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NATIONAL Poultry NEWSPAPER

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Poultry Hub Australia visiting schools and awarding grants



Tamsyn Crowley performed egg science experiments with primary school students in Queensland.

THIS month we have been busy engaging with schools to highlight the wonders and opportunities in the poultry industry.

We have run science experiments with eggs, exploring the importance of a strong cuticle and a range of egg freshness measures.

Dr Natalie Morgan, our education officer, helped students get an insight into poultry nutrition and the differences between chicken meat and layer diets.

Students were required to make up specifically formulated diets using common household ingredients such as breakfast cereals.

These interactions are both enjoyable and ex-



by **TAMSYN CROWLEY**
Director



tremely important, not only for building the future capacity of our industry, but also allowing children an opportunity to understand where their food comes from.

Poultry Hub Australia recently signed off the final round of grants we have awarded this year.

We have invested over

\$500,000 in a range of projects.

In total we awarded nine grants to researchers and their industry partners at four different universities: RMIT, University of Melbourne, University of New England and University of Adelaide.

We look forward to seeing how their projects

progress over the coming months and how their exciting research will impact our fantastic industry.

Finally, we have been exploring some new ways to get positive messages out about poultry farming.

We would like to announce a new initiative called 'meet the farmer'.

We are aiming to film short clips that focus on poultry farmers themselves to highlight the human side to farmers and demonstrate that farmers love their animals and farming is something all Australians should be proud of.

If you would like to get involved or have any ideas to share with us, please contact us at poultryhub@une.edu.au



Natalie Morgan discussed the importance of poultry nutrition and feed formulation with year 8 students.

Details of the projects funded by PHA in 2018

Project name	Project leader	University
Evaluation of the prebiotic effects of xylo-oligosaccharides	Dr Natalie Morgan	University of New England
Insects for poultry nutrition in Australia	Dr Isabelle Ruhnke	University of New England
Response of meat chicken to arginine sources in low protein diets	Professor Robert Swick	University of New England
Potential non-invasive biomarkers of intestinal inflammation and permeability in broiler chickens	Dr Reza Barekatin	University of Adelaide
Monitoring of key infectious pathogens using poultry dust for controlling diseases	Priscilla Gerber	University of New England
Dietary inclusion of DVXPC yeast metabolite to alleviate potential gut dysbiosis in a female broiler breeder line and its effects on hen and progeny performance	Dr Rebecca Forder	University of Adelaide
Evaluation of the immune-stimulatory effects of plants essential oils using an infectious laryngotracheitis virus vaccination - challenge model	Dr Mauricio Coppo	University of Melbourne
The role of education in attitudes towards hen welfare: a case study of furnished cages	Dr Peta Taylor	University of New England
Epidemiological investigation of spotty liver disease in chickens to inform disease control	Dr Thi Thu Hao Van	RMIT University

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**Poultry Industry
Calendar of Events**

2018

NOV 11 - 13 – Australian Veterinary Antimicrobial Stewardship Conference, Sunshine Coast, QLD www.avams2018.w.yrd.currinda.com

2019

FEB 12 - 14 – International Poultry Expo, Atlanta, US www.ippexpo.com

FEB 17 - 20 – Australian Poultry Science Symposium, Sydney NSW <http://sydney.edu.au/vetscience/apss>

JUN 10 - 13 – European Symposium on Poultry Nutrition, AmberExpo in Gdansk, Poland www.espn2019.com

JUN 23 - 26 – European Symposium on the Quality of Poultry Meat and XVIII European Symposium on the Quality of Eggs and Egg Products, Izmir, Turkey www.eggmeat2019.com

How to supply event details: Send all details to National Poultry Newspaper, PO Box 387, Cleveland, Qld 4163, call 07 3286 1833 fax: 07 3821 2637, email: design@poultrynews.com.au

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Costco chook change worth a roast or toast?

COULD Costco change the face of Australian chicken processing and retailing?

That's the question I've just put to myself, after learning the US retail giant, which has more than 500 outlets in the US and 200-plus in other countries, including 10 in Australia, will be processing its own chickens this time next year in Dodge County, Nebraska.

It's all about turning a profit on sales of rotisserie chickens, which Costco has held down at a loss-leading price of \$US4.99 since 2010.

They reportedly sell 157,000 every day.

Wow. The obvious rationale is shoppers come in for a hot chicken and leave with a trolley full of groceries and other items.

Since 2010, Costco's rotisserie chicken sales have grown by more than 8 percent annually – three times the growth rate of total US poultry consumption.

Costco has, according to foodprocessing.com.au, minimised its losses on those chickens by generating energy savings courtesy of using bigger ovens and less-expensive packaging.

Three primary drivers have led Costco to bring its poultry supply in-house: continuity and

Cant Comment

by BRENDON CANT



surety of supply, visibility up the chain and cost control.

The Nebraska complex will be able to process 100 million birds a year, with one-third of the rotisserie program being produced in-house.

The facility will also process chicken parts.

To put that into an Australian context, 664 mil-

lion chickens were slaughtered here in 2017/18.

It seems Costco's move is the first time a US retailer has integrated its meat supply to the farm level and assumed the risks associated with animal husbandry, including feeding, animal welfare, disease prevention and harvesting.

If its move into production and processing is suc-

cessful, it could well be the model for other food retailers and foodservice companies to vertically integrate in other protein sectors.

Costco itself is an interesting beast, where shoppers pay \$60 a year for the privilege of shopping in their wholesale stores.

According to Costco co-founder Jim Sinegal, it offers lower prices and better value by eliminating virtually all frills and costs associated with conventional wholesalers and retailers, including salespeople, fancy buildings, delivery, billing and accounts receivable.

Costco offers two memberships: Business members qualify by owning or operating a business, while Gold Star member-

ship is available to individuals.

All members get a free additional card.

Costco warehouses are open seven days for all members.

With Australian chicken meat consumption edging upwards to 1kg per person, per week, Costco may well set its sights on adopting the vertical integration model Down Under.

Coles and Woolworths sell about 90 million roast chickens a year, so the market is here.

