CACHE

Matters

E-ZINE 2021

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Contents

Further information about new projects, new people, and new events for 2022 can be found on our website:
https://www.mq.edu.au/research/research-centres-groups-and-facilities/resilient-societies/centres/cache

Magazine content and design by Hannah Vogel unless otherwise specified.

Front cover: Virtual Reality Lab, Sim Hub. Image by Chris Stacy(2015) Credits to Macquarie University.
Opposite: Photogrammetry model of Perachora (Greece) waterworks. (Image credit Michael Rampe, 2021).

Centre for
Ancient
Cultural
Heritage and
Environment

Director's report

Prof. Ronika Power

Perhaps, like me, you started 2021 with high hopes of emerging from the challenges we all faced in 2020? As a research centre that specialises in exploring human experiences across time, environments and cultures, some may argue that we at CACHE should have been uniquely prepared for the rigours of a pandemic to extend across years. We have certainly seen pandemics unfold this way many times in history, and we know that they never pay heed to the arbitrary notions of calendars. While we definitely have these insights as researchers of human experiences, what actually makes us great researchers at CACHE is that we are *embedded in* human experiences. Over and above the extended challenges of lockdowns, online teaching, home-schooling and social isolation, for many of us 2021 represented a second year of distance from many modes of fieldwork across local, national and international contexts. For some, career interruptions of this scale are unprecedented. We acknowledge all these disruptions to research agendas, groups, collaborators and communities at home and abroad, and admire the many ways in which colleagues have worked diligently and differently to continue to deliver outstanding outcomes despite these truly significant challenges. However, we also acknowledge that some members of our Centre and community experience career interruptions and impediments on a regular basis, and the pandemic has only exacerbated many of the pre-existing obstacles inherent within both academia and society more broadly, as well as creating new ones. As a University Research Centre, we believe that we have a role to play in not only supporting and promoting excellent researchers and research, but also to shift research landscapes, pathways and structures in more human-centred directions. It is part of our mission to make research more diverse, equitable and accessible so it includes more voices and perspectives, and thereby better reflects human experiences in both the present and the past.

CACHE is committed to constantly strive to identify and resolve any obstacles for researchers and research within our activities, initiatives, community and culture. We will always be a work in progress, but we made some important gains towards improving our Diversity, Inclusion, Equity and Accessibility profile in 2021. In consultation with Walanga Muru, we developed an ECR Indigenous Australian Research Fellowship to provide funding for an Indigenous Australian Early Career Researcher or heritage/environment professional – our successful applicants were

Prof. Liz Cameron and Zac Roberts - read more about their projects on p.6-7. CACHE also sought consultation from an Inclusion, Diversity, Equity, and Accessibility working group to improve our Fellowship guidelines, events, and online presence. As a result, our Fellowship guidelines were commended by the central MQ Inclusion and Faculty of Arts Diversity and Inclusion Committees as best-practice models. Additionally, our CACHE *#SocialMediaSlam* was purposefully developed to showcase a diverse array of impactful social media users across our MQU community, including Indigenous, LGBTQI+, People Of Colour, Women in STEM/STEAM, and Disability representation. The intention was to provide our HDRs, ECRs and MCRs with a range of ways to engage, rather than espousing a one-size-fits-all conformist approach – read more about the *#SocialMediaSlam* on p.15. We also sponsored a Social Media Takeover of our Twitter account on International Day of People with Disability (IDPwD; 3rd December) – read more about this initiative on p.15. We're looking forward to continuing to work with our membership and community to re-centre human experiences in research, and improve our Diversity, Inclusion, Equity and Accessibility profile through 2022 and beyond.

Members' key achievements

Despite the continued challenges of 2021, research across our three themes (Humans in their Ancient Urban and Natural Environments; Receptions of Ancient Cultural Heritage; Ancient Models of Leadership: Learning from the Past) resulted in over 70 publications and many other noteworthy excellence markers through the year; see some highlights on p.4 and p.5, respectively. Several CACHE members and their teams were also successful in securing major external funding of over $1.5million and internal funding of almost $400K for their research projects; see p.6 for further details. As ever, we acknowledge our members who worked hard to submit external funding applications in 2021 that didn't materialise despite their enormous investments of time and effort.

CACHE-Funded Initiatives

The pandemic had continued impacts on the ways we could engage in research throughout 2021. Nevertheless, CACHE members demonstrated exceptional resourcefulness, flexibility and resilience by delivering a powerful program of activities and events throughout the year. Highlights included co-sponsorship of the online conference: *Egypt and the Mediterranean World from the Late Fourth through the Third Millennium BCE* (CI: Dr Karin Sowada; see p.10); co-sponsorship of the online 2021 *National Archaeology Student Conference* (see p.13); and hosting of the online *Living Digital Heritage Conference* (CI: Dr Fred Hardtke; see p.11-12). While some of our initiatives continue to be held back by COVID, we're looking forward to seeing them unfold over the coming year, including *(Re)Imagining the Past* (CIs Prof. Malcolm Choat and Dr Rachel Yuen-Collingridge); *Enabling Healthier Gomeroi/Kamilaroi Country* (CIs: Uncle Phil

Duncan and A/Prof. Emily O'Gorman); and *Antiquity in the Archive: Rediscovering Beni Hassan in the Griffith Institute Archive, Oxford* (CI: Dr Alex Woods; see p.16 for more details).

CACHE Early Career Reaserchers

We were thrilled to host five new CACHE ECR Fellows in 2021 through our CACHE ECR Indigenous Australian Research Fellowship (Prof. Liz Cameron and Zac Roberts) and CACHE Postdoctoral Research Fellowship (Dr Carlo Rindi Nuzzolo, Dr Michael Spate and Dr Janet Wade) schemes. Each of our ECR colleagues brought life, light and unique research perspectives to the Centre, and we are so grateful for their engagement. Read more about these exceptional scholars and their work on pp.6-9.

Outreach & engagement

Always committed to sharing knowledge and having impact in our communities, CACHE members featured in a number of high-profile public outreach, engagement and media appearances throughout 2021, including major radio and print news media, online publications, and podcasts in Australia, the UK, and the USA. Our social media profiles (Twitter and Facebook) also saw considerable growth in followers and engagement.

Acknowledgements

As ever, I'd like to extend my sincere thanks and admiration to our members and affiliates of all career stages for their outstanding contributions and achievements through another profoundly challenging year at both work and home. The research highlights presented in this e-Zine provide only a glimpse into the extraordinary efforts of our members to uphold their commitments to the pursuit of research excellence and engagement. Their accomplishments are incredibly impressive, and made even more so in light of the enduring pressures and demands of the Higher Education sector. Thanks must also go to the offices of the Deputy Vice-Chancellor Research, Prof. Sakkie Pretorius, and the Pro Vice Chancellor (Research Performance) Prof. Amanda Barnier, for their continued support of our Centre's aims and objectives, particularly through another year of significant interruptions. Special thanks as ever to our Co-Deputy Directors, Drs Emilie Ens (SNS) and Karin Sowada (DHA), and to our Executive Board for their enduring support, encouragement, generosity and resilience. Infinite thanks to our CACHE Centre Manager, Dr Alice McClymont, for another year of exceptionally hard work, patience, dedication and camaraderie. Much of what is included in this document would simply not have been possible without her. And yet...

