

Farrowing Feeding with Wireless Activator

nedap
FeedWorks
Performance Through Science

Doug Pearson +61 408 735 185
David Cadogan +61 409 049 793
www.feedworks.com.au

Australian Pork

NEWSPAPER

STOCKYARD
INDUSTRIES

Phone: 07 4697 3344 • Fax 07 4697 3532
www.stockyardindustries.com

Vol 28. No. 11 November 2024 Australian Pork Newspaper PO Box 162 Wynnum 4178 Phone (07) 3286 1833 Email ben@collins.media



SunPork will share its intellectual property with the sector, meaning that by adopting the proactive innovation, the Australian pork industry can lead the world in pig welfare.

SunPork reveals world-first innovation for pork production

SUNPORK has unveiled an animal welfare breakthrough with the recent launch of a new patented 'maternity ring' to eliminate farrowing crates.

Australian pork producer SunPork has developed the new technology through extensive research and development over the past 10 years, with no external funding, to deliver a commercially viable solution to improve sow welfare during the period in which sows nurse their piglets, known as farrowing.

Farrowing crates have traditionally been used to reduce the inherent risk of piglet mortality during nursing and, until this breakthrough, have remained the last element of close confinement without viable alternatives in Australian commercial pork production.

The ring is a single suspended oval-shaped hoop that allows sows greater freedom of movement to support

natural nesting behaviour and socialising between sows, while limiting the potential for rolling, which can risk injuring piglets.

SunPork intends to gradually transition its entire operations to be 100 percent crate and stall-free, through the introduction of the new maternity ring, its current work to remove mating stalls and its previous removal of all gestation stalls.

SunPork is Woolworths' largest pork supplier by volume, and Woolworths' partnership on this new innovation will see the first 100 percent crate-free, cage-free and stall-free fresh pork enter Woolworths' supply chain.

Under this strategic partnership, SunPork's entire supply to Woolworths will transition to crate, cage and stall-free in the years ahead.

SunPork Group chief executive officer Dr Robert van Barneveld said, "We set the team a formidable task 10 years

ago – to find a commercially viable alternative to farrowing crates that not only eliminated the need for any confinement during farrowing and lactation, but demonstrably improved the welfare of the sow while safeguarding her piglets."

"I am so proud of what our team has achieved.

"By adopting this proactive innovation, the Australian pork industry can lead the world in pig welfare – noting this is one of very few solutions for elimination of close-confinement that benefits the sow, the piglet, the pork producer and the consumer simultaneously."

The Woolworths Group red meat business Greenstock managing director Anna Speer said, "Animal welfare is not only crucial to our business, but our customers rightly expect that the animals in our supply chain have the best possible lives we can give them, in

continued P2

Government looks to be nature positive

LAST month, the Australian Government hosted its first Global Nature Positive Summit.

The summit brought together a diverse group of leaders from government, business, academia, agriculture, environmental organisations and Indigenous communities to hear the government's goal of protecting and restoring nature.

At the heart of the discussions was the Kunming-Montreal Global Biodiversity Framework, under which Australia, along with other signatories, has committed to protecting or restoring at least 30 percent of land and water by 2030.

This ambitious target highlights a global goal to safeguard biodiversity, with the world's economic stability deeply intertwined with the health of natural ecosystems.

With over half of the global economy directly dependent on nature, biodiversity loss poses a direct threat to economic se-

AUSTRALIAN Pork
Point of View
by MARGO ANDRAE
CEO



curity, risking an estimated \$A66.31 trillion in value.

The Australian Government's strategy to meet the shared goals of the GBF is the Strategy for Nature 2024-30, which sets ambitious national targets to tackle biodiversity decline.

For Australian agriculture, the stakes are high, but so are the opportunities.

With agriculture covering about 55 percent of Australia's land use, the agriculture sector is both key player and stakeholder in government's discussions.

With primary producers' stewards of vital farming land, achieving the government's 30 percent protection goal will require careful plan-

ning, significant consultation and cooperation with agricultural communities across the country.

During the summit, the National Farmers' Federation led a session that was met with interest and demonstrated that agriculture and nature are intertwined and can convey benefits to each other.

There was a key focus provided by the NFF's Australian Agricultural Sustainability Framework, which provides a mechanism to communicate Australian agriculture's sustainability credentials.

For the pork industry, we are supported and underpinned by our own sustainability framework (2021-2023) and monitored

against ongoing reporting metrics.

In June 2024, Australian Pork Limited released the industry's first baseline report, which demonstrates pork's ongoing commitment to sustainability.

With pork contributing only 2 percent of Australia's total agricultural emissions, as an industry we have always steered away from greenwashing and have remained focused on profitability and productivity that underpins our sustainability goals.

Our sustainability framework focuses on pigs, people, planet and prosperity – working together to ensure we remain at the forefront of innovation and that pork remains a low emission protein.

We'll need to continue to demonstrate that agriculture is already part of the solution to biodiversity challenges, driving investment while ensuring the continued productivity of our farms.

continued P2

GLOBAL NATURE POSITIVE SUMMIT
Sydney 2024

The summit aimed to show the government's commitment to the global framework.



ENVIRONMENTAL ENRICHMENT FOR PIGS

- Specifically designed toys for piglets, weaners, sows and finishers
- Made with natural high-quality rubber the toys are pliable, durable and safe for pigs to bite on
- Improve pigs living conditions, reduce aggressive behaviour and stress
- Improve production performance (feed intake, average daily gain, feed conversion ratio)

EASYFIX
DESIGNED TO PERFORM

STOCKYARD
INDUSTRIES
www.stockyardindustries.com

Pork Industry Calendar of Events

2024

NOV 12-15 – EuroTier 2024 – Hanover, Germany. <https://www.eurotier.com/en/>

NOV 20-21 – Pig Research Summit 2024 – Copenhagen, Denmark. <https://pigresearchsummit.com>

2025

JAN 7-9 – Banff Pork Seminar – Banff, Canada. <https://www.banffpork.ca/>

FEB 11-12 – Minnesota Pork Congress – Mankato, USA. <https://www.mnporkcongress.com/>

MAR 12-14 – VIV Asia – Bangkok, Thailand. <https://www.vivasia.nl/>

MAR 24-26 – 2025 National Feral Pig Conference – Gold Coast, QLD. <https://feralpigs.com.au/>

MAR 25-26 – London Swine Conference – London, Ontario. <https://www.londonswineconference.ca/>

JUN 4-5 – World Pork Expo – Des Moines, Iowa, USA. <https://www.worldpork.org/>

NOV 17-19 – APSA Conference – Melbourne, Australia. <https://www.apsa.asn.au/>

How to supply event details:
Send all details to Australian Pork Newspaper, PO Box 162, Wynnum, Qld 4178, call 07 3286 1833 or email ads@collins.media

porknews.com.au
07 3286 1833

SunPork reveals world-first innovation for pork production

from P1
partnership with our suppliers.”

“This is an exciting industry-led advancement, which demonstrates pork producers’ commitment to animal welfare, and we commend SunPork on leading this breakthrough.”

“We’re thrilled to see SunPork bring this innovation to market, and we’d love to see similar solutions used more broadly across the industry in future to improve the lives of all pigs.”

To ensure commercial viability, key criteria for the development of the maternity ring included maintaining the current farrowing footprint, ensuring the safety of employees and achieving a transition cost equal to the replacement cost of current farrowing crates to deliver a compelling solution for all of industry.

SunPork’s scientific research to demonstrate the animal welfare out-

comes of the maternity ring compared to farrowing crates was published in the peer-reviewed journal *Frontiers in Veterinary Science* in August 2024.

It identified key benefits of the maternity ring, including:

- Greater range of movement available to sows
- Improved physical condition of sows
- Higher lactation efficiency of sows
- Reduction in stress-related behaviours in sows
- Lower conflict between piglets
- Patterns of feeding aligned more closely with weaning in the wild
- Improved piglet weight
- Lower use of medication for piglets
- More interaction and bonding between sow and piglets.

As a result of the science-based welfare benefits delivered by SunPork’s maternity ring, RSPCA Australia has

expressed its support for the technology to replace farrowing crates.

SunPork unveiled the maternity ring and the scientific data behind it at a meeting of Australian Pork Limited delegates in mid-October.

Following its own extensive research and development, SunPork is sharing the blueprint and evidence for the maternity rings with the broader pork industry to support improved sow welfare across Australia.

Dr van Barneveld said, “People may be surprised to hear that we’re sharing this design and our know-how with our peers and competitors, but we believe we have an obligation to make this pathway to close confinement-free pork available to the entire industry.”

“For us, animal welfare is a collective pursuit, not a marketing tool.”

“Now that we have found an alternative, the industry needs adequate

time to consider the options and if they choose to change, then adopt the new alternative.”

SunPork has engaged Stockyard Industries in Queensland to manufacture and sell the maternity rings to other pork producers.

It intends to support training and development for those interested in implementing the technology, including through the University of Adelaide Roseworthy piggery, which is operated by SunPork. 🐷



Through the introduction of the new maternity ring, SunPork intends to gradually transition its entire operations to be 100 percent crate and stall-free.



Minister for the Environment and Water Tanya Plibersek said nature-based solutions should be used to achieve both environment and climate goals.

Government nature positive

from P1

The summit had the opportunity to ensure enhanced collaboration between farmers, policymakers and environmental groups to address the role of farming in the protection and repair of our landscapes – work that will benefit not only the planet but the long-term resilience of agriculture itself.

While it’s early days in the development of Australia’s plan, the summit aimed to show the government’s commitment to the global framework.

As stewards of the land and producers of food and fibre, it’s crucial we remain leaders in this space so we don’t get left behind.

It’s important that our industry, along with

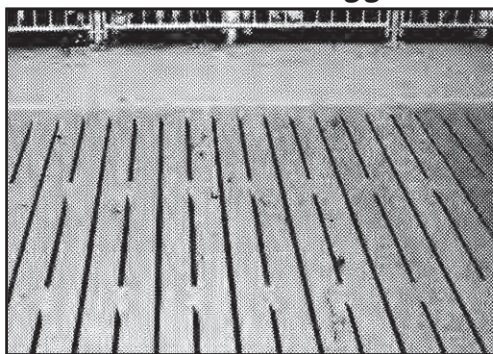
other agricultural sectors, remains in frequent discussions with the government in its vision of ‘nature positive’.

By working together, agriculture and conservation can create a strong future that sustains both Australian farming, nature and livelihoods of many for generations to come. 🐷

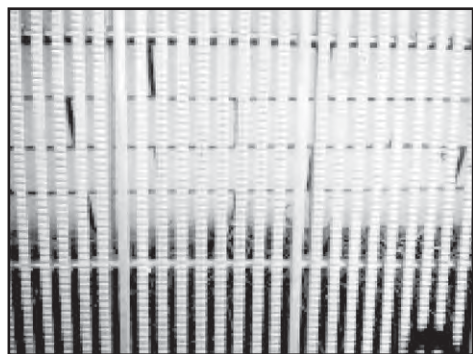
Anti-slip Self Supporting Triangle Hot Dipped Galvanised Flooring



Excellent quality Concrete Slats for Piggeries Galvanised flooring in all sizes up to 2.8m



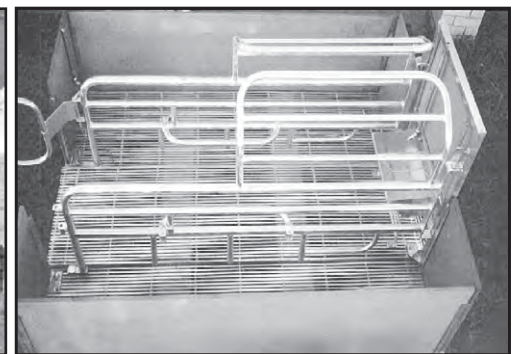
■ Farrowing and weaner crates, growers and baconer pens. ■ Feed hopper with stainless steel trough.



