Harry Butler Education Hub

The Harry Butler Education Hub is the central point for the research-connected education and outreach programs run by our Institute.

In 2024, HBI's science educators delivered a dynamic range of programs connecting schools, students, and communities with real-world science, across regional and metropolitan WA.

Highlights included the trial of a multi-context **Wetland Education Program**, expansion into **Humanities and Social Sciences** (HASS) classrooms, national recognition for our **Miyawaki Pocket Forest Program**, and the successful delivery of the **WA Bug Barcode Blitz** during National Science Week.

Strong collaborations with researchers, schools, industry partners, and the WA Department of Education enabled the development of innovative, curriculum-linked resources with hands-on science learning for students. Public engagement was strengthened through high-profile events such as the WISE Women in STEM Seminar, the STAWA Future Science Conference, Coogee Live, and the Australian Museum Eureka Prize, helping to build a vibrant and accessible science education presence across Western Australia.

OUTREACH PROGRAMS

Number of schools

22

Primary and high schools

Number of students

>400

Regions

Perth
Peel
Goldfields-Esperance
Great Southern
Wheatbelt

Banksia
Photo Kat Sambrooks, HBI

Students form St Mary's Anglican Girls School conducting water monitoring.
Photo Dannon Wu, HBI

Wetland Science Project

Wetland Science was trialled across three distinct environmental science contexts: tracking **snake-necked turtles**, exploring **cybernetic mussel water monitoring systems**, and investigating **invasive fish species**. Participating schools included St Mary's Anglican Girls' School, Pinjarra Senior High School, John Tonkin College, Waroona District High School, and Byford Secondary College.

Throughout the trials, researchers worked directly with students, guiding them through field-based data collection, digital data analysis, and the development of public education posters to communicate their findings. Students also visited Murdoch University to take part in hands-on workshops, including activities in technology programming to understand how systems like the cybernetic mussels operate.

Drawing on insights from each trial, a new version of the program is being developed for rollout in 2025. This version will allow students to customise their learning journey by selecting one of the three environmental contexts, while ensuring strong alignment with curriculum requirements across science, technology, and environmental studies.

National Science Week: WA Bug Barcode Blitz

A collaboration between HBI, BioBarcode Australia, AGRF, Promega Aust and Fisher Biotek brought about an exciting new citizen scientist program for National Science Week.

WA Bug Barcode Blitz, supported by a National Science Week Inspiring Australia Grant engaged schools and communities in collecting and identifying invertebrate species using DNA barcoding technology.

To support widespread regional participation, a professional **instructional video** and a set of accompanying resources were developed and shared with registered schools. Experts from HBI's Invertebrate Diagnostics Lab connected with students via an online streaming link to share their knowledge of WA's unique spiders and insect species.

The initiative, funded by the WA Inspiring Australia grant program, established of a new collaboration with the **WA Department of Education's Two-Way Science program**, and enabled students from remote community schools to participate in high-tech biotechnology activities for the first time.

Students processing their insect specimens for barcoding.
Photo Looma Remote Community School

Miyawaki Pocket Forest Program Update

In 2024, HBI ecologist Dr Grey Coupland and her team achieved significant milestones in advancing urban greening through the Miyawaki method. Through the program, the pocket forests team partners with schools or local communities to plant dense, biodiverse native forests which serve to provide habitat, combat urban heat, contribute to carbon sequestration and encourage citizen science and stewardship, while contributing to real research.

In 2024 the program, recognised by UNESCO as one of 150 global 'Green Citizens' programs, has continued to expand in both its reach and impact, locally and globally. Several new schools and local communities have joined the program, resulting in new forests planted and natural areas restored as well as hundreds of citizen scientists joining the program. The project has also garnered acclaim and media attention on an unprecedented scale, with it featuring in advertisements posted in 97 underground railway stations within the city of Paris, France throughout September.

A pocket forest created at Statewide Services with the Western Australian Department of Education is already being used for teacher training as part of their 'bush classroom initiative' and two-way science program.