Fond Farewell- Dr Alice McClymont

With a very heavy heart, we bid farewell to our beloved CACHE Centre Manager, Dr Alice McClymont, at the end of the 2021 academic year. Amidst lockdowns in both NSW and South Australia, Alice moved to start a new life in Adelaide

and understandably wished to invest her time and significant skills in her local community. Alice is a PhD graduate of the Department of History and Archaeology, and has been employed in various capacities, including as a highly-sought after casual academic and in various Research Assistant roles for individual staff members and the former Ancient Cultures Research Centre (ACRC). Alice was exemplary in her role as CACHE Centre Manager since our inception in 2019, and has provided outstanding service and leadership in every facet of the role. As she was for the CACHE founding Director, Prof. Bronwen Neil, Alice was particularly supportive of me as the Centre Director, and we forged a formidable team to work through the significant challenges of 2020-2021. She also proved indispensable to many of our members convening conferences or events, and in 2021 made great gains in CACHE's external communications and social media. Alice will be sorely missed within both CACHE and the broader MQ DHA community. We extend our deepest and most heartfelt thanks for her dedication and excellent work for CACHE, always completely above and beyond the call of duty. We wish Alice prosperity, health and happiness in her new life in the City of Churches. With Alice's permission, I'm delighted to share that she has recently started a new role with the History Trust of South Australia, and wish her every success in her new role.

We are delighted to welcome Hannah Vogel into the CACHE Centre Manager role from 2021 onwards, and thank both Alice and Hannah for all their efforts to ensure a smooth transition. I'm looking forward to working closely with Hannah, who has already proved to be a valuable addition to the CACHE Leadership and Executive Committee teams; and I'm looking forward to introducing her to you all throughout the coming year.

Contact Us

We hope you enjoyed reading the 2021 edition of CACHE Matters. Although it stands alone as an impressive report, this e-Zine is only a snapshot of all the fascinating people, projects and ideas involved in our research centre. If our work aligns with your own and you'd like to get involved in our Centre, please contact our Director, Deputy Directors or Centre Manager via cache@mq.edu.au. Please also contact us if you would like to explore the possibilities of collaborative research funding, industry partnerships, or are interested in developing an event that builds research capacity in cultural heritage and environment studies. To stay abreast of our news, activities and opportunities, please stay tuned to our website and follow us on social media (Twitter @cachemq and Facebook).

Publication snapshot

Research in our three themes resulted in over 70 publications between January and November 2021. Here's a snapshot of some of the fantastic research our members produced this year

Books

John Burn
A river in 'drought'? Environmental and cultural ramifications of Old Kingdom climate change. BAR International Series S3036 (Oxford: BAR Publishing, 2021).

Peter Keegan
Livy's women: Crisis, resolution, and the female in Rome's foundation history (London & New York: Routledge, Taylor and Francis Group, 2021).

Anna-Latifa Mourad
The enigma of the Hyksos. Volume II: Transforming Egypt into the New Kingdom: The impact of the Hyksos and Egyptian-Near Eastern relations. Contributions to the Archaeology of Egypt, Nubia and the Levant 10 (Wiesbaden: Harrassowitz, 2021).

Bronwen Neil
Dreams and divination from Byzantium to Baghdad, 400–1000 CE (Oxford: Oxford University Press, 2021).

Emily O'Gorman
Wetlands in a dry land: More-than-human histories of Australia's Murray-Darling Basin, Seattle (University of Washington Press, 2021).

Book Chapters

Eva Anagnostou-Laoutides
Attuning to the cosmos: the ethical man's mission from Plato to Petrarch. In: Monagle, C. (ed.), *The intellectual dynamism of the High Middle Ages* (Amsterdam: Amsterdam University Press, 2021) 249–275, https://doi.org/10.2307/j.ctv1xg5h66.

Camilla Di Biase-Dyson
Metaphors of sensory experience in ancient Egyptian texts: emotion, personality, and social interaction. In: Neumann, K. & Thomason, A. (eds), *The Routledge handbook of the senses in the ancient Near East,* (London & New York: Routledge, Taylor and Francis Group, 2021) 603–635, https://doi.org/10.4324/9780429280207-35.
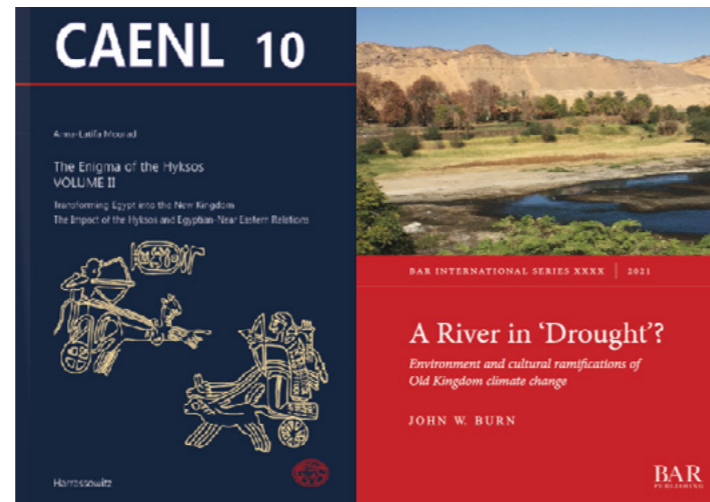
Journal Articles

Damian Gore and Ronika Power
with M. Whitford, M. T Johnsson, A. A. Bilgin, C. Richard and M. J. Withford, "A complementary validation of Egyptian faience jewellery reconstruction using elemental and statistical analyses", *Journal of Archaeological Science: Reports* 38, 1–10, (2021). https://doi.org/10.1016/j.jasrep.2021.103087.

Paul Haynes
with D. C. L. Handler, "PeptideMind – applying machine learning algorithms to assess replicate quality in shotgun proteomic data", *SoftwareX* 13:6, 1–6, (2021) https://doi.org/10.1016/j.softx.2020.100644.

Karin Sowada, Ronika Power, and Alice McClymont
with G. Jacobsen, T. Murphy, F. Bertuch, A. Jenkinson, J. Carruthers, and J. Magnussen, "Multidisciplinary discovery of ancient restoration using a rare mud carapace on a mummified individual from late New Kingdom Egypt", *PLoS ONE* 16:2, 1–17 (2021). https://doi.org/10.1371/journal.pone.0245247.

Media

Emlyn Dodd
Published the online articles: "Was ancient wine more alcoholic than modern wine" in *Bad Ancient* in February 2021; and "Unearthing Falerii Novi's secrets in the hot Italian summer: an archaeologist reports from the dig site" in *The Conversation* in June 2021.

Ray Laurence
Published the online article: "What was it like to be old in ancient Rome?" in *The Lighthouse* in March 2021. He also undertook a number of media appearances to discuss ancient Roman history, including *ABC NewsRadio* in May and *ABC Overnights* in April, and the podcasts *Ithaca Bound*, *Light Lines*, and *Partial Historians* in July and August.