■ Farrowing flooring with a 10mm gap; weaners flooring with a 12mm gap; and growers flooring with a 15mm gap.



Diagonal Farrowing Crate.



Straight Farrowing Crate.

Vereyken Brothers Pty Ltd

Ph (02) 6644 6065
Mobile 0437 431 901 | Email sales@vereyken.com.au
2 Clark Rd, Junction Hill • PO Box 421, Grafton NSW 2460

ALL FLOORING IS MADE TO SIZE AT NO EXTRA COST

Head Office: Vereyken Bros. Pty Ltd
ABN 11 003 543 548

Anytime or (02) 6644 6065
Mobile: 0437 431 901

Victoria: Ben Slots
Freecall: 1800 999 245

Phone: (03) 9462 4266
Mobile: 0418 388 842



MYCOSORB® A+

Leaders in our field.
Proven **results** in yours.



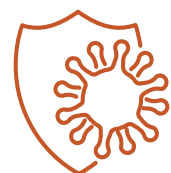
Broad - spectrum
support against
mycotoxins



Optimises animal
performance



Contributes to a healthy
gut environment in the
animal



Supports animal
immunity

Contact your local Alltech Lienert representative today to learn more about Mycosorb® A+ and our full suite of Mycotoxin Management tools.

knowmycotoxins.com

Alltech® LIENERT

AlltechLienert.com.au  AlltechLienert  @Alltech



VETSENSE
ANIMAL HEALTH



PREMI-BOOST+ PIGLET

Vetsense Premi-Boost+ is a specialised nutritional paste designed to support the health and vitality of weak, underweight and premature piglets.

Formulated with a precise blend of essential vitamins, minerals and amino acids, Premi-Boost+ provides comprehensive support for the early development and growth of piglets.

- ✔ Supports growth, development and vitality
- ✔ Boosts energy in weak and underweight newborns
- ✔ Promotes immune function, digestive health and overall wellbeing
- ✔ Aids in the prevention of nutritional deficiencies and supports optimal growth trajectories
- ✔ Easy-to-administer paste formulation ensures accurate dosing and maximum effectiveness.

CONVENIENT DOSING APPLICATOR

Premi-Boost+ 250mL comes with a separate dosing applicator that delivers precisely 2mL per dose. This ensures accurate and convenient administration to newborn, underweight and premature piglets.

The applicator simplifies the dosing process, making it easy for caregivers to provide the necessary nutritional support to young animals.



DOSE RATE **PACK SIZE: 250ML**

ONE PUMP = 2ML

2mL: Newborn, underweight and premature piglets soon after birth.

Repeat the following day if necessary.

For any remaining product, reapply the original bottle cap and store in a cool/dry place for up to 3 months.

Rinse and clean trigger prior to reusing.

SHAKE WELL BEFORE USE

REBECCA JAMIESON - SWINE KEY ACCOUNT MANAGER
0400 392 111

DISTRIBUTED BY:



A screenshot from hidden camera footage taken by activists at the Benalla abattoir. Photos: Farm Transparency Project

Test case could change future of Australia's pig slaughtering practices

A TEST case claiming that pigs suffer unnecessarily could potentially reshape the livestock industry and raise pork prices in Australia.

Animal activists have taken a Victorian abattoir and the meat industry regulator to the Supreme Court of Victoria, challenging the use of "gas chambers" for stunning pigs before slaughter.

If the activists are successful, a ban on carbon dioxide gassing could set a national precedent, prompting a shift to the more expensive electrical stunning method.

The crux of the case lies in whether gassing is a legally acceptable method for stunning pigs, as there are reports of the animals showing signs of distress and pain during the process.

Animals Australia argues that the Benalla-based CA Sinclair abattoir should have its license revoked for failing to minimise the pain and suffering experienced by the pigs it processes.

Currently, about 85 percent of pigs slaughtered in Australia are stunned using carbon dioxide gas in purpose-built chambers, a practice that animal activists and RSPCA Australia have long condemned as distressing and painful.

The RSPCA explained that pigs are placed in a chamber filled with 90 percent carbon dioxide prior to slaughter, which can result in them losing consciousness only after showing signs of pain and distress – including "high-pitched vocalisations."

Footage taken covertly by activists from the Farm Transparency Project at various abattoirs surfaced last year, showing pigs trapped in a metal cage known as a 'gondola' before being lowered into chambers.

The footage, which was aired on the ABC, captures the pigs thrashing around and gasping for breath.

Charles Shaw KC, representing the meat industry regulator PrimeSafe, argued in court that Animals Australia lacked the standing to challenge CA Sinclair's license, suggesting their concerns were merely emotional.

He contended that the Meat Industry Act does not mandate meat processing facilities to consider animal welfare.

"This is after all, your honour, about the killing of animals for food," he told Justice Andrew Keogh.

"It is not only not about animal welfare ... it's antithetical to animal welfare, and I don't shy away from the unpleasantness of that."

Adding that those who consume meat must accept that animals are killed for that end, and it's not a pleasant process.

After footage of a gassing operation aired on the ABC in March last year, PrimeSafe investigated CA Sinclair and another abattoir, Australian Food Group in Laverton.

While Australian Food Group closed, it avoided conviction for animal welfare breaches in the Sunshine Magistrates Court earlier this year, agreeing to pay PrimeSafe's costs of about \$30,000.

RSPCA Victoria animal welfare policy manager Mhairi Roberts said the organisation has longstanding concerns about carbon dioxide stunning, especially in gondolas designed for individual pigs as these animals are intelligent and social creatures.

She added that there needs to be research into alternatives to the gassing system that can be made commercially viable.

"We are very much advocating for both government and industry to invest in that research to find alternatives that are more humane and therefore can be made commercially viable," Ms Roberts said.

Australian Pork Limited chief executive officer Margo Andrae did not address questions about the costs of different stunning methods but insisted that carbon dioxide was the best option for animal welfare.

"We care about our pigs, and as an industry we share the community's concern for the welfare of our animals," Ms Andrae said.

"That's why we adhere to the global best practice of carbon dioxide stunning – currently the most humane and effective method of managing pig welfare during processing."

When asked about the research supporting the industry's claim that carbon dioxide stunning is best practice, a spokesperson for Ms Andrae provided a comparative literature review funded by Australian Pork Limited.

Justice Keogh has reserved his judgment on the case.

If the activists win, it could lead to significant changes in how pigs are stunned in Australia, potentially transforming practices in the livestock industry and impacting pork prices nationwide.



Pigs photographed by an investigator hidden inside the top of the chamber during a stunning operation.

ew | nutrition

mastersorb[®] Gold

For use against mycotoxins (fungal toxins) that affect livestock performance associated with cereal grains and other feed ingredients



Contact
David Sherwood
+61 (420) 966 543
david.sherwood@ew-nutrition.com

Functional Innovations backed by Science
ew-nutrition.com

Wastewater system gets upgrade with new aerator

BEGA Cheese environmental manager for Northern Victoria Sean Trebley was given the task of upgrading the wastewater aeration system at Bega's Strathmerton plant.

The problem

The existing wastewater system consisted of a dissolved air floatation unit, which flowed into an aerated lagoon.

The resulting effluent was stored in two non-aerated lagoons during winter, with irrigation occurring in summer.

Aerators reduce chemical oxygen demand in wastewater as well as odours in the aerated and downstream non-aerated lagoons.

Bega had an ageing system of surface aerators in the aerated lagoon, consisting of two 22kW units and six 8kW units, but generally only one or two of these units were operated at any time.

Over several years the ageing surface aerators had progressively failed.

Repairs involved the deployment of cranes and boats to gain access – an expensive process that resulted in damage to the dam liner.

Eventually it became uneconomical to keep repairing the aerators.

The solution

Bega decided to look for a solution that was safer for operators and easier to maintain.

Mr Trebley contacted Hydro Innovations to discuss the use of the company's bank-mounted Venturi aeration system.

This solution is mounted on the banks of lagoons, using a self-priming pump to draw water from the lagoon.

The unit draws in atmospheric air using the Venturi effect, mixes it with the water being pumped and discharges it back into the lagoon charged with dissolved oxygen.

Mr Trebley and his team liked the idea of bank mounting because it gave operators easy access to equipment for monitoring and repair – making it safer and more cost-effective to maintain.

Bega's only concern was whether the units were as efficient as surface-mounted technologies.

Hydro Innovations was able to provide information indicating that, with the use of the right pump, oxygen transfer efficiency for Venturi aeration units can be as high or higher than 1.86kg O₂/kWh, making them at least as efficient as surface – floating – technologies.

The aerated lagoon contained 45ML of effluent, with in-flows from 80-120ML per year.

This required a 150mm Venturi aeration unit, which was paired with a Gorman-Rupp V6A60-B self-priming pump, giving a hydraulic efficiency of 70 percent.

The result

Since installation, operators have observed a continued increase in the dissolved oxygen level and have seen COD fall by 50 percent – even though the higher level of mixing was re-suspending settled solids, which became more bioavailable to colony-forming units.

Mr Trebley and the Bega Cheese crew are happy with the ever-increasing levels of dissolved oxygen, the reduction in COD and their odour-free lagoon.

The wastewater and maintenance teams are also pleased that monitoring and maintenance can be done safely, without the use of cranes, boats or winches.

For more information, contact Hydro Innovations on (02) 9898 1800 or hydroinnovations.com.au



The lagoon two weeks after the installation of the Venturi Aerator. Ripples from the aerator that radiate to all parts of the lagoon ensure a good level of mixing.

www.porknews.com.au

AMIC CEO Patrick Hutchinson steps down

THE Australian Meat Industry Council announced recently that its chief executive officer Patrick Hutchinson will step down from his role, effective November 1, 2024.

Since July 2017, Patrick has led AMIC through a period of significant change, playing a key role in advancing the organisation's strategic plan focused on advocacy, member support, industry growth and sustainability.

AMIC chair Tom Maguire said, "Patrick has been instrumental in developing our first ever strategic plan, then driving our strategic vision forward."

"Under his leadership, AMIC has evolved re-

markably in the areas of advocacy, industry leadership, events and services, ensuring our members are equipped to face industry challenges and capitalise on new opportunities.

"On behalf of our members, Patrick's advocacy efforts have significantly lifted the profile of our industry at all levels of government," Mr Maguire said.

"His strong relationships have directly contributed to market access improvements, such as lifting export suspensions in China, and set new standards in animal welfare practices.

"He defended all our members, especially retail members, during

the COVID pandemic at both a federal and state level.

"He revitalised our smallgoods membership program, culminating in strong advocacy outcomes as well as the Australian Charcuterie Excellence Awards."