Industry sources suggest that at \$8 a roast chicken, there's no profit in it for the big two, but add a dollar or two and it becomes more attractive.

Aldi in Australia prefers to have its outlets as roast chicken-free zones.



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LEVUCELL SB as a tool to reduce the risk of foodborne pathogen contaminations on carcasses of broilers



Campylobacter and **Salmonella** spp. are the two most commonly reported causes of foodborne disease. Poultry flocks are considered as the main reservoirs. To limit the prevalence of contamination, measures should be applied in the broiler meat supply chain but also on farm.

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Five steps to move your animals' nutrition at the pace of genetics.



Issue
Assessment



Report



Formulation



Recommendation



Measurement

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Wasted opportunities

THE Queensland agricultural sector continues to demonstrate stewardship of the resources it uses and maximise recycling opportunities for the waste it produces.

The poultry industry has demonstrated a conscious effort to reduce its environmental impacts through improved management of waste by-products including spent litter.

As a carbon, energy and nutrient resource, this 'waste' could become a more valuable by-product if appropriate technologies were available to better harness the opportunities.

Internationally, there has been a rapid expansion of research and development in converting poultry and other livestock waste into energy through various chemical, biochemical and thermal processes.

Similar government initiatives have not been clearly outlined by Australian governments to date, but Queensland Farmers' Federation considers there are still opportunities to develop new, or better utilise existing plants to deliver commercially viable operations in Australia.

The 'circular economy' is becoming part of the



QUEENSLAND
FARMERS'
FEDERATION

by **TRAVIS TOBIN**
CEO



narrative for progressive industry sectors of the economy and it is reframing the way we have traditionally thought about 'wastes' and by-products.

Our sector must continue to strive for this goal, and finding innovative and practical solutions for the management of farm waste resources and by-products will be part of us getting there.

Through bioconversion, wastes from agricultural production systems can become value-added fuels and chemicals, realising economic, environmental and strategic advantages over traditional fossil-based products.

Many of these advantages can be developed in regional areas close to where the waste or by-product is generated and, in some areas,

where there is demand for affordable energy and/or heat solutions as well.

For example, 10,000 tonnes of waste disposed into landfill supports 2.8 full-time jobs; whereas 10,000 tonnes of waste converted to recycling opportunities has the potential to support 9.2 jobs.

Many bioenergy resource streams have already been mapped throughout Queensland in the Australian Biomass for Bioenergy Assessment, which provides detailed information about biomass resources for the development of new bioenergy and bioconversion projects; and allows commercial enterprises the opportunity to identify linkages between biomass supply through the supply chain to the end user.

Resources sector mapping is already complete for the intensive animal industries, cotton, cane, horticulture and timber.

QFF was disappointed the Queensland Government chose to classify animal effluents and poultry processing wastes as Category 2 Regulated Wastes in the recent Environmental Protection (Regulated Waste) Amendment Regulation 2018.

Additionally, from March 4, 2019, these wastes will incur the higher levy rate of \$100 per tonne if they are sent to a landfill inside the levy area, which includes 38 local governments and covers 90 percent of Queensland's population.

It is important that the waste and recycling industry, governments and agricultural industries continue to work together to remove barriers to the collection and recovery of recoverable resources and develop cost-effective and environmentally efficient processes for material capture in future.

Queensland's intensive agricultural industries are on board, as is the waste and recycling industry.

It is now time for governments to step up.



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Thousands respond to CSIRO egg survey

A SURVEY canvassing the views of thousands of Australians about the egg industry has found that while the industry is viewed positively by the public, it also faces key challenges in developing deeper levels of trust with the Australian people.

The survey was commissioned by Australian Eggs, the industry's research body, and developed and delivered by the CSIRO.

The aim of the consultation was to help the egg industry gain an understanding of community sentiment, with the ultimate goal of developing a Sustainability Framework to help 'future-proof' the nation's egg industry.

Delivering the report to Australian Eggs, CSIRO senior research scientist Dr Kieren Moffat said the report shows positive views about eggs as a household staple are matched by a strong concern for the welfare of the hens that lay them.

"Australians believe the agriculture sector is important to our way of life," Dr Moffat said.

"Eggs were seen to be an affordable, nutritious staple in the national diet, with about 75 percent of respondents agreeing or strongly agreeing with the statement," Dr Moffat said.

"Yet the industry faces real and important challenges to maintain this level of acceptance and support."

The report shows hen



welfare is very important to Australians, with around 80 percent of respondents agreeing or strongly agreeing that hens should be well cared for.

The report also makes it clear that more needs to be done to help the community understand the industry.

"In analysing the data, we observed quite a number of 'not sure' responses around issues such as the industry's environmental impacts, some hen welfare items and the economics of the industry," Dr Moffat said.

"This indicates there is work to do to help the community better understand important parts of the egg supply chain in Australia."

Commenting on the report, Australian Eggs managing director Rowan McMonnies said the findings of the survey will be invaluable in helping to develop a sustainable future for the egg industry.

"We went into this process with our eyes wide open, determined to improve our understanding of community sentiment about our industry," Mr McMonnies said.

"There's been a pleasant surprise with some of the results revealing a level of support that usually goes unsaid.

"But more importantly, this research directs us to where we need to focus to strengthen community trust.

"Some of that work might be around improving our communication so Australians have a better understanding of egg farming in context, but we will also be looking at different aspects of egg production and how it can be improved."

Mr McMonnies said the findings of the report had been welcomed by Australian Eggs' members.

"Egg farmers have their finger on the pulse of consumers but this is the first time our members have heard directly from the

community," he said.

"They are encouraged by the level of support for their industry and are open to exploring areas where the industry can improve."

The survey will be repeated annually over a three-year period to enable Australian Eggs to benchmark progress.

Consultation methodology

The first step was a stakeholder engagement process with 17 individuals who represent a diverse set of perspectives on the Australian egg industry.

From these different perspectives, the community survey was developed.

Survey responses were collected across the country through two methods: a research panel matched to ABS population statistics (representative sample) and an open call via a web link (open sample).