Tim Ralph
with Stephen Tooth, and Peyton Lisenby published the online article: "Paradox lost: wetlands can form in deserts, but we need to find and protect them" in *The Conversation* in February 2021.

Funding & excellence

CACHE members received considerable internal and external funding and recognition for their research in 2021

Grants

Major external funding was awarded to five projects led by CACHE members across our research themes. An ARC Discovery Project grant of $545,000 was awarded to Dr Alexandra Carthey along with Associate Professor David Chapple (Monash University), Dr Katherine Moseby (UNSW), Associate Professor Dale Nimmo (CSU), Dr Tim Doherty (Deakin University) for the project "*Quantifying the threat posed by feral cats to Australian reptiles*". This research will adopt an innovative behavioural approach to provide the first quantification of the impact of feral cats on Australian reptiles.

Dr Emile Ens, is the lead investigator of a successful ARC Linkage Project grant of $516,968 with A/Prof. Frances Morphy (ANU), Prof. Craig Moritz (ANU), Prof. Sam Banks (Charles Darwin University), Mr Lirrpiya Mununggurr, Mr Harry Thorman (formerly of the Laynhapuy IPA), Dr Luke Preece (The Nature Conservancy), postdoctoral researcher Dr Shaina Russell, and PhD student Bridget Campbell, titled *Warrakan'puy Djäma: A new biocultural approach to fauna conservation*. The project forms a partnership between university researchers and colleagues from the Laynhapuy Indigenous Protected Area in northeastern Arnhem Land, home of the Yolŋu cultural group.

Dr Susan Lupack and Prof. Shawn Ross are part of a successful ARC Linkage Project grant of $150,000 along with A/Prof. Tanya Evans, (MQU), Prof. Lucy Taksa (Deakin University), Dr Penny Crook (MQU), Prof. Steven High (Concordia University), Fiona Leslie, and Rebecca Parkes, titled *History, heritage and environmental change in a deindustrialised landscape*. This collaborative and multidisciplinary, scholarly and community-based project studies a forgotten shale-mining settlement in the environmentally and culturally significant Jamison Valley of New South Wales.

A/Prof. Emily O'Gorman along with A/Prof. Sandie Suchet-Pearson, Dr Jessica McLean, A/Prof. Fiona Miller and A/Prof. Kate Lloyd (all MQU) were awarded an external grant of $59,908 by NSW Environmental Trust (Environmental Education) grant for their project *Enabling Healthier Gomeroi/Kamilaroi Country through On-Country Classrooms*. Additionally, Dr Tim Ralph with Prof. Eman Ghoneim (University of North Carolina Wilmington) and A/Prof. Suzanne L. Onstine (University of Memphis) were awarded a National Science Foundation (Archaeology and Archaeometry) Standard Grant 2114295 (2021–2024) $203,874USD / AUD$282,240 grant for their project *Methodology for Reconstructing Prior River Flow*.

Several CACHE members were awarded a number of MQ Research Infrastructure Scheme grants, including Prof. Damian Gore, Prof. Ronika Power, Prof. Malcolm Choat, Prof. Ken Sheedy, and Dr Tim Ralph (all MQU). Prof. Damian Gore and colleagues received an MQRIS Small grant for $99,068 for the purchase of portable XRF instruments for use in environmental, geological, and archaeological research. Prof. Ronika Power (MQU) was also part of two successful MQRIS Large grants for a high-precision 3D laser tracker (Lead CI: Prof. Jon Lawrence, MQU Physics & Astronomy) and for Virtual Reality camera systems facilitating immersive VR/AR projects (Lead CI: A/Prof. Tom Murray, MCALL).

Fellowships & appointments

Dr Emlyn Dodd (CACHE ECR Affiliate) was appointed as Assistant Director for Archaeology at the British School at Rome in February 2021. He was also elected as a Fellow of the Royal Historical Society in October 2021. Additionally, Emlyn was selected as a Highly Commended finalist for the Early Career Research of the Year – HASS category in the 2021 MQ Research Excellence Awards.

Prof. Ronika Power was appointed to the Board of Directors of the Australian Institute of Policy and Science.

Dr Karin Sowada (History and Archaeology) was appointed Director of the Australian Centre for Egyptology in June 2021; Susanne Binder was appointed as Co-Deputy Director, along with Martin Bommas. Dr Sowada also sponsored a successful 2021 COVID Recovery Fellowship awarded to Dr Susan Kelly.

Prof. Bronwen Neil sponsored the successful 2021 COVID Recovery Fellowship awarded to Dr Natalie Mylonas. Dr Linda Evans also sponsored the successful 2021 COVID Recovery Fellowship awarded to Dr Georgia Barker.

Awards & prizes

Dr Sophia Aharonovich (CACHE Postdoctoral Fellow in the Archaeology of Ancient Israel) was awarded a MQ ECR Enabling Scheme in August 2021. Dr John Burn (CACHE ECR Affiliate) was selected as a finalist for the MQ ECR Showcase in November 2021. Dr Alexandra Carthey (Biological Sciences) received the 2020 MQ Faculty of Science and Engineering Research Excellence – Early Career Researcher Award.

Far top left: Cover of Mourad, A-L. (2021). "The enigma of the Hyksos volume II: Transforming Egypt into the New Kingdom: the impact of the Hyksos and Egyptian-Near Eastern relations." Contributions to the Archaeology of Egypt, Nubia and the Levant (CAENL); Vol. 10. Harrassowitz Verlag.

Far top right: Cover of Burn, J. W. (2021). A river in 'drought': environment and cultural ramifications of Old Kingdom climate change" (BAR Publishing Oxford).

ECR Indigenous Australian Fellows

Highlighting the work of our 2021 CACHE ECR Indigenous Australian Research Fellows

Zac Roberts

Zac Roberts is one of CACHE's 2021 ECR Indigenous Australian Research Fellows. Zac is a Yuin scholar and PhD candidate in the Department of Indigenous Studies at Macquarie University conducting transdisciplinary research across the fields of history, archaeology, and Indigenous studies. He is also recipient of an Indigenous Macquarie University Research Excellence Scholarship.

Zac's CACHE fellowship project, entitled *"Towards an Indigenist research model in Australian archaeology"* examined the centrality of western epistemology in the discipline of archaeology, and the way the discipline can work to centre sovereignty in theory and practice. This fellowship was sponsored by CACHE Director, Professor Ronika Power and extended Zac's Master of Research thesis completed at Macquarie University in 2020. The fellowship project moved away from traditional decolonisation approaches to archaeology, and instead went beyond methodological considerations to challenge the knowledge foundation of the discipline. As such, the project challenged the current direction of Australian archaeological research, and proposed a new approach termed "Indigenist archaeology".

During his fellowship Zac presented the preliminary findings of this research at National Archaeology Student Conference in October 2021 and submitted an article to a high-impact, peer reviewed journal, with expected publication in late 2022. Zac reports that his fellowship was a very positive experience, and notes that the support he received was instrumental in developing this important research into a publishable piece. We look forward to sharing the news of Zac's publication on our website soon.