Adding that Mr Hutchinson's work directly contributed to AMIC's mission to increase the profitability and viability of its members, influence policy and guide the industry toward a sustainable future.

"Patrick's leadership has positioned AMIC as a robust voice both domestically and internationally," Mr Maguire said.

"His impact on our industry will be felt for years to come, and we are grateful for his tireless work and commitment to our industry over such a long time."

Reflecting on his time at AMIC, Mr Hutchinson said, "I am incredibly proud of what we have achieved together across all sectors of the meat industry."

"Despite the many challenges we faced, we have emerged stronger and more united.

"I look forward to seeing AMIC continue its upward journey and know that the organisation is in a great position for future success."

Mr Maguire said, "As we move into a new chapter, AMIC remains

committed to building on the solid foundation that Patrick has helped to establish."

"Our focus now is on finding the right leader to continue driving the organisation forward, championing the interests of all our members and steer the industry toward a profitable, sustainable future."



AMIC CEO Patrick Hutchinson will step down from his role effective November 1, 2024.

RUGGED & RELIABLE WASTEWATER PUMPS

Designed, cast, machined, assembled & tested in the USA



- Self-priming pumps are mounted above ground for easy access and maintenance
- Designed to minimise blockages
- Pumps rags and stringy materials with 'eradicator' technology
- Does not require multiple personnel to maintain.

HYDRO
INNOVATIONS



G·R
GORMAN-RUPP
PUMPS

(02) 9898 1800

sales@HydroInnovations.com.au
www.HydroInnovations.com.au



Pigs give us so much. Surely, as ultimately they serve us so well, we should return the favour and serve pigs well while they're growing with us.



Not hard to spot! Happy pigs on pasture. Lives well lived should then lead to a good end of life, thus completing a positive cycle of life.

Penning wise welfare words

WITH my long-held view and advocacy of room for improvement in how Australian pigs are 'housed' and handled, I was recently drawn to this blog headline on RSPCA's website, 'Why the confinement of pigs needs addressing urgently'.

My premise has long been those pigs, those intelligent sentient animals that give us so much while expecting so little in return, should be able to live lives free of unnecessary confinement where they are able to practice natural behaviours.

Such natural and vital behaviours include foraging, rooting, wallowing, nest building and socialising.

Surely it's fair and reasonable to expect pork producers and the consuming public to honour



Cant
Comment
by BRENDON CANT

and respect such simple life drivers, even if that means – as it typically does – increased costs at production and the checkout.

So, let's take a peek inside at what the RSPCA 'penned' on the subject...

It's a pressing animal welfare issue in Australian farming.

Every day across Australia, more than two million young pigs are raised for meat in barren indoor farming systems, while their parents – the breeding herd – endure extended periods of extreme confinement in farrowing crates, mating stalls or boar stalls.

Pigs are social and intelligent animals with distinct personalities, they love to forage and explore and thrive in an enriched environment.

When farmed in restrictive systems, they're given little space or opportunity to perform natural behaviours that are essential to their wellbeing.

In conventional farming systems, adult female pigs (gilts and sows) used for breeding are commonly kept in groups but placed in farrowing crates (to give birth) and mating stalls (for artificial insemination), while adult male pigs (boars) may be housed permanently in individual boar stalls.

These crates and stalls severely limit the pig's ability to move freely and engage in natural behaviours.

With barely enough room to take more than one step forward or backwards and unable to turn around, housing pigs in crates or stalls deprives them of the opportunity for positive experiences, resulting in boredom, frustration, aggression and distress.

Most sows, boars and growers (pigs grown for meat) in intensive farming systems are

housed indoors on concrete slatted floors, with no bedding or enrichment.

Pigs are incredibly curious and having a variety of enrichment is vital for their mental wellbeing.

When deprived of opportunities for mental stimulation and positive social interaction, they will easily become bored, frustrated and even aggressive towards other pigs.

With the widespread understanding of pigs' intelligence and emotional capacity, more must be done to improve the conditions in which pigs are farmed, and both growing pigs and breeding pigs should be given the space and opportunity to perform highly motivated natural behaviours.

While sow stalls to house pregnant sows have now largely been phased out voluntarily by the pig industry – though their use has not been completely eradicated, around 88 percent of industry is free of sow stalls – farrowing crates are still widely used.

Farrowing crates, referred to by the pig industry as a 'piglet protection pen', are metal-barred crates roughly 2m long and similar in size to a sow stall except narrower.

The farrowing crate has an area around it for piglets to move away and avoid accidentally being crushed by their mother – this is a genuine risk but one that can be mitigated without needing to confine sows.

While confined to the farrowing crate, a sow can stand up, take a step or lie down on the slatted floors, but she is unable to turn around or do little else.

It is essentially a sow stall by another name.

In a conventional farming system, a pregnant sow will be moved

into the farrowing crate roughly one week before she's due to give birth and stay there until her piglets are weaned, at about four weeks of age.

She will spend this time unable to carry out innate foraging and nesting behaviours such as nest seeking and nest building, and unable to properly interact and bond with her piglets.

Sows confined to farrowing crates risk injuries due to extended lying on hard surfaces or difficulty changing positions within the crate.

They have trouble resting properly and regulating their body temperature due to movement restriction.

The inability to carry out natural behaviours, including exploratory and maternal behaviours, leads to frustration and sows will often develop abnormal behaviours to cope, such as stereotypic sham chewing or bar biting.

Once her piglets are weaned, a sow may then be moved into a mating stall (similar to a sow stall) to be artificially inseminated and will be kept there for up to five days before being returned to a group pen or shed with other sows.

The breeding cycle of pig farming means sows will spend extended periods of their lives confined behind the bars of a farrowing crate.

Author's note – while I acknowledge that factory farming of pigs arguably manages to lower production costs, versus costs involved in more welfare-friendly systems, I would argue that with growing public awareness of some of the poor practices and unacceptable welfare outcomes generated by intensive systems, bigger numbers of consumers will inevitably draw down on more of their hard-earned dollars to make animal-welfare-positive checkout choices.

In a business world driven undeniably and understandably by supply and demand, the big factory farmers – especially those vertically integrated – will keep choosing to ignore public sentiment until it red lines on their balance sheets.



A window into a confined sow's life – artistically enriched in this case, but in reality, devoid of merit.

Rodenticide solutions for every situation...

Selontra® Soft Bait
Rodenticide

- Selontra® Soft Bait will deliver outstanding control even under high pest pressure while protecting non-target animals wherever they might be at risk.

Storm® Secure
Rodenticide

Storm® Soft Bait
Rodenticide

- Storm® Secure remains as cost-effective, durable and dependable as ever and Storm® Soft Bait offers the same potency with a new level of palatability.

Distributed by

www.ccdanimalhealth.com.au

For more information, visit pest-control.basf.com.au or contact **CCD Animal Health** on 1300 791 009 ccdsales@ccdanimalhealth.com.au

BASF
We create chemistry

ALWAYS READ AND FOLLOW LABEL DIRECTIONS.
© Copyright BASF 2023 © Registered trademark of BASF. 213735 04 2023



PigFlow™
Swine Management: Simplified

MAXIMISE EFFICIENCY, MINIMISE LABOUR AND MORTALITIES

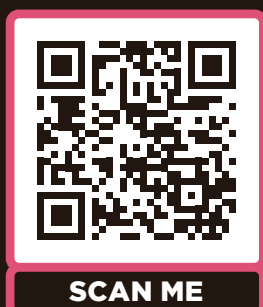
- 1 STREAMLINE WORKFORCE EFFICIENCIES**
- 2 EMPOWER EMPLOYEE ENGAGEMENT**
- 3 ENSURE HIGH-QUALITY PIG CARE**

**HELPING TEAMS SOLVE PROBLEMS, GROW TOGETHER,
AND ACHIEVE THEIR FULL POTENTIAL**

WWW.SWINETECHNOLOGIES.COM



For further information contact:
Shaun Welsh 0400 672 418 or
Haylee Clifford 0456 498 120
Distributed by Apiam Animal Health



AUSSIE GMP

6" PUMP... BARGAIN PRICE



- Self-prime from 6m
- Semi trash with front clean-out port
- Flows to 4,000 lpm
- 15kW 4 pole motor
- Italian made
- ISO 9001 quality
- 3 year pump warranty
- List price \$20,392^{+GST}

\$9980^{+GST}
 FACTORY SUBSIDISED
 Until 30/12/24

Your Effluent Solution

Australian Pump Industries
 02 8865 3500
www.aussiepumps.com.au



SmartSwine 2024 conference attendees enjoying dinner at The Raft restaurant on the Swan River.

SmartSwine 2024 Conference

THE SmartSwine 2024 Conference, hosted in October by Apiam Animal Health in Perth, attracted over 85 producers and industry sponsors for two days of cutting-edge discussions on technology transforming the swine industry.

This year's event focused on the latest advancements revolutionising swine veterinary care, including AI-powered disease diagnostics, workflow solutions for pig farms and a new product designed to enhance reproductive performance.

Attendees were given a first-hand look at innovations driving efficiency and productivity in pork production.

Keynote speaker Dykhuis Farms director of production Fred Kuhr shared his expertise on integrating advanced technology into large-scale operations.

Apiam business manager for swine and poultry services Shaun Welsh demonstrated how PigFlow technology was being effectively implemented on Australian farms.

Producers shared their own success stories, offering valuable insights into how this technology has improved their operations.

Apiam research and development manager Dr Hugo Dunlop provided a highly anticipated update on the company's research trials, including the soon-to-be-released Japanese encephalitis vaccine.

This vaccine is expected to be available ahead of summer, helping to protect swine populations during high-risk periods.

Emerging technology also took centre stage

as Dr Mackenzie Congreve, a new addition to Apiam's veterinary team in Western Australia, introduced RealWear VR headset technology.

She explained how its easy-to-follow workflows were being used to diagnose diseases on site, streamlining processes for piggery staff.

Swine consulting veterinarian Dr Mark Eastaugh delivered a thought-provoking presentation on the cost-benefit analysis of adopting these new technologies, emphasising the potential for increased productivity and efficiency on pig farms.

Portec swine and poultry services veterinarian Dr Kim Nairn, along with Dr Jonathan Van Dissel from Apiam, highlighted the importance of upskilling young talent to address workforce shortages.

They also discussed how novel disease outbreaks are being used as opportunities for professional development.

ACE Laboratory Services provided insight into its diagnostic facilities, including their role in bringing new vaccines to market and the importance of microbiology in advancing One Health

objectives to improve swine health.

AusVet epidemiologist Ben Madin introduced the concept of compartmentalisation, explaining how it could help the pork industry maintain operations in the event of an emergency animal disease outbreak.

The conference concluded with an engaging industry panel addressing the current challenges facing Australian pork producers.

Panellists discussed how the adoption of technology was crucial to overcoming the threats and obstacles the industry faces in the years ahead.

In true SmartSwine style, the event wrapped up with a lively axe-throwing competition, followed by a dinner cruise on the Swan River at The Raft restaurant, where live music kept the mood festive into the night.

Apiam Animal Health extended its gratitude to gold sponsor Boehringer Ingelheim, as well as bronze sponsors Zoetis, MSD Animal Health, CCD Animal Health and AusPac for their support in making the conference a success.