Once the data was cleaned, the final numbers were:

- Representative sample: 4797 analysed surveys; and
- Open sample: 7876 analysed surveys.

The CSIRO's report provides a comprehensive summary of the findings and the results of each sample.

It is available through the Australian Eggs and CSIRO websites: australianeggs.org.au/what-we-do/sustainable-production/sustainability-frame-work-and-research.csiro.au/eggs

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Farm biosecurity – sanitiser selection

Vet's View

by ROD JENNER



IN the previous edition I discussed the concept of biosecurity and how important it is to your farm's productivity.

Biosecurity incorporates a number of key components, including farmgate control, production area movement restrictions and thorough cleaning and sanitation procedures.

In this article I will discuss how to choose the correct sanitiser for the job at hand.

Selecting a sanitiser

Care must be taken to choose the correct sanitiser and ensure it is fit for purpose, as it is quite an important component of good biosecurity.

An ideal sanitiser is one that is broad spectrum (kills a wide range of bacteria, viruses and spores), works in any environment, has a short contact time, is non-toxic, non-irritating and non-corrosive.

Unfortunately, there is no single ideal disinfectant for all on-farm uses.

Therefore we have to make a choice based on what we are trying to achieve.

Initial cleaning of surfaces is important to remove the organic load and provide a good surface for final disinfection to be effective.

As a minimum, a two-stage process of washing down followed by sanitation should be employed.

Chemical groups

Many different sanitisers are available on the market, but it is important to understand the chemical group that a sanitiser belongs to in order to understand its spectrum of activity.

Unfortunately there is no single chemical that fulfils all the requirements during shed cleanout.

The chemical group is not always easy to determine, so you should ask your chemical supplier for the details of the products you are using.

Following is some information about a number of the commonly available types of sanitisers:

- Quaternary ammonium compounds are highly water soluble but are inactivated by organic matter.

They are very effective against some bacterial and viral types, but not others, so for this reason are not suitable as final disinfectants. Inactivated by hard water.

- Iodine-based compounds are very effective germicides and are reasonably effective in the presence of organic matter. Can be used as an aerosol through foggers to reduce the impact of respiratory diseases like aspergillus and ILT. Inactivated by QACs.

- Cresylic Acids are excellent germicides but they are quite an irritant and have a strong odour. Care must be taken to avoid contact with the skin.

- Glutaraldehyde is a highly effective sanitiser and remains fairly effective in the presence of organic matter. Efficacy reduced by hard water. Care needs to be taken with handling this as it is toxic.

- Chlorine compounds are good disinfectants but they are inactivated quickly by organic matter. Must not be mixed with acids.

- Oxidising agents are very good broad-spectrum disinfectants and are still effective in the presence of organic matter. May be corrosive.

- Phenols are very effective sanitisers but are irritant and may be toxic. They work well in the presence of organic matter.

Footbaths are very important biosecurity barriers against the entry of pathogens into a flock.

Wild bird and rodent droppings can easily be carried into a shed on boots and must be strongly avoided.

The most overlooked and important step in effective use of a footbath is to remove as much organic matter from the boots as possible prior to stepping in the disinfectant.

Iodine-based products are very good for footbaths due to their combination of safety, efficacy and resistance to organic denaturation.





Egg consumption booming

AUSTRALIAN egg farmers responded to fast-growing domestic demand with the record-breaking production of 6.2 billion eggs in the 2017-18 financial year.

New statistics released by Australian Eggs also show average consumption in Australia has risen to 245 eggs per person, per year.

Currently, 16.9 million eggs are being produced in Australia every day and that represents a massive increase of 54 percent from 10 years ago.

Australian Eggs managing director Rowan McMonnies said more and more Australians are looking for low-cost,

high-quality protein and eggs are the natural choice.

"Eggs have always been known as the affordable protein but it is the broadening from breakfast fare to anytime meal that is driving the popularity boom," Mr McMonnies said.

"We are seeing new groups of consumers explore the versatility of eggs on the back of foodie and natural wholefoods trends.

"Each Australian is eating an average of 4.7 eggs per week and they are now more likely to be eaten at lunch, dinner or as snacks.

"Old favourites like boiled eggs and soldiers are still pop-

ular but market research shows us people are looking for new ways to reinvent egg dishes and we have the foodie movement to thank for that."

Consistent with the long-term trend of increasing free range demand, the proportion of free range supermarket volume increased to 45 percent of the category, which for the first time was just above cage at 44 percent.

"Egg farmers are always responsive to consumer demand and it's hard to think of a food with a wider product range than eggs," Mr McMonnies said.

www.australianeggs.org.au

Jefo announces Dr Avril Grieve as Technical Sales Representative for Australia and New Zealand

JEFO, a global leader in high-performance non-medicated nutritional solutions for animals, recently announced Dr Avril Grieve will join the Jefo Australia team as Technical Sales Representative – Monogastrics, effective November 19, 2018.

Jefo Australia managing director Wayne Bradshaw said, "Avril will be an outstanding asset to the Jefo Australia team."

"She is well known in pig and poultry industries and her technical background and training will provide incomparable support to Jefo's clients in Australia and New Zealand.

"Avril will also work very closely with Jefo's International Monogastric R&I teams in what Jefo calls Applied Scientific Curiosity."

Jefo Group president and founder Mr Jean Fontaine said how proud he was that Avril has decided to join the Jefo Team.

"Avril is a nice person with great knowledge of the industry," he said.

"She is a fantastic asset to our team led by Wayne Bradshaw, who has been working with our strategic partners within Australia/New Zealand for 14 years now, and our commit-

ment is stronger than ever.

"Jefo is working on some exciting projects that will be launched within the next few months.

"Stay tuned to discover the solutions based on our 'life, made easier' commitment to our friends, our clients"

"Jefo is committed to the advancement of the global intensive farming industries through proven scientific solutions and Dr Grieve's appointment is another great addition to the Jefo family," Mr Bradshaw said.

"Avril will join Dr Marcio Gonçalves and Dr Roger Campbell, who were recently appointed as Global Technical Manager – Swine and International Swine Consultant, respectively."