Students from East Butler Primary School planting their forest.
Photo Dr Grey Coupland, HBI

Eddystone Primary School forest at 22 months growth.
Photo Dr Grey Coupland, HBI

Monitoring of previously planted forests continues, resulting in some positive results. The forest at Eddystone Primary School has demonstrated not only remarkable growth, with trees reaching over three meters in just two years, but the substantial cooling effects when compared to surrounding unforested areas.

Program leader, Dr Grey Coupland was recognised for her conservation efforts through the program when she was awarded the Dr Nic Dunlop Conservation Science award by the Conservation Council of WA, in November.

Much like its forests, the Miyawaki Pocket Forest program continues to grow at a healthy rate, extending its branches into schools across the Perth region and beyond. With Dr Coupland's efforts, the program contributes significantly to the reforestation and rewilding of urban schools and fosters engaged communities of citizen scientists to care for them.

Learn more about the Miyawaki Pocket Forests Program at **www.pocketforestswa.org**

Expanding into HASS classrooms

HBI's education programs expanded into Humanities and Social Sciences (HASS) classrooms, particularly in Geography, in response to the new WA syllabus that emphasises global challenges such as climate change, biodiversity loss, and land use change.

A key highlight was a full-day incursion hosted by Darling Range Sports College, where students explored how drone technology and robotics can be applied to environmental problem-solving. These technologies were demonstrated by HBI staff and partners, showcasing geospatial mapping tools and real-world research applications.

Live streaming the WA Bug Barcode blitz.
Photo Dannon Wu, HBI

Marketing

The institute has built a reputation within and beyond Murdoch University as proficient science communicators. We harness these skills to engage, enlighten and acknowledge our valued stakeholders through a variety of communications mediums.

Digital media

Through the HBI LinkedIn channel we continued grow our online following and increase our impact on the digital audience. While we experienced a moderate growth in **followers** (**33%**) compared to the previous year (**78%**), our content made a greater impression on audiences than ever before, with our top 10 posts earning between **1763** and **4267 impressions**.

Our LinkedIn channel continues to be an important communications platform for us and a significant connection between the researchers, the research, and the stakeholders. As digital media generally continue to increase in significance compared to non-digital communications forms, HBI will look to expand its repertoire of digital media channels in the future.

LINKEDIN METRICS IN 2024

Page followers
2350

Increase followers
33%

Posts
73

Average impressions score
1078

Top 10 scoring post impressions
1763–4267

Behind the scenes filming at Albany.
Photo Dannon Wu, HBI

Videos

In 2024, HBI saw increased engagement with its research story videos on Murdoch University's YouTube channel, likely due to a more story-driven format. These four- to six-minute videos, added to The Harry Butler Institute playlist, felt more engaging than typical corporate videos. To boost visibility, HBI began uploading videos directly to LinkedIn instead of linking from YouTube, resulting in higher engagement due to auto-play functionality. While this split viewership between platforms, the strategy enhanced recognition and interaction across both channels, marking a positive step forward in sharing HBI's research stories and the people behind them.

For National Science Week 2024, HBI supported the first **WA Bug Barcode Blitz** led by Pauline Charman, delivering a two-camera, live-switched livestream to schools and community centres statewide. A 19.5-minute instructional video was also created as a contingency and shared with facilitators. In 2024, HBI developed a hybrid event setup using existing gear, first used at the Alcoa Foundation Research Symposium. Events were livestreamed, recorded, and, when appropriate, professionally filmed and uploaded to YouTube to improve quality beyond standard lecture theatre recordings.

VIDEO METRICS IN 2024

Number of videos published to YouTube

8

5 to MU YouTube and 3 to HBI YouTube

Highest number of views

Black Cockatoos: 'Keep Carnaby's Flying: Ngoolarks Forever'

3294

the highest viewed HBI video ever

Total number of videos completed in 2024

8

HBI Video Playlist:
www.youtube.com/playlist?list=PLibRr7jgG2270B-_GPngtW_Z0spCTYn_X

Events

Society for Marine Mammals Conference

For the first time in the International Society for Marine Mammalogy's 50+ year history, world marine mammal experts headed to Perth to share their knowledge about the ocean's diverse ecosystem. More than 1,300 people from 80 nations attended and shone a light on the theme 'Culture and Conservation: Fishing for Change'.

This theme encapsulated two key areas — the relationship between marine mammal and human cultures, and the impact of discarded fishing gear/waste on marine life.