GRAIN MILLING SPECIALIST



Discmill, mixer, augers, bucket elevator, jet filter, mineral hopper

GRAIN MILLING DOESN'T HAVE TO BE A LABOUR INTENSIVE JOB!

SKIGLD & Vacuum Milling Solutions specialise in the design, sales and installation of quality grain milling equipment.

We supply the latest in grain milling and augering equipment. Australian made and from around the world. We cover all of Australia and also the Pacific Islands. With 15 years' experience in the farming industry, we pride ourselves on quality equipment, installations and undertake a commitment to ensure customer satisfaction.

GRAIN MILLING AND AUGERING EQUIPMENT SPECIALISTS
DESIGN, SALES AND INSTALLATION
CALL US TODAY TO HEAR WHAT WE CAN DO FOR YOU!



CONTACT:
 Phone: 0755 477 588
sales@vacmillsolutions.com.au



SKIGLD & Vacuum Milling Solutions • Jimboomba Qld • www.vacmillsolutions.com.au



The SmartSwine 2024 conference highlighted new technologies revolutionising pork production.



An engaging industry panel consisted of Dr Kate Savage from Portec, Fred Kuhr from Dykhuis Farms, Tim Kingma from KEPiggery and Gunpork Joint Venture, Monique Hill from Bailey Creek Piggeries and Bjorn Ludvigsen from BE Campbell.

Natural mycotoxin protection with enhanced feed conversion rates, health and growth for pigs

MAINTAINING the health and productivity of pigs can be challenging, particularly when dealing with contaminants in feed.

Optimate, a 100 percent natural feed additive, provides an effective solution for protecting animals from mycotoxins, enhancing overall feed performance without relying on synthetic additives.

In addition to this, you'll see vast improvements in your feed conversion rates, reduced scours, improvement in your nutritional uptake and overall health and mortality benefits, and it's certified organic.

What is Optimate?

Optimate is a natural toxin binder made from zeolite and is used to reduce the harmful effects of mycotoxins in the feed of cattle, pigs, goats, sheep and poultry.

Mycotoxins, particularly aflatoxins, can negatively impact animal health and reduce productivity.

Optimate is registered with Agricultural Compounds and Veterinary Medicines (registration number A11800) and has been scientifically reviewed to ensure its efficacy across various animal species.



Optimate is BioGro certified, making it suitable for organic farming systems.

Benefits of Optimate

Toxin binding for enhanced health

Pigs are particularly vulnerable to feed contaminants such as mycotoxins, which can cause growth reduction, digestive issues and even immunosuppression.

Optimate binds these toxins, preventing them from being absorbed into the bloodstream and reducing their harmful effects.

By neutralising aflatoxins and other contaminants, this product promotes healthier animals and improves feed safety.

One hundred percent natural and safe

Optimate is entirely natural and free from antibiotics, making it a safe choice for both young and adult pigs.

This product works as a complementary addition to a well-balanced diet and is not a re-

placement for other feed components such as energy or therapeutics.

Improved feed efficiency

Optimate helps animals utilise nutrients more effectively.

Healthier digestive systems lead to better growth rates, productivity and improved FCRs, which is particularly important in high-performance pig farming.

Reduced scours

The zeolite in Optimate not only assists the animal to best utilise feed and nutrients but will produce drier faeces and less scours for better bedding health and moisture control.

It also contributes to the reduction of ammonia emissions from manure, improving the overall environmental conditions for young livestock.

Suitable for organic farming

Optimate is a BioGro-certified input, making it a reliable option for

maintaining the health of livestock in systems where synthetic additives are not allowed.

Optimate will cost-effectively improve your FCRs and animal weight gain through improved health, better feed utilisation and drier faeces.

The net result is that you'll bring pigs to market quicker or with better weight for less cost because your feed rate will decrease, utilisation will increase and overall animal and housing health will improve.

How to use optimate

Include Optimate at an inclusion rate of 1-2.5 percent of the daily dry matter feed intake.

Typically, one 25kg bag of Optimate is recommended per tonne of supplementary feed.

It can be fed through various methods, including in feed troughs, in-shed feed systems or via mixer wagons.

Use alongside Zorbi-Fresh bedding additive for maximum on-farm results.

ZorbiFresh binds ammonia, dries litter and decreases shavings cost and usage.

For more information, call Paul on 0400 006 065 or email paul.buffey@bpmnz.co.nz

More energetic, lively Piglets!

Piglet Saver

Unique formulation supporting weak and small born piglets.

- ✓ DECREASE MORTALITY
- ✓ INCREASED IMMUNITY
- ✓ BETTER GROWTH

Increase IGF-1 levels in weak and small born piglets
1ml dose at birth followed by a second dose at 12hrs.
1ml dosage pump available.

Go to www.quadrantsolutions.com.au for more information
Call Lydia: 0458 622 297 or Steve: 0429500529

TITAN FANS AUSTRALIA

MADE IN AUSTRALIA FOR AUSTRALIAN CONDITIONS SINCE 1990
Ph: 08 8359 1588 E: sales@titanfan.com.au

Stir Fan

FH800/0.37kw/4 blade/1ph/3ph EC (variable speed 200 rpm – 1000 rpm)

NEW

ORIGINAL Stir Fan available ON/OFF 1ph/3ph
LOCALLY manufactured at Titan's factory 12-14 Kenworth Rd, Gepps Cross, South Australia 5094

Agriculture

CLEVER by NATURE

Optimate™

THE ORIGINAL - MYCOTOXIN BINDER

A registered toxin binder that offers year-round natural, mycotoxin support for poultry, pigs, cattle, goats and sheep.

100% NATURAL

TOXIN BINDER

NO ANTIBIOTICS

SCIENTIFICALLY REVIEWED

AVAILABLE 25KG | BULK

• 100% natural, made in New Zealand

• Safe for use in all young & adult animals

• BioGro certified input for organics

To organise samples or a quote, call Paul on 0400 006 065 or email paul.buffey@bpmnz.co.nz

SCAN HERE FOR MORE PRODUCT INFORMATION

THREATS ADAPT...



...SO SHOULD
YOUR
PROTECTION

THE ONLY
vaccines with
**TWO PCV2
GENOTYPES**
protecting against
**PCV2a, PCV2b
& PCV2d***



Fostera
Gold PCV MetaStim

Fostera
Gold PCV MH
BROADER COVERAGE FOR LONGER*

UNIQUE FORMULATION | SINGLE OR SPLIT DOSE

*To reduce lung lesions
Fostera Gold PCV MH contains inactivated recombinant chimeric porcine circovirus type 1 containing the porcine circovirus type 2a open reading frame 2 (ORF2) protein, inactivated recombinant chimeric porcine circovirus type 1 containing the porcine circovirus type 2b (ORF2) protein and inactivated Mycoplasma hyopneumoniae strain.

Zoetis Australia Pty Ltd. ABN 94 156 476 425. Level 6, 5 Rider Boulevard, Rhodes NSW 2138.
© 2024 Zoetis Inc. All rights reserved. ZL1955B

zoetis

Major review of industry's QA program

THE Australian Pork Industry Quality Assurance Program certification policies require a major review to be conducted every fourth year.

This involves a review of standards, policies and documentation.

It plays an important role in ensuring the APIQ Program's overall integrity, credibility and preparedness and ensures the program continues to meet the needs of the pork supply chain.

The 2024-25 major review kicked off in July and is expected to be completed in June 2025.

The scope of the 2024-25 major review is:

- Review of the 'free-range' definition and associated standards
- Review the JASANZ formula, (which applies to sites holding joint APIQ certification)
- Incorporation of the work completed in the 2023 APIQ minor review, focused on removing duplication and enhancing the clarity of the existing standards
- A review and update

of the full certification policies document

- A review of APIQ's scope (regarding standards and modules)

- Review of the APIQ fee review process and exploration of options to ensure APIQ remains affordable for producers

- An update of the compliance guide to promote consistency of audits and to enhance producer and auditor understanding of the standards, their intended outcome and how to demonstrate compliance

- A review and update of APIQ resources and templates to support the APIQ Program and its stakeholders, be that on farm, during audits and/or as part of APIQ management and APIQ panel responsibilities.

The major review aims to engage with stakeholders across the pork supply chain and invites stakeholders to provide feedback or otherwise be involved in the review process.

This includes but is not limited to pig producers, retailers, processors, veterinarians,

transporters, government staff, environmental consultants and auditors.

Over the past few months, APIQ management has been reaching out to producers and stakeholders to provide feedback regarding the APIQ program.

We have released surveys that will be closing at the end of November to give the APIQ management team time to collate the feedback and start incorporating it into the standards and resources.

We will then be presenting the proposed changes to industry for feedback in face-to-face workshops in February and March 2025.

Current plans are for one face-to-face workshop in each state, as well as online options to ensure all stakeholders have the opportunity to be involved.

Details of these workshops will be released in the near future.

Continue to send in your feedback and, if you have not had the opportunity to respond to the surveys and you

would like to, the links are:

- Survey for producers – surveymonkey.com/r/HMWQZVD

- Survey for non-producers – surveymonkey.com/r/HMFVGF3

If you would like to provide feedback outside of or in addition to the surveys, we also invite you to contact the APIQ team at apiq@australianpork.com.au or contact your producer relations team member.

Australian Pork Limited



Scan for the survey for producers.



Scan for the survey for non-producers.

Stainless-steel 4" pump breakthrough

AUSSIE Pumps, Australia's most innovative pump manufacturer, is proud to announce the upcoming launch of its new 4" 316 stainless-steel motor pump.

Due to be released early next year, the new pump is ideal for both corrosive and abrasive wastewater applications.

In addition to being a breakthrough in terms of its resilience, longevity and price.

Aussie Pumps chief engineer John Hales said, "The big news is that we've been able to drop the price of these pumps, as our volumes of cast stainless-steel components from the foundry build."

"These pumps are cast in Europe under an ISO 9001 quality system and that means they are certified by the factory before heading our way," Mr Hales said.

The new 4" pump is close coupled to a heavy-duty 15kW three phase IP55 rated motor.

It is capable of producing flows to 2120LPM and heads to 29m.

Its self-priming design means it can draw water with a vertical lift of 6m.

Inside, the pump features a cast 316 stainless-steel open vane impeller and large internal passages that enable compressible spherical solids up to 32mm in size to pass through the pump body.

The pump features carbon mechanical seals with nitrile rubber seals, however Viton seals are also an option for corrosive applications.

"We're seeing a renaissance in self-priming pumps, over long-column sump pumps, as farmers realise the benefits that surface-mounted pumps bring," Mr Hales said.

Aussie Pumps has set out to replace long-column sump pumps and submersibles with convenient self-priming pumps.

They've been particularly successful in livestock wastewater applications.

Unlike long-column sump pumps, surface-mounted self-priming pumps can easily be checked during routine maintenance, and they are clean and simple to service.

"What we've found is that farmers like being able to service the pump without having

to pull it out of the pit," Mr Hales said.

Aussie GMP stainless-steel motor pumps are already available ex stock in the 2" and 3" configurations, with flows to up to 1300LPM.

"These stainless-steel pumps are excellent value for money and will outlast cast iron equivalents many times over," Mr Hales said.

The company is also working on a high-head

version of the 3" pump, model G3TMK-A/X powered by an 11kW motor, that will produce heads to 55m.

This is likely to be released later next year.

