research Fund Collaborative Research Projects are:

- Climate Change mitigation and adaptation
- Food processing, storage and distribution
- Mining safety and efficiency
- Cancer therapeutics/ theranostics
- Genomics and precision medicine
- Pest-resistant crops


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Australia-India Strategic Research Fund (AISRF) EMCR Fellowships

EMCR fellowships provide financial support of up to A$16,500 for Australian researchers to travel to India and work with leading researchers at major Indian science and technology organisations for a period of between 1 and 3 months.

The fellowships are intended to facilitate long-term science, technology and innovation collaboration between Australia and India. Researchers in the following fields are eligible to apply for the fellowships:

- any field of natural science (basic and applied)
engineering science
mathematics
statistics
health

Applicants engaged in multidisciplinary research are invited to apply but should note that proposals for research solely in the humanities, social or behavioural sciences are not eligible. The deadline for applications is 9 am (AEDT) Wednesday 9 October 2019. Australia-India Strategic Research Fund

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Mercy Foundation - Grants to end homelessness

Projects that focus on chronic homelessness and women who experience chronic homelessness are currently priority areas for funding. These will generally be larger grants (up to $50,000 for any one year) with grants likely to be averaging $20,000 – $30,000. EOI close 7 October 2019.


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2020 Science and Innovation Awards (Agriculture, Fisheries and Forestry)

Grant applications are now open for the 2020 Science and Innovation Awards for Young People in Agriculture, Fisheries and Forestry. If you’re 18-35 and want to make a difference in agriculture, this is your chance to apply for a grant of up to $22,000 to fund your project that will benefit Australia’s primary industries. Applications close 5pm AEST Friday 4 October 2019. http://www.agriculture.gov.au/abares/conferences-events/scienceawards

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2020 Lindau Nobel Laureates Meeting

The Australian Academy of Science invites nominations from Australian-based early career researchers in the fields of physics, chemistry, medicine and physiology to attend the 70th Meeting of Nobel Laureates in Lindau (interdisciplinary), to be held in Lindau, Germany, 28 June – 3 July 2020. The Science and Industry Endowment Fund is providing financial support through the Science and Industry Endowment Fund – Australian Academy of Science Fellowships to the Lindau Nobel Laureate Meetings.

Applications must be submitted to the Academy by the Research Office (or equivalent) of the institution. Each institution is limited to applying for two grants on behalf of two early career researchers. Following the meeting, the delegation continue on a site-visit tour of relevant German laboratories and companies. The site visits will directly follow the Lindau meeting, and finish on the morning of July 10 2020.

Further information and the application form can be found here. Applications close Friday 27 September 2019 5pm AEST.

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Other funding opportunities:

ANSTO/ANZSNM Research Grant – Opening soon - All aspects of nuclear medicine will be considered for this grant including.

2020-21 MLA PROJECT Call for sheep meat and grassfed beef RESEARCH, DEVELOPMENT AND ADOPTION PROJECTS – Open 4 September. Closes 16 October 2019.
CSU Professional Development Calendar

There are a range of sessions available to staff and HDR candidates that may be of interest, including using Endnote for these and other publications, research metrics for grants and promotion and promoting your research: establishing a Research Profile. The Professional Development Calendar is available [here](#).

Supportive Conversations for HDR Supervisors

This session, presented by CSU Student Counsellor Dr Shaunagh Foy, will guide supervisors in having supportive conversations, as well as setting boundaries, responding to stressed or anxious students, and making appropriate referrals. All new and ongoing supervisors welcome. **12 September 2019 11:30am-12:30pm.** More information and registration [here](#).

Research Administration 2 - The Grant Submission Process

Do you want more of an understanding of the grant application process or are you new to the submission process? This session is all about enabling you to better understand the processes and people within CSU who can support you in submitting an application to the Research Office for approval. The session will go through the supporting documents you need to submit with your application, discuss the Notice To Submit form, submission timelines, budgets costs and in-kind, application review tips, who can help you with application preparation, and how the Research Office can help you. **17 September 2019 9:30am – 11:30am.** More information and registration [here](#).

EMBL Postgraduate Symposium

The [EMBL Australia Postgraduate Symposium (EAPS19)](#) will be held in Melbourne from 27-29 November 2019. The theme "From Models to Systems" focuses on looking at biology from multiple perspectives to better understand it as a whole, from micro-organisms to large ecosystems. All Honours, Masters & PhD Students are welcome to attend EAPS19; the symposium is an excellent opportunity for students to learn from world leading researchers, as well as network with a range of other like-minded students and present their work in a friendly and professional environment.

Abstract submission closes 6 September 2019. Please see the above website for further information and registration.

2019 New User Symposium

ANSTO and the Australian Institute of Nuclear Science and Engineering (AINSE)'s 2019 New User Symposium will be held at the Australian Synchrotron’s National Centre for Synchrotron Science (NCSS) on Tuesday, 10 September 2019.
The annual one-day event is tailored to inform novice users about the research capabilities of the Australian Synchrotron.

Techniques highlighted include:

- Powder diffraction
- Small and wide angle X-ray scattering
- Macromolecular X-ray crystallography
- Infrared and THz/Far-Infrared microscopy
- X-ray fluorescence microscopy
- X-ray absorption spectroscopy
- Soft X-ray spectroscopy
- Medical imaging

For more information and registration, please see their website.

Library Lowdown – Borrowing Resources

**Accessing library resources**
At CSU library we have great collections of resources on our campuses. If you are located near a CSU library we can help you locate these resources in our collection. If you need to access a resource from another campus, or you are off campus, don’t forget you can request to have the item sent to you. This video shows you how to submit a loan request, or a digitisation request.

**Interlibrary Loans**
Don’t forget you have access to resources beyond those held by CSU Library. Journal articles, books and other items held by other libraries may be requested using our Interlibrary loans service. Please see this video to find out how to place a request.

**eBooks**
Our eBooks can be accessed anytime, anywhere from your desktop or mobile device. There’s no need to place a hold on an eBook, and they also have the additional benefit of not getting lost or becoming overdue. Check out our range of titles in our eBook collections, on our eBooks Libguide.

**Journals**
CSU library allows you access to more than 100 journal databases. These databases not only provide access to peer reviewed journals, but also contain trade journals, newspapers and magazines, theses and dissertations, company information, and audio visual material. You can see our full range of journal databases on our Journal Databases page.

**Grey Literature**
We also have great resources to assist you in locating grey literature. Have a look at our Grey Literature Guide for some guidance in how to find government publications, reports, standards, statistics and census data, theses & dissertations, and much more! You can also sign up to our Finding and Using Theses and Dissertations training session for a more detailed look at locating thesis resources.

For further assistance locating resources contact your Library Faculty Team, or have a look at the many resources we have to assist you with your research, under the Research Tab on the library homepage.
Finally.....How does a jellyfish live without a brain?

While Jellyfish do not have a brain they do have nets of nerves at the base of their tentacles that detect chemicals, vibrations and light. These trigger built-in reflexes that enable them to move, eat and reproduce. They essentially live on autopilot.

Another fun fact about a jellyfish, they are actually a type of plankton and not a fish, contrary to what its name suggests.

Next Issue:

If you would like to contribute a story to the October 2019 issue please send it to Deborah or Melanie by the 20th of September. The next issue will be released in the first week of October 2019.

Until next issue.......