Avril brings with her a Bachelor of Agricultural Science (Animal Science) and a Bachelor of Arts (Psychology).

She furthered her education by completing a Doctor of Philosophy titled 'The role of protease in unlocking the nutritive value of sorghum grain for pigs' at the University of Queensland.

In addition, she has just completed her Graduate Diploma in Education (Secondary).

She has worked in Austral-

ian and New Zealand intensive industries for 15 years and has knowledge in all areas of monogastric production including genetics, nutrition, animal health and research, development and extension.

Avril also has extensive experience in nutritional technical product management including exogenous enzymes, premix formulation and probiotics.

Furthermore, she has over six years of experience in sales account management.

When asked about her new appointment, Avril said, "I have always been impressed with the Jefo product line, the team and their commitment to animal science."

"I am looking forward to my new position at Jefo where I can further develop my skills, take on interesting projects and challenges and continue to work with and support people in the monogastric industry."

Avril can be contacted on 0475 001 123 or at agrieve@jefo.com

About Jefo

Founded in 1982 by Mr Jean Fontaine, Jefo is a family owned company headquartered in Saint-Hyacinthe, Quebec, Canada.

With offices in four continents, Jefo employs over 320 people worldwide and commercialises its products in 80 countries.

The Jefo Group operates on several segments in the agribusiness industry, from innovation and development to transportation, and is considered by clients as a major player without the constraints of a large multinational.

Its core business is the development, production and commercialisation of non-medicated precision nutrition solutions for animals to promote a healthier circle of life on a more sustainable planet.

For further information, please visit jefo.com



Dr Avril Grieve with Jefo Australia managing director Wayne Bradshaw.

www.poultrynews.com.au

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Hy-Line Brown layer Kerrie McManara.

SBA celebrates 25 years of Hy-Line Brown

SPECIALISED Breeders Australia recently celebrated the 25th anniversary of the first Hy-Line Brown genetic import into Australia.

From humble beginnings the Hy-Line Brown

has become the most popular breed for Australian commercial egg producers.

SBA National Sales and Marketing manager Jonathan Leslie said, "The Hy-Line Brown is renowned

for feed efficiency, prolific egg numbers, excellent egg quality as well as its docile nature and outstanding liveability.

"It is the combination of these attributes that has led the Hy-Line Brown to market leadership in Australia.

"The investments made to create a world-class breeding program by our partners at Hy-Line International have seen the Hy-Line Brown's genetic gains improve dramatically over time.

"With Hy-Line International's continued development of advanced genomic technology, which allows for more rapid and better-targeted genetic selection from their breeding program, we can look forward to even more improvements in the years to come."

Hy-Line International president Jonathan Cade said, "We congratulate the team at SBA on reaching the 25-year mark as a Hy-Line distributor."

"SBA has been a fantastic partner in the Australian market, offering industry-leading support and advice to egg producers.

"The capital works program that SBA has instigated in recent years has delivered a state-of-the-art hatchery and improved chick quality, alongside new breeding facilities, which improves long-term supply security for Australian egg producers."

Kerrie McManara, who currently works with SBA's grandparent breeding flocks, helped manage the hatching of the first Hy-Line Brown import through the Torrens Island quarantine facility in 1993.

"Some of the equipment

was pretty basic, one of the incubators was made of timber and the hatching eggs needed to be turned manually five times a day, which meant one of us had to shower in to the hatchery five times to turn a wheel and then shower back out!" she said.

"Once we got the genetic stock to our facility we noticed how different the Hy-Line Brown was to our locally bred birds.

"They were much calmer chooks, particularly the males, and much better layers.

"The breeding performance was also a lot better.

"Because of this, after 18 months we were able to move from artificial insemination to natural breeding, which was far more efficient."

For more information on the Hy-Line Brown, SBA's Technical Service team can be contacted via specialisedbreeders.com.au

About Hy-Line International

Founded in 1936 by Henry A. Wallace, Hy-Line International was the first poultry breeding company to apply the principles of hybridisation to commercial layer breeding.

Today, Hy-Line International continues to be a pioneer as the first company with its own in-house molecular genetics team leading the industry in application of DNA-based technology to its breeding and genetics program.

Hy-Line produces and sells both brown and white egg stock to more than 120 countries worldwide and is the largest selling layer in the American egg industry and around the world.



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SBA's 25th anniversary plaque.

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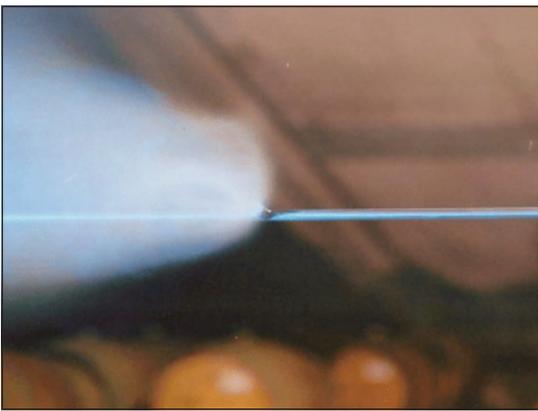
For over 50 years, Australia's egg farmers have trusted SBA's quality layers to keep their egg supply moving. We're Australia's largest specialist supplier for a reason: our genetically superior Hy-Line and Lohmann day-old chicks and point-of-lay pullets are bred in the world's most advanced facilities. And we are still investing in superior biosecurity, logistics and genetics to protect the future of our food security – and support your farm at every stage, from chicken to egg.

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The Ozmist system comprises a high-pressure pump module, nylon distribution lines and either lengths of pre-cut and ma-

chined stainless steel tube or stainless steel misting rings, which are fitted to the face of high velocity fans.

The high-pressure pump module pressurises the supplied water to 1000psi producing ultra-fine droplets averaging 10 microns in size when forced through the ultra-fine misting nozzles.

The mist 'flash evaporates' and cooling is achieved without wetness accumulating on the animals, floors, equipment and people.

A typical piggery misting system consists of stainless steel misting lines being run from one end of the shed to the other end.