Further information on Aussie GMP stainless-steel pumps is available from Aussie Pumps Industrial Division, located at Norwest on 02 8865 3500, or check the website, aussiepumps.com.au



Operations manager Mal Patel checked out the 316 stainless-steel pump end that will be used on the new 4" B4XR-A/X motor pump to be launched next year.

'NEW' EVO CLEANER WASHING ROBOT

- ✓ Save on labour costs
- ✓ Battery operated - no 240V lead required
- ✓ Specifically designed for pig farms
- ✓ Programmed unique washing routines to free up time
- ✓ Flexible and reliable wash for every pen, no manual adjustments
- ✓ Create a bio-secure and healthy work environment
- ✓ Over 1000 units sold worldwide

EVO Cleaner is a unique washing robot developed for pig pens.

The robot streamlines and enables automated shed washing, completely designed according to your specific shed interior and washing needs.

Washing routines are programmed once and can be easily modified to match the conditions. EVO Cleaner is a time, cost and water efficient choice designed for tough working environments.

Contact us for further information
www.stockyardindustries.com





NATIONAL FERAL PIG CONFERENCE 2025
 24-26 March | Mantra on View, Surfers Paradise
 feralpigs.com.au/national-feral-pig-conference-2025

National Feral Pig Conference 2025

EARLY bird registrations and abstract submissions are now open for the National Feral Pig Conference 2025, being held at the Mantra on View, Surfers Paradise, Queensland on March 24-26, 2025.

Presentations will address the conference session themes of:

- Effective regional coordination and collaboration
- Harnessing people power

- Risk mitigation, decision making and continuous improvement
- Keeping up with change

Presentation types available:

- 10-minute full-length presentations
- 5-minute speed talks
- Poster

Abstract submissions are now open:

- Presentation title – maximum 30 words
- Abstract length –

maximum 400 words (no more than 1 page)

- Author biography – maximum 100 words.

Important dates for the diary:

- Abstract submission closes November 22, 2024
- Notification to authors of abstract status, December 13, 2024
- Early bird registration, October 1 – December 20, 2024
- Regular registra-

tion, December 21, 2024 – March 7, 2025

- Late registration, from March 8, 2025.

Visit feralpigs.com.au/national-feral-pig-conference-2025 or scan the QR code for more information.



RSPCA Australia welcomes innovative maternity ring to benefit sows and piglets

RSPCA Australia commends SunPork, with the recent announcement that it was moving away from the traditional farrowing crate and introducing its innovative ‘maternity ring’ – giving sows more freedom of movement.

This Australian industry-led approach represents a big leap forward to addressing the extreme confinement of sows in farrowing crates, which are barely bigger than the sow itself and commonly used across pig breeding farms in Australia.

The maternity ring enables the sow to move around, express highly

motivated nesting behaviours and interact with her piglets and other sows.

RSPCA Australia senior scientific officer farm animals Melina Tensen said the RSPCA had seen the maternity rings in practice, reviewed the available research and believed they would result in meaningful benefits for the welfare of the sow and her piglets.

“Traditional farrowing crates confine the sow from just before giving birth to when her piglets are weaned, denying her any ability to carry out innate nesting and maternal behaviours,” Ms Tensen said.

“Sows confined to crates also risk injuries due to extended lying on hard surfaces and by the difficulty in changing positions within the crate.

“They have trouble resting properly and regulating their body temperature due to movement restriction.

“We commend SunPork’s work over many years that has now resulted in a viable alternative to the farrowing crate.

“For pig producers, now is the time for an industry-wide transition to abandon all forms of extreme confinement of pigs – no more stalls and no more crates.”



SunPork’s innovation represents a big leap forward in addressing the extreme confinement of sows in farrowing crates. Photo: RSPCA Australia

Together, Let’s Prove the Power of Partnership.

Something powerful happens when shared expertise, care and nutritional performance come together. Suddenly, obstacles feel more like growth opportunities. That is the transformational power of partnership.

Zinpro® Availa® Sow helps build more productive sows and gilts with improved reproduction, better efficiency and increased longevity. It has also been shown to reduce lameness and has a positive impact on the cost of production. Experience the power of partnering with Zinpro®.



Distributed in Australia by:



03 5429 2411
www.feedworks.com.au



APL introduces general manager R&I

AUSTRALIAN Pork Limited recently welcomed Dr Rebecca Morrison as its General Manager of Research and Innovation.

Rebecca brings over 25 years’ experience in pig research and innovation in the Australian and US pig industries – conducting research and leading teams to deliver impactful research and new products.

Rebecca holds technical expertise in animal welfare and behaviour, reproduction, nutrition, health,

genetics, meat science and new product development.

Rebecca provides the Australian pig industry with opportunities for future enhancement in animal welfare by utilising her internationally recognised animal welfare expertise.

Rebecca is actively involved in the Australian pork industry and was previously an APL delegate, a member of the APL Animal Welfare Reference Group and a director of APRIL.

Rebecca is committed to ensuring sustainability and profitability

of Australasian pork production and exhibits an unwavering passion for the pigs and the people that care for them.



Dr Rebecca Morrison, APL’s General Manager of Research and Innovation.

- Animal Shelters
- Feeders
- Silos
- Farm Buildings



08 8531 2700

sales@jacksonsaustralia.com

jacksonsaustralia.com.au

TURN AN INVISIBLE ENEMY INTO A VISIBLE PROFIT

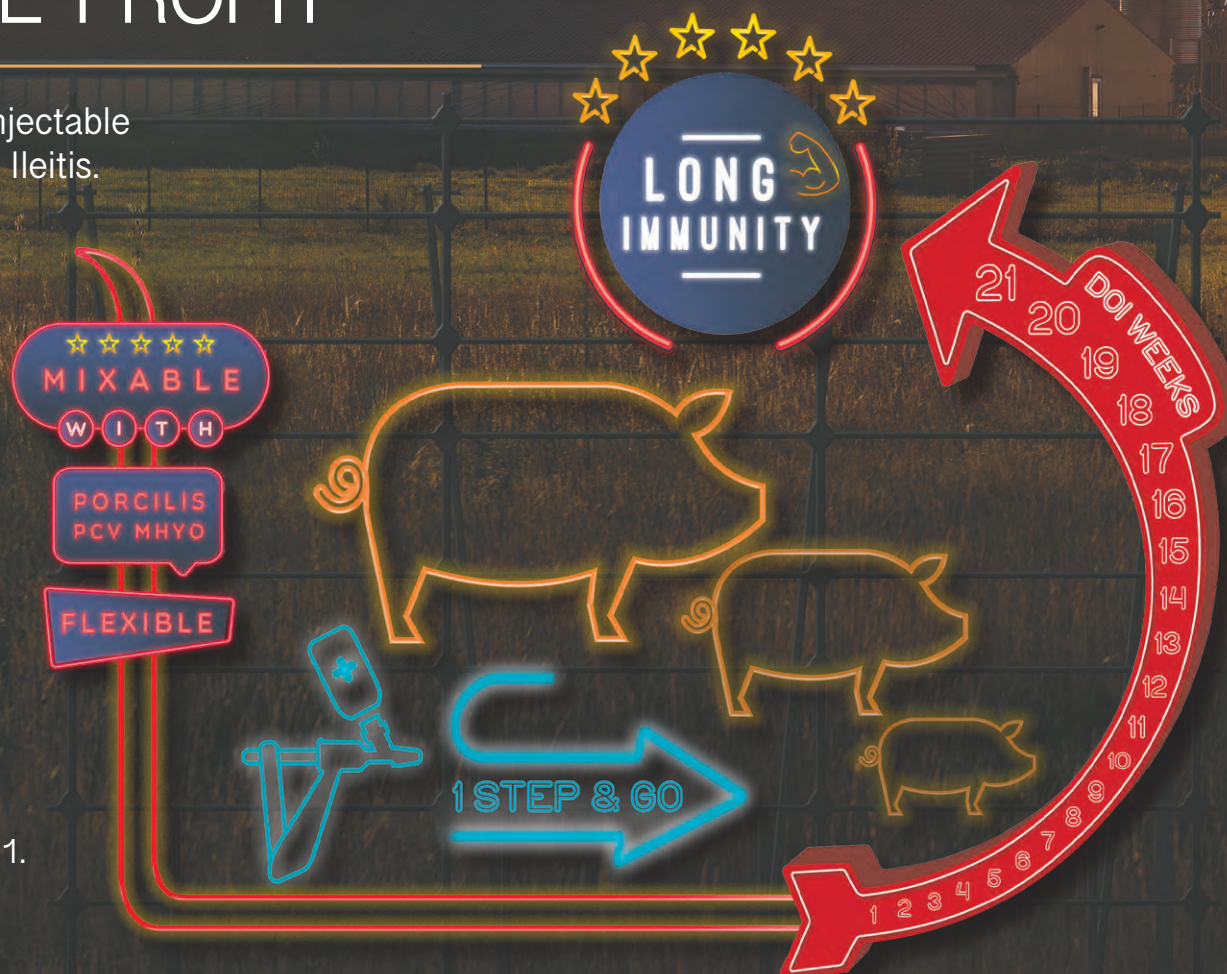


Porcilis Lawsonia is the first injectable vaccine in Australia to control Ileitis.

PROVEN TO:

- REDUCE LOSS OF AVERAGE DAILY WEIGHT
- REDUCE MORTALITY
- REDUCE BACTERIAL SHEDDING
- REDUCE DIARRHOEA AND INTESTINAL LESIONS.

For further information, call Customer Service on 1800 033 461.



®Registered trademarks. Intervet Australian Pty Ltd (trading as MSD Animal Health). ABN: 79008467034. Copyright © 2024 Merck & Co., Inc., Rahway, NJ, USA and its affiliates. All rights reserved.

BEC



NUTRITION SOLUTIONS TO ENHANCE PERFORMANCE

BEC Feed Solutions

offers an **unparalleled range of animal nutrition solutions**, designed, sourced and blended to support our customer's needs.

We manufacture and supply **nutritional premixes, feed ingredients, additives and stock feed commodities**, as well as providing our customers with technical support.

Phone 1300 884 593
or visit
www.becfeed.com



Coles makes Christmas easy and affordable

COLES has unveiled this year's festive range, including more than 400 Own Brand products and exclusive specialty drinks that are promoted as being easy, affordable and bursting with flavour.

A recent survey of 8000 Coles' customers found of those celebrating Christmas, 23 percent are planning to cook and entertain even more at home this year compared to previous years.

Coles chief executive officer Leah Weckert said Coles was focused on delivering an easy-to-prepare and delicious festive range for every kind of occasion.

"We understand that this year has been challenging for many Aussie families and we want to make sure our festive range is not only truly delicious but also easy to prepare and affordable, so our customers can focus on what matters most – creating special moments with family and friends," Ms Weckert said.

"Our team of development chefs, producers and suppliers have worked tirelessly to bring together a range of 89 new Coles Own Brand products, sourced from our suppliers both here in Australia and globally, to add a touch of magic to Christmas ta-

bles across the country."

Food highlights

Coles ambassador and Michelin-starred chef Curtis Stone said this year's festive range has a delicious assortment of favourites, with options to suit every celebration.

"I've always believed the best dishes start with the finest and freshest ingredients, and this year's Coles Christmas range is no exception."