Two of the key local organisers responsible to the successful Perth conference were HBI postdoctoral research fellows Dr Krista Nicholson, a population ecologist working on dolphin populations in the Peel region and Dr Delphine Chabanne who works on the ecology and genetics of coastal and estuarine dolphin species. Dr Nicholson was the Co-Chair of the 2024 Conference, while Dr Chabanne served as Scientific Program Co-Chair.

The conference featured a weekend of workshops followed by a week of talks, videos and a new event in the form of a Film Festival. The event was a great success, fulfilling its vision to host an enriching and sustainable conference for all.

"The exchange of ideas and experiences at this conference will not only enhance our understanding of marine mammals but also inspire innovative solutions to the challenges they face in a rapidly changing world," Dr Chabanne said.

The 25th Biennial Conference on the Biology of Marine Mammals took place at the Perth Convention and Exhibition Centre in November.

Delphine and Krista BMM 2024.
Photo Kat Sambrooks, HBI

Jayson Brown presenting at the Festival of Ngoolarks.
Photo Kat Sambrooks, HBI

Festival of Ngoolarks

Murdoch University hosted the inaugural Festival of Ngoolarks, a celebration of the Carnaby's black cockatoo, or Ngoolark. The festival was part of the Murdoch University-led Keep Carnaby's Flying — Ngoolarks Forever project, supported by LotteryWest in collaboration with key partners.

The Murdoch University project team was joined by key community partners, including Perth Zoo, ReWild Perth, the Urban Bushland Council, Kaarakin Black Cockatoo Rescue, and key Local Government, who hosted information stalls. Local Noongar Elders shared stories about the cockatoos in ancient times. The event concluded with a screening of the independent film Black Cockatoo Crisis, introduced by film-maker Jane Hammond. The event was a fitting public tribute to these iconic birds and the people who work hard to protect them.

Carnaby's black cockatoo.
Photo Karen Riley, MU

Professor Peter Newman delivering the 2024 Roby Lecture.
Photo Kat Sambrooks, HBI

Keith Roby Memorial Lecture

The 2024 Keith Roby Memorial Lecture coincided with Murdoch University's 50th anniversary celebrations—an occasion acknowledged by distinguished lecturer Professor Peter Newman.

Now Professor of Sustainability at Curtin University, he reflected on the early days of his career as one of Murdoch's inaugural Environmental Science lecturers, during a time when the field was just emerging in Australia. He spoke of the influence of Keith Roby on his thinking and teaching, highlighting Roby's role in shaping his commitment to social and environmental justice. He reflected on his longstanding relationship with Murdoch University including academic appointments from 1974 to 2007, where he progressed from lecturer to professor in Environmental Science, and served as inaugural Director of the Institute for Sustainability and Technology Policy, which contributed to policy development both nationally and internationally.

His return to Murdoch University for this lecture was both a celebration of the institution's legacy and a tribute to the enduring impact of Keith Roby's vision. The lecture was appreciated by a diverse audience of Murdoch University staff and students as well as Professor Newman's past students, colleagues and friends.

A recording of the lecture is available on the HBI YouTube channel: https://youtu.be/4B37Xbpmtx8?si=sw565P0hMWkGyBSj

Bringing science to the community at Coogee Live

Murdoch University's STEM Outreach team and HBI Outreach team pooled their talents to engage the Cockburn community at the 2024 Coogee Live Festival.

The festival attracted thousands of visitors to Omeo Park, where they were treated to live entertainment and engaged with a range of stalls. Our display featured engaging citizen science projects and hands-on activities for all ages and offered the opportunity to learn from real scientists. It was valuable to be part of this large community event.

Professor Bowerman with lecture organisers and attendees.
Photo Kat Sambrooks, HBI

Marie Windstein interviews Jane Goodall

PhD-candidate and movement ecologist, Marie Windstein interviewed Dr Jane Goodall as part of the 'Reasons For Hope Tour'.

Marie Windstein, a PhD candidate and movement ecologist at HBI was selected by the Forrest Foundation to interview famed environmental advocate Dr Jane Goodall. Their discussion, held live at Curtin University before a packed auditorium, highlighted the ongoing challenges and aspirations within the field of conservation, resonating with the theme of the 'Reasons for Hope Tour'.