Mist lines are made up of 1200mm lengths of stainless steel tube with a machined groove on each end.

Nozzle unions join the tubes and nozzles hand screw into these fittings.

The nozzles alternate from side to side along the length of the tube.

The tube is cabled tied to stainless steel cable or to the underside of the roof trusses.

Misting lines are spaced out across the width of the shed at about 6m intervals.

For example, an 18m-wide shed would have three mist lines.

This ensures a comprehensive coverage of the shed without 'hot spots'.

Mist fans are another option to provide extremely good cooling in large spaces.

Stainless steel misting rings with six nozzles are

cable tied to the face of high-velocity fans and connected to our high-pressure pump modules.

How do Ozmist systems work?

As the temperature inside the shed rises above 28C, the mist pump is switched on, either by a thermostat controller or in some cases the existing shed controller.

As the mist leaves the nozzle, it evaporates and absorbs the latent heat in the air, which in turn cools the hot air.

The cooler air falls to ground level, displacing the hot air.

This continuous cycle of natural convection ensures an even spread of temperatures from the mist lines down to ground level without any mechanical circulation.

To avoid the risk of the humidity rising to unacceptable levels, the side curtains will need to be lowered on either side of the shed.

How far the curtains need to be dropped differs from shed to shed but lowering the curtains 500mm would be a good start.

The idea is to get the mist to evaporate and do its job without 'clouding' inside the shed.

If the mist clouds up inside the shed you will need to open the curtains a little more, and if it evaporates too quickly you should reduce the opening to get the most from the system.

Water filtration is critical to the system's performance.

Ozmist has a range of products to ensure the system operates with a

minimum of fuss and disruption.

Details can be found following.

Our equipment

Ozmist manufactures and stocks the largest range of quality misting equipment in Australia.

We keep a large stock holding all year round and dispatch custom build systems in under two weeks.

Following is a brief outline of our main piggery-related products.

Pump modules

Built by Ozmist and supplied in a stainless steel cabinet, pump modules are available with single and three-phase motors.

We also have inverter models that have distinct advantages when operating more than one shed.

Our pumps are equipped with inlet solenoid valves to control incoming water, a low-pressure switch that registers water flow and stops the pump if the flow and pressure drops outside its range, a high-pressure industrial pump featuring a cast brass head and ceramic pistons.

Coupled to a heavy-duty motor, we have what we believe to be the most reliable pump on the market.

The internal components of the pump are machined from stainless steel and ceramic and can be rebuilt multiple times.

Modules also have twin 10" water filters fitted to the rear of the cabinet.

Five-micron and 10-micron sediment cartridges are included.

Carefree Water Conditioner

Essential if operating

on bore, dam or channel water.

The Carefree unit has proven itself beyond doubt in helping to keep misting nozzles clear of calcium and other minerals that can build up and cause blockages.

C50 Trimline Bag Filters

Essential on systems using dam, channel or bore water.

The C50 has a removable, washable filter bag.

Filtering with a C50 helps protect and add longevity to the 10" cartridge filters on the back of the pump module.

Thermostats/humidistats/timers

Digital displays and fully programmable to control your misting system.

The Ozmist pump module may also be controlled by an existing controller that sends a 240V signal.

Dosing Modules

To combat insects and for aerial disinfection.

Designed as an add-on to an Ozmist pump module, the Dosing Module dispenses measured amounts of water-soluble products into the water supply before the pump.

An inbuilt timer is programmed to start and stop at preset intervals for pre-set periods of time.

The enclosure has all the plumbing and non-return valves plumbed into the dosing pump and the timer wired to a plug ready to go.

Quick Fit misting lines

These are fabricated from 304-grade stainless steel tube.

For ease of shipping and installation the tubing is

continued P11



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Mist cooling solutions for piggeries and poultry sheds

from P10

supplied pre-cut with each end machined to fit inside one of the large range of Quick Fit fittings.

Tube lengths vary depending upon the application, though 1200mm is the accepted length of tube for animal cooling.

Quick Fit fittings

These are machined from solid brass and then chrome plated.

They have an internal O ring that seals onto the tube and a grub screw that is tightened to lock into the machined groove on the end.

Nozzles

Our standard size nozzle is 0.2mm with a flow rate of 0.056 litres per minute.

If we say a pump is an Oz125ci, this indicates it is capable of running 125 x 0.2 nozzles at 70 bar or 1000psi.

We also have a 0.15mm nozzle, a 0.3mm nozzle and a 0.5mm nozzle.

The higher the number on the nozzle, the higher the flow rate.

Standard nozzles are chrome-plated brass with a stainless steel face.

We also stock full 316-grade stainless steel nozzles for corrosive environments.

Mist line support

We support most of our systems on 3mm stainless steel cable, which is then fixed to the building structure and tensioned at either end.

We then cable tie the tube to the cable and support the weight as required.

If the roof trussed are low enough you can fix to the underside.

The Quick Fit stainless steel lines will self-support over 2.5m.

Droppers can also be made from 5mm gal-coated rod with a bend at each end.

FAQs – What sort of temperature reduction can I expect?

The short answer is 10C on the outside ambient.

If you control the curtain openings correctly you may get up to 12C.

Are pumps single phase or three phase?

All size pumps up to the Oz270 are available in single phase.

Pumps from the Oz125 to the Oz320 are available in three phase.

Three phase are a better choice if available, especially if you have an unstable power supply.



Why does Ozmist use stainless steel tube when other suppliers use nylon tube?

Ozmist made the decision to use stainless steel back in 2010 when our main supplier offered us the Quick Fit system.

At the time we were not happy with the Push Lock fittings available.

After extensive testing we found the stainless steel was very easy to use, was leak free, self-supported over 2.5m without sagging and was not affected by sunlight.

Nozzles will never twist as the grub screw locks the fitting in place and the cost between systems is very similar.

Push lock fittings, on the other hand, regularly twist with the pressurising and depressurising of nylon misting lines, sag when not fixed every 500mm, will often leak when first installed and can come apart over time.