Right (top): Zac Roberts at the Faculty of Arts Precint, Macquarie University
*Right (bottom): "Boomerang Study" artowrk by Prof. Liz Cameron (2021)*

Professor Liz Cameron

Professor Liz Cameron is also one of CACHE's 2021 ECR Indigenous Australian Research Fellows. Liz is a practicing Dharug artist and researcher, who held the position of Chair of Indigenous Knowledges (Research) in the School of Communication and Creative Arts at Deakin University.

Liz's CACHE fellowship project, entitled *'Reclaiming their stories' – a creative visual documentation on Indigenous artefacts held at MQ museum to further understand culture through art-making,* aimed to investigate the Sheila Macdonald Collection, held at Macquarie University to explore, analyse, and rediscover Indigenous mark-making and art-making traditions to reclaim the traditional visual stories of these artefacts.

This project, sponsored by CACHE Co-Deputy Director Dr Emilie Ens, developed out of Liz's doctoral thesis "Bangawarra Naa – Creative making in traditional Aboriginal healing practices", completed in 2015 at the University of Newcastle. Her current research reflects her multifaceted background in areas of Indigenous health, community, education, and art. Her degrees include a Diploma in Fine Arts from TAFE NSW (1987) and a Masters in Indigenous Health from Macquarie University (2008).

During her fellowship, Liz developed 15 artworks on paper and canvas that will be exhibited in 2022 (either face to face or online). The exhibition highlights the importance of Indigenous research within a place-based relationship with Country and can be used as an educational tool for MQ students. A published article will be also be completed in 2022.
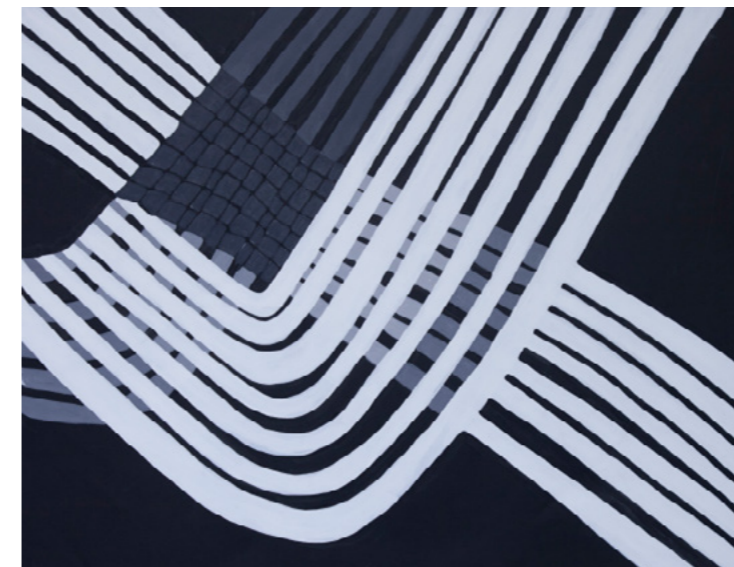
Right (top): Prof. Liz Czameron.
Right (middle): "Nura" – Country. Artwork by Prof. Liz Cameron (2021)
Right (bottom): "Yaban" - rhythmics of Country. Artwork by Prof. Liz Cameron (2021).
Left: "Galabidya"- cutting tool. Artwork by Prof. Liz Cameron (2021).

Postdoctoral Research Fellows

Highlighting the work of our 2021 CACHE Postdoctoral Research Fellows

Carlo Rindi Nuzzolo

Dr Carlo Rindi Nuzzolo is a Marie Skłodowska Curie Actions Post-Doctoral Global Fellow at the University of California, Berkeley and Institute of Heritage Science (ISPC-CNR), an Adjunct Research Associate in the Centre for Ancient Cultures at Monash University, and a member of the Dakhleh Oasis Project carrying out archaeological work in Egypt's Western Desert.

Carlo's CACHE fellowship project, entitled *Beyond the artefact: comprehensive analysis and cultural reconceptualisation of a Graeco-Roman mummy mask in the Macquarie University History Museum*, was sponsored by CACHE executive committee member Prof. Malcolm Choat. Carlo's fellowship project involved a multidisciplinary investigation of a Graeco-Roman period Egyptian cartonnage mummy mask held in the Macquarie University History Museum. Through iconographical study, photogrammetry, archaeometric analysis, and provenance research, Carlo aimed to provide new perspectives on the artefact's life – from manufacture to museum collection.

Carlo presented on the data he gathered throughout the fellowship at the CACHE Festival of Fellows, in December 2022. He is working on co-authored publication which will be submitted to a high-ranking scientific journal in 2022. His current Marie Curie project continues his research into Graeco-Roman cartonnage from Egypt, the investigation of artisanal productions, and the recontextualisation of cultural heritage. Previously, he was Lead Curator for a Cultural Heritage Project at the British Museum, one of the key initiatives in fighting the illicit antiquities trade. In 2022, he will publish the first comprehensive study of the Roman Period Cartonnage from the Kellis 1 Cemetery. We look forward to sharing the news of Carlo's publication on our website soon and continuing to follow his career.

Above: Dr Carlo Rindi Nuzzolo delivering the ICOM Palmyra Talk on the British Museum Circulating Artefacts Project at the International Council of Museums General Conference in Kyoto, 2019. Image credits: Dr Carlo Rindi Nuzzolo
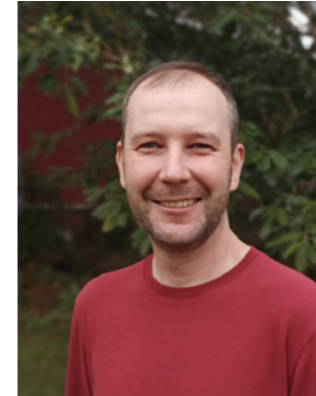
Michael Spate

Dr Michael Spate is the Edwin Cuthbert Hall Research Fellow in the Department of Archaeology at the University of Sydney, focusing on the deep history of human-environment interactions across Eurasia.

Mike completed his doctorate in 2020 at the University of Sydney with a thesis exploring the long-term pastoralist ecology of the Kashmir Valley. His CACHE fellowship project is entitled *Human impacts in the Central Asian sedimentary record* and was by sponsored by CACHE Co-Deputy Director Dr Emilie Ens. This research expands upon Mike's PhD by considering the Central Asian region more broadly. Mike explores the ancient and historic ecology of the area through palaeoenvironmental data, rather than through more traditional archaeological or ethnographic materials. During his fellowship Mike identified and mapped selected sites in a GIS database, indicating significant human impacts across the region as early as 4500 years ago. Mike reports on his positive experiences throughout his CACHE fellowship despite the difficulties of 2021, including continued COVID-19 disruptions. He has noted appreciation for the opportunities to network through CACHE, such as through the archaeology and history ECR catch ups. Mike also presented on his fellowship's research at the *Living Digital Heritage Conference*. Support from CACHE also allowed Mike to engage with two international collaborators with a long history of working in Inner Asia. He is now in the final stages of preparing a manuscript for submission. We look forward to sharing the news of Mike's publication and continuing to follow his research.