For Marie, it was a once in a lifetime opportunity to meet and interview someone who had been such an inspiration to her both personally and professionally.

www.linkedin.com/feed/update/urn:li:activity:7201135917544202240

This initiative supports the United Nations Sustainable Development Goals **4**, **13**, **14**, **15** & **17**.

Dr Jane Goodall being interviewed by Marie Windstein.
Photo Sofia Ottone

Avian Influenza – lessons from USA's bald eagles

High Pathogenicity Avian Influenza (HPAI) is a significant threat to Australia's biodiversity and poultry industry.

The deadly disease is spreading across North America, South America, Asia, Europe, the Middle East and Africa, causing illness and death in a wide range of bird species. HBI invited wildlife ecologist and toxicologist, Professor William Bowerman from the University of Maryland USA to give a special public lecture on Highly Pathogenic Avian Influenza (HPIA) linked to a population-level additive mortality event of bald eagles in Michigan. Professor Bowerman shared important lessons for Australia, learned through his long-term study of bald eagles.

The lecture was attended by wildlife and researchers, professionals, volunteers and students concerned about this deadly disease and how it will impact Australian fauna.

Awards

University Senate Medal for Emeritus Professor Jen McComb

Emeritus Professor Jen McComb was awarded the prestigious Murdoch University Senate Medal for her outstanding service to the University.

Although retiring 20 years ago, Jen has continued to impart her wisdom and influence on the plant pathology and physiology group at Murdoch University.

She has gone above and beyond in her support of students, regularly meeting with each student, guiding the development of their English and scientific communication skills, providing overall support. Her dedication has not only helped these students excel in their studies but has empowered them to make their own confident contributions to the field through publications.

The mentorship, support and friendship provided by Professor McComb helped her students to complete their PhDs and pursue postgraduate careers in their fields.

A number of her students sent letters supporting Professor McComb's nomination for the award, describing the impact she has had on their professional careers. Professor McComb's achievement was celebrated by plant pathology and physiology colleagues and past students.

Emeritus Professor Jen McComb receiving her senate medal from Vice Chancellor Professor Andrew Deeks.
Photo Murdoch University

CCWA Award.
Photo Conservation Council WA

Recognition for an innovative urban greening initiative

Dr Grey Coupland was awarded the Dr Nic Dunlop Conservation Science award by the Conservation Council of WA. The award recognises an individual who has shown exceptional commitment to conservation science in WA. The recipient is a leader in restoring landscapes, creating wildlife habitats, or connecting people to nature.

Dr Coupland was nominated for her achievements in ecological restoration, STEM engagement in children, and community capacity building through the Miyawaki Forest program she leads. She was awarded alongside fellow award-winners at a ceremony held at The Wetlands Centre Cockburn.

RSWA John Glover Research Support Grant Awardees

Each year, the Royal Society of Western Australia awards John Glover Research Support Grants to worthy PhD students within the fields of natural sciences, anthropology, or archaeology. The awards are given in honour of their benefactor and former President of the Royal Society of WA, John Glover.

Among the 2024 recipients were HBI Murdoch University researchers Faith Chen, whose research compared methods for monitoring feral cats; Helen Armstrong, who was exploring the taxonomy, systematics biodiversity and biogeography of Cryptogonimidae trematode flatworms in Australian marine fishes; and Marie Windstein, whose research sought to understand the spatial ecology of sharks and rays in the nearshore environment of a newly created Sea Country Indigenous Protected Area in the Kimberley. The winners used their grants to further their research.

Some of the 2024 RSWA John Glover Research Support Grant winners including Faith Chen (far left), and Helen Armstrong (third from right).
Photo Kat Sambrooks, HBI

Publications

Research academics and students across the Harry Butler Institute's four Centre's have published their original research, analytical reviews and novel species descriptions in some of the world's highest rated scientific journals, including *Nature*, *Nature Communications*, *Fungal Diversity*, *Studies in Mycology* and *Science of the Total Environment*.