Isn't stainless steel more expensive?

Not really.

A Quick Fit system will work out around the same price but it will be there forever.

It won't sag and the fittings will not twist.

Can multiple sheds be connected to a single pump module?

Yes, as long as the internal ambient temperatures are similar, as you can only use one temperature controller in one shed to run the system.

Another consideration is pump capacity.

The largest pump we build is three phase and will supply 320 x 0.2mm misting nozzles.

The largest single-phase pump can handle 270 nozzles.

What happens if I want three sheds connected to one pump but I want to turn one line off? Will this damage the pump unit?

As with any positive-displacement three-piston pump, there needs to be a minimum water flow going through the pump to ensure the head doesn't overheat and seals are damaged.

Ozmist recommends 60 percent of the maximum discharge.

Ozmist now builds 'VFD Inverter' pump modules.

The inverter series are single phase into the inverter, which runs a three-

phase motor.

A transducer is built into the system to restrict pump pressure to 70 bar.

If lines are shut down in the system, the transducer restricts the motor rpm to maintain 70 bar.

We can reduce the flow rate down to 30 percent of maximum with no overheating issues or risk of damage to the pump motor.

What is the minimum water pressure and flow rate required at the pump module?

Our pumps require a minimum in-flow pressure of 20psi and a flow rate greater than the maximum output of the pump.

Gravity pressure is rarely great enough to satisfy the pressure requirement and a transfer pump will be required.

Can bore, channel or dam water be used?

Water quality is our biggest problem but it can be

overcome with a series of filters and water conditioners.

Where bore/channel water is used, we always recommend the customer fit a Trimline C50 Bag Filter with a 25-micron filter weave.

We also recommend a Care Free Water Conditioner is built into the system to protect from calcium and dissolved minerals in the water.

How do I know how many litres of water per hour my system will use?

Our standard nozzle is known as the 0.2 and has a flow rate of 0.056 litres per minute.

Once you know how many nozzles you have in the system, multiply this by 0.056 to find your litres per minute.

How many misting lines will be required?

When designing a misting line system, we aim

for a 6m minimum spacing between lines.

The outside lines closest to the side of the building are set in at least 3m.

An example is based on an 18m-wide shed.

We would place the two outer lines 3m off either wall and then a line at 9m. This would be three lines in total.

Nozzles are normally spaced 1200mm apart.

Will the humidity build up in my shed?

Yes, it can.

Each shed is different and getting the maximum benefit out of the system will be determined by the operator on site.

Where normally the curtains will close completely on very hot days, with an Ozmist system you will need to open the side with the prevailing breeze up about 500mm.

On the other side you

may have to drop the curtain a metre.

By opening the curtains you are allowing fresh air to be sucked through the shed and mix with the treated air, keeping humidity levels down.

The height to which you open the curtains will need to be experimented with on site but you quickly know what works best.

Who installs the system?

The system can be installed by virtually anyone, with no trade required unless you are connecting to the electrical system for the pump power supply.

Tools required: cordless drill and some screws, a 3mm Allen key to bolt the tube and fittings together and a pair of shifters for the nylon tube connections.

You won't need much more than that in most cases.

Warranty

All items supplied by Ozmist are subject to a 12-month warranty.

On industrial pump modules we offer a two-year warranty (providing services are completed every 500 hours).

Anything else I should be aware of?

Don't over complicate!

There is no need to over design what is a naturally occurring process.

Ozmist has supplied hundreds of systems for cooling anything from alfresco dining areas, factories, workshops and agricultural buildings.

We have provided dozens of systems for piggeries and duck-growing sheds and the same principles apply.

For any further information and to get in touch, visit ozmist.com.au or call 1300 306 478.



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Australian Veterinary Microbial Stewardship Conference 2018

■ Sunshine Coast, November 11-13

AUSTRALIAN approaches to the appropriate use of antimicrobials in animals (including livestock), through the implementation of outstanding antimicrobial stewardship principles are world-class.

However, there is more that can be done to minimise the impact of antimicrobial usage, animal management practices and the environment on the development of antimicrobial resistance, while upholding our collective responsibility to ensure high standards of animal health and welfare are maintained.

The Office of the Australian Chief Veterinary Officer, Australian livestock industries and other animal health stakeholders have planned an inaugural Australian Veterinary Antimicrobial Stewardship Conference to be held on the Sunshine Coast from November 11-13, 2018.

This conference will attract national and international interest from veterinary, research, government, industry, producer and university stakeholders, especially given there have been so few veterinary AMS conferences, and none in Australia,

despite the long history of action and interest in veterinary AMS by several stakeholders in the agricultural, community, state and federal government sectors.

The foundation conference is particularly timely and will provide Australian veterinary stakeholders the opportunity to contribute to, and learn about, the growing number of veterinary AMS initiatives under way in Australia and identify opportunities to collaborate to strengthen these initiatives and address barriers that might impede progress to further refinement of these AMS efforts.

Pre-conference antimicrobial use workshop: Sunday, November 11

Surveillance of antimicrobial use tracks the what, when, why and how of antimicrobial use.

An ideal One Health approach to the challenge of antimicrobial resistance would be able to identify not only what resistance is being observed but how antimicrobial use in the animal and human health sectors is contributing to the resistance seen.

Such a system needs to be able to integrate inputs from the veterinary and medical professions and their clients, government

agencies, animal, food and related industries, and laboratories.

The data gathered needs to be able to inform government policy and resource allocation for the future.

Fundamental questions remain:

- What contribution does food make to AMR?
- Does the use of antibiotics in small animal practice have AMR consequences for the human population?
- What is the future of antimicrobial use in livestock production?

Come and hear from your colleagues as to the current state of play in the

animal sector and future plans for tracking antimicrobial usage in animals in Australia.

Attendance at this workshop is included with a full registration ticket.

Session commences at 12pm on Sunday, November 11.

Registration opens from 11am with light lunch provided.

Registration

Full registration includes a ticket to the welcome reception (Sunday, November 11) and dinner (Monday, November 12).

Delegate pricing for full registration is \$695, while student pricing is \$350.