Above: Dr Carlo Rindi Nuzzolo documenting a cartonnage mummy mask. Image credits: Dr Carlo Rindi Nuzzolo

Right: Michael Spate. Image Credits: Michael Spate.

Below: Michael Spate On geoarchaeological fieldwork in Kazakhstan. Image Credits: Michael Spate.


Janet Wade

Dr Janet Wade is an Honorary Postdoctoral Fellow in the Department of History and Archaeology at Macquarie University whose research traverses the maritime and terrestrial environments, and the cultural heritage and landscape archaeology of the ancient Roman world and their modern reception.

Janet's CACHE fellowship project, titled *In the footsteps of Thomas Ashby and his companions: the destruction (and preservation) of Italy's ancient Roman roads, 100 years on*, was sponsored by CACHE member Prof. Peter Keegan. The project explored the changing conditions of ancient Roman roads and their surrounding environs over the 20th and 21st centuries. It investigated the integration of the ancient roads and infrastructure into their contemporary environment and culture. Through the juxtaposition of archival photographic and textual material with modern photographs and observation, Janet sought to reveal the level of destruction and preservation that has impacted Italy's cultural heritage over the past century of urban expansion, agricultural developments, and warfare.

Top Right: Janet Wade at the British School at Rome. Credit: Antonio Palmieri.
Bottom Right: Janet under an arch of the Bridge of Augustus and the via Flaminia in Narni, Umbria, Italy' Credit: Janet Wade

Janet reports the CACHE Postdoctoral Fellowship was of huge benefit to her as an early career researcher. She has an article from her CACHE fellowship research already accepted for publication in 2022, with a second publication submitted and awaiting review. Janet also presented aspects of her project at the CACHE *Living Digital Heritage Conference*, and the Macquarie University Department of History and Archaeology Research Seminar. Janet notes that a direct result of her CACHE fellowship was an increased social media presence for promoting her research. These new skills were a result of the *#SocialMediaSlam* workshops organised by the CACHE Director, Prof. Ronika Power. We look forward to sharing the news of Janet's publications and continuing to follow her career.
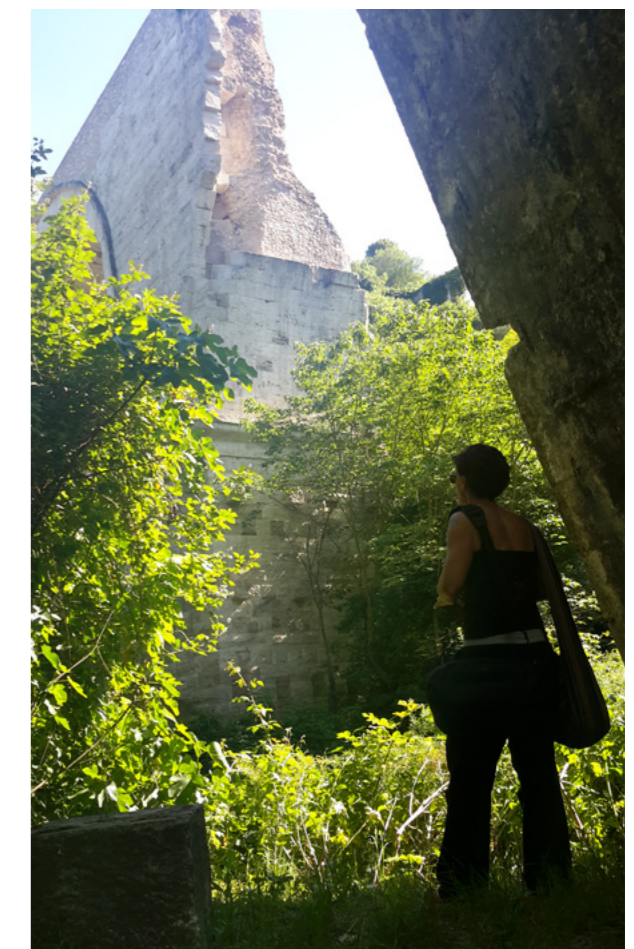
Events

Although our program of activities for 2021 continued to be impacted by the global pandemic, CACHE held several highly successful online events through the year. CACHE hosted and sponsored three online conferences, an interdisciplinary seminar series and a social media take-over!

Egypt and the Mediterranean World from the Late Fourth through the Third Millennium BCE
(20th May – 2nd June 2021)
by Hannah Vogel and Karin Sowada

Dr Karin Sowada, CACHE's Deputy Co-Director, co-convened the global zoom conference with Dr Matthew Adams (AIAR). CACHE co-sponsored the conference with the American Research Center in Egypt (ARCE, Cairo), the Journal of Ancient Egyptian Interconnections (Amman), and the W.F. Albright Institute of Archaeological Research (AIAR, Jerusalem).

Egypt and the Mediterranean World was a ground-breaking event. It brought together archaeologists, historians and scientists working across Egypt and the Levant to present and discuss data and broad themes that crossed geographical and disciplinary boundaries. Held across four days, there were four online sessions of invited papers, each hosted by a different international institute.

The conference had 50 contributors from 17 countries, with 635 attendees from 39 countries. The objective of this conference was to bring together the latest research on the interaction between Egypt and the Levantine and Aegean worlds in the late fourth – third millennium BCE (Late Early Bronze I – EB IV / Intermediate Bronze Age). During the third day of the conference, hosted by Macquarie University, several CACHE members presented their work.

Dr Anna-Latifa Mourad (History and Archaeology) presented a paper titled "'There's No Place Like Home?' Travels, Travelers, and Tropes from the Old to the Middle Kingdom", which focused on travel and travellers as mainly preserved in Old to Middle Kingdom textual material relating to Egyptian-Near Eastern relations. Anna-Latifa examined similarities and differences across time and questioned whether Old Kingdom transregional agents and activities, as well as their representations, influenced the emergence of tropes on border transgression and foreign entities.

Dr Karin Sowada, co-presented a paper titled "Imported Combed Ware from the Abydos Tombs of Weni the Elder and

> **The conference had 50 contributors from 17 countries, with 635 attendees from 39 countries.**

His Family" with Christian Knoblauch (Swansea University, Wales & University of Michigan Middle Cemetery Project). The paper evaluated a corpus of Combed Ware vessels found in the Abydos Middle Cemetery with the goal of identifying the likely origin of the vessels, Combed Ware workshop traditions, and the nature of late Old Kingdom foreign relations at the end of the Early Bronze Age.

CACHE Postdoctoral Research fellow, Dr Sophia Aharonovich, co-presented with Dr Karin Sowada (History and Archaeology) and Ailish Schneider (University of Sydney) on a paper titled "Multi-Proxy Residue Analysis of Levantine Combed Vessels from the Early Old Kingdom Giza". The paper expanded on the research on Combed Ware vessels presented in the Sowada and Knoblauch presentation, this time using materials from a different site and period. The presenters reported on scientific testing conducted at Macquarie University laboratories, including residue analysis and the identification of pollen grains, diatoms, and phytoliths, using Scanning Electron Microscope (SEM) images.