1. Abdo L.J., Griffin S., Kemp A., Coupland G. Has a dedicated biodiversity offsets policy improved the environmental and social compensation outcomes of development in Australia? (2024) Environment, Development and Sustainability, Cited 0 times. DOI: 10.1007/s10668-024-05108-0. **www.scopus.com/inward/record.uri?eid=2-s2.0-85202456886&doi=10.1007%2fs10668-024-05108-0&partnerID=40&md5=02b82f3a075003697caacb9408cab737**

2. Abdullah A.A., Dlugogorski B.Z., Oskierski H.C., Senanayake G. Kinetics of spodumene calcination (α-LiAlSi2O6) (2024) Minerals Engineering, 216, art. no. 108902, Cited 1 times. DOI: 10.1016/j.mineng.2024.108902. **www.scopus.com/inward/record.uri?eid=2-s2.0-85200959306&doi=10.1016%2fj.mineng.2024.108902&partnerID=40&md5=cf6e9a4781108dbb02321b50b4523880**

3. Abdullahi I.N., Lozano C., Latorre-Fernández J., Zarazaga M., Stegger M., Torres C. Genomic analysis of multi-drug resistant coagulase-negative staphylococci from healthy humans and animals revealed unusual mechanisms of resistance and CRISPR-Cas system (2024) International Microbiology, Cited 0 times. DOI: 10.1007/s10123-024-00577-9. **www.scopus.com/inward/record.uri?eid=2-s2.0-85204295117&doi=10.1007%2fs10123-024-00577-9&partnerID=40&md5=4f1bb41c28545c31a987e22cf52b333a**

4. Abdullahi I.N., Lozano C., Zarazaga M., Latorre-Fernández J., Hallstrøm S., Rasmussen A., Stegger M., Torres C. Genomic Characterization and Phylogenetic Analysis of Linezolid-Resistant Enterococcus from the Nostrils of Healthy Hosts Identifies Zoonotic Transmission (2024) Current Microbiology, 81 (8), art. no. 225, Cited 1 times. DOI: 10.1007/s00284-024-03737-2. **www.scopus.com/inward/record.uri?eid=2-s2.0-85196014619&doi=10.1007%2fs00284-024-03737-2&partnerID=40&md5=97c7eb641edf92aa17ff18292b97ee0d**

5. Abdullahi I.N., Lozano C., Zarazaga M., Simón C., Höfle U., Sieber R.N., Latorre-Fernández J., Stegger M., Torres C. Comparative genomics of *Staphylococcus aureus* strains from wild birds and pig farms elucidates levels of mobilomes, antibiotic pressure and host adaptation (2024) Journal of Global Antimicrobial Resistance, 36, pp. 142–150, Cited 4 times. DOI: 10.1016/j.jgar.2023.12.003. **www.scopus.com/inward/record.uri?eid=2-s2.0-85183549395&doi=10.1016%2fj.jgar.2023.12.003&partnerID=40&md5=015d91e3d2979e92aa16eebc308244d6**

6. Alavianghavanini A., Moheimani N.R., Bahri P.A. Process design and economic analysis for the production of microalgae from anaerobic digestates in open raceway ponds (2024) Science of the Total Environment, 923, art. no. 171554, Cited 3 times. DOI: 10.1016/j.scitotenv.2024.171554. **www.scopus.com/inward/record.uri?eid=2-s2.0-85187198202&doi=10.1016%2fj.scitotenv.2024.171554&partnerID=40&md5=3deb8e0d675080874eedc2dd26024e19**

7. Alavianghavanini A., Moheimani N.R., Bahri P.A. Producing protein-based products from microalgae cultivated on anaerobically digested abattoir effluent: Process integration and techno-economic analysis (2024) Bioresource Technology Reports, 25, art. no. 101734, Cited 8 times. DOI: 10.1016/j.biteb.2023.101734. **www.scopus.com/inward/record.uri?eid=2-s2.0-85179134174&doi=10.1016%2fj.biteb.2023.101734&partnerID=40&md5=dc1ab0ebfa1c59de66cb4e28725ec601**