Day registration on Sunday, November 11 includes attendance at the AMU workshop and session one of the conference, with delegate pricing \$250.

Monday and Tuesday day registrations cost \$395.

The organisers look forward to welcoming you to the inaugural AVAMS Conference to be held at Novotel Twin Waters, Sunshine Coast, Queensland from November 11-13, 2018.

For any more information and to register, visit avams2018.w.yrd.currind.com or call 07 3368 2422.

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A technological insight into Australian agriculture

ABARES recently released a report on how information, communication and technology is used in Australian agriculture.

The report also identifies the key differences in adoption between agricultural sectors and between small and large farms.

ABARES executive director Dr Steve Hatfield-Dodds said the report presents findings from more than 2000 face-to-face conversations with farmers across Australia.

“Ninety six percent of Australian farmers own and use ICT, and they are investing in technologies that suit their production systems,” Dr Hatfield-Dodds said.

“Examples of ICT used on farms range from computers and telephones through to things like GPS-guided harvesting equipment.

“Large farms are more likely to invest in and use

ICT than their smaller counterparts.

“For example, on large dairy farms we saw greater investment in sensors and monitoring technology, which is likely to reflect moves towards fully automated milking systems.”

Reported obstacles to adoption of ICT included skills, internet access, cost and availability of useful new technologies.

“It is evident that new equipment and the data it generates are changing how farms are managed,” Dr Hatfield-Dodds said.

“New ICT will be fundamental to the next wave of productivity growth in Australian agriculture.

“The use of digital agriculture in Australia has the potential to increase productivity through optimising input use, more timely decision-making, labour savings and improved market access.”

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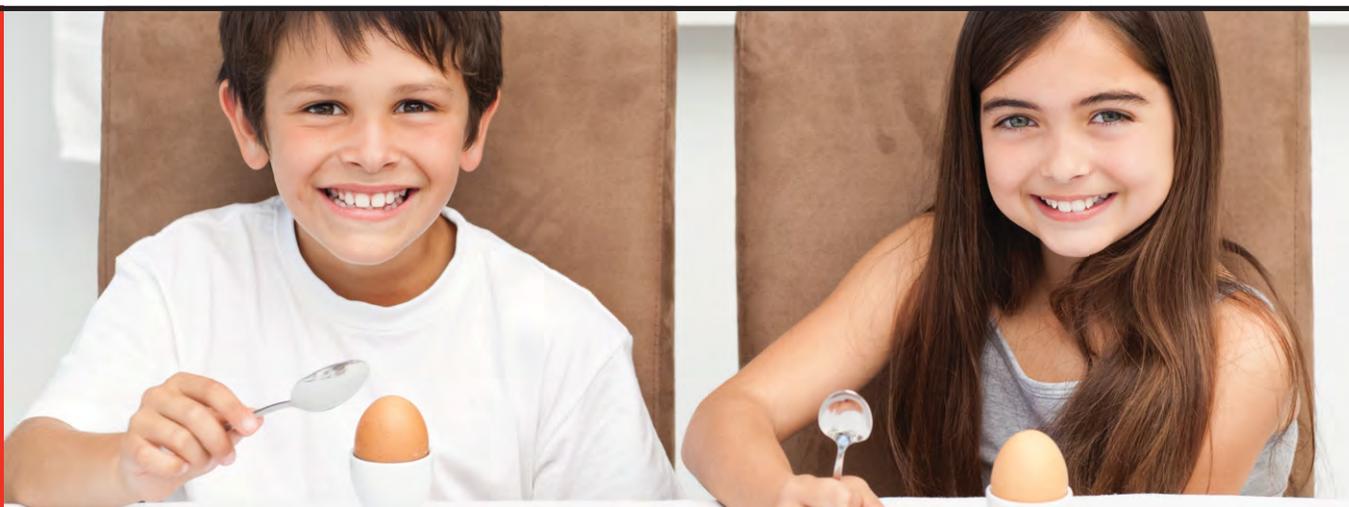
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Chicken nuggets lab-grown from feathers to go on sale by end of year, company says

IMAGINE if instead of raising a whole chicken for slaughter, it was possible to pop a feather in a machine and grow a chicken nugget.

That's basically what a San Francisco-based company says it has figured out how to do.

It claims the process – from feather to nugget – takes about two days.

It also says it will make its first commercial sale of the product by the end of 2018.

You can see an example of the synthetic chicken nuggets in a video at [you tube.com/watch?v=_GgP6jo5DTM](https://www.youtube.com/watch?v=_GgP6jo5DTM), as well as the chicken that provided the feather to grow them.

The company, Just, claims the chicken, Ian, is kicking back at a sanctuary in Northern California, not far from the lab.

Recently, the company's CEO and co-founder Tweeted: "Lay down your spears. 400,000 years ago, meat became part of the human diet, and throughout time, human beings have needed to kill the animal to enjoy their meat. First, with spears. Then, with industrial machines. Get ready for that paradigm to change."

How does it taste?

A BBC reporter recently visited the company's San Francisco headquarters and found the prototype chicken nuggets "impressive".

"The skin was crisp and the meat flavoursome, although its internal texture was slightly softer than you would expect from a nugget at, say, McDonald's or KFC," the reporter said.

Why bother?

This kind of technology is nothing new, with the first lab-grown hamburger unveiled in 2013.

But that single patty cost \$US300,000, and, although costs have fallen a long way since then, no company has yet scaled up to commercial production.

The Israel-based startup Future Meat Technologies aims to begin selling its first lab-grown products later this year at about \$US363 a pound (it hopes to get under \$US4.50 a pound within two years).

Aside from lab-grown meat, there's also fake meat – these are lab-designed combinations of plant-based protein.

Although they bleed and sizzle and are much more advanced than your standard chickpea slab, they're still a way away from the

experience of eating meat. Fake meat has already made it from the lab to the supermarkets.

The reason for the interest in these non-meat protein products has to do with the enormous environmental cost of raising chickens, pigs and cows.

It's estimated raising livestock for meat, eggs and milk generates 14.5 percent of global greenhouse emissions.