The conference program featured senior academics, mid-career scholars, ECRs and HDRs. The zoom webinar format enabled people from distant geographical locations to meet and share their work in a collegial environment. The proceedings will be published in late 2022 in a special refereed volume of the *Journal of Ancient Egyptian Interconnections* edited by Dr Sowada and Dr Adams.

Top and Right: Two versions of the Logo of Egypt and the Mediterranean World from the Late Fourth through the Third Millennium BCE Conference. Image Provided by Dr Karin Sowada, on the Confernece Website.

Living Digital Heritage Conference
(5th–7th November 2021)
by Hannah Vogel and Dr Frederick Hardtke

CACHE executive committee member, Dr Frederick Hardtke (CACHE, Honorary Research Fellow in History and Archaeology) convened the highly successful *Living Digital Heritage Conference*. The conference aimed to bring together arts, sciences and technology disciplines with a common, unifying goal of exploring virtual heritage from a variety of viewpoints and interest areas. This aim was soundly achieved with conference presenters and attendees including academics, practitioners, developers, students and ECRs from various universities around Australia and countries and regions around the world (including the USA, Europe, New Zealand, and Southeast Asia).

The conference was well-attended and attracted 257 attendees from 15 countries and 50 presentations by academic and industry speakers from Australia and overseas. Presentations included paper presentations, a panel session as well as a virtual exhibition session. There was a popular evening social event which included two presentations from the Centre for Architecture, Urbanism, and Global Heritage (CAUGH) at Nottingham Trent University, UK, followed by networking sessions. The keynote speaker, Prof. Erik Champion, is highly regarded in the Virtual Heritage domain and his presentation attracted a lot of interest.

CACHE also had many members presenting on their research, including postdoctoral research fellows, ECR affiliates, members and executive members.

2021 CACHE Postdoctoral Research fellow, Dr Janet Wade presented a paper titled "Through the camera lens: Investigating Italy's ancient Roman roads through Thomas Ashby and the BSR's photographic collections." This presentation was based on the research for Janet's fellowship, see page 9 for more details.

Dr Michael Spate, also presented on the research for his 2021 CACHE Postdoctoral Research fellowship titled, "Using legacy data to reconstruct human-landscape co-evolution in mountainous Inner Asia". More details on Michael's fellowship are on page 8.

CACHE Executive member, Prof. Bronwen Neil, member Dr Susan Lupack and their colleagues Prof. Deborah Richards, A/Prof. Ayse Bilgin, and Meredith Porte presented their research on the *Greek Villa Project*, which featured in the 2020 *CACHE Matters E-Zine*. The presentation titled "The Greek Villa Project: Using Virtual Reality to bring historical experiences to life and arouse empathy" included a demonstration of the VR experience for conference participants and discussed some of the issues that arose in designing it for use in a Greek archaeology undergraduate unit at Macquarie University.

Centre for Ancient Cultural Heritage & Environment
@cachemq

Our Convenor, Dr Fred Hardtke, opens Day 1 of our Living Digital Heritage Conference: 'Integrating the Past into the Present & Future' & Acknowledges Country. @Macquarie_Uni is located on the lands of the Wallamattagal Clan of the Dharug Nation. Their sovereignty was never ceded.

Macquarie University and 4 others

Top left: Sim Hub, Virtual Reality Image Creidts: Macquarie Univeirsrrty (2015), taken by Chris Stacey .
*Middle Right: Screenshot of Zoom with Dr Alice McClymont, Prof. Ronika Power, Dr Fred Hardtke (Image by Prof. Ronika Power, 2021).*
Bottom Right: Screenshot of CACHE Twitter Post about LDH Conference Day 1. (Image by Prof. Ronika Power, 2021).

One of our CACHE ECR affiliates, Dr Yasmina Wicks, presented her research in a paper titled "When doing nothing is not an option: Contemplating the ethics and value of using legacy data from the Elamite site of Susa." This paper argued for the value of the legacy records from excavations at Susa and contemplates how a critical framework for approaching the material might be achieved.


CACHE Executive Committee member, Michael Rampe, presented an impressive set of three papers. The first was titled, "Built for purpose 3D analysis tools integrated into the latest version of Pedestal 3D & Latest breakthrough results of using the 6-axis photogrammetry method". Michael's second paper, "3D digitisation at scale – Normalising the practice through collaboration, partnership and internship", described a new approach to the problem of limited project selection and small-scale use of 3D scanning. This new approach was developed and road-tested at Macquarie University to allow for an industrial scale of digitisation to be planned and executed. Michael Rampe and CACHE member Prof. Shawn Ross also co-presented a paper titled "Towards an open set of fieldwork photogrammetry protocols."

CACHE Executive Committee member and conference convenor Dr Frederick Hardtke co-presented with David Johnson their research on "Digital Preservation at an Egyptian Rock Art Site – an Overview of Techniques." Fred and CACHE member Dr Susanne Binder also co-presented on research that explored how legacy data can be reused, improved upon, integrated and re-interpreted in a paper titled "Deploying Legacy Data at an Egyptian Rock Art Site."
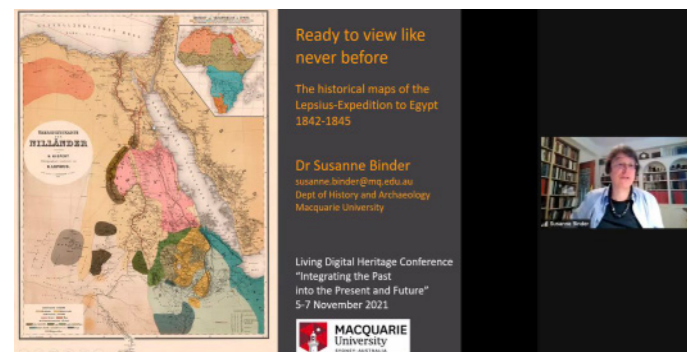
> " The conference was well-attended and attracted 257 attendees from 15 countries and 50 presentations by academic and industry speakers from Australia and overseas… "

A post-conference meeting was held on the evening of the last day with the aim of discussing future collaboration and to gauge interest in running future iterations of the conference. Attendees provided extremely useful feedback and there was unanimous interest in running the event again in two years' time with smaller events/workshops in between. There was also strong interest in establishing a community of practice or association as an enduring aspect. We are investigating the establishment of a community of practice, one component of which may include a dedicated website for *Living Digital Heritage* as an entity in its own right. CACHE has also developed a YouTube Channel which hosts recordings of many of the conference presentations. Overall, the conference attendees were profoundly impressed by the way the conference was delivered, its professionalism, its rich content and the diversity of areas covered.
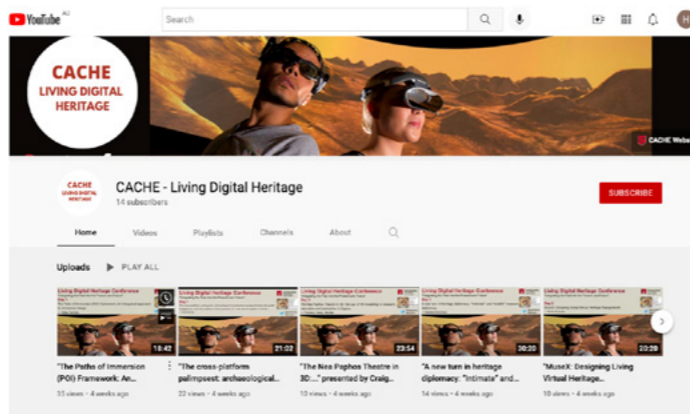
CACHE looks forward to collaborating with communities and industry to further develop events and research relating to living digital heritage in the near future.