"Coles has gone to great lengths this year to take the guesswork out of the Christmas menu, to make sure everyone can plate up a delicious and affordable meal," he said.

"For my family and me, an Aussie Christmas is all about fresh prawns, succulent hams and delicious light desserts that are perfect for summer.

"I personally love creating my festive menu from the abundance of fresh and in-season produce on offer, but if you need a little help, there are some great options available that don't always need my recipes."

Entertaining and canape options include Reindeer Bao Buns and Coles Finest Triple-Smoked Ham and Three Cheese Croquettes.

For mains, highlights include two new ham options... a showstopping Rib Rack Crackling Pork Roast with rich mountain ash smoke – sweet pork flavour and delicious crackling in every portion – and a single smoked ham with maple-mustard glaze and nectarine compote.

There's also the Coles Finest Free-Range

RSPCA Turkey Roast wrapped in streaky bacon with a fruity stuffing.

For a plant-based option, there's the Nature's Kitchen Vegetable Wellington filled with mushroom, water chestnut and a medley of vegetables encased in a crispy hand-crafted pastry casing.

To finish, dessert highlights include the Luxury Sicilian Lemon Sponge Pudding with zesty lemon sauce, topped with a sprinkle of freeze-dried raspberries.

Another option is the Coles Finest Christmas Fruit Mince Pie Flavoured Milk Chocolate Block, crafted by expert Belgian chocolatiers, with flavours of candied orange and festive spices.

Retail World



Coles chief executive officer Leah Weckert and Coles ambassador and Michelin-starred chef Curtis Stone.

SOLID-LIQUID SEPARATION SYSTEMS

Agricultural and Industrial



DISTRIBUTORS OF

- Submersible pumps
- Slurry mixers
- PTO Slurry pumps
- Bedding recovery units
- Bio-Gas equipment



Australian Distributor for FAN

Phone: (08) 87382021
Email: edan-awe@bigpond.com

DESIGNING SEPARATION SYSTEMS FOR OVER 20 YEARS



Australian Pork Limited CEO Margo Andrae with Leah Weckert – celebrating the launch of Coles 2024 Christmas range, which includes two new ham options.

When you demand performance, turn to the product you trust

More than 10 years of experience with more data than any comparable vaccine

Your trusted partner

Ingelvac Circo FLEX®



Boehringer Ingelheim Animal Health Australia Pty. Ltd. Level 1, 78 Waterloo Road, North Ryde NSW 2113. ABN 53 071 187 285.
*Ingelvac CircoFLEX is a registered trademark of Boehringer Ingelheim Vetmedica GmbH. All rights reserved. AU-POR-0029-2021





metecno^{panel}[®]

High Performance Insulated Walling

External Layer

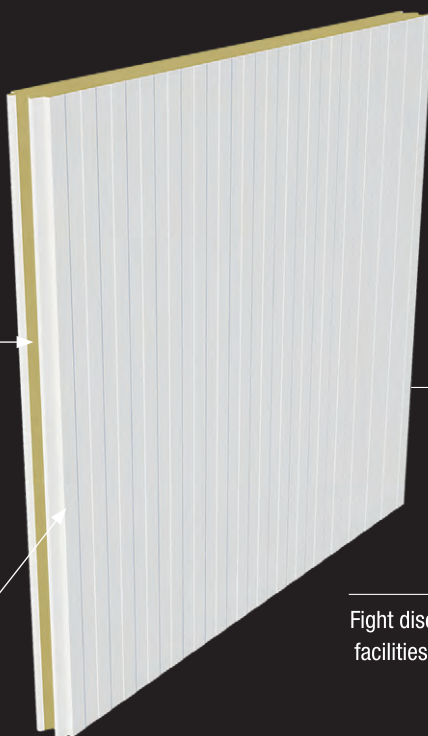
Available in thermally efficient and modern colours
 Australian made and proven COLORBOND[®] steel
 Spans up to 25 metres maximum

Insulation Core

High Thermal Performance PIR for Section J compliance
 Choose from 50, 75, 100, 125, 150, 200 core thickness
 Does not suffer compression or thermal performance loss
 R values from 2.20 to 8.75
 Zero Ozone Depleting Potential (ODP)

Internal Layer

Plain, Flatline, Satlinline, Ribbed internal finishes
 Australian made and proven COLORBOND[®] steel
 Allows for easy maintenance



The first choice for economic focussed thermal construction

MetecnoPanel[®] is an insulated wall panel with a PIR (Polyisocyanurate) fire-retardant core delivering exceptional thermal performance and made exclusively with COLORBOND[®] steel, designed and made in Australia to suit Australia's harsh conditions. MetecnoPanel[®] is GreenRate Level A certified and FM approved to FM 4880 & 4881 – No Height Restriction.

Better controls, better results

MetecnoPanel[®] walling assists in temperature controls through impressive R-values via its insulated PIR core. Perfect for producers looking for food to body mass conversion rates and facility longevity.

Healthy & big weaners

Fight disease and influenza with fast maintenance/cleaning with easy washdown of facilities. Quarantine and cleaning process is faster than built up insulation options.

Support Australian manufacturing and Australian jobs

Speak to our Agricultural Category Manager on 0497 025 946



Build Better





Dr Beth Cookson met with other representatives of the PHOVAPS Council.



Support for Pacific region animal health

A MEETING of the Pacific Heads of Veterinary and Animal Production Services network was held in October to further support the development of regional agricultural capacity.

The meeting covered coordinating and strengthening animal health and production, biosecurity, veterinary capability and capacity, disease surveillance and preparedness, animal welfare, One Health approaches, climate resilience, and food and nutrition security in the Pacific.

It was funded by the Department of Agriculture, Fisheries and Forestry and was delivered in partnership with the Pacific Community and the World Organisation for Animal Health.

Australia's chief veterinary officer Dr Beth Cookson attended the meeting with representatives from the department's Pacific Engagement Program for Animal Health.

"Animal production is central to the culture, economy and food security of Pacific nations," Dr Cookson said.

"Strengthening Pacific animal health, production and biosecurity improves food security, nutrition and livelihoods, and protects our region from animal disease threats.

"As a standing member of the PHOVAPS Council, I am committed to growing the network's capacity and impact.

"Supporting the network will help us to strengthen our relationships across the Pacific, and to maintain Australia's reputation as a trusted partner to ensure the shared security

and prosperity of our region."

The gathering in October was the second face-to-face meeting since the network was re-established in 2021.

The network is the Pacific's key decision-making structure and coordination mechanism for regional animal health, welfare, production and biosecurity matters.

It includes representation from all 22 Pacific Island countries and territories, as well as Australia, New Zealand, the UK, the US and France.

APRIL Innovation Projects open

THE Australasian Pork Research Institute Ltd is seeking applications for its Innovation Projects scheme, for commencement in 2025.

An independent participant-based entity, APRIL seeks to enhance the Australian pork industry by investing in research and development, education and training, and commercialisation activities focused on priorities and deliverables that ensure the sustainability of Australian pork production and to generate optimal returns for its stakeholders.

APRIL's Innovation Projects are negotiable to 12 to 18 months in duration and have a budget of approximately equal to \$75,000 (negotiable).

In this round, APRIL is willing to invest in projects that address these key priority areas for the pork industry, as identified in the 2023 Green Paper:

- Low-cost, non-straw, effluent-friendly evidence-based enrichment options for use at all phases of production to improve welfare

- Objective measures of odour and its application to both new and established piggeries

- Limiting the use of in-feed antibiotics and enhancing the effectiveness and efficacy of water medication – in accord with the Australian Strategic and Technical Advisory Group on Antimicrobial Resistance

- Enhancing antimicrobial stewardship.

However, APRIL is willing to receive applications in any field/discipline that suitably address the criteria for Innovation Projects – refer to application form.

For assistance with the preparation of an application, refer to the 'Guidance Notes for Innovation Project Proposals', as it provides further and specific detail on project proposals under APRIL's new participant model.

For example, APRIL-funded Innovation Projects may still require a cash contribution to cover project costs and facility funding, dependent on the level

of participation the organisation/s has/ have within APRIL's new participant model – refer to the 'Cash Contribution Calculator'.

Up to \$750,000 will be available for this round of Innovation Projects.

The Innovation Projects scheme is provided on a nationally competitive basis and available to applicants from any organisation.

Collaborative projects are strongly encouraged, though applications must identify a lead party that will administer the project.

All APRIL funding schemes are assessed, evaluated and recommended for funding by the Research and Development Advisory Committee, which has the collective expertise and experience to effectively assess applications.

If approved, research scheme funds are paid directly to the successful lead party.

Funding rules for Innovation Projects stipulate that no overhead – indirect cost recovery – can be charged.

Innovation Projects are conducted under the terms and conditions of the APRIL Research Deed, that can be viewed at apri.com.au/research

An individual is ineligible to be considered for a new research project as project leader if, and without an approved and fully signed project variation, there are two or more consecutive quarterly project reports and/or cash expenditure reports that are overdue.

Furthermore, an individual is ineligible to be considered for a new research project as project leader if, and without an approved and fully signed project variation, a final report is more than three months overdue.

For any further information or any questions, contact executive officer Dr Charles Rikard-Bell on c.rikardbell@april.org.au or 0439 513 723.

To apply for an APRIL Innovation Project, click on the QR code below, complete the relevant proposal form and the budget and milestones template and email to Dr Charles Rikard-Bell at c.rikardbell@april.org.au by the applications close date, December 13, 2024.

It is anticipated that funding for successful projects will commence prior to July 2025, subject to APRIL Board approval.

APRIL



for living farm building surfaces



POSITIVE BIOFILM

- A specific blend of highly concentrated live bacteria
- Helps install a positive biofilm on farm building surfaces after cleaning and disinfection
- Helps improve the microbial environment for safe animal production
- Helps reduce the risk of health issues due to the harmful microorganisms and negative biofilms.

Not all products are available in all markets nor associated claims allowed in all regions.

Partnering in microbial solutions for a changing world.

Using sound science, proven results and knowledge from experience, Lallemand Animal Nutrition helps our customers and industry partners be more successful – and animals lead healthier lives.

Lallemand Animal Nutrition provides a full range of specific, natural microbial products, services and solutions that improve animal wellbeing and performance while respecting animals, people and the environment.

Contact us on (07) 5451 0125 | LAN-Aus@lallemand.com



LALLEMAND ANIMAL NUTRITION LALLEMAND

Here's my Card

THIS is a quick and easy way to locate the right people for any number of specialist services and facilities in the pig industry. Whatever the job you need to accomplish, here's a group of business cards that guarantee you the best available.