It's also estimated the production of meat and seafood around the world will massively increase in coming decades, as the global population continues to grow and more people adopt Western-style diets high in animal protein.

Lab-grown meat has been marketed as 'clean meat', and Just claims its product is more environmentally friendly than chicken.

"Preliminary analyses show significant reductions in land use, water use, greenhouse gas emissions, and energy use," the company said.

"With plants providing nutrients for animal cells to grow, we believe we can produce meat and seafood that is over 10 times more efficient than the world's highest-volume slaughterhouse.

"All this without confining or slaughtering a single animal and with a fraction of the greenhouse gas emissions and water use."

Some synthetic meat products are grown from cells placed in a stem cell serum that is commonly from the foetuses of dead cows.

Just says its chicken nuggets are grown in a plant-based medium.

What if we just ate lentils?

However, culturing meat requires more energy than just growing plant-based meat substitutes like soybeans and lentils.

It may also require more energy than raising other kinds of animals.

A 2017 study concluded that lab-grown beef required much more energy than growing chickens.

It concluded the technology was developing and the process could get more efficient, but sounded a note of caution about unchecked techno-optimism.

Others have also pointed out that livestock performs an important role in digesting grass, extracting nutrients and spreading

• continued P15



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www.poultrynews.com.au

Chicken nuggets lab-grown from feathers to go on sale by end of year, company says

from P14

fertiliser as manure.

If we got rid of the livestock these would have to be replaced with industrial equivalents.

A 2015 study warns lab-grown meat could just create a whole bunch of new problems: "From this perspective, large-scale cultivation of in-vitro meat and other bio-engineered products could represent a new phase of industrialisation with inherently complex and challenging trade-offs."

On its website, Just argues: "We think it's unlikely that families in Alabama (or anywhere in the world) will consistently choose plant-based alternatives over chicken, beef, pork and seafood."

"And when you're talking animal protein, higher unit volume and accordingly lower prices will necessarily mean industrialised animal production."

"There's no conventional way around this math."

Can it be sold in Australia?

The short answer is yes, but each different lab-grown meat prod-

uct will need to be tested by Australian health and safety authorities first.

The real question is what it would be called.

In Australia, meat is defined as "the whole or part of the carcass if slaughtered" of "any animal".

As QUT law lecturer Hope Johnson notes in a Conversation article, a key selling point of lab-grown meat is that nothing has been slaughtered, so lab-grown meat companies would not want to satisfy that legal definition of 'meat'.

The alternative is vague product names without the word meat – something like 'Quorn', the meat substitute product made from soil mould.

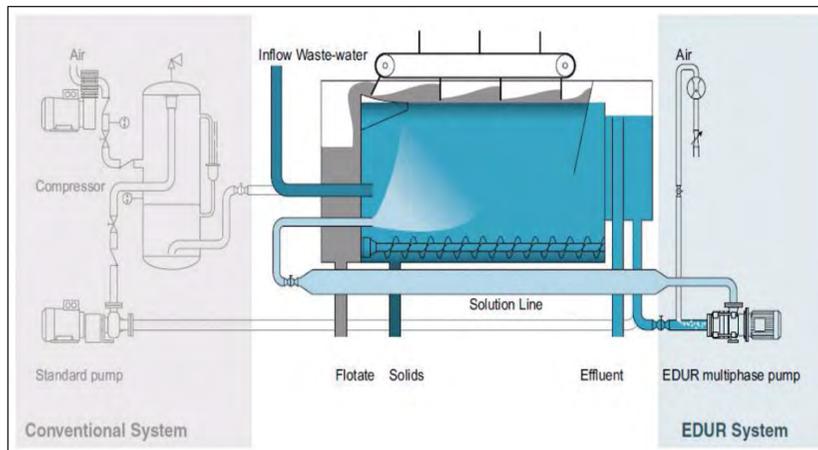
Either way, farmers might push back.

Earlier this year, Deputy Prime Minister Michael McCormack called out the linguistic trickery of 'plant-based mince'.

"Mince is mince, mince is meat," he said.

"That's my interpretation of what mince is."

Originally published at abc.net.au



EDUR DAF pump saves capital cost, energy and maintenance costs

A SINGLE dissolved air flotation pump is able to replace the entire air bubble system on DAF plants according to pump supplier Hydro Innovations.

EDUR multiphase pumps draw water in from the 'clean' end of the DAF tank as well as bring air in through a snorkel in the suction line.

The pump shears the air and then feeds it at pressure through an enlarged solution line, then back into the DAF plant, producing a discharge stream into the tank that is saturated with 30 to 50-micron air bubbles.

Conventional DAF systems consist of a wastewater tank, compressor, air saturation vessel and effluent pump.

The effluent pump draws effluent from the tank and pumps it into the air saturation vessel.

A compressor pumps air into this same vessel.

The air/water mixture is 'saturated' under pressure, then released back into the wastewater tank at atmospheric pressure where tiny bubbles form and adhere to the suspended matter (fats, oils and other small wastewater particles).

The bubbles (with their attached suspended matter) float to the surface of the tank, where floatables can be skimmed off the surface.

By using EDUR multiphase pumps, which can produce the same micro-bubbles, asset owners can do away with the compressor, the air saturation vessel and any control or ancillary components for these items.

The reduction of these system components and the simplification of the design results in lower investment costs and higher operational reliability.

The EDUR multiphase pump is an efficient alternative.

Now, one pump can replace the conventional pump, air saturation tank and compressor.

Energy and maintenance costs of running the compressor are eliminated.

EDUR multiphase pumps can deliver flows from 1l/s (for smaller DAF plants) to 15l/s (for larger DAF plants) and produce pressures to 12 bar (174psi).

A variety of materials and seal arrangements enable EDUR pumps to operate in a very wide range of applications.

Available materials include ductile iron, 'gun-metal' bronze, stainless steel and super duplex.

Mechanical seals are available as balanced, double and tandem.

More information on these pumps can be obtained from info@hydroinnovations.com.au or by phone on 02 9898 1800.

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