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9. Alejandro A.L., Bruce M., Leo W.W.C. Changes in parental anxiety and intention to demand antibiotics: A longitudinal study among parents during the COVID-19 pandemic (2024) Journal of Advanced Nursing, 80 (6), pp. 2392–2402, Cited 0 times. DOI: 10.1111/jan.16008. **www.scopus.com/inward/record.uri?eid=2-s2.0-85178428826&doi=10.1111%2fjan.16008&partnerID=40&md5=bceaa53799b38d262a12d613ab1c51b3**

10. Ali A.A.I., Mahgoub S.A., Ahmed A.F., Mosa W.F.A., El-Saadony M.T., Mohamed M.D.A., Alomran M.M., Al-Gheffari H.K., El-Tarabily K.A., AbuQamar S.F., El-Ashry R.M. Utilizing endophytic plant growth-promoting bacteria and the nematophagous fungus *Purpureocillium lilacinum* as biocontrol agents against the root-knot nematode (*Meloidogyne incognita*) on tomato plants (2024) European Journal of Plant Pathology, 170 (2), pp. 417–436, Cited 5 times. DOI: 10.1007/s10658-024-02907-z. **www.scopus.com/inward/record.uri?eid=2-s2.0-85199315601&doi=10.1007%2fs10658-024-02907-z&partnerID=40&md5=8421258bae0fd3a09d1fc182ff4922d5**

11. Amalia D., Singh P., Zhang W., Nikoloski A.N. A Review of Pretreatment Methods for Spent Lithium-Ion Batteries to Produce Black Mass–Comparison of Processes of Asia Pacific Recyclers (2024) Mineral Processing and Extractive Metallurgy Review, Cited 2 times. DOI: 10.1080/08827508.2024.2367420. **www.scopus.com/inward/record.uri?eid=2-s2.0-85196417351&doi=10.1080%2f08827508.2024.2367420&partnerID=40&md5=0075ded085dc87a658197f1d2318ccf1**

12. Amani M.A., Aghamohammadi N. A novel technology to monitor effects of ethylene on the food products' supply chain: a deep learning approach (2024) International Journal of Environmental Science and Technology, 21 (5), pp. 5007–5018, Cited 4 times. DOI: 10.1007/s13762-023-05328-3. **www.scopus.com/inward/record.uri?eid=2-s2.0-85180692464&doi=10.1007%2fs13762-023-05328-3&partnerID=40&md5=757a29129bb42e27b3a08e75365d382c**

13. Andrzejaczek S., Gleiss A., Lear K., McGregor F., Chapple T., Meekan M. Stomach eversion and retraction by a tagged tiger shark at Ningaloo Reef, Western Australia (2024) Fisheries Research, 269, art. no. 106875, Cited 0 times. DOI: 10.1016/j.fishres.2023.106875. **www.scopus.com/inward/record.uri?eid=2-s2.0-85173318718&doi=10.1016%2fj.fishres.2023.106875&partnerID=40&md5=a5141f3532af4a9797677eb896e5b149**

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15. Asad S., Gu P., Peng C., Huang H., Jiang F., Patabedige N., Karunarathna S.C., Hapuarachchi K.K. Biotechnological potential of Ganoderma species: current progress and future prospects (2024) New Zealand Journal of Botany, Cited 0 times. DOI: 10.1080/0028825X.2024.2376924. **www.scopus.com/inward/record.uri?eid=2-s2.0-85201959456&doi=10.1080%2f0028825X.2024.2376924&partnerID=40&md5=698aa6c1c4c9f61359d4ae420447e904**

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18. Ayre J., Moheimani N. Potential of Algal Culture to Treat Anaerobic Digestate of Piggery Waste for Bioremediation and Biomass Production (2024) Algae Mediated Bioremediation: Industrial Prospectives: Volume 2, pp. 205–243, Cited 0 times. DOI: 10.1002/9783527843367.ch11. **www.scopus.com/inward/record.uri?eid=2-s2.0-85194299508&doi=10.1002%2f9783527843367.ch11&partnerID=40&md5=cf86b40c6618d812e348bfdf6975d4c6**

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Snake and spinifex ecosystem.
Photo Rachel Standish, HBI

Dragonfly specimen.
Photo Dannon Wu, HBI

Arachnid taxonomy specimens.
Photo Dannon Wu, HBI

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Volker Framenau collecting a spider.
Photo Dannon Wu, HBI

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