- Eco Shelter Systems
- Replacement Covers
- Piggery Blinds
- Piggery Shade

1300 059 003
sales@polytex.net.au
www.polytex.net.au



Alan Dawson
Head of Swine and Growth Platforms ANZ



Boehringer Ingelheim Animal Health Pty Limited
78 Waterloo Road
North Ryde NSW 2113
Mobile: 0428 297 034
Tel: 02 8875 8698
Fax: 02 8875 8715
alan.dawson@boehringer-ingelheim.com



Werner Grundmann
Sales & Operations Manager Protein ANZ
Grain & Protein



AGCO GSI Limited
615-645 Somerville Road
Sunshine West, Victoria, 3020, Australia
Phone: +61 393 130 313
Mobile: +61 467 576 349 Email: Werner.Grundmann@agcocorp.com
www.grainandprotein.com/sea/



Dr. Peter Bracken
Integrated Health & Technical Services Manager

Boehringer Ingelheim Animal Health
Level 1, 78 Waterloo Road
North Ryde NSW 2113
Mobile: 0408 422 240
Customer Care: 1800 808 691
E-mail: peter.bracken@boehringer-ingelheim.com

Bruno Alves
Territory Manager



Boehringer Ingelheim Animal Health Pty Limited
78 Waterloo Road
North Ryde NSW 2113
Mobile: 0411 330 493
Tel: 1800 808 691
Fax: 02 8875 8715
bruno.costa_alves@boehringer-ingelheim.com



David Cadogan
P +61 409 049 793
E david.cadogan@feedworks.com.au

Doug Pearson
P +61 408 735 185
E doug.pearson@feedworks.com.au

Stuart Wilkinson
P +61 414 487 882
E stuart.wilkinson@feedworks.com.au

Terence Sibanda
P +61 448 791 413
E terence.sibanda@feedworks.com.au

www.feedworks.com.au



Dr. Adam Heeley
National Sales & Key Account Manager
Swine & Growth Platforms

Boehringer Ingelheim Animal Health
Level 1, 78 Waterloo Road
North Ryde NSW 2113
Mobile: 0412 438 425
Customer Care: 1800 808 691
E-mail: adam.heeley@boehringer-ingelheim.com

Rose McFarlane
Territory Manager



Boehringer Ingelheim Animal Health Pty Limited
78 Waterloo Road
North Ryde NSW 2113
Mobile: 0408 459 356
Tel: 1800 808 691
Fax: 02 8875 8715
rose.mcfarlane@boehringer-ingelheim.com

- Wastewater Pumps
- Lagoon Aerators
- Sludge Pumps
- DAF Pumps



HYDRO INNOVATIONS
(02) 9898 1800
sales@HydroInnovations.com.au
www.HydroInnovations.com.au

Dr Roger Campbell
Director
ABN 79626160085

RG Campbell Advisory

roger.campbell@rgcampbelladvisory.com.au
Phone/ +61 407 774 714
linkedin.com/in/roger-campbell-95237356



PIC Australia

Clark Forbes, National Business Manager
M: 0427 909 361 E: cforbes@picaustralia.com.au

Joseph Pranilla, Technical Services Manager, WA
M: 0436 912 671 E: jpranilla@picaustralia.com.au

Dr Pat Mitchell, Genetic Services Manager
M: 0402 794 912 E: patricia.mitchell@picaustralia.com.au

NEVER STOP IMPROVING

PIC Australasia Pty Ltd, PO Box 39, Grong Grong NSW 2652
P: 02 6956 2105 F: 02 6956 2203 E: info@picaustralia.com.au

Craig McCann
NATIONAL KEY RELATIONSHIP MANAGER

+61 488 025 555
c.mccann@becfeed.com.au

becfeed.com.au



Dr. David Isaac
DVM MRCVS MANZCVS
(Vet Pharmacology) AARNe
PRODUCT MANAGER -
VETERINARY AND SPECIALTIES

+61 400 603 483
+61 7 3723 9844
d.isaac@becfeed.com.au

becfeed.com.au



Natalie Schwerin
M.ScAg AARNe
AUSTRALIAN TECHNICAL & SALES MANAGER

+61 439 862 788
+61 7 3723 9856
+61 7 3271 3080
n.schwerin@becfeed.com.au

becfeed.com.au



metrowest Agricultural Technology
aspire | commit | create
Livestock Housing & Automation

CELEBRATING OVER
25
YEARS OF PROGRESS
metrowest.com.au

David Ahlquist
Sales and Engineering Manager
08 9416 0666
info@metrowest.com.au

Large UPS Power & Energy
Automation & Control AgTech
70 Belmont Avenue, Belmont, WA 6104



1800 426 142
orders@apiam.com.au
apiam.com.au

Shaun Welsh
0400 672 418
Business Manager (Swine and Poultry Services)

Haylee Clifford
0456 498 120
Business Account Manager,
Intensive Animals

Forbes Corby
0457 508 867
Business Account Manager,
Intensive Animals



Phone: 1800 500 223
(+61) 07 3067 0050

office@farmmark.com.au
1/45 Hume Drive, Bundamba
Queensland Australia 4304

www.farmmark.com

EFFLUENT PUMPS & IRRIGATORS

DAIRIES - PIGGERIES - ABATTOIRS
Proudly designed & manufactured in Australia

NO BEARINGS OR SEALS UNDERWATER
Can run dry indefinitely without damage

HIGH HEADS AND HUGE OUTPUTS
Ideally suited for travelling irrigators

UNIQUE NON CLOG IMPELLER

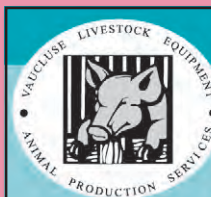


REEVE B.R.REEVE ENGINEERING (03) 9699 7355
www.reevegroup.com.au



NATHAN DWYER
Technical Key Account Manager
Auspac Ingredients Pty.Ltd.
Unit 1, 84-92 Barnes St Tamworth NSW 2340

Mobile +61 (0)429 127 599
Tel +61 2 6762 7708
Fax +61 2 6762 7709
nathan@auspacingredients.com.au



117 Chapman Rd, Inglewood, SA 5133

David Reu
MOBILE: 0427 791 734
EMAIL: davidreu@vaocluse-aps.com.au

PH: 08 8380 5672 FAX: 08 8380 5176
www.vaocluse-aps.com.au

Here's my Card

THIS is a quick and easy way to locate the right people for any number of specialist services and facilities in the pig industry. Whatever the job you need to accomplish, here's a group of business cards that guarantee you the best available.




Jay Richards
Business Manager - Central and Northern QLD
jay.richards@abbeylabs.com.au
0472 535 565

Abbey Animal Health Pty Ltd
B27/1 Maitland Place, Norwest, NSW 2153
T 02 8088 0720 | F 02 8088 0721 | W www.abbeylabs.com.au



Stephen Fisher
Business Manager - South Australia and Western Victoria
stephen.fisher@abbeylabs.com.au
0400 617 277

Abbey Animal Health Pty Ltd
B27/1 Maitland Place, Norwest, NSW 2153
T 02 8088 0720 | F 02 8088 0721 | W www.abbeylabs.com.au




ABN: 92 115 191 056

ACE Laboratory Services
12 Gildea Lane Bendigo East, Vic 3550

NATA
AQIS QC2 Containment Facility APVMA Licensed Manufacturer

PH : (03) 5443 9665 Email: info@acelabservices.com.au
FAX: (03) 5443 9669 PO Box 6101 White Hills, Vic 3550



185 Thomas Street
(PO Box 271)
Murray Bridge SA 5253

P 08 8531 2700
F 08 8531 2711
M 0419 559 011

Aaron Hines E aaron@jacksonsaustralia.com
Sales & Production Manager W www.jacksonsaustralia.com

Design • Engineering • Fabrication



Dr. Avril Grieve 0438 352 443
Tim Fulton 0431 075 972
Amanda De Souza 0477 387 392
John Reeves 0412 264 497

Zoetis Australia Pty Ltd
Level 6, 5 Rider Boulevard, Rhodes NSW 2138
www.zoetis.com.au




Regional Sales Representatives

Brian Warneke (SA) Tel: 0436 193 253
Dearne Cowling (Vic) Tel: 0429 125 448
Vin Modra (SA) Tel: 0407 723 679
Shane Nicholson (National) Tel: 0427 200 262
Linda Scotts (NSW) Tel: 0428 972 599
Michael Pritchard MTB - Biosecurity Tel: 0407 764 850
Bruce Lockwood (Qld) Tel: 0400 700 559
Winston Cheng (Qld) Tel: 0429 200 444

AltechLienert.com.au



Mick Findlay
Managing Director
mick@abbeylabs.com.au
0412 10 11 14

Abbey Animal Health Pty Ltd
B27/1 Maitland Place, Norwest, NSW 2153
T 02 8088 0720 | F 02 8088 0721 | W www.abbeylabs.com.au



Brett Wisemantel
Business Manager - Northern NSW and Southern QLD
brett.wisemantel@abbeylabs.com.au
0428 357 109

Abbey Animal Health Pty Ltd
B27/1 Maitland Place, Norwest, NSW 2153
T 02 8088 0720 | F 02 8088 0721 | W www.abbeylabs.com.au



Tiffany Gordon
Vet/Equine Territory Manager - Southern
tiffany.gordon@abbeylabs.com.au
0448 902 524

Abbey Animal Health Pty Ltd
25 Hesling Court, East Bendigo VIC 3550 Australia
T 02 8088 0720 | F 02 8088 0721 | W www.abbeylabs.com.au



Stuart Court
Technical Services Manager (ANZ)
stuart.court@kemin.com
mobile: 0466 956 263

Greg Heeney
Sales Manager - Monogastric and Milling (AU)
greg.heeney@kemin.com
mobile: 0456 294 643

Trina Parker
Country President (ANZ)
trina.parker@kemin.com
mobile: +64 274 872 524

Sydney Office: 02 9844 5700
kemin.com



Brendon Cant
Managing Director

T +61 8 9430 9463
M +61 417 930 536
E brendon@iinet.net.au

BCAPR Pty Ltd (ACN 159 299 966)
PO Box 749 South Fremantle
Western Australia 6162

DANIEL FISHER
0434 468 644
KEVIN MARKHAM
0421 078 855

E: equipment@ifsaustralia.com.au
www.ifsaustralia.com.au

INTENSIVE FARMING SUPPLIES AUSTRALIA

U4/9 Cardiff Court PO Box 2467
Cavan Dry Creek
SA 5094 SA 5094




David Sinclair
Operations Manager

Bulk Feed Transport and Silo Aeration

Phone: (07) 4634 7344 Mobile: 0428 474 057
Freecall: 1800 242 699
david@customvac.com.au
www.customvac.com.au

24 Molloy Street, PO Box 2426, Toowoomba Queensland 4350



Simon Lakin
National Sales Manager
simon.lakin@abbeylabs.com.au
0418 240 291

Abbey Animal Health Pty Ltd
B27/1 Maitland Place, Norwest, NSW 2153
T 02 8088 0720 | F 02 8088 0721 | W www.abbeylabs.com.au



William Lloyd
Business Manager - Southern NSW
william.lloyd@abbeylabs.com.au
0448 270 066

Abbey Animal Health Pty Ltd
B27/1 Maitland Place, Norwest, NSW 2153
T 02 8088 0720 | F 02 8088 0721 | W www.abbeylabs.com.au

Australian Pork
NEWSPAPER

Now available in colour, great value at

\$280 + GST for 4 months

Advertise your business card here call 07 3286 1833

www.porknews.com.au

IRRIGATORS AND SPRINKLERS
FOR WATER AND EFFLUENT
ON CROPS AND PASTURES

Volume capacity - 18m³/hr to 90m³/hr
Spray width to 36m and runs up to 330m

REEVE B.R.REEVE ENGINEERING (03) 9699 7355
www.reevegroup.com.au




Jodie Driscoll
National Sales Manager
jodie@ccdanimalhealth.com.au
0428 247 272

Rebecca Jamieson
National Key Account Manager - Swine
rebecca@ccdanimalhealth.com.au
0400 392 111

Eddie Pecotich
National Key Account Manager - Biosecurity
eddie@ccdanimalhealth.com.au
0437 408 961

Unit 2, 84-92 Barnes St
Tamworth NSW 2340

LALLEMAND ANIMAL NUTRITION

Alison Leary - Technical Services Manager
Mob: 0488 715 151 | aleary@lallemand.com

Nathan Lister - Technical Services Manager
Mob: 0438 190 388 | nlistner@lallemand.com

Alex Turney - Managing Director, AUS & NZ
Mob: 0419 005 511 | aturney@lallemand.com

www.lallemandanimalnutrition.com

SPECIFIC FOR YOUR SUCCESS



TOM BRAUN
MANAGING DIRECTOR

MYORA
PO BOX 550, MOUNT GAMBIER, SA 5290
P 08 8725 0411 M 0431 679 053
E TOM@MYORA.COM.AU W MYORA.COM.AU

Seaweed in weaner pig diets

THE weaning process in pig production is considered one of the most stressful events in a pig's lifetime and is characterised by intestinal and immune dysfunctions as a result of abrupt changes in their environment and feed format.