Top left: Screenshot of Michael Rampe LDH Presentation (Image by Prof. Ronika Power, 2021).
Bottom left: Screenshot of Susanne Binder LDH Presentation (Image by Prof. Ronika Power, 2021).
Bottom Right: Living Digital Hertiage Youtube Channel (Image by Hannah Vogel, 2022).

## National Student Archaeology Conference (26th–29th October 2021)

by Hannah Vogel, Edward Cooper and Zac Roberts

CACHE co-sponsored the 2021 National Archaeology Student Conference (NASC) alongside Australasian Women in Ancient World Studies, Australia International Council on Monuments and Sites, Computer applications and Quantitative Methods in Archaeology, Prospectors P/L, Crozcare Geological Supplies, and Extent Heritage.

The conference was convened by student members of the Archaeology Society of Macquarie University with a total 21 student papers from 6 national and international institutions, keynote papers, workshops, and networking sessions. The conference was attended by 73 students from across Australia.

CACHE provided funding for 9 needs-based bursaries, 3 poster/paper prizes, publishing and merchandise costs, and co-hosted academic and industry networking sessions. Subsidised attendance allowed for engagement of students from lower socio-economic contexts, regional locations, or otherwise marginalised communities. This support was particularly beneficial considering the extended lockdowns in Sydney and Melbourne that impacted many students around the country.
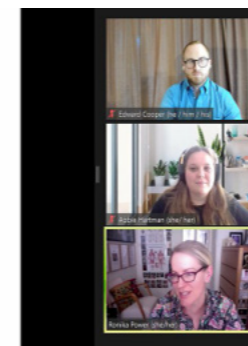
CACHE Director, Prof. Ronika Power was a keynote speaker and presented on her bioarchaeological research from the *FRAGSUS Project* in a paper titled "Prehistoric Malta and the People of the 'Temple Culture'". Prof. Power also delivered a workshop on "Social Media and Academic Communication" on the first day of the conference.

CACHE collaborated with NASC to develop two e-networking events. The first was a highly successful CACHE x NASC Academic Networking Lunch. Prof. Ronika Power and Dr Karin Sowada attended and shared their experiences with students. CACHE also sponsored a CACHE x NASC Industry Networking Session. Both events were an excellent opportunity for students to learn about career pathways and network together. NASC committee members Zac Roberts (2021 ECR Indigenous Australian Research Fellow) and Edward Cooper will assist many of the excellent student presenters to publish their papers in a special co-edited issue of the journal of the World Archaeological Congress, *Archaeologies*, in 2023.

Left, top: @nascaustralia Twitter Post (2021)
Left, bottom: Screenshot of NASC Social Media Workshop (Image by Prof. Ronika Power, 2021).
Right, top: Screenshot of NASC Keynote Lecture (Image by Prof. Ronika Power, 2021)
Right, botom: @nascaustralia Twitter Post (2021)

Online seminar Series: #SocialMediaSlam (29th September–3rd November 2021)

by Hannah Vogel and Ronika Power

In the second half of Semester 2, CACHE sponsored the inaugural *#SocialMediaSlam* - an online seminar series for HDRs and ECRs. The weekly Zoom seminars were convened by CACHE Director, Prof. Ronika Power, and included speakers from broad backgrounds (MQ Business School, Biological Sciences, Indigenous Studies, History and Archaeology). Invited speakers discussed their academic social media strategies, targeted primarily towards HDRs and ECRs. HDRs and ECRs also served as Chairs for the series.

Speakers included Beverley Miles (OpenLearning; Student Co-Hosts: Jess Binet & Michelle Kay); Dr Prashan Karunaratne (MQ Business School; Widening Participation and Student Co-Hosts: Jacinta Carruthers & Charlotte Wilkinson-Bibicos); Dr Vanessa Pirotta (Biological Sciences; Student Co-Hosts: Carla Raymond & Arzak Mohamed); Prof. Bronwyn Carlson and Prof. Sandy O'Sullivan (MQ Indigenous Studies; Student Co-Hosts: Zac Roberts & Genevieve Le Ban); Prof. Michelle Arrow (History and Archaeology; ECR Co-Hosts Dr Anna-Latifa Mourad & Dr Sophia Aharonovich); and Kyle Lewis Jordan (University College London) and Hannah Vogel (History and Archaeology; Student Co-Host: Sarah Massingham).

The need for this series stemmed from the acknowledgement that social media engagement is an increasingly important part of academic life - in terms of networking, supporting and connecting with colleagues and communities across the globe; doing, sharing and promoting research; advocating for (or against) important issues; keeping abreast of new concepts, discoveries and technologies; finding out about or participating in conferences, workshops and seminars; identifying scholarships or other job or funding opportunities; and much, much more!

> " *Our HDR and ECR (and interested staff) colleagues found some role models and inspiration that resonated with them, and encouraged them to be themselves on social media and set boundaries that help them feel comfortable and safe.* "

Perfect way to end our inaugural #HDR / #ECR @mq_dha #SocialMediaSlam: a conversation on #Accessibility on #SocialMedia, including lived experiences, resources, & allyship & advocacy. HUGE thanks to @HorusofNekhen (all the way from UK!) & Co-Hosts @hannah_vogel8 & @sarahbethmass

The *#SocialMediaSlam* was developed to showcase a diverse array of impactful social media users across our MQ community. The intention was to provide our HDRs and ECRs (and any interested staff) with a range of ways to engage, rather than espousing a one-size-fits-all conformist approach. We hope that through these diverse lenses, our HDR and ECR (and interested staff) colleagues found some role models and inspiration that resonated with them, and encouraged them to be themselves on social media and set boundaries that help them feel comfortable and safe.

The series was extremely well received and subscribed, with 147 participants across its 6 weeks offering. We were so pleased that this series positively contributed to student and ECR mentoring within the CACHE community.

Top right: Screenshot of Twitter post by @RKP_Industries (Image by Prof. Ronika Power, 2021).
Bottom right Screenshot of Twitter post by @BeverleyBMiles (Image by Beverley Miles, 2021).

Social Media Takeover: International Day of People with Disability (3rd December 2021)

by Hannah Vogel

The CACHE Twitter account (@cachemq) was 'taken over' by two Department of History and Archaeology HDR students, David Chapman and Hannah Vogel on Friday 3rd December 2021 – the *International Day of People with Disability* (IDPwD). David and Hannah curated an online and interactive discussion to raise awareness towards and amplify the work of scholars with disabilities within the research scope of CACHE.

The takeover included five Twitter threads (posts) relating to disability history and the work of scholars with a disability to be posted on both the Department of History and Archaeology (DHA) and CACHE's Twitter pages. The CACHE Twitter also had a separate thread relating to the research centre's broad interdisciplinary focus including ancient history, modern history, archaeology, cultural heritage, archaeological and environmental sciences.

This Social Media Takeover was the first occasion IDPwD has received significant attention on the CACHE agenda. Considering the CACHE aims to make significant steps to highlight and acknowledge the contribution of traditionally underrepresented communities in our disciplines, this take-over successfully directed CACHE to join important international recognition of IPWDD in a productive and respectful manner. The post series played an important role in critical conversations around accessibility, disability representation within CACHE, the DHA, MQU and followers of each account.

The Twitter takeover also shared practical resources and guides on accessibility and ethical engagement with disability history and appropriate use of terminology, which may be useful for pedagogical practice in the DHA and during CACHE sponsored events.

Bottom left: Logo for *International Day of People with Disability* (IDPwD) (2021).

CACHE Festival of Fellows (1st December 2021)

by Ronika Power

CACHE was delighted to wrap up the academic year with our first *Festival of Fellows*, held online on 1st December. The event provided an opportunity for us to gather in a relaxed setting to celebrate the diverse research of our 2021 CACHE ECR Indigenous Australian Research Fellows and CACHE Postdoctoral Research Fellows in the areas of cultural and environmental heritage; and to bid a fond farewell to our CACHE Centre Manager, Dr Alice McClymont, who decided to finally move on after relocating to Adelaide in the midst of lockdowns and working remotely for most of the year. After another challenging 12 months for all of us, it was a delight to close off the academic year with very positive, warm feelings, through a celebration of the researchers who are operating at the forefront of our disciplines – our ECRs.

Each of our two CACHE ECR Indigenous Australian Research Fellows – Prof. Liz Cameron and Zac Roberts – and our three CACHE Postdoctoral Research Fellows – Dr Carlo Rindi Nuzzolo, Dr Michael Spate and Dr Janet Wade – gave 20 minute presentations on their CACHE Fellowship projects (see pages 6-9 for details), followed by 10 minutes to field questions from the audience. The CACHE Fellows were all supported by their respective sponsors, and many CACHE members who attended to hear more about our colleagues' cutting-edge, exciting and inspiring research. As always, the 10 minute allocation for questions was never enough!

The event finished with a heartfelt tribute to our outgoing CACHE Centre Manager, Dr Alice McClymont, by the Director, Prof. Ronika Power, supplemented by many other spontaneous dedications from audience members. Alice offered a kind reply, in which she thanked the CACHE membership for their collegiality and cooperation throughout her time in the role. Although Alice will be sorely missed, the *Festival of Fellows* was a fantastic way to celebrate another year of working and learning together, and we'll look forward to hosting this event again at the end of 2022.

Research Initiatives

Antiquity In the Archive: Rediscovering Beni Hassan in the Griffith Institute Archive, Oxford University.

by Alexandra Woods

Antiquity in the Archive is a collaborative project between the Griffith Institute, Oxford University, and the Department of History and Archaeology, Macquarie University. The project team includes Dr Alexandra Woods (Project Lead, CACHE member & Senior Lecturer, Macquarie University), Dr Francisco Bosch-Puche (Archive curator, Griffith Institute, Oxford University), Sara Hany Abed (Project translator), Dr Nicolle Leary (Research Affiliate, Macquarie University) and Dr Julia Hamilton (Research Affiliate, Leiden University).

In October 1890 the Egypt Exploration Fund (EEF, now Society) established the Archaeological Survey of Egypt with the intention to: "map, plan, photograph and copy all the most important sites, sculptures, paintings and inscriptions yet extant, so as to preserve at least a faithful record of these fast-perishing monuments". (A. Edwards, 15 October 1890, *The Times*). At the recommendation of Francis Llewellyn Griffith, the first Superintendent of the Archaeological Survey of Egypt, the EEF committee chose the site of Beni Hassan in Middle Egypt to initiate the survey. Led by Percy E. Newberry, over 3 seasons the team selectively cleared and recorded the 11th and 12th Dynasty tombs in the upper cemetery at Beni Hassan (winter 1890, 1892–1893) in addition to the nearby 12th Dynasty tombs at Deir el-Bersha (winter 1891–1892). The chief result of the mission to Beni Hassan was the publication of the first volumes of the *Archaeological Survey of Egypt* (vols 1–2, 5, 7) between 1893–1900. Over 260 documentary records known from Beni Hassan are currently housed in the Griffith Institute Archive (GIA), Oxford University, including watercolours and various publication materials; however the majority are not digitised and are therefore inaccessible to researchers, students and the wider public.

The project aims to theorise and critique the development and cultural effects of a (digital) archaeological archive using the Beni Hassan material in the *Griffith Institute*, Oxford University, as a case study. In alignment with the 'archival turn' in the humanities and the shift from viewing 'archive–as–source' to 'archive–as–subject', the project intends to treat the documentation on Beni Hassan within the GIA repository as historical artefacts with complex conditions of production. The documentation will be read and interpreted both as a historical source for the context

and provenience of archaeological remains at the site, as well as remnants of the broader political, theoretical and societal circumstances and/or conditions that influenced the archaeological recording processes. The project team also intends to develop an ethical, responsible, sustainable, accessible, and inclusive research framework for the study of documentary records and establish a benchmark for public-facing research in ancient world studies.

In 2021, CACHE provided research initiative funding for the *Antiquity In the Archive* project team to continue the digital documentation of the 260 archive materials captured by the former *EEF* related to the cemetery of Beni Hassan in Egypt and develop digital resources. The archive is soon to be published in project website as a bi-lingual resource (English and Arabic), which will make the content accessible to an international audience and publicise the archive's cultural legacy.

Above (top): Antiquity In the Archive Logo. Image credits A. Woods (2021).
Above (bottom): Photograph of a glass negative of a group of people of non-Egyptian origin, a scene from the tomb of Khnumhotep II, Tomb 3, Beni Hassan, Egypt (Davies MSS 13.115). From the collection of the Griffith Institute Archive, University of Oxford. Reproduced with permission of The Griffith Institute, University of Oxford. Photo: A. Woods. © The Griffith Institute, University of Oxford. All rights reserved.

CACHE Executive Committee
2021

Executive Committee 2021

Director

Prof. Ronika Power (History and Archaeology, MQ)

Co-Deputy Directors

Dr Emilie Ens (School of Natural Sciences, MQ)

Dr Karin Sowada (History and Archaeology, MQ)

Committee Members

Renee Cawthorne (Royal Botanical Garden, Sydney, and School of Natural Sciences, MQ)

Prof. Malcolm Choat (History and Archaeology, MQ)

Prof. Damian Gore (School of Natural Sciences, MQ)

Dr Fred Hardtke (History and Archaeology, MQ)

Prof. Marie Herberstein (School of Natural Sciences, MQ)

Prof. Ray Laurence (History and Archaeology, MQ)

Prof. Bronwen Neil (History and Archaeology, MQ)

Dr Tim Ralph (School of Natural Sciences, MQ)

Michael Rampe (Faculty of Arts, MQ)

Centre Managers 2021

Hannah Vogel (Incoming, History and Archaeology, MQ)
Dr Alice McClymont (History and Archaeology, MQ)

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