These changes can compromise the pig's feed intake, growth and health, often due to an increase in pathogenic enterotoxigenic *e coli*, one of the major causes of post-weaning diarrhoea in pigs.

Until recently, the widespread use of pharmacological levels of zinc oxide has been common practice, since the ban on antibiotic growth promoters in 2006, as a way of improving feed intake and growth performance of pigs immediately after weaning, as well as reducing the incidence of PWD.

However, after the ban of pharmacological zinc oxide in European Union pig diets, alternative ways to improve health and growth performance of pigs after weaning are being sought.

Seaweed blends have been an area of interest given their potential prebiotic effects.

This work compared two levels of a seaweed blend, added to a control diet and a diet with pharmacological levels of ZnO, on feed intake, growth, feed efficiency and the inflammatory response.

A total of 240 pigs were weaned in pens of five pigs per pen and allocated to one of four

dietary treatments.

Across treatment groups, pens of pigs were balanced for the sex ratio within a pen, a pig's litter of origin and weight at weaning.

Pens of pigs were fed one of four diets across three phases: days 0-7, 7-20 and 20-42 after weaning:

- Positive control (PC) – standard diet with 3.1g/kg ZnO
- Negative control (NC) – standard diet without ZnO
- NC+5g/kg seaweed blend (SWB)
- NC+10g/kg SWB.

Feed refusals per pen and individual pig weights were recorded on days 7, 20 and 42 to determine average daily gain, average daily feed intake and gain:feed per phase.

On day 20, six pigs per treatment were euthanised and dissected. Peripheral plasma samples were collected for ELISA analysis of interleukin-6 (IL-6), IL-1 β and IL-10 and the ileal mucosa was scraped for qPCR analysis of relative mRNA quantification of IL-6, IL-1 β and tumour necrosis factor-alpha.

During the first seven days after weaning, PC-fed pigs tended to have higher ADG than other treatments (P<0.10) and higher G:F compared to NC (0.888 vs. 0.764, P<0.001, NC+5g/kg SWB (0.888 vs. 0.753, P=0.019) and NC+10g/kg SWB (0.888 vs. 0.762, P=0.034).

Between 8 and 20 days, PC-fed pigs tended to have higher ADFI than the NC and

the NC+10g/kg SWB (P<0.10).

Average daily gain between 8 and 20 days was not different for PC and NC+5g/kg SWB pigs (0.368 and 0.308kg/day) and G:F was higher for PC compared to both NC (0.830 vs. 0.721, P=0.021) and NC+10g/kg SWB pigs (0.830 vs. 0.702, P=0.005).

Between 21 and 42 days, there were no differences in ADG or ADFI.

Gain:feed for PC (0.755) and NC+5g/kg SWB (0.768) fed pigs were not different but were lower than NC (0.804, P=0.002 and P=0.038, respectively).

There were no differences in mRNA levels of IL-6, IL-1 β or TNF- α in the ileum.

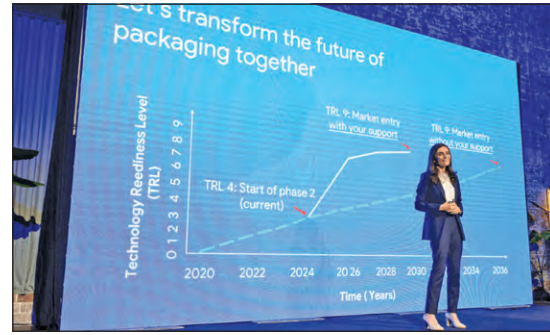
In plasma, PC and NC+5g/kg SWB tended to have lower IL-6 concentrations compared to NC and NC+10g/kg SWB (1.7 and 1.1 vs. 4.7 and 5.0pg/ml; P<0.10).

Given the intermediate performance of pigs fed 5g/kg inclusion of SWB, it could be beneficial to investigate this inclusion level further, or lower inclusion levels, given 10g/kg did not show any beneficial effect.

The study can be viewed in its entirety by scanning the QR code.



Dr Nasim Amiralian, group leader of the Bio-Inspired Materials Group at the University of Queensland.



Bio-packaging from agricultural waste to tackle plastic pollution

AMID escalating challenges on how to reduce global plastic pollution, a bio-packaging technology derived from agricultural waste is poised to revolutionise the industry by providing a sustainable, compostable and recyclable alternative to conventional plastic.

This world-leading technology has been developed at the University of Queensland by Bio-Inspired Materials Group leader Dr Nasim Amiralian and her team.

Annually, the world generates 300 million tonnes of plastic, with 85 percent of packaging stemming from fossil fuels, highlighting the urgent need for sustainable alternatives.

"We are tackling the dual crises of plastic packaging waste and agricultural food waste, which collectively amount to 1.4 billion tonnes annually," Dr Amiralian said.

"We have created materials from sugarcane trash that can replace plastic packaging and extend the shelf life of produce thanks to its antimicrobial properties.

"These packaging so-

lutions are optimised for mechanical strength, heat and moisture resistance, ensuring prolonged shelf life for packaged foods.

"Our 100 percent bio-based biodegradable packaging technology represents a significant leap forward in productivity and environmental sustainability."

Their innovative approach focuses on developing bio-packaging from agricultural waste that is both compostable and recyclable and can be used to replace conventional items such as berry punnets commonly found in supermarkets.

This technology could be the key to reducing Australia's re-ranking as the second highest generator of single-use plastic waste per capita globally.

"Key benefits of this technology include substantial reductions in waste and emissions, elimination of harmful chemicals through recyclable green solvents, enhanced biodegradability and prevention of microplastic generation," Dr Amiralian said.

"These attributes po-

sition the packaging materials as ideal solutions for both earthy and marine environments, aligning with global environmental goals."

The global fibre packaging market, expected to surpass \$537 billion by 2033, underscores the growing demand for sustainable alternatives.

This new fibre-based packaging technology not only reduces reliance on fossil fuels but also utilises agricultural waste, thereby reducing landfill and greenhouse gas emissions.

Dr Amiralian showcased her work as one of seven innovators at the recent AgriFutures Australia and growAG Catalyst Pitch event in Sydney, where she detailed this opportunity for investors passionate about sustainability, net-zero and zero-waste initiatives.

"Moving forward, we're seeking support from industry partners, corporates, governments or investors to advance our technology for scaling up in standard production facilities," Dr Amiralian said.

The Catalyst Program supports women in ag-

ri-food technology and innovation across Australia and New Zealand, identifying exceptional research and technology innovations ready for commercialisation and further development.

In addition to her groundbreaking work in bio-packaging, Dr Amiralian is dedicated to advancing opportunities for women and youth in science, technology, engineering and mathematics.

Her recent involvement in the University of Queensland's Career Progression for Women program and her role in inspiring youth through the Queensland Chief Scientist case studies highlight her commitment to gender equality and educational advancement in STEM fields.

For more information about the research or investment, scan the QR code.



Here's my Card ■ Here's my Card ■ Here's my Card

Andres Ardila
Veterinarian
Technical Advisor - Swine

Intervet Australia Pty Ltd
Level 1 - Building A, 26 Talavera Road
Macquarie Park, NSW, 2113
North Ryde Post Business Centre,
Locked Bag 2234
North Ryde, NSW, 1670
Australia
T 1800 033 461
M 0458 794 535
F 1800 817 414
andres.ardila@msd.com



Anke Woeckel
Veterinarian
Technical Marketing - Swine

Intervet Australia Pty Ltd
Level 1 - Building A, 26 Talavera Road
Macquarie Park, NSW, 2113
North Ryde Post Business Centre,
Locked Bag 2234
North Ryde, NSW, 1670
Australia
T 1800 033 461
M 0437 010 683
F 1800 817 414
anke.woeckel@msd.com



**PRECISION INTESTINAL
NUTRITION SYNCHRONIZED
FOR PIGS**

Some companies talk about it -
at Jefo, we do it

For more information, contact:

Wayne Bradshaw: 0429 301 500

wbradshaw@jefo.com

or the office:

ausinfo@jefo.com

jefo.com



**Australian
Pork**
NEWSPAPER

Ben Collins
BBus DipMgt GradDipEd
Advertising & Marketing Manager

P: 07 3286 1833 M: 0439 708 602

E: ben@collins.media PO Box 162, Wynnum QLD 4178

www.porknews.com.au

BECAMPBELL
Quality Australian Meat since 1969

Actively buying pigs in
SA, VIC, NSW & QLD

Nathan Odell
Chief Supply Chain Officer
M 0412 821 358
E nodell@becampbell.com.au

Bjorn Ludvigsen
Livestock & Farm Assurance Manager
M 0479 181 943
E bludvigsen@becampbell.com.au

Ray Quinn
Procurement Manager Meat & Livestock
M 0410 699 971
E rquinn@becampbell.com.au

www.becampbell.com.au

Here's my Card ■ Here's my Card ■ Here's my Card

Instinct seeks to cut costs. Wisdom knows where not to.



The return on investment from Boehringer Ingelheim vaccines increases with higher feed costs:

Circoviruses have been associated with multiple disease conditions in pigs. Signs include weight loss, abortions and still births.

Ingelvac CircoFLEX® provides active immunisation of pigs as an aid in the prevention and control of diseases associated with porcine circovirus type 2.

At a feed price of \$369/tonne, vaccinating with Ingelvac CircoFLEX® can generate savings of \$11,644 (ROI 1.6)¹

**The best investment
for your business is
good health.**



**Boehringer
Ingelheim**

**Ingelvac
CircoFLEX®**

**Ingelvac
MycoFLEX®**

FreVAX™

¹ AVERAGE OF 13 PUBLISHED STUDIES. Assumptions for the calculation: FCR improvement = 0.141, Live weight = 100 kg, Number of animals sold per year = 3000, Vaccination costs: \$7,139.
Boehringer Ingelheim Animal Health Australia Pty. Ltd. Level 1, 78 Waterloo Road, North Ryde NSW 2113. ABN 53 071 187 285. Ingelvac MycoFLEX and Ingelvac CircoFLEX are registered trademarks of Boehringer Ingelheim Vetmedica GmbH. All rights reserved. AU-POR-0045-2022